

Plugs for the world



2007

Made by professionals. For professionals.

In recent years, the world of electrical engineering has undergone rapid development, just like most other industries and processes. Multifunctional plugs and receptacles to bundle together and distribute various forms of energy are just an example of the innovative spirit that has made MENNEKES prominent for more than 60 years.

With over 6,000 catalogue items and just as many tailored combinations, we offer an assortment that meets any requirement and sometimes even exceeds it.
Internationally certified and tested.

Latest technology, the imagination of our staff and the courage to grow have made us a market leader with branches and agencies all over the world.

In order to maintain our position, we give first priority to establishing close customer relationships. Only by a constant interchange with you, the customer, do MENNEKES products stay what they are:
Made by professionals.
For Professionals.
For the whole world.



A dialogue with customers:
One of Walter Mennekes' most important undertakings.

For the whole world.





MENNEKES®

Plugs for the world

MENNEKES

Elektrotechnik GmbH & Co. KG

Spezialfabrik für Steckvorrichtungen

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1		Receptacles Cepex receptacles	
2		Plugs Phase inverters Test plugs	
3		Connectors	
4		Receptacles – fused, switched and interlocked, electrically interlocked	
5		Plugs and receptacles, 7 pole Plugs and receptacles for 600V to 690V power supply Plugs and receptacles with special 1h earth position	
6	NEW!	Industrial Ethernet - Electrical power and data: Cepex data port receptacles and fibre optics technology in Cepex- and CEE-receptacles CEEplus - Electrical power, signals and data	
7	NEW!	AMAXX® Receptacle combinations	
8		EverGUM Receptacle combinations in solid rubber enclosures	
9		Receptacles in stainless steel and other metal enclosures	
10		Plugs and receptacles for special applications: - for use in corrosive atmosphere - for use under harsh conditions - made of AMELAN with a high resistance to chemicals	





3KRAFT

Distributing panel.



Electrical
power, data,
compressed air.
From the ceiling,
on the wall or on
the floor.

11	SCHUKO® plugs and receptacles Grounding-type plugs and receptacles according to various national standards	
12	Plugs and receptacles for low voltages, downstream of an isolating transformer, DC	   
13	Plugs and receptacles for containers and terminals	
14	Plugs and receptacles for hazardous areas Zone 22	 
15	Plugs and receptacles for campsites and mobile consumers	
16	Plugs and receptacles 200A to 400A	
17	Cable connection boxes, hinged windows, enclosures	
18	Plugs and receptacles for military purpose Plugs and receptacles for fire brigades and civil protection organisations Plugs and receptacles made from light weight alloy	
19	References	

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Regulations and standards
Index of Part numbers



MENNEKES – the highest quality standards, worldwide.

Creating connections.



MENNEKES products are manufactured using hightech machines, applying the maximum care using both manual labour and automatic processes.



Maintaining connections.

With products manufactured at our headquarter in Kirchhundem and Neudorf/Erzgebirge we serve the world marked. The plant in Nanjing/China supplies our customers in the chinese domestic market. With representations in Germany, various subsidiaries abroad as well as international representatives we are organised to be active around the globe. A total staff of 650 ensure that MENNEKES products are popular all over the world.



Kirchhundem production facilities



Kirchhundem headquarters



Neudorf works

Nanjing works, production facility to serve the Chinese market




Always a step ahead with MENNEKES.

Our R&D department focuses on the requirements of national and international customers. MENNEKES develop and design products that not only enhance workplace safety but also facilitate work processes thus saving time and cutting costs.

The results are presentable: well thought-out design and a very wide range of applications.

Many of our concepts and ideas have been patented and still, new ideas coming up every day.

Professional.



Thinking ahead.
Thinking creatively.
Thinking outside the box.



Full of imagination. Practical.

Granted the award
DESIGN PLUS



reddot design award
winner 2006



StarTOP®.
Plugs and receptacles
with SafeCONTACT.
The innovative contact
technology to save time
and cut costs.



AirKRAFT® and 3KRAFT.
The multifunctional distributors for electrical power,
data, compressed air integrate practical handling
with excellent, repeated award-winning product
design.



EverGUM.
Solid rubber in a signal
colour for durability and
safety.

Only products labelled MENNEKES deserve the highest accolade.

Firm. Tight.

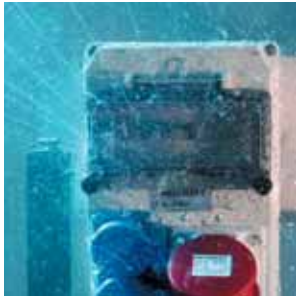


Our products are exposed to extreme conditions, for the first time in the MENNEKES test lab. Only those products which stand up to this harsh test will be used worldwide and deserve to be labelled with our name.



Constant exposure to cold, heat, dust and water is carried out in our test lab over and over again. After that, products are certified by esteemed organisations according to international standards. On that you can rely, any time, in any circumstances, all over the world.

Durable.



In order to positively achieve our aim of ensuring high quality in all markets, we have introduced and certified a quality management system according to DIN EN ISO 9001:2000. Being an export-oriented organisation, MENNEKES hold product certificates from internationally renowned test institutes for various application areas.

Tested
and
certified.

Your direct line to products, information and service.



Service and safety
all over the world:
Here you will find
information and a
product overview,
no matter where
or when.



www.MENNEKES.de Around

At www.MENNEKES.de, you will find everything you need: information on our company, our products and our services. Over 10,000 products are documented in our online catalogue with a comfortable search function, so that you swiftly find what you're looking for.

What's more, all our current leaflets and information are available for downloading. Also, you may order sales promotion aids. If you would like to get in touch with us, you will find all contacts, all major postal addresses, subsidiaries and much more.





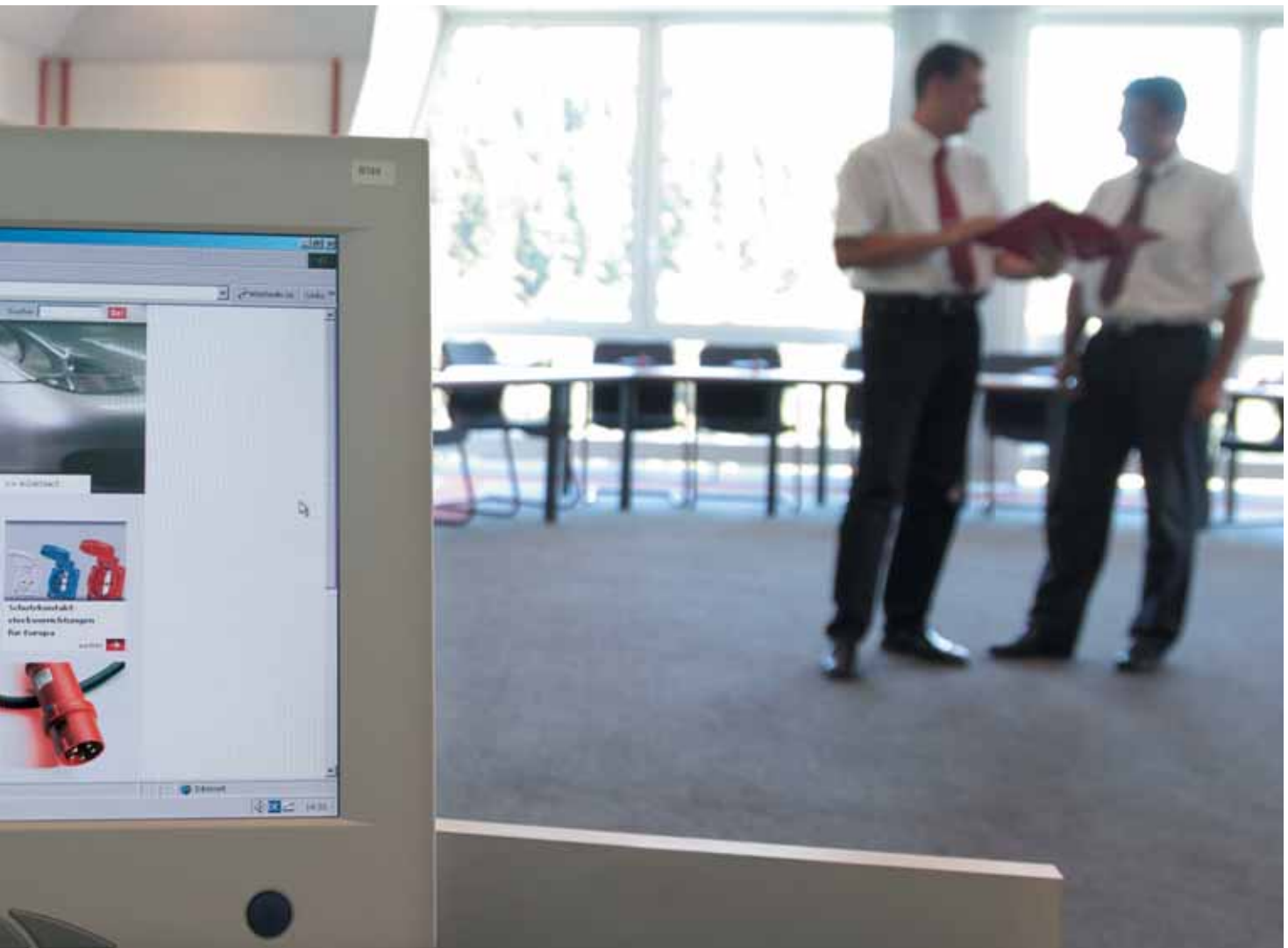
Detailed information for professionals: To help you with engineering, exact dimensions and specifications of the various products can be viewed on the internet.

Take the online configurator for your planning: Just 3 steps to your required combination with price, illustration and a descriptive text:

www.AMAXX.info



the clock. Around the globe.



Training and vocational education at MENNEKES.



Together we're strong.

We constantly offer training for our partners from all crafts, trades and industries to introduce new products, exchange experience and submit proposals. These synergies are reflected in research & development and in practical applications.



More
information:
[info@
MENNEKES.de](mailto:info@MENNEKES.de)



Those who have greater knowledge can provide better advice and put forward stronger sales arguments. Therefore, we have established the MENNEKES training centre for our customers. Changing markets, new developments, new regulations, new products. It was never as important as it is today to constantly update one's know-how. Using advanced communication equipment, capable experts clarify and explain complex issues. What's more, the sharing of ideas among colleagues leads to new ways of carrying out day to day tasks.



Youth is our future.

The advancement of young people is one of the most important things in our times. To MENNEKES, it has top priority. Every year, we take on more apprentices than other companies.

We are at your disposal, at more than 40 trade fairs every year.

Making contacts.



Trade fairs are an important communication platform for introducing new products, sharing ideas, cultivating relationships and making new contacts. Every year, we participate in trade fairs in Germany, the rest of Europe and all over the world. Of course, you will also find us at the industry's most important fair, i.e., "Light & Building". Customers and manufacturers alike can benefit from experience gained on such occasions.



Sharing experience.



Technical information,
from man to man:
Sharing information is
paramount because
praise, criticism and
ideas are the source
of market-oriented
concepts.





National partnerships.



Gesellschaft zur Förderung der elektrischen Installationstechnik e.V.



International recognition.

MENNEKES plugs and receptacles conform to relevant national and international standards. After plugs and receptacles are tested by independent organisations such as VDE (Association of German Electrical Engineers), records according to CCA- or CB-II-procedures are established which then serve as basis for approval in other countries, among others

in the countries whose national test marks are listed below. Due to special national regulations not all products can receive general world-wide approval. For plugs and receptacles for the USA and Canada, see separate catalogue.



Argentina



Belgium



Denmark



Germany



Finland



France



Great Britain



Italy



Canada



Croatia



Netherlands



Norway



Austria



Poland



Russia



Sweden



Switzerland



Slovakia



Spain



South Africa



Czech Republic



Hungary



USA



PR China





■ CEE receptacles, 16A to 125A

**Receptacles
screwless with
TwinCONTACT,
16A and 32A,
IP 44 and IP 67**

Page 22 and 23



**Receptacles
with screw terminals,
16A to 63A,
IP 44**

Page 24 and 25



**Double boxes
screwless with
TwinCONTACT,
16A and 32A,
IP 44**

Page 22 and 23



**Receptacles
with screw terminals,
16A to 125A,
IP 67**

Page 26 and 27



**Panel mounted
receptacles
screwless with
TwinCONTACT,
16A and 32A,
IP 44 and IP 67**

Page 28 to 31



**Panel mounted
receptacles
with screw terminals,
16A to 125A,
IP 44 and IP 67**

Page 32 to 37



**RAPIDO
panel mounted
receptacles with
a central locking
system,
16A and 32A,
IP 44**

Page 38 and 39



**Panel mounted
receptacles for
cable ducts and
flush mounted
installation boxes,
16A and 32A,
IP 44 and IP 67**

Page 40 to 43



**Cepex surface
mounted receptacles
and
double receptacles,
16A and 32A,
IP 44**

*Page 46, 47
and 56, 57*



**Cepex panel mounted
receptacles and flush
mounted receptacles
16A and 32A,
IP 44**

*Page 48 to 55
and 58, 59*



Receptacles with high heat-resistant contact carriers and nickel plated contacts and with high resistance to chemicals see chapter 10.

■ Receptacles 16A to 125A

New. The swift connection. MENNEKES TwinCONTACT.

Looking for quick and easy connection? You can't miss the MENNEKES TwinCONTACT – a spring terminal in a newly designed receptacle. Remove the insulation, insert the conductors, and you're done. The contact is safely in place and it is even approved as a connection terminal – undo the conductor, that's all it takes. Press the red button and remove the conductor – this is our concept of convenient and time-saving handling.

Colour-coded terminals for unmistakable connections.



Suitable for solid conductors and flexible conductors (with ferrules or ultrasonic welded).

Cond. cross section
at 16A: 1.5 - 4.0 mm²,
at 32A: 2.5 - 10 mm².



For powerful contacts.
MENNEKES
TwinCONTACT.



Through wiring. Safe and easy.

With the new MENNEKES TwinCONTACT, the connection of CEE and/or SCHUKO® receptacles is easily established.



Save time.

Panel mounted receptacles with TwinCONTACT technology. For installation in ducts, distributors, control cubicles, ...

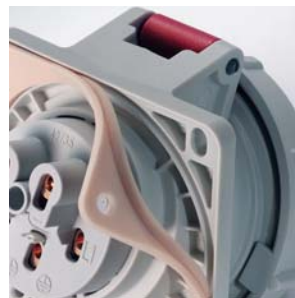
Flanges and fixing. One dimension for all.

1



Panel mounted receptacles from 16A 3 pole to 32A 5 pole, in IP 44 or IP 67. A uniform flange dimension of 85 x 85 mm as well as a standardised fixing hole spacing of 70 x 70 mm make the swiftest installation possible.

For additional functions such as control, monitoring, signalling, electrical interlocking etc., an optional auxiliary switch may be installed.




There's nothing tighter than that. Twisting-proof flange with integral positioned seal.

RAPIDO. Installed in no time at all.



The name says it all: Quick installation in a jiffy, with no need for fixing holes or screws. Safe gripping by a stable thread with counter nut and protection against torsion. 16A 3 pole to 32A 5 pole, IP 44. Installation diameter of 61 mm for a wall thickness from 2 to 5 mm or 70 mm a wall thickness from 2 to 9 mm.



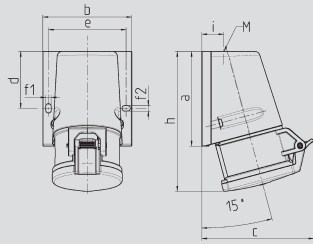
Cepex – the attractive receptacle range can be found in the 2nd part of chapter 1. 

MENNEKES CEE receptacles, screwless, with TwinCONTACT

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



Drawing	Amp.	16			32		
1 MB 463	Poles	3	4	5	3	4	5
Dim. in mm	a	95	93	92,5	102	102	102
	b	73,5	87,5	87,5	94	94	94
	c	93	107,5	110	115,5	115,5	119,5
	d	55,5	55,5	55,5	62	62	62
	e	61	76	76	84	84	84
	f1	5,3	5,3	5,3	5,1	5,1	5,1
	f2	5,3	5,3	5,3	5,1	5,1	5,1
	h	139	139	136,5	160	160	156,5
	i	19,8	21,5	21,5	26,5	26,5	26,5
	M	M20x	M25x	M25x	M25x	M32x	M32x
		1,5	1,5	1,5	1,5	1,5	1,5
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	2,5
		—4	—4	—4	—6	—6	—6

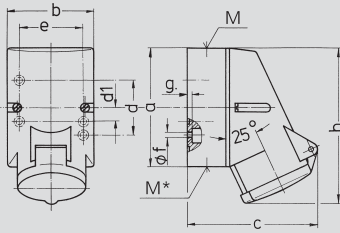
Receptacles

with TwinCONTACT

screwless spring terminals, external fixing, cable entry from top



Product group 1038, type 31 shown.



Drawing	Amp.	16		
1 MB 209	Poles	3	4	5
Dim. in mm	a	87	100	100
	b	64	75	75
	c	99	110	113
	d	40	11	11
	d1	50	59	59
	e	50	59	59
	f	4,5	5	5
	g	115	125	128
	h	115	125	128
	M	20	20	20
	M*	M20 (blind)	M20 (blind)	M20 (blind)
		to be cut out	to be cut out	to be cut out
Max. cable diam. (mm)		15	15	15
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5
		—4	—4	—4

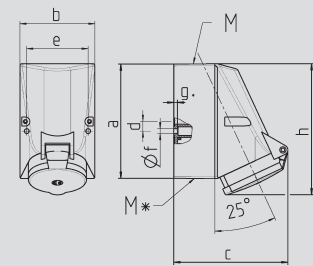
Receptacles

with TwinCONTACT

screwless spring terminals, suitable for through wiring, internal fixing, one cable entry at top and one blind entry (can be cut out) at bottom, enclosure base can be turned 180°



Product group 1140, type 3331 shown.



Drawing	Amp.	16			32		
1 MB 43	Poles	4	5		3	4	5
Dim. in mm	a	128	128		128	128	128
	b	84	84		84	84	84
	c	122	124		136	136	138
	d	11	11		11	11	11
	e	68	68		68	68	68
	f	5,3	5,3		5,3	5,3	5,3
	g	4	4		4	4	4
	h	144	145		158	158	160
	M	25	25		32	32	32
	M*	2x M 25 (blind)	2x M 25 (blind)		2x M 25 (blind)	2x M 25 (blind)	2x M 25 (blind)
		to be cut out	to be cut out		to be cut out	to be cut out	to be cut out
Max. cable diam. (mm)		18	18		18/25	18/25	18/25
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5		2,5	2,5	2,5
		—4	—4		—10	—10	—10

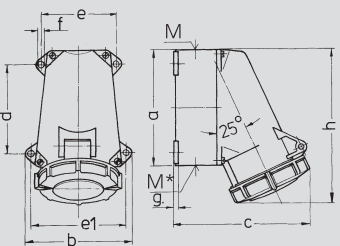
Receptacles

with TwinCONTACT

screwless spring terminals, suitable for through wiring, internal fixing, one cable entry at top and two blind entries (can be cut out) at bottom, enclosure base can be turned 180°



Product group 1141, type 419 shown.



Drawing	Amp.	16			32		
1 MB 219	Poles	3	4	5	3	4	5
Dim. in mm	a	95	95	95	120	120	120
	b	102	102	102	112	112	112
	c	115	124	129	143	143	150
	d	64,2	64,2	64,2	90,2	90,2	90,2
	e	77,5	77,5	77,5	79	79	79
	f	88	88	88	98,5	98,5	98,5
	g	5,5	5,5	5,5	5,5	5,5	5,5
	h	128	128	132	160	160	160
	M	20	25	25	32	32	32
	M*	20	25	25	M 32 (blind)	M 32 (blind)	M 32 (blind)
		(blind) to be cut out	(blind) to be cut out	(blind) to be cut out	(blind) to be cut out	(blind) to be cut out	(blind) to be cut out
Max. cable diam. (mm)		15	18	18	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	2,5
		—4	—4	—4	—10	—10	—10

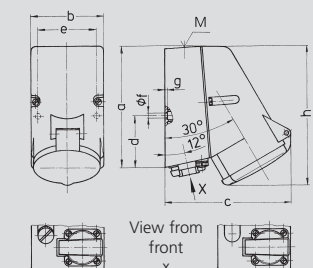
Receptacles

with TwinCONTACT

screwless spring terminals, suitable for through wiring, with 4 external fixing points, one cable entry at top and one blind entry (can be cut out) at bottom



Product group 1132, type 200 shown.



Drawing	Amp.	16	32
1 MB 354	Poles	5	5
Dim. in mm	a	141	141
	b	85	85
	c	139	153
	d	61	61
	e	68	68
	f	5,3	5,3
	g	4	4
	h	145	162
	M	25	32
Max. cable diam. (mm)		18	25
Terminal for cond. cross section (mm²) min.-max.		1,5	2,5
		—4	—10

Double boxes with TwinCONTACT CEE and SCHUKO® receptacle

in one enclosure

screwless spring terminals, also available with shock-proof receptacles to comply with French/Belgian, Danish and Swiss standards

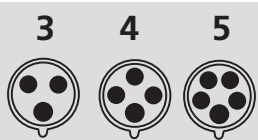


Product group 1143, type 1649 shown.

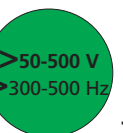
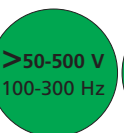
Auxiliary contact

For standard receptacles and panel mounted receptacles 16A and 32A of product groups 1018, 1019, 1041, 1044, 1048, 1049, 1132 and 1141. Function: Change-over contact = NC/NO Connected load: 16A (4A)* / ~ 250V 10A (3A)* / ~ 400V

* for inductive or motor load



2p+E 3p+E 3p+N+E



Amp. Poles 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h 10h 10h 10h 2h 2h 2h

Part numbers

Qty. g/each



16	3	1340	1341				10	
16	4		1342	1343	1344		10	
16	5			31			10	231
32	3	1345 *	1346 *				10	
32	4		1347 *	1348 *	1349 *		10	
32	5			32			10	

* under construction



16	3	1719	1720	1721			10	180
16	4		1723	1724	1725	1726	10	240
16	5		1730	3331			10	273



16	4	H	1750	1751	418	1752	1753	1754	10	303
16	5	H	1755	1756	419	1757		1759	10	333
32	3	H	1851 *	420 *	1852 *			1854 *	10	
32	4	H	1855 *	1856 *	421 *	1857 *	1858 *	1859 *	10	
32	5	H	1860	1861	422	1862		1864 *	10	

* under construction



16	3	H	1867	241	1868				10	240
16	4	H	1870	1871	242	1872	1873	1874	10	270
16	5	H	1875	1876	200				10	315
32	3	H	1877 *	243 *	1878 *				10	
32	4	H	1879 *	1880 *	244 *	1881 *	1882 *	1883 *	10	
32	5	H	1884	1885	245				10	

* under construction



16	4		1647	1648					5	395
16	5			1649					5	412
16	5			1650	with fuse holder, max. 10 A H				5	420
32	5			1651	with fuse holder, max. 10 A H				5	530



Part no. 41000

10

H May be fitted with auxiliary contact.

1

MENNEKES CEE receptacles and receptacles for through wiring, with screw terminal

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

Drawing	Amp.	16			32		
1 MB 205	Poles	3	4	5	3	4	5
Dim. in mm	a	91	91	91	102	102	102
	b	73	79	87	89	89	94
	c	86	93	99	108	108	114
	d	55	55	56,4	62	62	62
	e	62	68	76	77,5	77,5	84
	f	5,3	5,3	5,3	5,3	5,3	5,3
	g	8	8	9	10	10	10
	h	132	132	132	153	153	153
	M	20	25	25	25	25	32
	Max. cable diam. (mm)	13	18	18	18	18	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

external fixing, cable entry from top

Product group 1037, type 1 shown.

Drawing	Amp.	16		32		
1 MB 43	Poles	4	5	3	4	5
Dim. in mm	a	128	128	128	128	128
	b	84	84	84	84	84
	c	122	124	136	136	138
	d	11	11	11	11	11
	e	68	68	68	68	68
	f	5,3	5,3	5,3	5,3	5,3
	g	4	4	4	4	4
	h	144	145	158	158	160
	M	25	25	32	32	32
	M*	2x M 25 (blind) to be cut out		2x M 25 (blind) to be cut out		
Max. cable diam. (mm)		18	18	18/25	18/25	18/25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

internal fixing, one cable entry at top and two blind entries (can be cut out) at bottom, enclosure base can be turned 180°

Product group 1041, type 1419 shown.

Drawing	Amp.	63		
1 MB 213	Polen	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	164	164	164
	d	134,5	134,5	134,5
	e	103	103	103
	f	6,1	6,1	6,1
	g	6	6	6
	h	216	216	216
	M	40	40	40
	M*	2x M 40 (blind) to be cut out		
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25

Receptacles with SoftCONTACT

internal fixing, one cable entry at top and two blind entries (can be cut out) at bottom, enclosure base can be turned 180°, with 6 fixing points to accommodate special terminals

Product group 1041, type 1145 shown.

▲ IP 44

Product group 1037, type 1 shown.

▲ IP 44


Product group 1041, type 1419 shown.

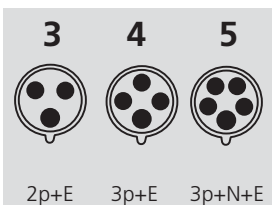
▲ IP 44

Product group 1041, type 1145 shown.

Terminal strips

(for receptacles on page 26/27, product group 1052)

	Amp.	Poles	Part numbers	Std. Pack.	g/each	
	16	4+5	40113	5	160	Terminal strips for receptacle, for through wiring for 16 and 32 A, made up of 5 frame terminals with connecting cables, 2x10 mm² terminals and 4 mm² conductors for 63A 4-pole and 5-pole, made up of 4-pole and 5-pole frame terminals, with connecting cables 10 mm² and terminals 2 x 35 mm² Product group 5072, type 40115 shown.
	32	4+5	40113	5	160	
	63	4	40114	5	635	
	63	5	40115	5	870	



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 6h	5-pole 6h	3-pole 9h	4-pole 9h	5-pole 9h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight
		Part numbers															Qty.	g/each



16	3	1177	1178														10	180
16	4		1267	1268						1269							10	220
16	5			1													10	230
32	3	1368	1369														10	290
32	4		1372	1373						1374							10	310
32	5			2													10	335



16	4	H 3030	3034	1418	3032	3035	3028	10	303
16	5	H 3041	3045	1419	3043	3046	3039	10	333
32	3	H 1420	1421	1422		3139	3134	10	355
32	4	H 1423	1424	1425	1426	1427	1428	10	370
32	5	H 1555	1556	1557	3152	3154	3149	10	424



63	3	1136	1137					10	825
63	4		1140	1141	1142			10	880
63	5			1145				10	925

Products with pilot contacts: Part no. + index **P**

H May be fitted with auxiliary contact.

Special terminals

(for 63A receptacles on page 24 to 27, product groups 1041 and 1049)



Special terminals 2 x 25 mm²

Special terminals 2 x 6 mm² for pilot contacts

Cable lug for special terminal no. 40096 and 2.5 mm² cord

Cable lug for 10 mm² cord

Part no. 40300

Part no. 40096

Part no. 40098

Part no. 40100

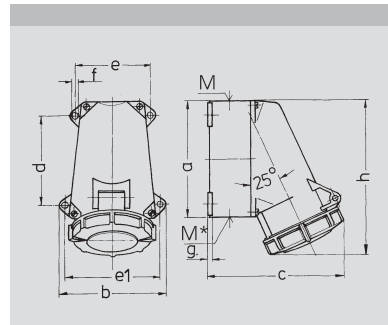
Product groups 5070 and 5071.

MENNEKES CEE receptacles and receptacles for through wiring, with screw terminal

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



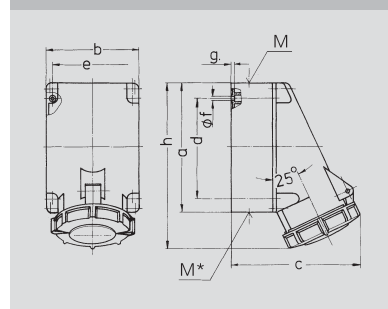
Drawing	Amp.	16			32		
1 MB 219	Poles	3	4	5	3	4	5
Dim. in mm	a	95	95	95	120	120	120
	b	102	102	102	112	112	112
	c	115	124	129	143	143	150
	d	64,2	64,2	64,2	90,2	90,2	90,2
	e	77,5	77,5	77,5	79	79	79
	e1	88	88	88	98,5	98,5	98,5
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	5	5	5	5	5	5
	h	128	128	132	160	160	160
	M	20	25	25	32	32	32
	M*	20	25	25	M 32 (blind)	M 32 (blind)	M 32 (blind)
Max. cable diam. (mm)		15	18	18	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

four external fixing, one cable entry at top and one blind entry (can be cut out) at bottom

IP 67

Product group 1049, type 1195 shown.



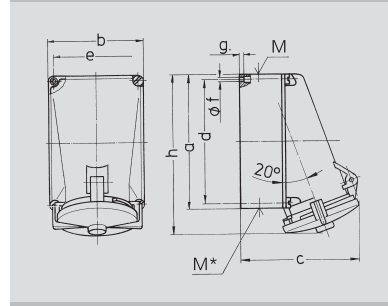
Drawing	Amp.	63		
1 MB 112	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	171	171	171
	d	134,5	134,5	134,5
	e	103	103	103
	f	6,1	6,1	6,1
	g	6	6	6
	h	216	216	216
	M	40	40	40
	M*	2x M 40	2x M 40	2x M 40
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25

Receptacles with SoftCONTACT

internal fixing, one cable entry at top and two blind entries (can be cut out) at bottom, enclosure base can be turned 180°, with 6 fixing points to accommodate special terminals (see page 25)

IP 67

Product group 1049, type 136 shown.

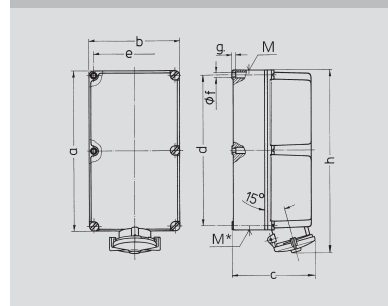


Drawing	Amp.	125	
1 MB 162	Poles	4	5
Dim. in mm	a	264	264
	b	163	163
	c	203	203
	d	240	240
	e	140	140
	f	8,1	8,1
	g	8	8
	h	313	313
	M	50	50
	M*	50	50
Max. cable diam. (mm)		38	38
Terminal for cond. cross section (mm²) min.-max.		25 —35	25 —35

Receptacles

IP 67

Product group 1050, type 143 shown.



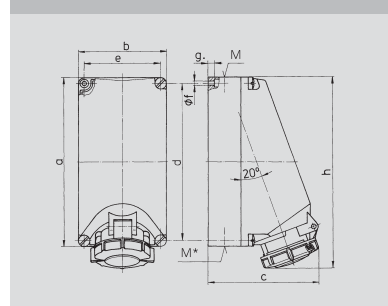
Drawing	Amp.	125	
1 MB 163	Poles	4	5
Dim. in mm	a	460	460
	b	260	260
	c	236	236
	d	434	434
	e	234	234
	f	11	11
	g	9	9
	h	525	525
	M	63	63
	M*	2x63	2x63
Max. cable diam. (mm)		44	44
Terminal for cond. cross section (mm²) min.-max.		25 —70	25 —70

Receptacles

with large space for accommodating wiring

IP 67

Product group 1051, type 2162 shown.



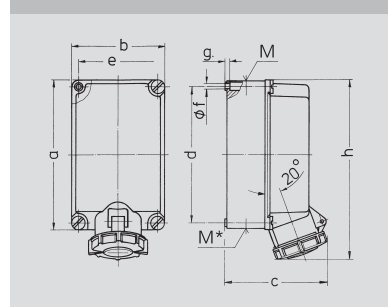
Drawing	Amp.	16			32		
1 MB 206	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	144	150	152	155	155	159
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	249	251	253	255	255	259
	M	1x25 and 1x32	1x25 and 1x32	1x25 and 1x32	1x25 and 1x32	1x25 and 1x32	1x25 and 1x32
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

for through wiring, with fixing points for terminal strip Part no. 40113 (see page 24)

IP 67

Product group 1052, type 5516 shown.



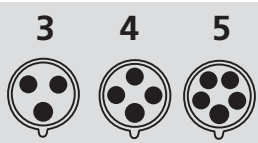
Drawing	Amp.	63		
1 MB 178	Poles	4	5	
Dim. in mm	a	264	264	
	b	163	163	
	c	193	193	
	d	240	240	
	e	140	140	
	f	8,1	8,1	
	g	8	8	
	h	334	334	
	M	2x40	2x40	
	M*	2x40	2x40	
Max. cable diam. (mm)		27	27	
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	

Receptacles with SoftCONTACT

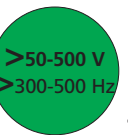
for through wiring, with fixing points for terminal strip Part no. 40114 or 40115 (see page 24)

IP 67

Product group 1052, type 5519 shown.



2p+E 3p+E 3p+N+E



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. P.	Weight	
Part numbers																					Qty.	g/each



16	3	H	1193	1192	1211																10	240
16	4	H	1194	1195	1196		1197							1212							10	270
16	5	H	1198	1199	1200																10	315
32	3	H	1201	1202	1203																10	380
32	4	H	1204	1205	1206		1207							1214							10	390
32	5	H	1208	1209	1210																10	450

H May be fitted with auxiliary contact.



63	3		856	128	129																5	865
63	4		130	131	132		133														5	920
63	5		134	135	136		2007														5	970

Products with pilot contacts: Part no. + index **P**



125	4		137	138	139		140														3	1910
125	5		141	142	143		2139														3	2020

Products with pilot contacts: Part no. + index **P**



125	5				2162																1	5370
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Products with pilot contacts: Part no. + index **P**



16	3			5757																	4	645
16	4			5755	5511		5512														4	715
16	5				5515																4	740
32	4				5756	5513		5514													4	770
32	5					5516															4	790



63	4				5707	5517		5518													3	1685
63	5					5519															3	1745

Products with pilot contacts: Part no. + index **P**

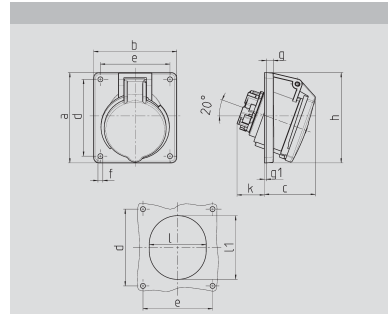
1

MENNEKES CEE panel mounted receptacles, screwless with TwinCONTACT

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



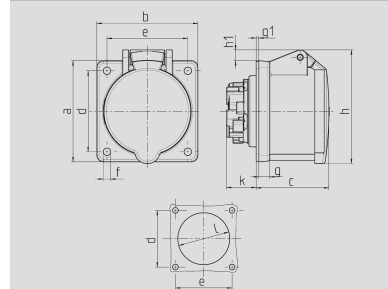
Drawing	Amp.	16			32		
1 MB 465	Poles	3	4	5			
Dim. in mm	a	73,5	100	100			100
	b	64	92	92			92
	c	52	58	58			60
	d	60	85	85			85
	e	52	77	77			77
	f	5,5	5,5	5,5			5,5
	g	7	8	8			8
	g1	2	2	2			2
	h	79	100	100			105
	k	31	31	31			31
	l	52	55	65			73
	l1	60	63	72			85
Terminal for cond. cross section (mm²) min.-max.		1,5 -4	1,5 -4	1,5 -4			2,5 -6

Panel mounted receptacles with TwinCONTACT

screwless spring terminals, suitable for through wiring, 20° inclination

▲ IP 44

Product group 1133, type 3473 shown.



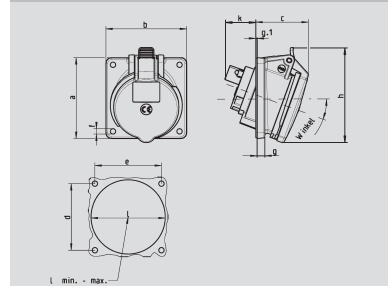
Drawing	Amp.	16			32		
1 MB 464	Poles	3	4	5			
Dim. in mm	a	75	75	75			75
	b	75	75	75			75
	c	53	53	54			64
	d	60	60	60			60
	e	60	60	60			60
	f	5,5	5,5	5,5			5,5
	g	8	8	8			8
	g1	2	2	2			2
	h	75	80	85			95
	h1		6	9			12
	k	22	22	22			38
	l	43	52	57			65
Terminal for cond. cross section (mm²) min.-max.		1,5 -4	1,5 -4	1,5 -4			2,5 -6

Panel mounted receptacles with TwinCONTACT

screwless spring terminals, suitable for through wiring, straight

▲ IP 44

Product group 1134, type 3385 shown.



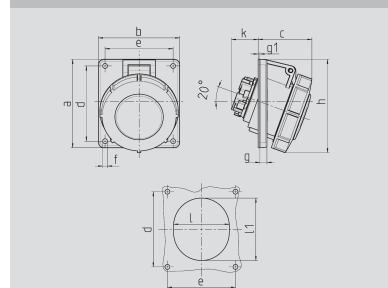
Drawing	Amp.	16			32		
1 MB 453	Poles	3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	53	57	57	67	67	67
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g1	2	2	2	2	2	2
	h	89	96	100	110	110	110
	k	39	34	33	39	39	39
	l min.	57	64	70	78	78	78
	l max.	76	76	76	78	78	78
Terminal for cond. cross section (mm²) min.-max.		1,5 -4	1,5 -4	1,5 -4	2,5 -6	2,5 -6	2,5 -6

Panel mounted receptacles with TwinCONTACT

screwless spring terminals, with standard flange dimensions flange: 85 x 85 mm fixing hole spacing: 70 x 70 mm 20° inclination

▲ IP 44

Product group 1148, type 3070 shown.



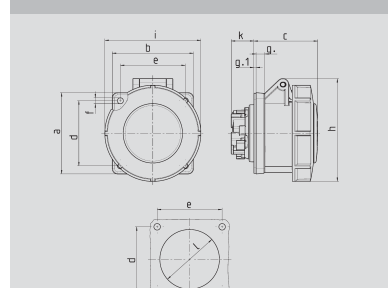
Drawing	Amp.	16			32		
1 MB 466	Poles	3	4	5			
Dim. in mm	a	73,5	100	100			100
	b	64	92	92			92
	c	52	60	62			66
	d	60	85	85			85
	e	52	77	77			77
	f	5,5	5,5	5,5			5,5
	g	7	8	8			8
	g1	2	2	2			2
	h	84	100	106			113
	k	31	31	31			31
	l	52	55	65			73
	l1	60	63	72			85
Terminal for cond. cross section (mm²) min.-max.		1,5 -4	1,5 -4	1,5 -4			2,5 -6

Panel mounted receptacles with TwinCONTACT

screwless spring terminals, suitable for through wiring, 20° inclination

● IP 67

Product group 1135, type 3485 shown.



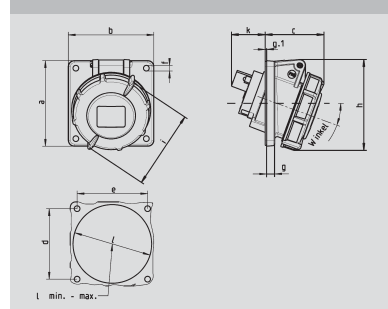
Drawing	Amp.	16			32		
1 MB 467	Poles	3	4	5			
Dim. in mm	a	75	75	75			85
	b	75	75	75			75
	c	60	61	61			72
	d	60	60	60			60
	e	60	60	60			60
	f	5,5	5,5	5,5			5,5
	g	8	8	8			8
	g1	2	2	2			2
	h	83	88	95			105
	i	78	85	96			110
	k	21	21	21			38
	l	43	52	54			65
Terminal for cond. cross section (mm²) min.-max.		1,5 -4	1,5 -4	1,5 -4			2,5 -6

Panel mounted receptacles with TwinCONTACT

screwless spring terminals, suitable for through wiring, straight

● IP 67

Product group 1136, type 1131 shown.



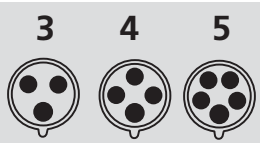
Drawing	Amp.	16			32		
1 MB 452	Poles	3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	57	59	60	72	72	72
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g1	2	2	2	2	2	2
	h	87	91	99	107	107	107
	i	75	81	86	102	102	102
	k	39	34	33	40	40	40
	l min.	57	64	70	78	78	78
	l max.	76	76	76	78	78	78
Terminal for cond. cross section (mm²) min.-max.		1,5 -4	1,5 -4	1,5 -4	2,5 -6	2,5 -6	2,5 -6

Panel mounted receptacles with TwinCONTACT

screwless spring terminals, with standard flange dimensions flange: 85 x 85 mm fixing hole spacing: 70 x 70 mm 20° inclination

● IP 67

Product group 1146, type 1173 shown.



2p+E 3p+E 3p+N+E

110 V
50 a. 60 Hz

230 V
50 a. 60 Hz

400 V
50 a. 60 Hz

500 V
50 a. 60 Hz

>50-500 V
100-300 Hz

>50-500 V
>300-500 Hz

Amp. Poles 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h 10h 10h 10h 2h 2h 2h

Part numbers

Qty. g/each

Std. Pack.

Weight

1



16	3	1631	1632	1633			1635	10	132
16	4	1636	1637	1638	1639	1640	1641	10	186
16	5	1642	1643	3473	1644		1646	10	197
32	3	H 1733*	1734*	1735*			1737*	10	
32	4	H 1738*	1739*	1740*	1741*	1742*	1743*	10	
32	5	H 1744	1745	1746	1747		1749*	10	

* under construction



16	3	1667	1668	1669			1671	10	136
16	4	1672	1673	1674	1675	1676	1677	10	152
16	5	1678	1679	3385	1680		1682	10	178
32	3	1786*	1787*	1788*				10	
32	4	1789*	1790*	1791*	1792*	1793*	1794*	10	
32	5	1795	1796	1797	1798		1800*	10	

* under construction



16	3	H 3004	3008					10	147
16	4	H		3048	3049			10	
16	5	H		3070				10	191
32	3	H 3124*	3126*					10	
32	4	H		3155*	3157*			10	
32	5	H		3171				10	210

* under construction



16	3	1700	1701	1702				10	143
16	4		1703	1704	1705	1706		10	199
16	5			3485				10	210
32	3	H 1801*	1802*	1803*				10	
32	4	H	1804*	1805*	1806*	1807*		10	
32	5	H		1808				10	

* under construction



16	3	1707	1708	1709				10	150
16	4	1710	1711	1712	1713	1714	1715	10	170
16	5	1716	1717	1131				10	206
32	3	1809*	1810*	1811*				10	
32	4	1812*	1813*	1814*	1815*	1816*	1817*	10	
32	5	1818	1819	1820				10	

* under construction



16	3	H 1158	1168					10	
16	4	H		1169	1171			10	
16	5	H		1173				10	140
32	3	H 3566*	3573*					10	
32	4	H		3581*	3587*			10	
32	5	H		3590				10	336

* under construction

H May be fitted with auxiliary contact.

MENNEKES CEE panel mounted receptacles, screwless, with TwinCONTACT

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.
Enclosure and insert made of **AMAPLAST**.
Other voltages and frequencies available on request.

Drawing	Amp.	16
1 MB 426	Poles	3
Dim. in mm	a	55
	b	55
	c	54
	d	45
	e	45
	f	5,5
	g	8
	g.1	2
	h	70
	h1	12
	k	28
	l	47
Terminal for cond. cross section (mm ²) min.-max.		1,5
		—4

Panel mounted receptacles with TwinCONTACT

screwless spring terminals,
suitable for through wiring,
straight,
small flange dimension

Product group 1147, type 1619 shown.

Drawing	Amp.	16
1 MB 259	Poles	3 4 5
Dim. in mm	a	62 72 72
	b	62 65 65
	c	54 54 54
	d	47 52 52
	e	47 52 52
	f	5,5 5,5 5,5
	g	8 8 8
	g.1	2 2 2
	h	68 77 85
	h1	7 7 11
	k	28 28 28
	l	50 52 57
Terminal for cond. cross section (mm ²) min.-max.		1,5 1,5 1,5
		—4 —4 —4

Panel mounted receptacles with TwinCONTACT

screwless spring terminals,
suitable for through wiring,
straight,
small flange dimension

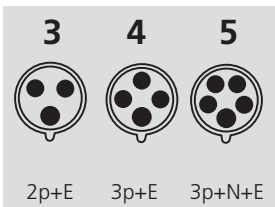
Product group 1147, type 1337 shown.

Drawing	Amp.	16
1 MB 147	Poles	4 5
Dim. in mm	a	87 87
	b	71 71
	c	46 46
	d	70 70
	d1	7,5 7,5
	e	52 52
	f	5,1 5,1
	g	6 6
	g.1	2 2
	h	92 92
	k	39 39
	l	64 64
	l1	80 80
Terminal for cond. cross section (mm ²) min.-max.		1,5 1,5
		—4 —4

Panel mounted receptacles with TwinCONTACT

screwless spring terminals,
suitable for through wiring,
20° inclination

Product group 1145, type 154 shown.



110 V
50 a. 60 Hz

230 V
50 a. 60 Hz

400 V
50 a. 60 Hz

500 V
50 a. 60 Hz

>50-500 V
100-300 Hz

>50-500 V
>300-500 Hz

Amp.

Poles

3-pole 4-pole 5-pole
4h 4h 4h

3-pole 4-pole 5-pole
6h 9h 9h

3-pole 4-pole 5-pole
9h 6h 6h

3-pole 4-pole 5-pole
7h 7h 7h

3-pole 4-pole 5-pole
10h 10h 10h

3-pole 4-pole 5-pole
2h 2h 2h

Std. Pack.

Weight

Part numbers

Qty.

g/each

16 3 1618

1619

10

120



16 3 1337

1350

1351

1403

1404

10

127

16 4

1352

1353

1403

1404

10

148

16 5

1405

10

171



16 4

123

154

155

10

156

16 5

156

10

185

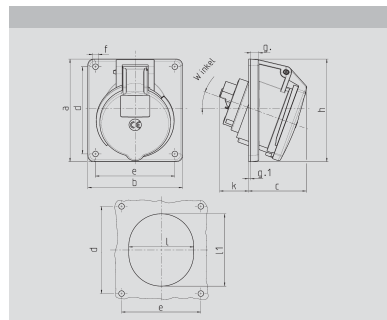


MENNEKES CEE panel mounted receptacles, with screw terminal

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

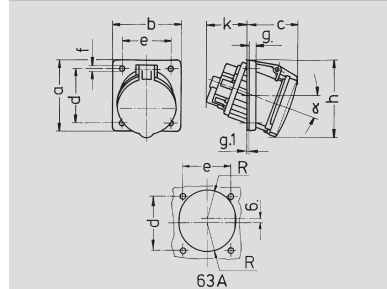


Drawing 1 MB 260	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	73,5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	58	58	62	62	62
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	7	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	79	100	100	103	103	107
	k	43	32	32	53	53	45
	l	52	55	65	67	67	72
	l1	60	63	72	82	82	85
	α	20°	20°	20°	20°	20°	20°
	Terminal for cond. cross section (mm²) min.-max.	1,5 -4	1,5 -4	1,5 -4	2,5 -10	2,5 -10	2,5 -10

Panel mounted receptacles 20° inclination



Product group 1044, type 1463 shown.

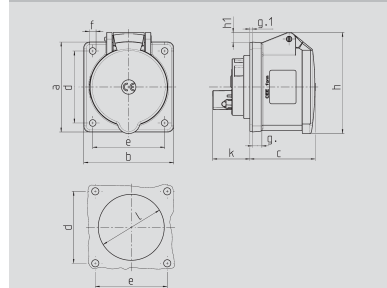


Drawing 1 MB 297	Amp. Poles	63		
		3	4	5
Dim. in mm	a	110	110	110
	b	106	106	106
	c	85	85	85
	d	85	85	85
	e	77	77	77
	f	6,2	6,2	6,2
	g	12	12	12
	g.1	2	2	2
	h	122	122	122
	k	69	69	69
	R	46	46	46
	α	20°	20°	20°
	Terminal for cond. cross section (mm²) min.-max.	6 -25	6 -25	6 -25

Panel mounted receptacles with SoftCONTACT 20° inclination



Product group 1044, type 1155 shown.



Drawing 1 MB 247	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	55	64	64	65
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	75	80	85	89	89	95
	h1	6	6	9	11	11	12
	k	31	32	32	39	39	39
	l	43	52	54	58	58	62
	Terminal for cond. cross section (mm²) min.-max.	1,5 -4	1,5 -4	1,5 -4	2,5 -10	2,5 -10	2,5 -10

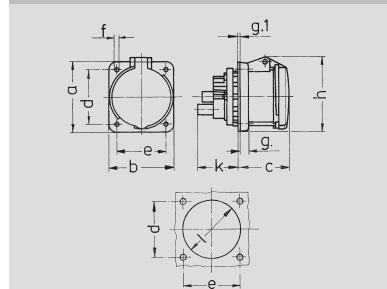
Panel mounted receptacles straight, flange: 75 x 75 mm, fixing hole spacing: 60 x 60 mm



Product group 1056, type 1385 shown.

Blind flange

to close unused openings, see chapter 11 (SCHUKO®)

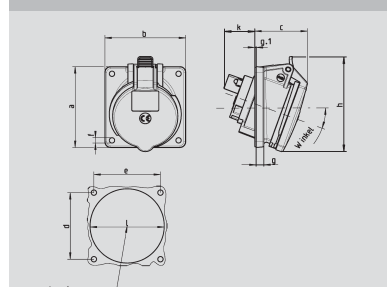


Drawing 1 MB 211	Amp. Poles	63		
		3	4	5
Dim. in mm	a	107	107	107
	b	100	100	100
	c	80	80	80
	d	85	85	85
	e	77	77	77
	f	6	6	6
	g	12	12	12
	g.1	2	2	2
	h	113	113	113
	k	55	55	55
	l	88	88	88
	Terminal for cond. cross section (mm²) min.-max.	6 -25	6 -25	6 -25

Panel mounted receptacles SoftCONTACT straight



Product group 1056, type 1252 shown.



Drawing 1 MB 453	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	53	57	57	67	67	67
	d	70	70	70	70	70	70
	e	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	89	96	100	110	110	110
	k	39	34	33	39	39	39
	l min.	57	64	70	78	78	78
	l max.	76	76	76	78	78	78
	Terminal for cond. cross section (mm²) min.-max.	1,5 -4	1,5 -4	1,5 -4	2,5 -6	2,5 -6	2,5 -6

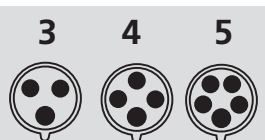
Panel mounted receptacles with standard flange dimensions flange: 85 x 85 mm fixing hole spacing: 70 x 70 mm 20° inclination



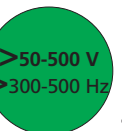
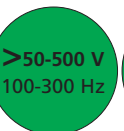
Product group 1018, type 3093 shown.

Auxiliary contact

For standard receptacles and panel mounted receptacles 16A and 32A of product groups 1018, 1019, 1041, 1044, 1048, 1049, 1132 and 1141.
Function: Change-over contact = NC/NO
Connected load: 16A (4A)* / ~ 250V
10A (3A)* / ~ 400V
* for inductive or motor load



2p+E 3p+E 3p+N+E



Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	1462	1463	1464		3186	3187	10	132
16	4	1465	1466	1467	1468	1469	1470	10	186
16	5	1471	1472	1473	3188	3189	3190	10	197
32	3	H 1491	1492	1493		3201	3202	10	250
32	4	H 1494	1495	1496	1497	1486	1487	10	260
32	5	H 1498	1499	1500	3191	3192	3193	10	270



63	3	1146	1147					5	485
63	4		1150	1151	1152			5	570
63	5			1155				5	655

Products with pilot contacts: Part no. + index **P**



16	3	1365	1366	1367		3054	3055	10	136
16	4	1388	1389	1390	1391	1392	1393	10	152
16	5	1384	1386	1385	3057	3059	3060	10	178
32	3	1394	1395	1396				10	203
32	4	1397	1398	1399	1400	1401	1402	10	217
32	5	3449	3454	3451	3452	3455	3447	10	225



63	3	1260	1261					5	614
63	4		1247	1248	1249			5	669
63	5			1252				5	726

Products with pilot contacts: Part no. + index **P**



16	3	H 3031	3036					10	147
16	4	H		3072	3074			10	
16	5	H		3093				10	191
32	3	H 3110	3112					10	220
32	4	H		3136	3114			10	
32	5	H		3153				10	310



Part no. 41000

10

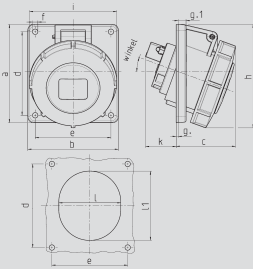
H May be fitted with auxiliary contact.

MENNEKES CEE panel mounted receptacles, with screw terminal

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

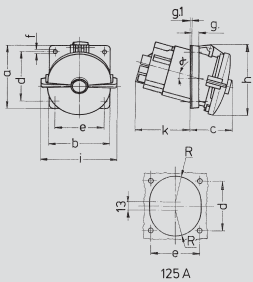


Drawing	Amp.	16			32		
1 MB 251	Poles	3	4	5	3	4	5
Dim. in mm	a	73,5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	60	62	64	64	66
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g ₁	2	2	2	2	2	2
	h	84	100	105	109	109	113
	i	78	85	96	103	103	110
	k	43	32	32	53	53	45
	l	52	55	65	67	67	72
	l ₁	60	63	72	82	82	85
	α	20°	20°	20°	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		1,5 - 4	1,5 - 4	1,5 - 4	2,5 - 10	2,5 - 10	2,5 - 10

Panel mounted receptacles 20° inclination

☼ IP 67

Product group 1048, type 1551 shown.



Drawing	Amp.	63			125		
1 MB 298	Poles	3	4	5	3	4	5
1 MB 339	Poles	3	4	5	3	4	5
Dim. in mm	a	110	110	110	114	114	114
	b	106	106	106	110	110	110
	c	85	85	85	85	85	85
	d	85	85	85	90	90	90
	e	77	77	77	90	90	90
	f	6,2	6,2	6,2	6,2	6,2	6,2
	g	12	12	12	13	13	13
	g ₁	2	2	2	2	2	2
	h	125	125	125	135	135	135
	i	117	117	117	135	135	135
	k	69	69	69	103	103	103
	R	46	46	46	47	47	47
	α	20°	20°	20°	15°	15°	15°
Terminal for cond. cross section (mm²) min.-max.		6 - 25	6 - 25	6 - 25	25 - 70	25 - 70	25 - 70

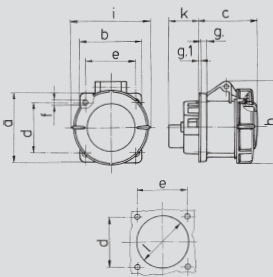
Panel mounted receptacles SoftCONTACT *)

20° inclination for 63A,
15° inclination for 125A

*) 63A: with **SoftCONTACT**
125A: with **TorsionSpringCONTACT**

☼ IP 67

Product group 1048, type 209 shown.

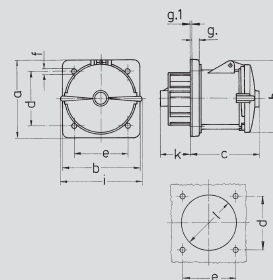


Drawing	Amp.	16			32		
1 MB 141	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	70	70	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g ₁	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	26	27	27	34	34	34
	l	50	54	57	62	62	65
Terminal for cond. cross section (mm²) min.-max.		1,5 - 4	1,5 - 4	1,5 - 4	2,5 - 10	2,5 - 10	2,5 - 10

Panel mounted receptacles straight

☼ IP 67

Product group 1046, type 228 shown.



Drawing	Amp.	63			125		
1 MB 212	Poles	3	4	5	3	4	5
1 MB 258	Poles	3	4	5	3	4	5
Dim. in mm	a	107	107	107	130	130	130
	b	100	100	100	130	130	130
	c	84	84	84	124	124	124
	d	85	85	85	104	104	104
	e	77	77	77	104	104	104
	f	6,5	6,5	6,5	6,5	6,5	6,5
	g	12	12	12	18	18	18
	g ₁	2	2	2	2	2	2
	h	113	113	113	122	122	122
	i	118	118	118	135	135	135
	k	55	55	55	43	43	43
	l	88	88	88	95	95	95
Terminal for cond. cross section (mm²) min.-max.		6 - 25	6 - 25	6 - 25	25 - 70	25 - 70	25 - 70

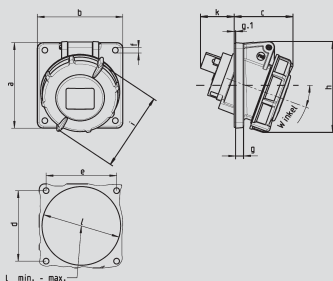
Panel mounted receptacles SoftCONTACT *)

straight

*) 63A: with **SoftCONTACT**
125A: with **TorsionSpringCONTACT**

☼ IP 67

Product group 1046, type 1128 shown.



Drawing	Amp.	16			32		
1 MB 452	Poles	3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	57	59	60	72	72	72
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g ₁	2	2	2	2	2	2
	h	87	91	99	107	107	107
	i	75	81	86,5	102	102	102
	k	39	34	33	40	40	40
	l min.	57	64	70	78	78	78
	l max.	76	76	76	78	78	78
Terminal for cond. cross section (mm²) min.-max.		1,5 - 4	1,5 - 4	1,5 - 4	2,5 - 6	2,5 - 6	2,5 - 6

Panel mounted receptacles with standard flange dimensions

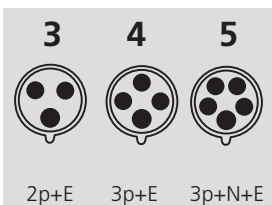
flange: 85 x 85 mm

fixing hole spacing: 70 x 70 mm

20° inclination

☼ IP 67

Product group 1019, type 1103 shown.



110 V
50 a. 60 Hz

230 V
50 a. 60 Hz

400 V
50 a. 60 Hz

500 V
50 a. 60 Hz

>50-500 V
100-300 Hz

>50-500 V
>300-500 Hz

Amp.	Poles	3-pole			4-pole			5-pole			3-pole			4-pole			5-pole			3-pole			4-pole			5-pole			Std. Pack	Weight
		4h	4h	4h	6h	9h	9h	9h	6h	6h	7h	7h	7h	10h	10h	10h	2h	2h	2h											
Part numbers																					Qty.	g/each								



16	3	1474	1475	1476																	10	143
16	4		1478	1479	1480									1481							10	199
16	5			1485																	10	210
32	3	H 1501	1502	1503																	10	260
32	4	H	1505	1506	1507									1567							10	280
32	5	H		1551																	10	315



63	3	2179	2180	2181																	5	520
63	4	203	204	205	206																5	615
63	5	207	208	209	3507																5	695
125	3		3575																		5	840
125	4	210	211	212	213																5	940
125	5	214	215	216																	5	1050

Products with pilot contacts: Part no. + index **P**



16	3	217	218	219																	10	150
16	4	220	221	222	223									224							10	170
16	5	226	227	228																	10	206
32	3	229	230	231																	10	236
32	4	232	233	234	235									236							10	245
32	5	238	239	240																	10	297



63	3	1263	1264	1265																	5	655
63	4	1122	1123	1124	1125																5	720
63	5	1126	1127	1128																	5	775
125	3		3380																		5	1070
125	4	1455	1456	1457	1458																5	1190
125	5	1459	1460	1461	3283																5	1310

Products with pilot contacts: Part no. + index **P**



16	3	H 903	905																		10	
16	4	H		1081	1082																10	
16	5	H		1103																	10	240
32	3	H 3197	3200																		10	
32	4	H		3254	3256																10	
32	5	H		3524																	10	336

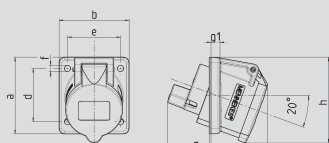
H May be fitted with auxiliary contact.

MENNEKES CEE panel mounted receptacles, with screw terminal

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



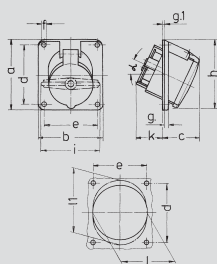
Drawing	Amp.	16
1 MB 472	Poles	3
Dim. in mm	a	68
	b	62
	c	52
	d	47
	e	47
	f	5,5
	g1	8
	g	1,5
	h	76
	k	37
Terminal for cond. cross section (mm²) min.-max.		1,5 —4

Panel mounted receptacles

20° inclination,
flange: 68 x 62 mm
fixing hole spacing: 47 x 47 mm



Product group 1032, type 857 shown.



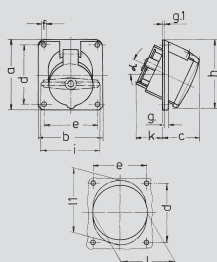
Drawing	Amp.	16	32	63
1 MB 235	Poles	5	5	5
Dim. in mm	a	110	110	110
	b	106	106	106
	c	48	51	85
	d	90	90	90
	e	90	90	90
	f	5,1	5,1	6,2
	g	6	6	12
	g1	2	2	2
	h	110	110	122
	i	—	—	—
	k	38	58	69
	l	78	87	92
	l1	—	—	98
	α	15°	15°	20°
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	2,5 —10	6 —25

Panel mounted receptacles with uniform flange dimensions and fixing hole spacing

63A: with **SoftCONTACT**
15° inclination for 16A and 32A
20° inclination for 63A



Product group 1044, type 20147 shown.



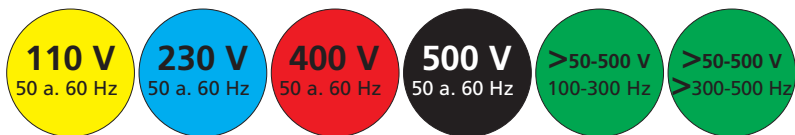
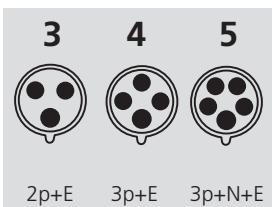
Drawing	Amp.	16	32	63	125
1 MB 235	Poles	5	5	5	5
Dim. in mm	a	110	110	110	114
	b	106	106	106	110
	c	48	51	85	85
	d	90	90	90	90
	e	90	90	90	90
	f	5,1	5,1	6,2	6,2
	g	6	6	12	13
	g1	2	2	2	2
	h	110	110	122	135
	i	—	—	—	135
	k	38	58	69	103
	l	78	87	92	94
	l1	—	—	98	107
	α	15°	15°	20°	15°
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	2,5 —10	6 —25	25 —70

Panel mounted receptacles with uniform flange dimensions and fixing hole spacing

15° inclination for 16A, 32A and 125A
20° inclination for 63A
63A: with **SoftCONTACT**
125A: with **TorsionSpringCONTACT**



Product group 1053, type 20148 shown.



Amp.	Poles	Part numbers	Qty.	Weight
16	3	858 857	5	132



16	5	20146	10	223
32	5	20147	10	291
63	5	21160	5	695



63A receptacles with pilot contacts: part no. + index **P**

16	5	3333	10	
32	5	3334	10	
63	5	20148	5	695
125	5	216	5	1050



63A and 125A receptacles with pilot contacts: part no. + index **P**

MENNEKES CEE panel mounted receptacles RAPIDO

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

Technical drawing of a 16A, 3-pole panel mounted receptacle. The drawing includes three views: a front view showing a circular face with a diameter of 61 mm, a side view showing a height of 87 mm and a width of 69 mm, and a detail view of the terminal block showing a width of 57 mm and a height of 30 mm. The terminal block is labeled 'TWINCONTACT'.

Drawing	Amp.	16
1 MB 468	Poles	3
Dim. in mm	a	69
	b	57
	c max.	55
	k	30
	h	87
	l	61
	l1	33,25
	t	2-9
Terminal for cond. cross section (mm²) min.-max.		1,5 —4

Panel mounted receptacles RAPIDO with TwinCONTACT
screwless spring terminals, suitable for through wiring, for wall apertures **61 mm diameter**, central fixing

⚠ IP 44

Product group 1154, type 997 shown.

Technical drawing of a 16A, 4-pole and 32A, 5-pole panel mounted receptacle. The drawing includes three views: a front view showing a circular face with a diameter of 70 mm, a side view showing a height of 102 mm and a width of 81 mm, and a detail view of the terminal block showing a width of 66 mm and a height of 33 mm. The terminal block is labeled 'TWINCONTACT'.

Drawing	Amp.	16	32
1 MB 468	Poles	4	5
Dim. in mm	a	81	81
	b	66	69
	c max.	58	55
	k	33	33
	h	100	102
	l	70	70
	l1	37,75	37,75
	t	2-9	2-9
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	2,5 —10

Panel mounted receptacles RAPIDO with TwinCONTACT
screwless spring terminals, suitable for through wiring, for wall apertures **70 mm diameter**, central fixing

⚠ IP 44

Product group 1154, type 907 shown.

Technical drawing of a 16A, 3-pole panel mounted receptacle with screw terminals. The drawing includes three views: a front view showing a circular face with a diameter of 61 mm, a side view showing a height of 87 mm and a width of 69 mm, and a detail view of the terminal block showing a width of 55 mm and a height of 30 mm. The terminal block is labeled 'TWINCONTACT'.

Drawing	Amp.	16
1 MB 468	Poles	3
Dim. in mm	a	69
	b	57
	c max.	55
	k	30
	h	87
	l	61
	l1	33,25
	t	2-9
Terminal for cond. cross section (mm²) min.-max.		1,5 —4

Panel mounted receptacles RAPIDO
screw terminals, for wall apertures **61 mm diameter**, central fixing

⚠ IP 44

Product group 1157, type 966 shown.

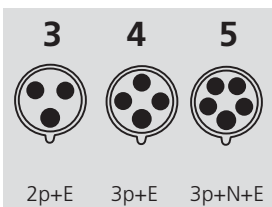
Technical drawing of a 16A, 4-pole and 32A, 5-pole panel mounted receptacle with screw terminals. The drawing includes three views: a front view showing a circular face with a diameter of 70 mm, a side view showing a height of 102 mm and a width of 81 mm, and a detail view of the terminal block showing a width of 66 mm and a height of 33 mm. The terminal block is labeled 'TWINCONTACT'.

Drawing	Amp.	16	32
1 MB 468	Poles	4	5
Dim. in mm	a	81	81
	b	66	69
	c max.	58	55
	k	33	33
	h	100	102
	l	70	70
	l1	37,75	37,75
	t	2-9	2-9
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	2,5 —10

Panel mounted receptacles RAPIDO
screw terminals, for wall apertures **70 mm diameter**, central fixing

⚠ IP 44

Product group 1157, type 969 shown.



110 V
50 a. 60 Hz

230 V
50 a. 60 Hz

400 V
50 a. 60 Hz

500 V
50 a. 60 Hz

>50-500 V
100-300 Hz

>50-500 V
>300-500 Hz

Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight
Part numbers																				Qty.	g/each



16	3	1132					997								10							
															10						156	
															10							



16	4					1133		998		1134					10							
16	5							907							10							
32	3	1135*					987*								10							
32	4					1166*		988*		1167*					10						262	
32	5							989							10						284	

* under construction



16	3	964					966								10							
16	4							990							10						156	
16	5							985							10							



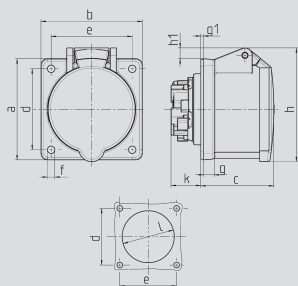
16	4					908		968		917					10							
16	5							969							10							
32	3	918					995								10							
32	4						929	999		930					10							
32	5							976							10						284	

MENNEKES CEE panel mounted receptacles for cable ducts and flush mounted installation boxes, flanges

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



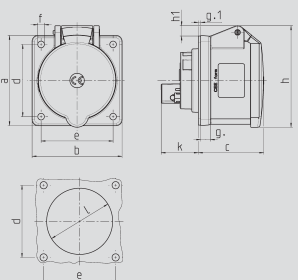
Drawing 1 MB 464	Amp. Poles	16			32	
		3	4	5		5
Dim. in mm	a	75	75	75		75
	b	75	75	75		75
	c	53	53	54		64
	d	60	60	60		60
	e	60	60	60		60
	f	5,5	5,5	5,5		5,5
	g	8	8	8		8
	g1	2	2	2		2
	h	75	80	85		95
	h1		6	9		12
	k	22	22	22		38
	l	43	52	57		65
Terminal for cond. cross section (mm²) min.-max.		1,5 -4	1,5 -4	1,5 -4		2,5 -6

Panel mounted receptacles with TwinCONTACT

screwless spring terminals, suitable for through wiring, straight, flange: 75 x 75 mm, fixing hole spacing: 60 x 60 mm



Product group 1134, type 3385 shown.



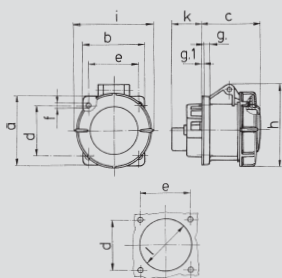
Drawing 1 MB 360	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	55	64	64	64
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g1	2	2	2	2	2	2
	h	75	80	85	89	89	95
	h1		6	9	11	11	12
	k	31	32	32	39	39	17
	l	43	52	54	58	58	54
Terminal for cond. cross section (mm²) min.-max.		1,5 -4	1,5 -4	1,5 -4	2,5 -10	2,5 -10	2,5 -10

Panel mounted receptacles with screw terminals

straight, flange: 75 x 75 mm, fixing hole spacing: 60 x 60 mm



Product group 1056, type 1276 shown.



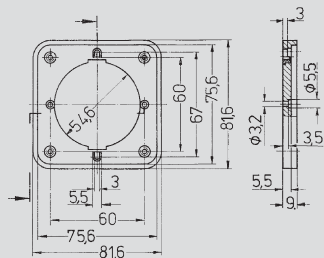
Drawing 1 MB 141	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	70	70	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	26	27	27	34	34	34
	l	50	54	57	62	62	65
Terminal for cond. cross section (mm²) min.-max.		1,5 -4	1,5 -4	1,5 -4	2,5 -10	2,5 -10	2,5 -10

Panel mounted receptacles with TwinCONTACT

screwless spring terminals, suitable for through wiring, straight, flange: 75 x 75 mm, fixing hole spacing: 60 x 60 mm



Product group 1136 type 1131 shown.



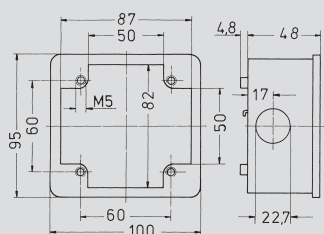
Drawing
1 MB 227
Dim. in mm



Flange

for panel mounted receptacles 16A, 3-, 4- and 5-pole of product groups 1046, 1056, 1136 and 1134 as well as 32A, 5-pole of product group 1056 to be attached to cable ducts

Part no. 40102



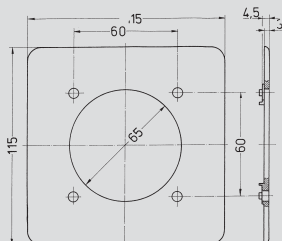
Drawing
1 MB 232
Dim. in mm



Flush mounted installation box

with accessories, suitable together with the appropriate flange for mounting a 16A or 32A panel mounted receptacle of product groups 1046, 1056, 1136 and 1134

Part no. 40369



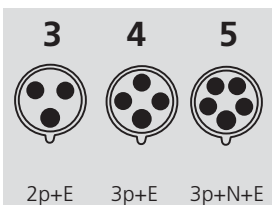
Drawing
1 MB 233
Dim. in mm



Flange

with a gasket for fitting a 16A or 32A panel mounted receptacle of product groups 1046, 1056, 1136 and 1134 on a flush mounted installation box part no. 40369

Part no. 41340



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 6h	5-pole 6h	3-pole 9h	4-pole 9h	5-pole 9h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight
		Part numbers																		Qty.	g/each
16	3	1667																		10	136
16	4	1672																		10	152
16	5	1678																		10	178





32	3	1394																		10	200
32	4	1397																		10	217
32	5	1274																		10	225

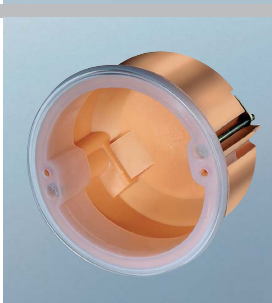


16	3	1707																		10	150
16	4	1710																		10	170
16	5	1716																		10	206



Panel mounted receptacles from 16A, 3, 4 and 5 pole to 32A, 5 pole, IP44 as well as 16A, 3, 4 and 5 pole to 16A, 5 pole, IP67 with uniform flange dimensions of 75 x 75 mm and uniform fixing hole spacing of 60 x 60 mm. Using flange 40102 on the left, these are suitable for installation on cable ducts and in cavity wall or concrete installation boxes.

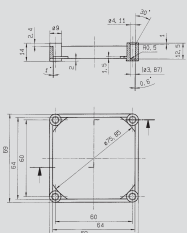
See also page 42/43.



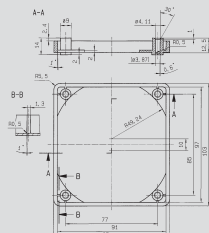
The ideal combination:
Cepex receptacles
installed in cavity wall or concrete installation boxes
(only 16A, 3 to 5 pole and SCHUKO®)

Cavity wall installation box on the left, concrete installation box on the right (made by Kaiser)

MB 19267 for 16A/32A



MB 19272 for 63A



Flanges for swift and safe fastening

of panel mounted receptacles 16A and 32A, product groups 1046, 1056, 1136 and 1134











Part no. 19267000

a. panel mounted receptacles 63A, product groups 1046, 1056,

Part no. 19272000

MENNEKES CEE panel mounted receptacles for cable ducts of various duct manufacturers

Detailed product description you will find on pages 40/41 and 48/49.






		MENNEKES Cepex panel mounted receptacles colour: pearl white IP 44				MENNEKES panel mounted receptacles TwinCONTACT with screwless spring terminals, Flange 75 x 75 mm, fixing hole spacing 60 x 60 mm, IP 44				MENNEKES panel mounted receptacles with screw terminals Flange 75 x 75 mm, fixing hole spacing 60 x 60 mm, IP 44				MENNEKES panel mounted receptacles TwinCONTACT with screwless spring terminals, Flange 75 x 75 mm, fixing hole spacing 60 x 60 mm, IP 67			
Cable duct built-in boxes																	
brand	Flange	A	P	230V	400V	A	P	230V	400V	A	P	230V	400V	A	P	230V	400V
Hager-Tehalit																	
built-in box no. L 5819 	frames of Tehalit (2)	16	3	4112		16	3	1668	1669	16	3	1366	1367	16	3	1708	1709
		16	4	4233	4113	16	4	1673	1674	16	4	1389	1390	16	4	1711	1712
		16	5		4115	16	5	1679	3385	16	5	1386	1385	16	5	1717	1131
		32	3	4117						32	3	1395	1396				
		32	4	4256	4118					32	4	1398	1399				
		32	5		4120					32	5	1275	1276				
All panel mounted receptacles with flange 75 x 75 mm can be installed without any additional MENNEKES masking frame with a frame of Tehalit. (1) Panel mounted receptacles with flange, 32A, 3+4 p, can fit, but due to the protruding earth contact please install with care. (2) Cepex receptacles 32A can be mounted with Tehalit frame hole Ø 76 mm, fixing hole spacing 70 x 70 mm. Only Cepex receptacles 32A have to be mounted with one or two Cepex spacer frames. Fixing screws 4 x 50 mm are necessary, if you use Cepex spacer frames for mounting.																	
Rehau																	
built-in box no. 268591-100 	frames of Rehau with fixing hole spacing 60 x 60 (2) / fixing hole spacing 70 x 70 (1)	16	3	4112		16	3	1668	1669	16	3	1366	1367	16	3	1708	1709
		16	4	4233	4113	16	4	1673	1674	16	4	1389	1390	16	4	1711	1712
		16	5		4115	16	5	1679	3385	16	5	1386	1385	16	5	1717	1131
		32	3	4117						32	3	1395	1396				
		32	4	4256	4118					32	4	1398	1399				
		32	5		4120	32	5		1797	32	5	1275	1276				
For the installation of CEE receptacles Rehau offers one built-in box only. Rehau offers a frame and a flange for the mounting of various receptacles. (1) Cepex receptacles 16A, 3p to 32A, 5p can be installed with flange size 70 x 70 mm only. (2) Panel mounted receptacles with flange size 75 x 75 mm and fixing hole spacing 60 x 60 mm have to be installed with a frame of 60 x 60 mm fixing hole spacing.																	
Niedax																	
built-in box no. GDHR 50 (1) 	MENNEKES 40102 or Niedax masking frame (1)					16	3	1668	1669	16	3	1366	1367	16	3	1708	1709
						16	4	1673	1674	16	4	1389	1390	16	4	1711	1712
						16	5	1679	3385	16	5	1386	1385	16	5	1717	1131
										32	5	1275	1276				
built-in box no. KEDB 80 (2) 	MENNEKES 40102	(1) GDHR 50: Installation of panel mounted receptacles with flange, 32A, 5p, is recommended with Niedax masking frame with 4-point-fixing only. (2) KEDB 80: Do not install panel mounted receptacles with flange, 32A, as the stability is not sufficient for 32A receptacles. The built-in box GDHR 50 and KEDB 80 cannot be used for the installation of Cepex receptacles.															
Niedax																	
built-in box no. GDI 60/70 (1) (2) 	frames of Niedax	16	3	4112		16	3	1668	1669	16	3	1366	1367	16	3	1708	1709
		16	4	4233	4113	16	4	1673	1674	16	4	1389	1390	16	4	1711	1712
		16	5		4115	16	5	1679	3385	16	5	1386	1385	16	5	1717	1131
										32	3	1395	1396				
built-in box no. CED 80 (1) (2) 	frames of Niedax									32	4	1398	1399				
										32	5	1275	1276				
		(1) Suitable for panel mounted receptacles with flange, 32A, 5p. (2) Panel mounted receptacles with flange, 32A, 3p + 4p, can fit, but due to the protruding earth contact please install with care. The built-in box GDI 60/70 and CED 80 cannot be used for the installation of Cepex receptacles.															

MENNEKES CEE panel mounted receptacles for cable ducts of various duct manufacturers

Detailed product description you will find on pages 40/41 and 48/49.

1

Cable duct built-in boxes

brand	Flange	A	P	230V	400V	A	P	230V	400V	A	P	230V	400V	A	P	230V	400V																	
OBO-Bettermann																																		
built-in box no. 2390 / 8 T 	MENNEKES 40102 ⁽¹⁾	16	3	4112		16	3	1668	1669	16	3	1366	1367	16	3	1708	1709																	
																			16	4	1673	1674	16	4	1389	1390	16	4	1711	1712				
																					1679	3385			1386	1385			1717	1131				
																									32	3 ⁽²⁾			1395	1396				
																									32	4 ⁽²⁾			1398	1399				
		32	5	1275	1276																													
built-in box no. GED / 2 CEE with flange ⁽³⁾ 		⁽¹⁾ 2390 / 8T:	All panel mounted receptacles with flange 75 x 75 mm have to be installed with MENNEKES frame 40102 (page 40).																															
			⁽²⁾ 2390 / 8T:	Not suitable for panel mounted receptacles with flange, 32A, 3p + 4p.																														
			⁽³⁾ GED / 2 CEE:	All panel mounted receptacles 16A and 32A with flange 75 x 75 mm have to be installed with OBO-frame.																														
GGK-Kunststoffwerke																																		
built-in box no. 1261 blue GED 50 ⁽¹⁾ 	Flange 1263	16	3	4112		16	3	1668	1669	16	3	1366	1367	16	3	1708	1709																	
																			16	4 ⁽¹⁾	4233	4113	16	4	1673	1674	16	4	1389	1390	16	4	1711	1712
																					1679	3385			1386	1385			1717	1131				
																									32	3 ⁽³⁾			1395	1396				
																									32	4 ⁽³⁾			1398	1399				
		32	5 ⁽³⁾	1275	1276																													
built-in box no. 1268 black GDS 50 ^{(2) (3)} 	Flange 1263	⁽¹⁾ GED 50:	Cepex receptacles 4p have to be installed with care to ensure a perfect plug-in of the plug.																															
			⁽²⁾ GDS 50:	The built-in box is not suitable for the mounting of Cepex receptacles.																														
			⁽³⁾ GDS 50:	Panel mounted receptacles with flange, 32A, 5p, can fit, but there is limited wiring space. Panel mounted receptacles with flange, 32A, 3p + 4p, are not suitable due to the protruding earth contact.																														
		For all panel mounted receptacles with flange 75 x 75 mm, the flange 1263 of GGK is necessary.																																
van Geel																																		
built-in box no. type 121 	MENNEKES 40102	16	3	4112		16	3	1668	1669	16	3	1366	1367	16	3	1708	1709																	
																			16	4	1673	1674	16	4	1389	1390	16	4	1711	1712				
																					1679	3385			1386	1385			1717	1131				
												32	5 ⁽¹⁾	1275	1276																			
		⁽¹⁾ The installation of panel mounted receptacles with flange, 32A, 5p, can only be recommended with exceptions. The stability is not suitable for 32A receptacles.																																
		All panel mounted receptacles with flange 75 x 75 mm have to be mounted with MENNEKES frame 40102 (page 40). The wiring space of the built-in receptacle Type 121 is for CEE receptacles limited.																																

Cepex panel mounted receptacles in silver, alpine white and grey
or with labelling field, with labelling field and safety lock, as well as SCHUKO®-versions see catalogue pages 48 to 55 and 58/59.

Screwless panel mounted receptacles TwinCONTACT
with spring terminals offer even more wiring space and are suitable for through-wiring.



■ Cepex receptacles.

Perfect in every detail. One fits another.



Part no. 41404.

A universal concept.

The modular Cepex system is based on the flush mounted installation box 41404 for Cepex receptacles 16A and 32A and Cepex SCHUKO® receptacles.

Cepex receptacles may be used universally.

16A, 3 pole, 230V • 16A, 5 pole, 400V • 32A, 5 pole, 400V.

All complete with flush mounted installation box.



Anything goes.

Covers, current rating and colours may be optionally combined: neutral cover, with labelling field, with labelling field and lock, 3 pole, 5 pole and SCHUKO®.



Resistant to ball rebound.

All Cexep receptacles with neutral covers meet DIN 18032 standards for ball rebound and are suitable for use in sports facilities and comparable environments.



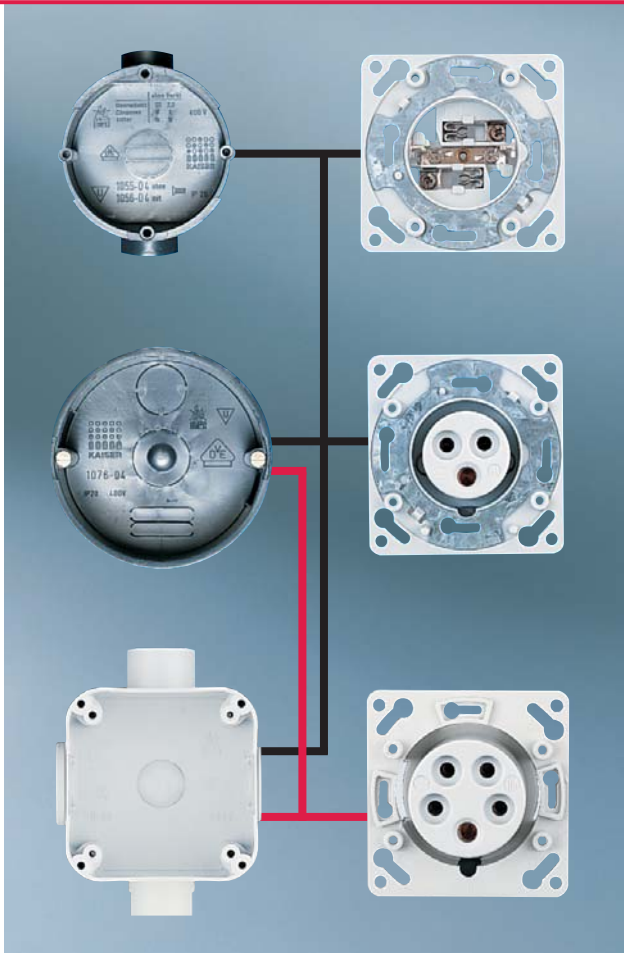
An ideal combination: Cepex receptacles 16A, 3 to 5 pole, can be installed in cavity wall or concrete installation boxes (made by Kaiser) with a fixing dimension of 67 mm.



In silver, alpine white, pearl white and grey, the Cepex range matches common colours of various ducts and installation devices.

Single and double - a safe solution.

1



Fitting the new on the old is no problem.

Cepex is flexible. Existing installations can be easily retrofitted. For example to replace Perilex in 70 mm flush mounted installation boxes. CEE receptacles, 3 pole, 230V can be used instead of SCHUKO® receptacles in 60 mm flush mounted installation boxes.



A frequently chosen receptacle combination: 16A CEE and SCHUKO® 16A. When used with only one supply cable, a 3 pole MCB is essential.



Cepex wall mounted receptacles.

Generous wiring space for supply cable up to 6 mm². Back box can be rotated by 180°, thus cable insertion is possible from bottom without additional work. Protection type IP 44 (Solid body larger and splash waterproof) for versatile conception.



Cepex data port receptacles and fibre optics technology in Cepex receptacles.

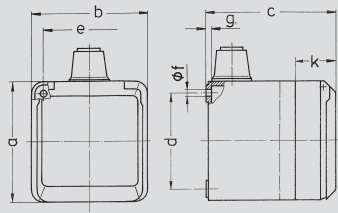
See chapter 6.

MENNEKES Cepex receptacles and Cepex double receptacles

to DIN VDE 0623, EN 60309-2 and DIN 49440, colour: grey (RAL 7035).

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



Drawing	Amp.	16			32		
1 MB 312	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	87	87	87	99	99	99
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	4,2	4,2	4,2	4,2	4,2	4,2
	k	33	33	33	33	33	33
Max. cable diam. (mm)		18	18	18	18	18	18
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5	2,5 2,5 2,5		—6 —6 —6		

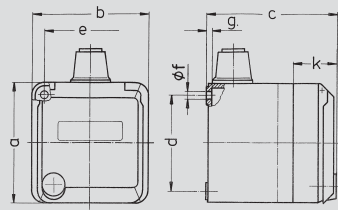
Cepex receptacles, grey

one cable entry at top with M 25 stub, three M 25 blind entries, one M 20 blind entry (can be cut out) for cables from 7 to 13 mm Ø

Meeting DIN 18032 standards for ball rebound.

▲ IP 44, ⚡

Product group 1025, type 4105 shown.



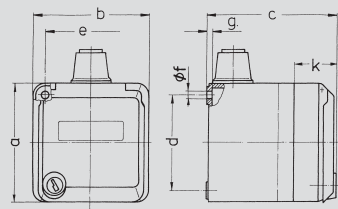
Drawing	Amp.	16			32		
1 MB 317	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	88	88	88	100	100	100
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	4,2	4,2	4,2	4,2	4,2	4,2
	k	34	34	34	34	34	34
Max. cable diam. (mm)		18	18	18	18	18	18
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5	2,5 2,5 2,5		—6 —6 —6		

Cepex receptacles, grey

with labelling field, one cable entry at top with M 25 stub, three M 25 blind entries, one M 20 blind entry (can be cut out) for cables from 7 to 13 mm Ø

▲ IP 44

Product group 1025, type 4135 shown.



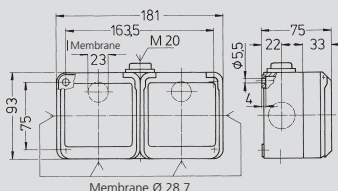
Drawing	Amp.	16			32		
1 MB 313	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	90	90	90	102	102	102
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	4,2	4,2	4,2	4,2	4,2	4,2
	k	36	36	36	36	36	36
Max. cable diam. (mm)		18	18	18	18	18	18
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5	2,5 2,5 2,5		—6 —6 —6		

Cepex receptacles, grey

with labelling field, lockable, with safety lock, two keys, cannot be dismantled when locked, one cable entry at top with M 25 stub, three M 25 blind entries, one M 20 blind entry (can be cut out) for cables from 7 to 13 mm Ø

▲ IP 44

Product group 1025, type 4165 shown.



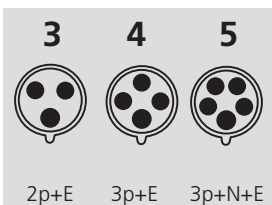
Drawing	Amp.	16		
1 MB 350	Poles	3	4	5
Dim. in mm				
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5		
		—4 —4 —4		

Cepex double receptacles, grey

one cable entry at top with M 20 stub, four M 25 blind entries, two M 20 blind entries (can be cut out) for cables from 7 to 13 mm Ø

▲ IP 44

Product group 1027, type 4202 shown.



Amp. Poles 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	4101	4102			5	284
16	4		4254	4103	4104	5	295
16	5			4105		5	302
32	3	4106	4107			5	334
32	4			4108		5	344
32	5			4110		5	354



16	3		4132			5	286
16	4			4133		5	297
16	5			4135		5	304
32	3		4137			5	336
32	4			4138		5	346
32	5			4140		5	356



16	3		4162			5	316
16	4			4163		5	327
16	5			4165		5	334
32	3		4167			5	366
32	4			4168		5	376
32	5			4170		5	386

On request with identical locks.

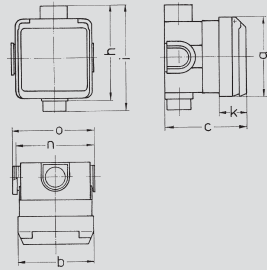


1.	1 CEE receptacle 16A, 5p, 6h, 400V 1 SCHUKO® receptacle 16A, 2p+A, 230V	Part no. 4202	5	470
2.	1 CEE receptacle 16A, 3p, 6h, 230V 1 SCHUKO® receptacle 16A, 2p+A, 230V	Part no. 4203	5	445
3.	2 CEE receptacles 16A, 5p, 6h, 400V	Part no. 4204	5	553
4.	2 CEE receptacles 16A, 4p, 9h, 230V	Part no. 4258	5	528
5.	2 CEE receptacles 32A, 4p, 9h, 230V	Part no. 4259	5	540
6.	2 CEE receptacles 16A, 3p, 6h, 230V	Part no. 4219	5	460

Other installation types on request.

MENNEKES Cepex flush mounted receptacles, panel mounted receptacles and flush mounted installation box

to DIN VDE 0623, EN 60309-2, colour: pearl white (RAL 1013),
Enclosure and insert made of **AMAPLAST**.
Other voltages and frequencies available on request.



Drawing 1 MB 336	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	95	95	95	95	95	95
	h	111	111	111	111	111	111
	i	124	124	124	124	124	124
	k	33	33	33	33	33	33
	n	91	91	91	91	91	91
	o	95	95	95	95	95	95
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

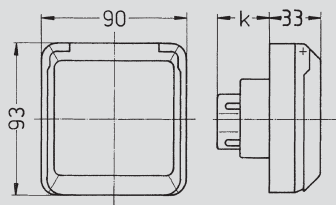
Cepex flush mounted receptacles, pearl white

with flush mounted installation box

Meeting DIN 18032 standards for ball rebound.



Product group 1026, type 4125 shown.



Drawing 1 MB 315	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
	Terminal for cond. cross section (mm²) min.-max.	1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

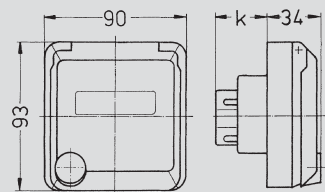
Cepex panel mounted receptacles, pearl white

also suitable for installation in cable ducts and columns

Meeting DIN 18032 standards for ball rebound.



Product group 1028, type 4115 shown.



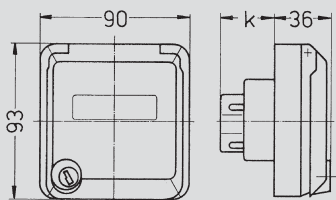
Drawing 1 MB 318	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
	Terminal for cond. cross section (mm²) min.-max.	1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

Cepex panel mounted receptacles, pearl white

with labelling field, also suitable for installation in cable ducts and columns



Product group 1028, type 4145 shown.



Drawing 1 MB 320	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
	Terminal for cond. cross section (mm²) min.-max.	1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

Cepex panel mounted receptacles, pearl white

with labelling field, lockable, with safety lock, two keys, cannot be dismantled when locked, also suitable for installation in cable ducts and columns

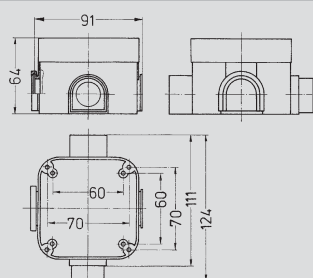


Product group 1028, type 4175 shown.

Please see also the modular Cepex system!

The frequent types of receptacles complete with flush mounted installation box can be found in column 1.

All other Cepex versions can be installed with the flush mounted installation box and the illustrated panel mounted receptacles as flush equipment.

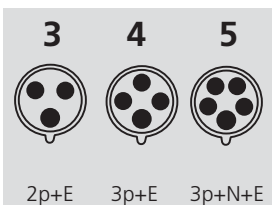


Drawing 1 MB 334
Dim. in mm

Flush mounted installation box

for Cepex CEE receptacles 16A and 32A and Cepex SCHUKO® receptacles

Product group 8236, type 41404 shown.



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight
		Part numbers																		Qty.	g/each



16	3																			5	227
16	5																			5	245
32	3																			5	316
32	5																			5	336



16	3	4111	4112																	5	171
16	4		4233	4113				4114												5	182
16	5			4115																5	189
32	3	4116	4117																	5	221
32	4							4118			4119									5	231
32	5							4120												5	241



16	3	4141	4142																	5	172
16	4			4143																5	183
16	5			4145																5	190
32	3	4146	4147																	5	222
32	4							4148												5	232
32	5							4150												5	242



16	3	4171	4172																	5	202
16	4			4173																5	213
16	5			4175																5	220
32	3		4177																	5	252
32	4			4178																5	262
32	5			4180																5	272

On request with identical locks.



Example: Cepex panel mounted receptacle 16A, 5-pole with labelling field **Part no. 4145**

+ flush mounted installation box **Part no. 41404**

= flush mounted receptacle



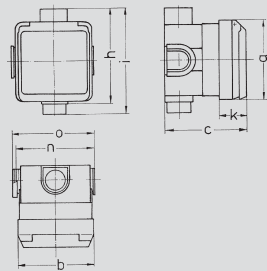
Part no. 41404	5	78
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MENNEKES Cepex flush mounted receptacles, panel mounted receptacles and flush mounted installation box

to DIN VDE 0623, EN 60309-2, colour: alpine white (RAL 9010).

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



Drawing 1 MB 336	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	95	95	95	95	95	95
	h	111	111	111	111	111	111
	i	124	124	124	124	124	124
	k	33	33	33	33	33	33
	n	91	91	91	91	91	91
	o	95	95	95	95	95	95
	Terminal for cond. cross section (mm²) min.-max.	1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

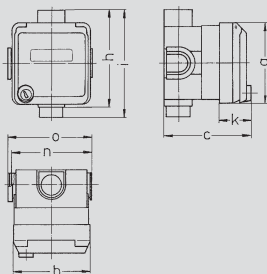
Cepex flush mounted receptacles, alpine white

with flush mounted installation box

Meeting DIN 18032 standards for ball rebound.



Product group 1026, type 4244 shown.



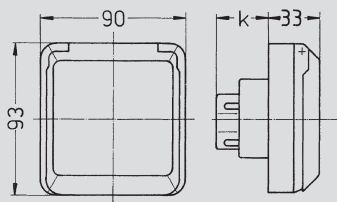
Drawing 1 MB 352	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	98	98	98	98	98	98
	h	111	111	111	111	111	111
	i	124	124	124	124	124	124
	k	36	36	36	36	36	36
	n	91	91	91	91	91	91
	o	95	95	95	95	95	95
	Terminal for cond. cross section (mm²) min.-max.	1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

Cepex panel mounted receptacles, alpine white

with labelling field, lockable, with safety lock, two keys, cannot be dismantled when locked, with flush mounted installation box



Product group 1026, type 4246 shown.



Drawing 1 MB 315	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
	Terminal for cond. cross section (mm²) min.-max.	1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

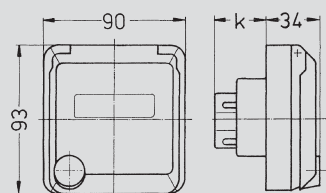
Cepex panel mounted receptacles, alpine white

suitable for installation in cable ducts and columns

Meeting DIN 18032 standards for ball rebound.



Product group 1028, type 4262 shown.



Drawing 1 MB 318	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
	Terminal for cond. cross section (mm²) min.-max.	1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

Cepex panel mounted receptacles, alpine white

with labelling field, suitable for installation in cable ducts and columns

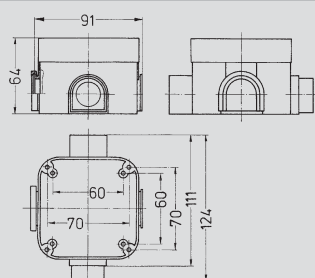


Product group 1028, type 4247 shown.

Please see also the modular Cepex system!

The frequent types of receptacles complete with flush mounted installation box can be found in columns 1 and 2.

All other Cepex versions can be installed with the flush mounted installation box and the illustrated panel mounted receptacles as flush equipment.

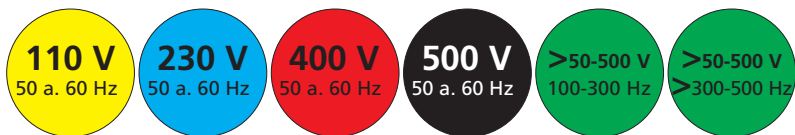
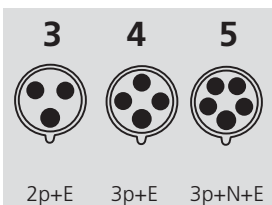


Drawing 1 MB 334
Dim. in mm

Flush mounted installation box

for Cepex CEE receptacles 16A and 32A and Cepex SCHUKO® receptacles

Product group 8236, type 41404 shown.



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight
		Part numbers																		Qty.	g/each

1



16	3	4243																		5	227
16	5		4244																	5	245
32	5		4245																	5	336



16	5		4246																	5	275
----	---	--	------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	-----

On request with identical locks.



16	5		4262																	5	189
32	5		4263																	5	241



16	3	4247																		5	172
16	4		4273																	5	183
16	5		4237																	5	190
32	3	4274																		5	222
32	4		4275																	5	232
32	5		4238																	5	242



Example: Cepex panel mounted receptacle 16A, 5-pole with labelling field **Part no. 4145**

+ flush mounted installation box **Part no. 41404**

= flush mounted receptacle



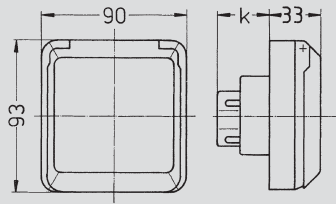
Part no. 41404																				5	78
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MENNEKES Cepex panel mounted receptacles and flush mounted installation box

to DIN VDE 0623, EN 60309-2, colour: grey (RAL 7035).

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



Drawing 1 MB 315	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

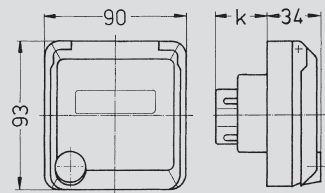
Cepex panel mounted receptacles, grey

suitable for installation in cable ducts and columns

Meeting DIN 18032 standards for ball rebound.

▲ IP 44, ⚡

Product group 1028, type 4211 shown.



Drawing 1 MB 318	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

Cepex panel mounted receptacles, grey

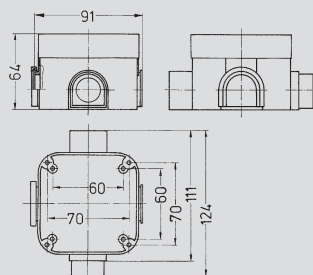
with labelling field, suitable for installation in cable ducts and columns

▲ IP 44

Product group 1028, type 4215 shown.

Please see also the modular Cepex system!

Using the flush mounted installation box and the illustrated panel mounted receptacles, various flush mounted arrangements can be realized.

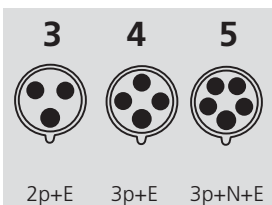


Drawing 1 MB 334
Dim. in mm

Flush mounted installation box

for Cepex CEE receptacles
16A and 32A and
Cepex SCHUKO® receptacles

Product group 8236, type 41404 shown.



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight
		Part numbers																		Qty.	g/each



16	3	4210																		5	171
16	5	4211																		5	189
32	5	4213																		5	241



16	3	4214																		5	172
16	5	4215																		5	190
32	5	4217																		5	242



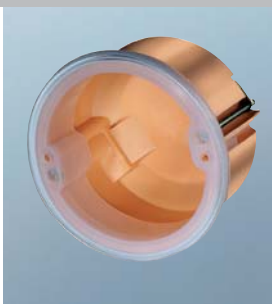
Example: Cepex panel mounted receptacle 16A, 5-pole with labelling field **Part no. 4145**

+ flush mounted installation box **Part no. 41404**

= flush mounted receptacle



Part no. 41404	5	78
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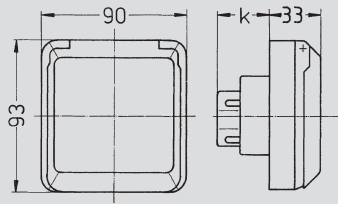


The ideal combination:
Cepex receptacles
installed in cavity wall or concrete installation boxes
(only 16A, 3- to 5-pole and SCHUKO®)

Cavity wall installation box on the left, concrete installation box on the right (made by Kaiser)

MENNEKES Cepex panel mounted receptacles and flush mounted installation box

to DIN VDE 0623, EN 60309-2, colour: silver (RAL 9006),
Enclosure and insert made of **AMAPLAST**.
Other voltages and frequencies available on request.



Drawing 1 MB 315	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

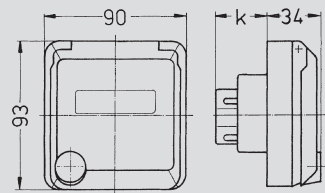
Cepex panel mounted receptacles, silver

suitable for installation in cable ducts and columns

Meeting DIN 18032 standards for ball rebound.

▲ IP 44, ⚡

Product group 1028, type 4279 shown.



Drawing 1 MB 318	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

Cepex panel mounted receptacles, silver

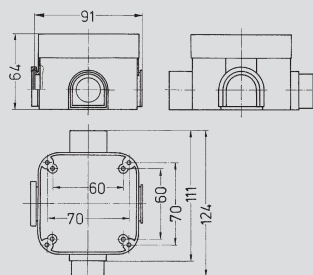
with labelling field, suitable for installation in cable ducts and columns

▲ IP 44

Product group 1028, type 4145ME shown.

Please see also the modular Cepex system!

Using the flush mounted installation box and the illustrated panel mounted receptacles, various flush mounted arrangements can be realized.

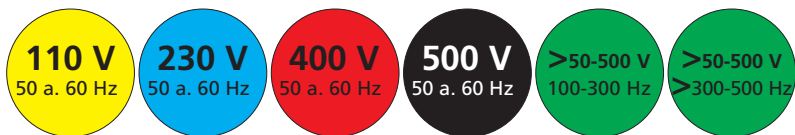
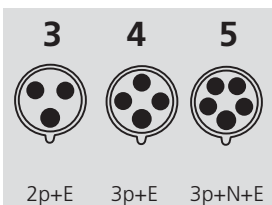


Drawing 1 MB 334
Dim. in mm

Flush mounted installation box

for Cepex CEE receptacles
16A and 32A and
Cepex SCHUKO® receptacles

Product group 8236, type 41404 shown.



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight
		Part numbers																		Qty.	g/each



16	3	4278																		5	171
16	5	4279																		5	189
32	5	4280																		5	241



16	5	4145ME																		5	190
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Example: Cepex panel mounted receptacle 16A, 5-pole with labelling field **Part no. 4145**

+ flush mounted installation box **Part no. 41404**

= flush mounted receptacle



Part no. 41404																				5	78
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1




MENNEKES Cepex SCHUKO® receptacles and double receptacles

to DIN 49440, colour: grey (RAL 7035).

Enclosure and insert made of **AMAPLAST**.

16A, 230V, 2-pole + E

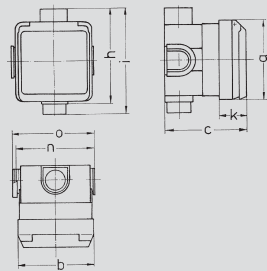
	<table> <tr> <th>Drawing</th><th>Amp.</th><th>16</th></tr> <tr> <td colspan="3">1 MB 312</td> </tr> <tr> <td>Dim. in mm</td><td>a</td><td>93</td></tr> <tr> <td></td><td>b</td><td>90</td></tr> <tr> <td></td><td>c</td><td>87</td></tr> <tr> <td></td><td>d</td><td>75</td></tr> <tr> <td></td><td>e</td><td>73</td></tr> <tr> <td></td><td>f</td><td>5,5</td></tr> <tr> <td></td><td>g</td><td>4,2</td></tr> <tr> <td></td><td>k</td><td>33</td></tr> <tr> <td>Max. cable diam. (mm)</td><td></td><td>18</td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>1,5 —4</td></tr> </table>	Drawing	Amp.	16	1 MB 312			Dim. in mm	a	93		b	90		c	87		d	75		e	73		f	5,5		g	4,2		k	33	Max. cable diam. (mm)		18	Terminal for cond. cross section (mm²) min.-max.		1,5 —4	<p>Cepex SCHUKO® receptacles, grey one cable entry at top with M 25 stub, three M 25 blind entries, one M 20 blind entry (can be cut out) for cables from 7 to 13 mm Ø</p> <p>Meeting DIN 18032 standards for ball rebound.</p> <p>⚠ IP 44, ⚡</p> <p>Product group 1025, type 4970 shown.</p>
Drawing	Amp.	16																																				
1 MB 312																																						
Dim. in mm	a	93																																				
	b	90																																				
	c	87																																				
	d	75																																				
	e	73																																				
	f	5,5																																				
	g	4,2																																				
	k	33																																				
Max. cable diam. (mm)		18																																				
Terminal for cond. cross section (mm²) min.-max.		1,5 —4																																				
	<table> <tr> <th>Drawing</th><th>Amp.</th><th>16</th></tr> <tr> <td colspan="3">1 MB 317</td> </tr> <tr> <td>Dim. in mm</td><td>a</td><td>93</td></tr> <tr> <td></td><td>b</td><td>90</td></tr> <tr> <td></td><td>c</td><td>88</td></tr> <tr> <td></td><td>d</td><td>75</td></tr> <tr> <td></td><td>e</td><td>73</td></tr> <tr> <td></td><td>f</td><td>5,5</td></tr> <tr> <td></td><td>g</td><td>4,2</td></tr> <tr> <td></td><td>k</td><td>34</td></tr> <tr> <td>Max. cable diam. (mm)</td><td></td><td>18</td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>1,5 —4</td></tr> </table>	Drawing	Amp.	16	1 MB 317			Dim. in mm	a	93		b	90		c	88		d	75		e	73		f	5,5		g	4,2		k	34	Max. cable diam. (mm)		18	Terminal for cond. cross section (mm²) min.-max.		1,5 —4	<p>Cepex SCHUKO® receptacles, grey with labelling field, one cable entry at top with M 25 stub, three M 25 blind entries, one M 20 blind entry (can be cut out) for cables from 7 to 13 mm Ø</p> <p>⚠ IP 44</p> <p>Product group 1025, type 4973 shown.</p>
Drawing	Amp.	16																																				
1 MB 317																																						
Dim. in mm	a	93																																				
	b	90																																				
	c	88																																				
	d	75																																				
	e	73																																				
	f	5,5																																				
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Max. cable diam. (mm)		18																																				
Terminal for cond. cross section (mm²) min.-max.		1,5 —4																																				
	<table> <tr> <th>Drawing</th><th>Amp.</th><th>16</th></tr> <tr> <td colspan="3">1 MB 313</td> </tr> <tr> <td>Dim. in mm</td><td>a</td><td>93</td></tr> <tr> <td></td><td>b</td><td>90</td></tr> <tr> <td></td><td>c</td><td>90</td></tr> <tr> <td></td><td>d</td><td>75</td></tr> <tr> <td></td><td>e</td><td>73</td></tr> <tr> <td></td><td>f</td><td>5,5</td></tr> <tr> <td></td><td>g</td><td>4,2</td></tr> <tr> <td></td><td>k</td><td>36</td></tr> <tr> <td>Max. cable diam. (mm)</td><td></td><td>18</td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>1,5 —4</td></tr> </table>	Drawing	Amp.	16	1 MB 313			Dim. in mm	a	93		b	90		c	90		d	75		e	73		f	5,5		g	4,2		k	36	Max. cable diam. (mm)		18	Terminal for cond. cross section (mm²) min.-max.		1,5 —4	<p>Cepex SCHUKO® receptacles, grey with labelling field, lockable, with safety lock, two keys, cannot be dismantled when locked, one cable entry at top with M 25 stub, three M 25 blind entries, one M 20 blind entry (can be cut out) for cables from 7 to 13 mm Ø</p> <p>⚠ IP 44</p> <p>Product group 1025, type 4976 shown.</p>
Drawing	Amp.	16																																				
1 MB 313																																						
Dim. in mm	a	93																																				
	b	90																																				
	c	90																																				
	d	75																																				
	e	73																																				
	f	5,5																																				
	g	4,2																																				
	k	36																																				
Max. cable diam. (mm)		18																																				
Terminal for cond. cross section (mm²) min.-max.		1,5 —4																																				
	<table> <tr> <th>Drawing</th><th>Amp.</th><th>16</th></tr> <tr> <td colspan="3">1 MB 350</td> </tr> <tr> <td>Dim. in mm</td><td></td><td></td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>1,5 —4</td></tr> </table>	Drawing	Amp.	16	1 MB 350			Dim. in mm			Terminal for cond. cross section (mm²) min.-max.		1,5 —4	<p>Cepex SCHUKO® double receptacles, grey one cable entry at top with M 20 stub, four M 25 blind entries, two M 20 blind entries (can be cut out) for cables from 7 to 13 mm Ø</p> <p>⚠ IP 44</p> <p>Product group 1027, type 4235 shown.</p>																								
Drawing	Amp.	16																																				
1 MB 350																																						
Dim. in mm																																						
Terminal for cond. cross section (mm²) min.-max.		1,5 —4																																				

		Colour	Amp.	Volts	Part numbers	Std. Pack. Qty.	Weight g/each
		grey	16	230	4970	5	252
		grey	16	230	4973	5	254
		grey	16	230	4976	5	284
		On request with identical locks.					
		grey	16	230	4235	5	430

MENNEKES Cepex SCHUKO® flush mounted receptacle, panel mounted receptacle and flush mounted installation box

to DIN VDE 49440, colours: pearl white (RAL 1013), alpine white (RAL 9010), grey (RAL 7035) or silver (RAL 9006).

Enclosure and insert made of **AMAPLAST**. 16A, 230V, 2-pole + E



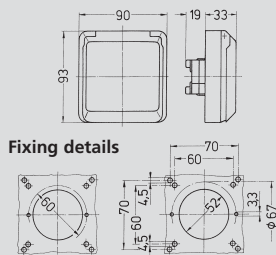
Drawing	Amp.	16
1 MB 336		
Dim. in mm	a	93
	b	90
	c	95
	h	111
	i	124
	k	33
	n	91
	o	95
Terminal for cond. cross section (mm²) min.-max.		1,5 —4

Cepex SCHUKO® flush mounted receptacles with flush mounted installation box

Meeting DIN 18032 standards for ball rebound.



Product group 1026, type 4972 shown.



Drawing 1 MB 304
Dim. in mm

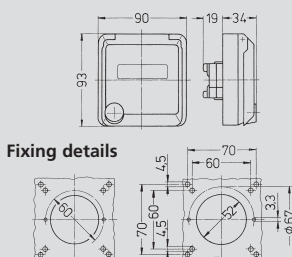
Cepex SCHUKO® panel mounted receptacles

suitable for installation in cable ducts and columns

Meeting DIN 18032 standards for ball rebound.



Product group 1028, type 4984 shown.



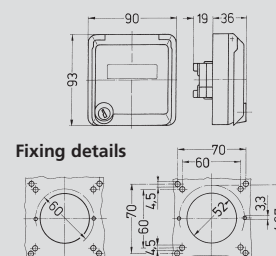
Drawing 1 MB 325
Dim. in mm

Cepex SCHUKO® panel mounted receptacles

with labelling field, suitable for installation in cable ducts and columns



Product group 1028, type 4974 shown.



Drawing 1 MB 305
Dim. in mm

Cepex SCHUKO® panel mounted receptacles

with labelling field, lockable, with safety lock, two keys, cannot be dismantled when locked, suitable for installation in cable ducts and columns

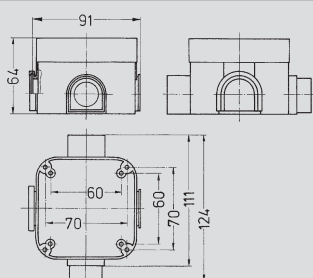


Product group 1028, type 4981 shown.

Please see also the modular Cepex system!

The frequent types of receptacles complete with flush mounted installation box can be found in column 1.

All other Cepex versions can be installed with the flush mounted installation box and the illustrated panel mounted receptacles as flush equipment.



Drawing 1 MB 334
Dim. in mm

Flush mounted installation box

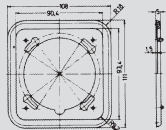
for Cepex CEE receptacles 16A and 32A and Cepex SCHUKO® receptacles

Product group 8236, type 41404 shown.

		Colour	Amp.	Volts	Part numbers	Std. Pack.	Weight
						Qty.	g/each
		white	16	230	4972	5	195
		white	16	230	4971	5	139
		alpine white	16	230	4979	5	139
		grey	16	230	4982	5	139
		silver	16	230	4984	5	139
		white	16	230	4974	5	140
		alpine white	16	230	4980	5	140
		silver	16	230	4974ME	5	140
		white	16	230	4977	5	170
		alpine white	16	230	4981	5	170
		Example: Cepex SCHUKO® panel mounted receptacle with labelling area				Part no. 4974	
		+ flush mounted installation box				Part no. 41404	
		= flush mounted receptacle					
		Part no. 41404				5	78

MENNEKES Cepex masking frames, spacer frames, protective

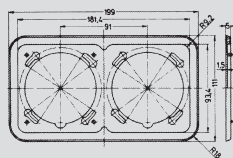
Colours: Pearl white (RAL 1013), alpine white (RAL 9010), grey (RAL 7035).



Drawing 1 MB 363
Dim. in mm

Cepex masking frames, single
matching all Cepex flush mounted and panel mounted 16A and 32A receptacles, for the installation of single appliances and for vertical combination of any number of receptacles

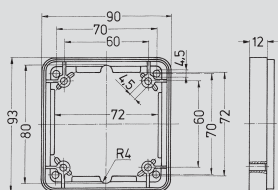
Product group 8234, type 41423 shown.



Drawing 1 MB 364
Dim. in mm

Cepex masking frames, double
matching all Cepex flush mounted and panel mounted 16A and 32A receptacles, for horizontal installation of two receptacles

Product group 8234, type 41424 shown.

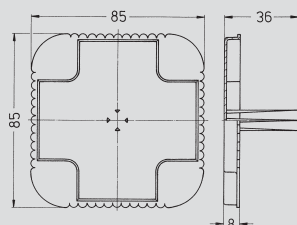
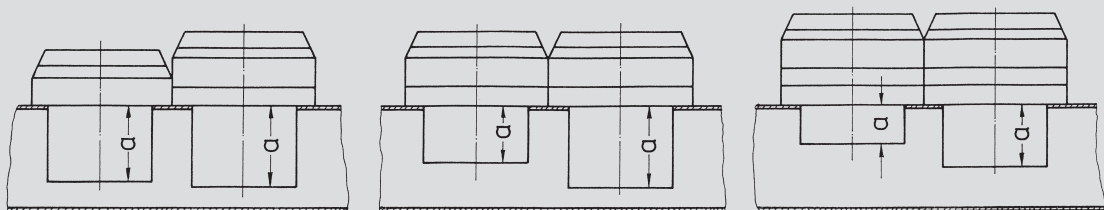


Drawing 1 MB 302
Dim. in mm

Spacer frames
to compensate for unequal heights, matching all Cepex SCHUKO® surface mounted receptacles as well as all Cepex CEE surface mounted 16A and 32A receptacles shown on the previous pages

Product group 8237, type 4191 shown.




Cepex CEE or SCHUKO® receptacles can be combined



Drawing 1 MB 353
Dim. in mm

Protective cover
For flush mounted installation box to protect fixing holes and the box from plaster and dirt until the receptacle is installed

Product group 8236, type 41414 shown.

		Colour		Std. Pack.	Weight
			Part numbers	Qty.	g/each
	white, single	41406	25	22	
	alpine white, single	41423	25	22	
	grey, single	41407	25	22	
	white, double	41408	25	37	
	alpine white, double	41424	25	37	
	grey, double	41409	25	37	
	white	4192	25	28	
	alpine white	4239	25	28	
	grey	4191	25	28	
Using one or more spacer frames type 4191/4192/4239 the recess depth for Cepex plugs and receptacles 16A and 32A can be adjusted to suit the available space.		Cepex receptacles can be installed even when the depth of the available recess is limited, e.g., in cable ducts, columns etc. The flange also permits the prominence of the units to be adjusted to match.		If necessary, Cepex SCHUKO® receptacles and 16A and 32A Cepex CEE receptacles can be installed with a uniform profile.	

1



Part no. 41414

upon request

8.5



■ CEE plugs, 16A to 125A

2

Plugs StarTOP®, 16A and 32A, IP 44

Page 66 and 67



Plugs ProTOP, Plugs AM-TOP®, 16A and 32A, IP 44

Page 66 and 67



Angled plugs, 16A and 32A, IP 44

Page 66 and 67



Plugs PowerTOP, highly heat resistant contact carriers, nickel-plated contacts, 63A, IP 44

Page 66 and 67



Plugs AM-TOP®, 16A and 32A, IP 67

Plugs PowerTOP, highly heat resistant contact carriers, nickel-plated contacts, 63A and 125A, IP 67

Page 68 and 69



Panel mounted inlets RAPIDO with central locking system, 16A and 32A, IP 44

Page 74 and 75



Inlets, 16A to 125A, IP 44 and IP 67

Page 70 to 77



Phase inverter plugs, 16A and 32A, IP 44 and IP 67

Page 78 to 81



Phase sequence test plugs, 16A to 63A, IP 44

Page 82 and 83

■ Plugs 16A to 125A

StarTOP®. Quick. Safe. Tight.

A high degree of safety.

In one operation, the insulation is cut, the contact is safely established and the wire is firmly held in place.



Under cover.

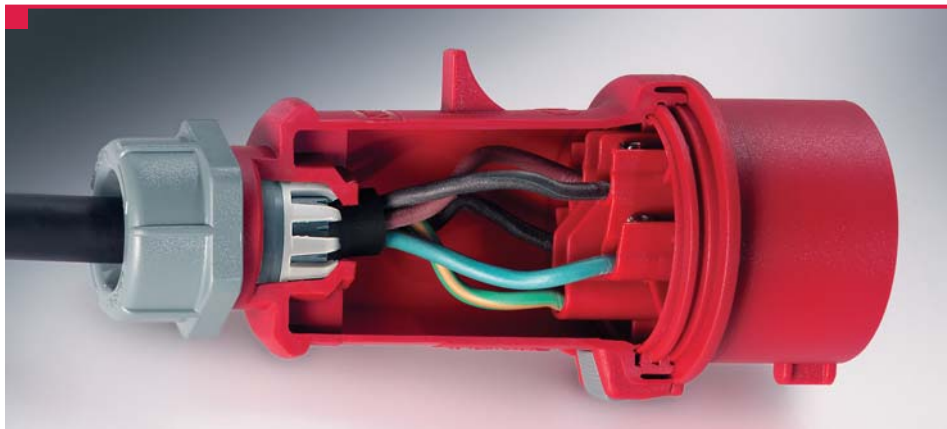
A stable lock ensures permanent safety.



SafeCONTACT
by MENNEKES.



ProTOP. With standard connection technology.



Many handy features, e.g., the self-locating thread for tight and stable connection of cover and front part. Cable grip and seal in one single operation by locking the cable gland.



Ingeniously toothed.

The additional teeth on the locking ring audibly lock as the ring is tightened, thereby providing a protection against automatic release.

PowerTOP. Maximum safety under major loads.



Nickel-plated contacts for enhanced corrosion protection in aggressive and humid environments. Highly heat resistant contact carriers. Reliable frame terminals make for operational safety even without ferrules on the wires. Optimized, slim design for more convenient inserting and withdrawing. There's nothing better.

RAPIDO. Installed in no time at all.



The all-rounder without a flange, for swift installation without fixing holes and screws. For containers, portable distributors and many more applications. Installation diameter of 61 mm for wall thicknesses from 2 to 5 mm or 70 mm for wall thicknesses from 2 to 9 mm.

VarioTOP angled plug.
Ergonomic.
Practical.
Safe.



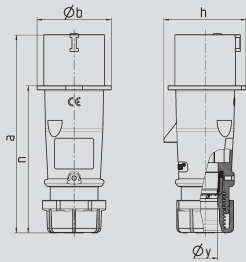
The first CEE angled plug with cable entry rotating up to 60° to the left or to the right.

MENNEKES CEE plugs

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



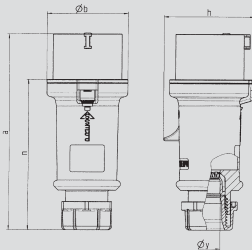
Drawing 2 MB 217	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	142	147	147	186	186	180
	b	53	59	67	70	70	77
	h	59	69,4	76	81	81	89,5
	n	105,2	110,5	110,5	141	141	135
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Plugs AM-TOP®

single part body,
screw terminals,
cable gland and sealing



Product group 2141, type 3 shown.



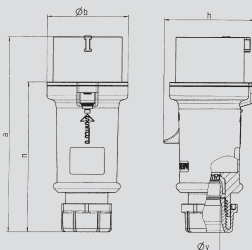
Drawing 2 MB 214	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	148	160	160	197	197	197
	b	55	65,6	65,6	75	75	75
	h	61	72,5	72,5	80,5	80,5	85
	n	112	123,5	123,5	152	152	152
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Plugs ProTOP

with screw terminals,
cable gland and sealing,
strain relief and protection against
kinking, enclosure with
thread lock and safety slide



Product group 2197, type 13 shown.



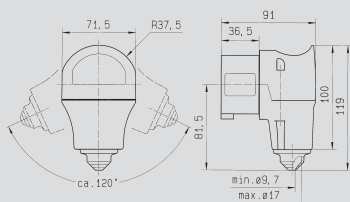
Drawing 2 MB 214	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	148	160	160	197	197	197
	b	55	65,6	65,6	75	75	75
	h	61	72,5	72,5	80,5	80,5	85
	n	112	123,5	123,5	152	152	152
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Plugs StarTOP® with SafeCONTACT

screwless, with insulation displacing
technique, cable gland and sealing,
strain relief and protection against
kinking, enclosure with thread lock
and safety slide



Product group 2101, type 33 shown.



Drawing 2 MB 208
Dim. in mm

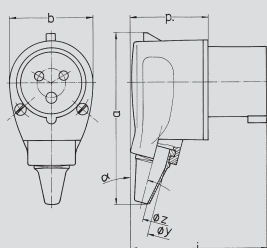
Angled plugs VarioTOP

with grommet,
cable entry hood in colour code red
or in electric grey

**The first CEE angled plug with
a cable entry that can be rotated
60° to the right or left.**



Product group 2139, type 3980 shown.



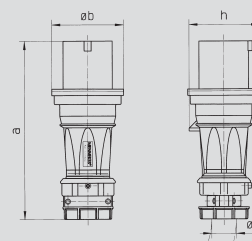
2 MB 69 2 MB 45	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	107	129	—	96	96	101
	b	53	58	—	72	72	72
	h	—	—	—	—	—	115
	i	85	71	—	115	115	—
	o	—	—	—	—	—	70
	p	49	35	—	70	70	—
	y	17,5	17,5	—	22	22	22
	z	7	7	—	11	11	11
	α	15°	—	—	8°	8°	—
	Terminal for cond. cross section (mm²) min.-max.	1	1	—	2,5	2,5	2,5
		—2,5	—2,5	—	—6	—6	—6

Angled plugs

with grommet



Product group 2039, type 1411 shown.



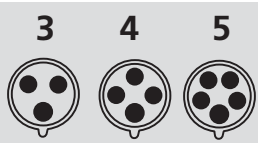
Drawing 2 MB 210/2	Amp. Poles	63		
		3	4	5
Dim. in mm	a	246	246	246
	b	100,5	100,5	100,5
	h	98,7	98,7	98,7
	y	36	36	36
	z	6	6	6
Terminal for cond. cross section (mm²) min.-max.		—16	—16	—16

Plugs PowerTOP

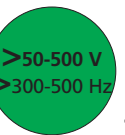
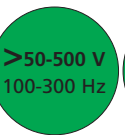
with highly heat resistant
contact carrier, frame terminals
and nickel-plated contacts,
gland and external cable grip



Product group 2015, type 1235 shown.



2p+E 3p+E 3p+N+E



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight
Part numbers																				Qty.	g/each



16	3	247	248	249										2168	2271	10	113
16	4	250	251	252				253						254	255	10	146
16	5	256	257	3				2014						2189	2243	10	166
32	3	259	260	261										2195	2341	10	208
32	4	262	263	264				265						266	267	10	222
32	5	268	269	4				2015						2244	2178	10	252



16	3	147	148	149												10	107
16	4		151	152				153								10	123
16	5			13												10	181
32	3	159	160													10	140
32	4		163	164				165								10	270
32	5			14												10	295



16	3	947	948													10	148
16	4		951	952				953						954		10	187
16	5			33												10	204
32	5			34												10	340



16	5		3981	3980	(colour code)											10	185
16	5		3983	3982	(electric grey)											10	185



16	3	1410	1411													10	115
16	4		891	315												10	150
32	3		3306													10	252
32	4		3646	3987												10	255
32	5			3266												10	258

Especially suited for use with receptacles of the Cepex range.



63	3	1226	1227													5	535
63	4		1230	1231				1232								5	650
63	5			1235												5	710

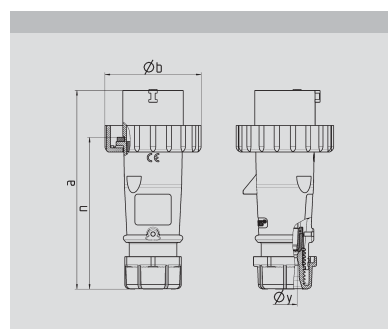
Additional types in 63A see PowerTOP IP 67 water-tight plugs, product group 2016 on the following page.

MENNEKES CEE plugs

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



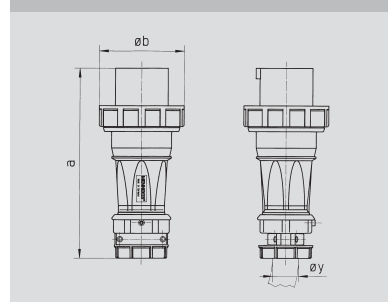
Drawing 2 MB 218	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	142	144	147	186	186	180
	b	70	78	87	94	94	101
	n	109	111	114	145	145	138
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Plugs AM-TOP®

single part body,
screw terminals,
cable gland and sealing

IP 67

Product group 2149, type 300 shown.



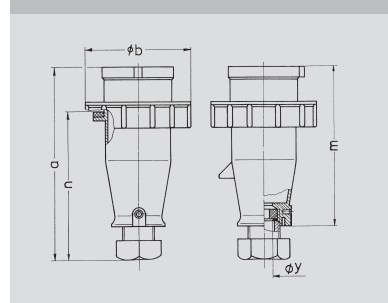
Drawing 2 MB 207/2	Amp. Poles	63			125		
		3	4	5	3	4	5
Dim. in mm	a	246	246	246	293	293	293
	b	114	114	114	131	131	131
	y	36	36	36	50	50	50
		6	6	6	25	25	25
Terminal for cond. cross section (mm²) min.-max.		—16	—16	—16	—50	—50	—50

Plugs PowerTOP

with highly heat resistant
contact carrier, frame terminals
and nickel-plated contacts,
gland and external cable grip

IP 67

Product group 2016, type 1114 shown.



Drawing 2 MB 28	Amp. Poles	63	
		4	5
Dim. in mm	a	254	254
	b	113	113
	m	—	—
	n	191	191
Terminal for cond. cross section (mm²) min.-max.	y	30,5	30,5
		4	4
		—10	—10

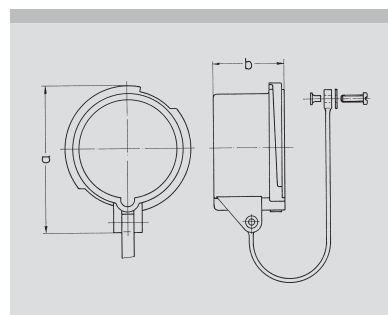
Plugs economy range

with screw terminals,
single part body

IP 67

Product group 2049, type 307 shown.

Protective covers, Cleanset and Plug guard



Drawing 2 MB 146	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	70	79	86	91	91	99
	b	41	41	42	51	51	52

Drawing 2 MB 146	Amp. Poles	63			125		
		3	4	5	3	4	5
Dim. in mm	a	108	108	108	119	119	119
	b	73	73	73	79	79	79

Protective covers

for watertight plugs
for wall and panel mounted inlets

for IP 67

Product group 8276, type 40787 shown.



Cleanset

Care of the plugs is mainly focussed
on the plug pins and should begin
as soon as possible – preferably
before first use.

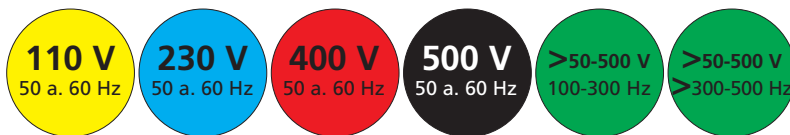
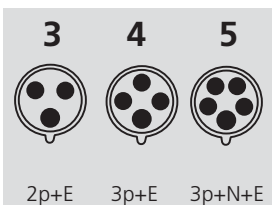
Cleanset

Part no. 10900

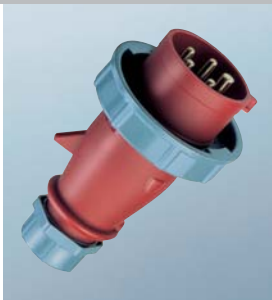
Spare oil spray can

Part no. 90502000

Product group 8300, type 10900 shown.



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight	
Part numbers																					Qty.	g/each



16	3	277	278	279																	10	133
16	4	280	281	282	283									284				285			10	165
16	5	286	287	288																	10	195
32	3	289	290	291																	10	230
32	4	292	293	294	295									296				297			10	245
32	5	298	299	300																	10	292



63	3	1570	1571	1572																	5	592
63	4	1108	1109	1110	1111																5	707
63	5	1112	1113	1114	2958																5	770
125	3	3399	3400																		5	1050
125	4	1441	1442	1443	1444																5	1170
125	5	1445	1446	1447	3173																5	1290



63	4			303																	5	634
63	5			307																	5	682

Plugs for use in corrosive environments and under harsh conditions in the AM-TOP and PowerTOP range
with highly heat resistant contact carrier and nickel-plated contacts, 16A and 32A, protection type IP 44 and IP 67, see chapter 10.



16	3	40784
16	4	40778
16	5 + 7	40785
32	3 + 4	40841
32	5 + 7	40786
63	3, 4 + 5	40787
125	3, 4 + 5	40788



Plug guard
Fits all CEE plugs, panel mounted and wall mounted inlets from 16A, 3-pole to 125A, 5-pole (not suitable for low voltage)

Part no. 41416

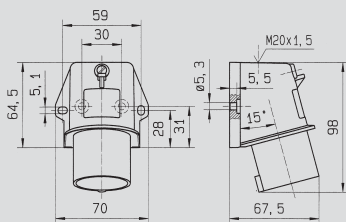
Product group 8300, type 41416 shown.

MENNEKES CEE inlets

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

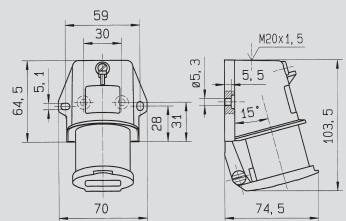


Drawing 2 MB 213
Dim. in mm

Wall/panel mounted inlets
for internal or external fixing,
cable entry also possible from
top or from the rear



Product group 2036, type 844 shown.

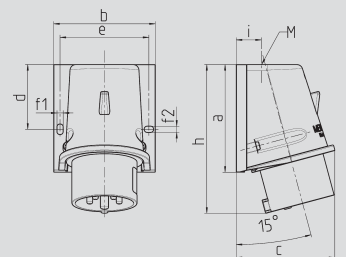


Drawing 2 MB 212
Dim. in mm

**Wall/panel mounted inlets
with hinged lid**
for internal or external fixing,
cable entry also possible from
top or from the rear



Product group 2037, type 847 shown.

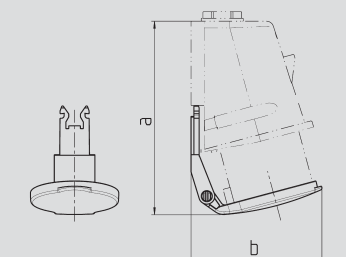


Drawing 2 MB 221	Amp. Poles	16	
		4	5
Dim. in mm	a	92,5	92,5
	b	87	87
	c	84,5	84,5
	d	55,5	55,5
	e	76	76
	f1	5,3	5,3
	f2	5,3	5,3
	h	128	128
	i	21,5	21,5
	M	25	25

Wall mounted inlets
for external fixing



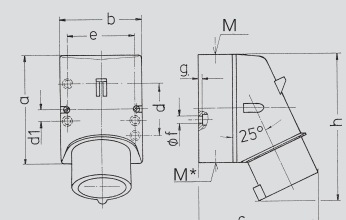
Product group 2136, type 801 shown.



Drawing 2 MB 222	Amp. Poles	16		
		3	4	5
Dim. in mm	a	103,5	134	134
	b	74,4	91	91

Hinged lids for retrofitting
for wall mounted inlets
(part no. 800, 801, 843, 844 and
phase inverters part no. 3517)

Product group 8257, type 41482 shown.

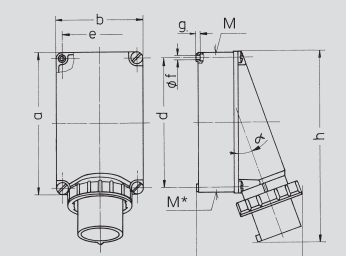


Drawing 2 MB 32	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	87	100	100	128	128	128
	b	64	75	75	84	84	84
	c	93	106	110	133	133	135
	d	40	—	—	—	—	—
	d1	—	10,5	10,5	11	11	11
	e	50,5	59	59	68	68	68
	f	4,5	5	5	5,3	5,3	5,3
	g	4	4	4	4	4	4
	h	122	133	135	169	169	170
	M	20	20	20	25	25	32
	M*	1 x M 20 (blind)	to be cut out	to be cut out	2 x M 25 (blind)	to be cut out	to be cut out
	Max. cable diam. (mm)	15	15	15	18/25	18/25	18/25
	Terminal for cond. cross section (mm²) min.-max.	1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Wall mounted inlets
cable entry also possible from the rear,
knock-out section on the bottom part
of the back box



Product group 2045, type 342 shown.

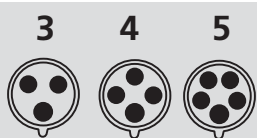


Drawing 2 MB 36	Amp. Poles	63			125	
		3	4	5	4	5
Dim. in mm	a	170	170	170	264	264
	b	118	118	118	163	163
	c	171	171	171	205	205
	d	136	136	136	240	240
	e	104	104	104	140	140
	f	6,1	6,1	6,1	8,1	8,1
	g	6	6	6	8	8
	h	250	250	250	355	355
	M	40	40	40	50	50
	M*	2x40	2x40	2x40	50	50
	α	25°	25°	25°	20°	20°
	Max. cable diam. (mm)	32	32	32	38	38
	Terminal for cond. cross section (mm²) min.-max.	4	4	4	16	16
		—10	—10	—10	—35	—35

Wall mounted inlets
(for a suitable watertight protective
cover, see page 69 in this chapter)



Product group 2048, type 361 shown.

 $2p+E$ $3p+E$ $3p+N+E$

110 V
50 a. 60 Hz

50 a. 60 Hz

230 V
50 a. 60 Hz

50 a. 60 Hz

400 V
50 a. 60 Hz

50 a. 60 Hz

500 V
50 a. 60 Hz

50 a. 60 Hz

>50-500 V
100-300 Hz

100-300 Hz

>50-500 V

>300-500 Hz

Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole

4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h 10h 10h 10h 2h 2h 2h

Std. Pack.

Weight

Part numbers

Qty.	g/each
------	--------



16 3 843 844

10 107

For hinged lids for retrofit, see position 4 on this page.



16 3 846 **847** 10 127



16	4		800	10	
16	5		801	10	215
32	3	802		10	
32	4		803	10	
32	5		804	10	



16 3	41482	10	20
16 4 + 5	41489	10	25



16	3	331	332	333				10	150
16	4	334	335	336	337	921	922	10	235
16	5	340	341	342	2359	2668	2400	10	250
32	3	343	344	345				10	345
32	4	346	347	348	349			10	370
32	5	352	353	354	2386			10	390



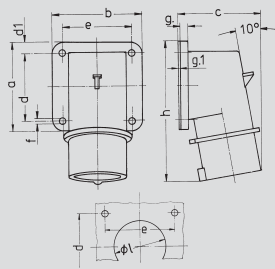
63	3	1216	1107	1217		5	825
63	4	355	356	357	358	5	855
63	5	359	360	361		5	903
125	4	362	363	364	365	3	2020
125	5	366	367	368		3	2121

MENNEKES CEE inlets

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

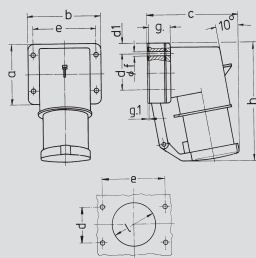


Drawing	Amp.	16		32		
2 MB 73	Poles	4	5	3	4	5
Dim. in mm	a	85	85	75	75	75
	b	85	85	90	90	90
	c	75	79	87	87	90
	d	64	64	45	45	45
	d1	10	10	13	13	13
	e	64	64	78	78	78
	f	5,5	5,5	5,5	5,5	5,5
	g	6	6	6	6	6
	g.1	2	2	2	2	2
	h	129	129	137	137	138
	l	50	50	55	55	55
Terminal for cond. cross section (mm²) min.-max.		1	1	2,5	2,5	2,5
		-2,5	-2,5	-6	-6	-6

Panel mounted inlets

▲ IP 44

Product group 2051, type 379 shown.



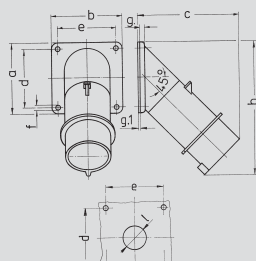
Drawing	Amp.	16		32		
2 MB 43	Poles	4	5	3	4	5
Dim. in mm	a	85	85	75	75	75
	b	85	85	90	90	90
	c	104	106	115	115	117
	d	64	64	45	45	45
	d1	10	10	13	13	13
	e	64	64	78	78	78
	f	5,5	5,5	5,5	5,5	5,5
	g	27	27	27	27	27
	g.1	2	2	2	2	2
	h	140	140	150	150	150
	l	50	50	55	55	55
Terminal for cond. cross section (mm²) min.-max.		1	1	2,5	2,5	2,5
		-2,5	-2,5	-6	-6	-6

Panel mounted inlets

with hinged lid

▲ IP 44

Product group 2057, type 402 shown.

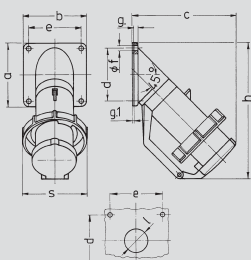


Drawing	Amp.	16		32		
2 MB 39	Poles	5		3	4	5
Dim. in mm	a	85		85	85	85
	b	85		85	85	85
	c	122		126	126	129
	d	70		70	70	70
	e	70		70	70	70
	f	6,2		6,2	6,2	6,2
	g	6		6	6	6
	g.1	2		2	2	2
	h	161		163	163	170
	l	30		30	30	30
Terminal for cond. cross section (mm²) min.-max.		1		2,5	2,5	2,5
		-2,5		-6	-6	-6

Panel mounted inlets

▲ IP 44

Product group 2055, type 432 shown.



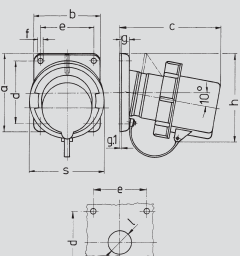
Drawing	Amp.	16		32			63	
2 MB 40	Poles	5	3	4	5		4	5
Dim. in mm	a	85	85	85	85		114	114
	b	85	85	85	85		114	114
	c	141	141	141	144		180	180
	d	70	70	70	70		90	90
	e	70	70	70	70		90	90
	f	6,2	6,2	6,2	6,2		6,2	6,2
	g	6	6	6	6		6	6
	g.1	2	2	2	2		2	2
	h	181	181	181	188		242	242
	s	86	93	93	100		113	113
	l	30	30	30	30		40	40
Terminal for cond. cross section (mm²) min.-max.		1	2,5	2,5	2,5		4	4
		-2,5	-6	-6	-6		-10	-10

Panel mounted inlets

with hinged lid

▲ IP 67

Product group 2050, type 464 shown.



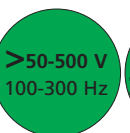
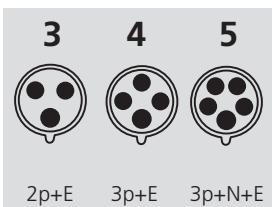
Drawing	Amp.	16		32			63	
2 MB 62	Poles	3	5	5			4	5
Dim. in mm	a	85	85	85			108	108
	b	85	85	85			101	101
	c	132	132	137			164	164
	d	70	70	70			85	85
	e	70	70	70			77	77
	f	6,3	6,3	6,3			6,5	6,5
	g	11	11	11			12	12
	g.1	2	2	2			2	2
	h	100	107	111			130	130
	s	70	86	102			114	114
	l	30	30	30			40	40
Terminal for cond. cross section (mm²) min.-max.		1	1	2,5			4	4
		-2,5	-2,5	-6			-10	-10

Panel mounted inlets

with protective cover

▲ IP 67

Product group 2067, type 1253 shown.



Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole

Std. Pack.

Weight

Part numbers

Qty. g/each



16	4		372	373														10	172
16	5			379														10	176
32	3		381															10	224
32	4			385														10	235
32	5			391														10	247



16	4	392	393	394	395													10	265
16	5	398	399	400														10	275
32	3	401	402	403														10	320
32	4	404	405	406	407													10	342
32	5	410	411	412														10	365



16	5		434	432														10	214
32	3																	10	228
32	4			438														10	242
32	5			444														10	275



16	5		461	462														10	320
32	3		464															10	331
32	4		467	468	469													10	354
32	5		473	474														10	406
63	4		476	477	2624													5	722
63	5		479	480														5	750



16	3	3530	3531															10	210
16	5			1253														10	283
32	5			1254														10	387
63	4			1256	1257													5	659
63	5			1259														5	705

2

MENNEKES CEE panel mounted RAPIDO inlets

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

Drawing	Amp.	16		
2 MB 216	Poles	3	4	5
Dim. in mm	a	70	70	70
	b	69	69	69
	c	max. 72 max. 72 max. 72		
	d	44	44	44
	e	Ø61	Ø61	Ø61
	f	33,25	33,25	33,25
	e1	—	—	—
	f1	—	—	—
Terminal for cond. cross section (mm²) min.-max.		1	1	1
		—2,5	—2,5	—2,5

Panel mounted inlets RAPIDO
with screw terminals,
for wall aperture
61 mm diameter,
central locking system

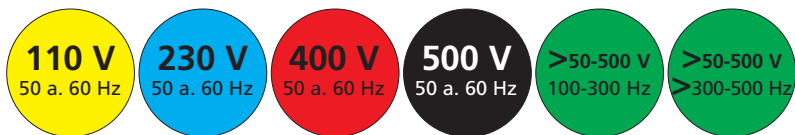
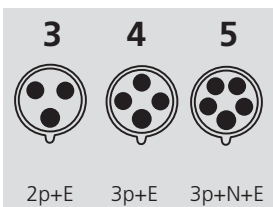
Product group 2086, type 924 shown.

Drawing	Amp.	16		32		
2 MB 216	Poles	4	5	3	4	5
Dim. in mm	a	70	70	82	82	82
	b	69	69	82	82	82
	c	max. 72 max. 72		84	84	84
	d	44	44	50	50	50
	e	—	—	—	—	—
	f	—	—	—	—	—
	e1	Ø70	Ø70	Ø70	Ø70	Ø70
	f1	37,75	37,75	37,75	37,75	37,75
	Terminal for cond. cross section (mm²) min.-max.		1	1	2,5	2,5
			—2,5	—2,5	—6	—6

Panel mounted inlets RAPIDO
with screw terminals,
for wall aperture
70 mm diameter,
central locking system

Product group 2086, type 972 shown.

A retaining nose to hold the hinged lid of the connector must be provided by the user in order to ensure satisfactory locking.



Amp.	Poles	3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight
Part numbers																				Qty.	g/each



16	3	919	924																	5	
16	4								931											5	
16	5								949											5	110



16	4		932	933	934															5	
16	5			972																5	
32	3	935	938																	5	
32	4		939	942	944															5	
32	5			945																5	123

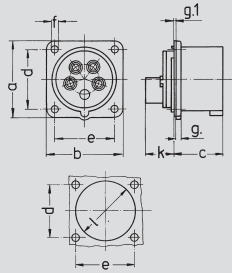
2

MENNEKES CEE inlets

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



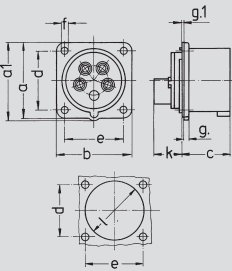
Drawing	Amp.	16
2 MB 68	Poles	5
Dim. in mm	a	75
	b	75
	c	42
	d	60
	e	60
	f	5,5
	g	7,3
	g.1	2
	k	13
	l	52
Terminal for cond. cross section (mm²) min.-max.		1 —2,5

Panel mounted inlets

a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking



Product group 2084, type 853 shown.



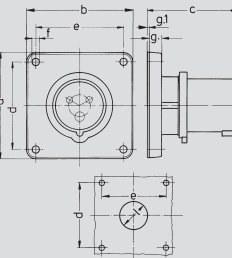
Drawing	Amp.	16	32
2 MB 68	Poles	5	5
Dim. in mm	a	66	72
	a.1	69	78
	b	66	72
	c	43	52
	d	52	60
	e	52	60
	f	4,5	4,5
	g	4,5	4,5
	g.1	2	2
	k	27	32
	l	59	63
Terminal for cond. cross section (mm²) min.-max.		1 —2,5	2,5 —6

Panel mounted inlets

a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking



Product group 2069, type 1408 shown.



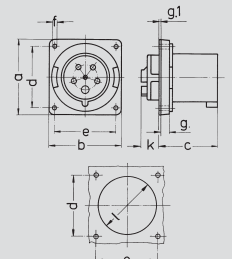
Drawing	Amp.	16	32
2 MB 173/2	Poles	3 4 5	3 4 5
Dim. in mm	a	85,7 85,7 85,7	85,7 85,7 85,7
	b	85,7 85,7 85,7	85,7 85,7 85,7
	c	72 72 72	90 90 90
	d	69,5 69,5 69,5	69,5 69,5 69,5
	e	69,5 69,5 69,5	69,5 69,5 69,5
	f	5,5 5,5 5,5	5,5 5,5 5,5
	g	11 11 11	11 11 11
	g.1	2 2 2	2 2 2
	k	32 36 36	47 47 47
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5 —4 —4 —4	2,5 2,5 2,5 —10 —10 —10

Panel mounted inlets

with nickel-plated contacts, a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking



Product group 2083, type 838 shown.



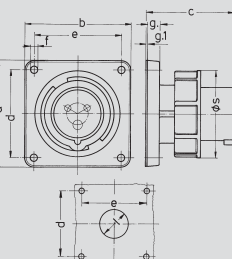
Drawing	Amp.	63
2 MB 155	Poles	3 4 5
Dim. in mm	a	110 110 110
	b	106 106 106
	c	86 86 86
	d	90 90 90
	e	90 90 90
	f	5,5 5,5 5,5
	g	12 12 12
	g.1	2 2 2
	k	28 28 28
	l	86 86 86
Terminal for cond. cross section (mm²) min.-max.		6 6 6 —16 —16 —16

Panel mounted inlets

with highly heat resistant contact carrier and nickel-plated contacts, a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking



Product group 2069, type 1688 shown.



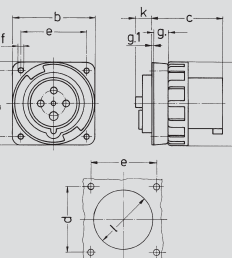
Drawing	Amp.	16	32
2 MB 187/2	Poles	3 4 5	3 4 5
Dim. in mm	a	85,7 85,7 85,7	85,7 85,7 85,7
	b	85,7 85,7 85,7	85,7 85,7 85,7
	c	72 72 72	90 90 90
	d	69,5 69,5 69,5	69,5 69,5 69,5
	e	69,5 69,5 69,5	69,5 69,5 69,5
	f	5,5 5,5 5,5	5,5 5,5 5,5
	g	11 11 11	11 11 11
	g.1	2 2 2	2 2 2
	k	32 36 47	47 47 47
	l	71 79 89	94 94 102
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5 —4 —4 —4	2,5 2,5 2,5 —10 —10 —10

Panel mounted inlets

with nickel-plated contacts



Product group 2080, type 840 shown.



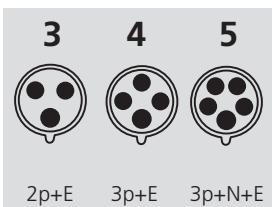
Drawing	Amp.	63	125
2 MB 166	Poles	3 4 5	3 4 5
Dim. in mm	a	110 110 110	130 130 130
	b	106 106 106	130 130 130
	c	86 86 86	112 112 112
	d	90 90 90	104 104 104
	e	90 90 90	104 104 104
	f	5,5 5,5 5,5	6,5 6,5 6,5
	g	12 12 12	18 18 18
	g.1	2 2 2	2 2 2
	k	28 28 28	28 28 28
	l	73 73 73	95 95 95
	s	113 113 113	132 132 132
Terminal for cond. cross section (mm²) min.-max.		6 6 6 —16 —16 —16	25 25 25 —70 —70 —70

Panel mounted inlets

with highly heat resistant contact carrier and nickel-plated contacts



Product group 2076, type 1983 shown.



110 V
50 a. 60 Hz

230 V
50 a. 60 Hz

400 V
50 a. 60 Hz

500 V
50 a. 60 Hz

>50-500 V
100-300 Hz

>50-500 V
>300-500 Hz

Amp.

Poles

3-pole 4-pole 5-pole
4h 4h 4h

3-pole 4-pole 5-pole
6h 9h 9h

3-pole 4-pole 5-pole
9h 6h 6h

3-pole 4-pole 5-pole
7h 7h 7h

3-pole 4-pole 5-pole
10h 10h 10h

3-pole 4-pole 5-pole
2h 2h 2h

Std. Pack.

Weight

Part numbers

Qty.

g/each



16 5

853

10

175



16 5

1408

10

170

32 5

1409

10

180



16 3

812

10

125

16 4

837

813

814

10

130

16 5

815

10

150

32 3

817

10

195

32 4

838

819

820

10

210

32 5

821

10

245



63 3

1981

5

360

63 4

1984

1982

824

5

475

63 5

1688

5

532



16 3

825

826

10

155

16 4

839

827

828

10

180

16 5

829

10

210

32 3

830

831

10

240

32 4

840

832

833

10

255

32 5

834

10

300



63 3

835

836

5

440

63 4

3704

3656

3657

5

553

63 5

3658

5

590

125 3

3665

5

890

125 4

3413

3583

3600

5

1005

125 5

1983

5

1125

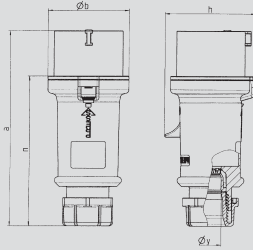
MENNEKES CEE phase inverter

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Patented phase rotor system, DBP no. 196 45 852.

Other voltages and frequencies available on request.



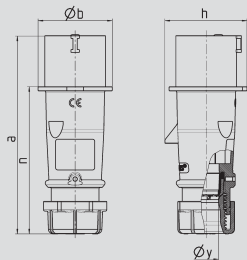
Drawing 2 MB 214	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	148	160	160	197	197	197
	b	55	65,6	65,6	75	75	75
	h	61	72,5	72,5	80,5	80,5	85
	n	112	123,5	123,5	152	152	152
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Phase inverters ProTOP

with screw terminals,
cable gland and sealing,
strain relief and protection
against kinking, enclosure with
thread lock and safety slide



Product group 2144, type 3319 shown.



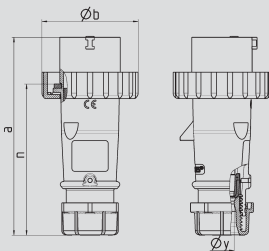
Drawing 2 MB 217	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	142	147	147	186	186	180
	b	53	59	67	70	70	77
	h	59	69,4	76	81	81	89,5
	n	105,2	110,5	110,5	141	141	135
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Phase inverters AM-TOP®

single part body,
with screw terminals,
cable gland and sealing



Product group 2244, type 319 shown.



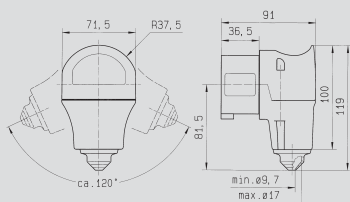
Drawing 2 MB 218	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	142	144	147	186	186	180
	b	70	78	87	94	94	101
	n	109	111	114	145	145	138
	y	14,5	16	16	22	22	22
		1	1	1	2,5	2,5	2,5
Terminal for cond. cross section (mm²) min.-max.		—2,5	—2,5	—2,5	—6	—6	—6

Phase inverters AM-TOP®

single part body,
with screw terminals,
cable gland and sealing



Product group 2147, type 328 shown.



Drawing 2 MB 208
Dim. in mm

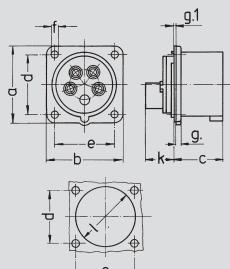
Phase inverters VarioTOP

angled plug
with grommet

**Cable entry hood rotating up
to 60° to the left or right.**



Product group 2091, type 859 shown.



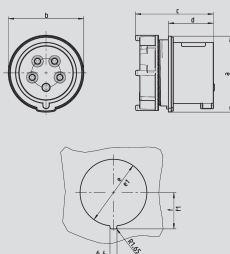
Drawing 2 MB 68	Amp. Poles	16	
		4	5
Dim. in mm	a	75	
	b	75	
	c	42	
	d	60	
	e	60	
	f	5,5	
	g.	7,3	
	g.1	2	
	k	13	
	l	52	
		1	
	Terminal for cond. cross section (mm²) min.-max.	—2,5	

Phase inverters

designed as a panel mounted inlet,
a retaining nose to hold the hinged lid
of the connector must be provided by
the customer in order to ensure
satisfactory locking



Product group 2085, type 854 shown.



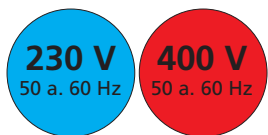
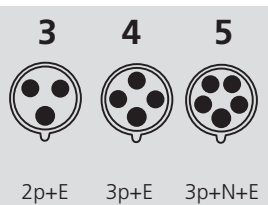
Drawing 2 MB 216	Amp. Poles	16		32		
		4	5	3	4	5
Dim. in mm	a	70	70	82	82	82
	b	69	69	82	82	82
	c	max. 72 max. 72		84	84	84
	d	44	44	50	50	50
	e	—	—	—	—	—
	f	—	—	—	—	—
	e1	Ø70	Ø70	Ø70	Ø70	Ø70
	f1	37,75	37,75	37,75	37,75	37,75
		1	1	2,5	2,5	2,5
	Terminal for cond. cross section (mm²) min.-max.			—2,5	—2,5	—6
				—6	—6	—6

Phase inverters RAPIDO

designed as a panel mounted inlet,
for wall apertures
70 mm diameter,
central fixing, a retaining nose to hold
the hinged lid of the connector must
be provided by the customer in
order to ensure satisfactory locking



Product group 2086, type 937 shown.



3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
6h 9h 9h 9h 6h 6h

	Amp. Poles	Part numbers				Std. Pack. Qty.	Weight g/each
		3-pole 6h	4-pole 9h	5-pole 9h	3-pole 6h		
	16 5				3319	10	181
	32 5				3322	10	295
	16 4		338		339	10	155
	16 5		318		319	10	179
	32 4		396		397	10	240
	32 5		321		322	10	279
	16 4		3338		3339	10	170
	16 5				325	10	200
	32 4		3340		3341	10	250
	32 5		327		328	10	297
	16 5				859	10	190
	Especially suitable for use with receptacles of the Cepex range.						
	16 5				854	10	180
	16 5				937	10	
	32 5				992	10	

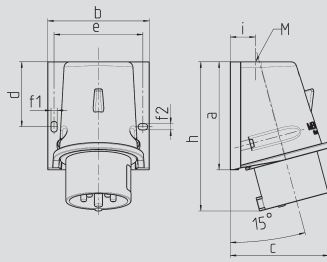
MENNEKES CEE phase inverter

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Patented phase rotor system, DBP no. 196 45 852.

Other voltages and frequencies available on request.



Drawing	Amp.	16	
2 MB 221	Poles	4	5
Dim. in mm	a	92,5	92,5
	b	87	87
	c	84,5	84,5
	d	55,5	55,5
	e	76	76
	f1	5,3	5,3
	f2	5,3	5,3
	h	128	128
	i	21,5	21,5
	M	25	25

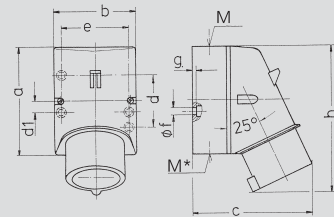
Phase inverters

as wall inlet,
with external fixing

Hinged lid for retrofit
see page 70/71.

▲ IP 44

Product group 2052, type 3517 shown.



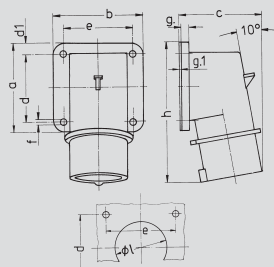
Drawing	Amp.	16			32		
2 MB 32	Poles	3	4	5	3	4	5
Dim. in mm	a	87	100	100	128	128	128
	b	64	75	75	84	84	84
	c	93	106	110	133	133	135
	d	40	—	—	—	—	—
	d1	10,5	10,5	10,5	11	11	11
	e	50,5	59	59	68	68	68
	f	4,5	5	5	5,3	5,3	5,3
	g	4	4	4	4	4	4
	h	122	133	135	169	169	170
	M	20	20	20	25	25	32
	M*	1 x M 20 (blind)	to be cut out	to be cut out	2 x M 25 (blind)	to be cut out	to be cut out
Max. cable diam. (mm)		15	15	15	18/25	18/25	18/25
Terminal for cond. cross section (mm²) min.-max.		1 —2,5	1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6

Phase inverters

as wall inlet

▲ IP 44

Product group 2066, type 2511 shown.



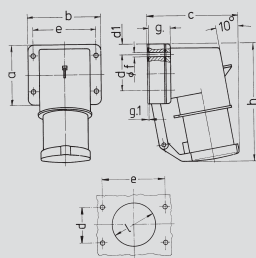
Drawing	Amp.	16		32		
2 MB 73	Poles	4	5	3	4	5
Dim. in mm	a	85	85	75	75	75
	b	85	85	90	90	90
	c	75	79	87	87	90
	d	64	64	45	45	45
	d1	10	10	13	13	13
	e	64	64	78	78	78
	f	5,5	5,5	5,5	5,5	5,5
	g	6	6	6	6	6
	g1	2	2	2	2	2
	h	129	129	137	137	138
	i	50	50	55	55	55
Terminal for cond. cross section (mm²) min.-max.		1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6

Phase inverters

as panel mounted inlet
without a hinged lid

▲ IP 44

Product group 2060, type 329 shown.



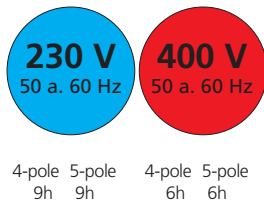
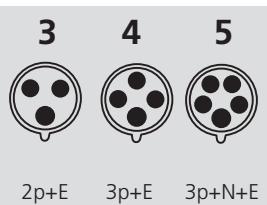
Drawing	Amp.	16		32		
2 MB 43	Poles	4	5	3	4	5
Dim. in mm	a	85	85	75	75	75
	b	85	85	90	90	90
	c	104	106	115	115	117
	d	64	64	45	45	45
	d1	10	10	13	13	13
	e	64	64	78	78	78
	f	5,5	5,5	5,5	5,5	5,5
	g	27	27	27	27	27
	g1	2	2	2	2	2
	h	140	140	150	150	150
	i	50	50	55	55	55
Terminal for cond. cross section (mm²) min.-max.		1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6





Phase inverters

as panel mounted inlet
with a hinged lid

▲ IP 44

Product group 2062, type 20970 shown.



	Amp.	Poles	Part numbers		Std. Pack.	Weight
			Qty.	g/each		
	16	5		3517	10	215
	32	5		3523	10	
	16	4		3342	10	235
	16	5		3343 2511	10	250
	32	4		3345	10	370
	32	5		3347	10	390
	16	4		3357	10	172
	16	5		855 329	10	176
	32	4		3367	10	235
	32	5		913	10	247
	16	4		3348	10	265
	16	5		3350 20970	10	275
	32	4		3355	10	347
	32	5		3717	10	365

2



Your insurance in the case of
blackouts:

**Emergency power
supply**

16A up to 125A from MENNEKES.

Please ask for our brochure.


MENNEKES CEE phase sequence test plug

to VDE 0413, part 7, DIN-EN 61557-7.

Technical drawing of the CEE phase sequence test plug. The drawing shows two views: a front view and a side view. The front view shows the plug with dimensions ϕb (diameter of the top flange), h (height of the top flange), a (height of the top flange from the base), b (height of the top flange from the base), c (height of the top flange from the base), and n (height of the top flange from the base). The side view shows the plug with dimensions h (height of the top flange) and n (height of the top flange from the base).

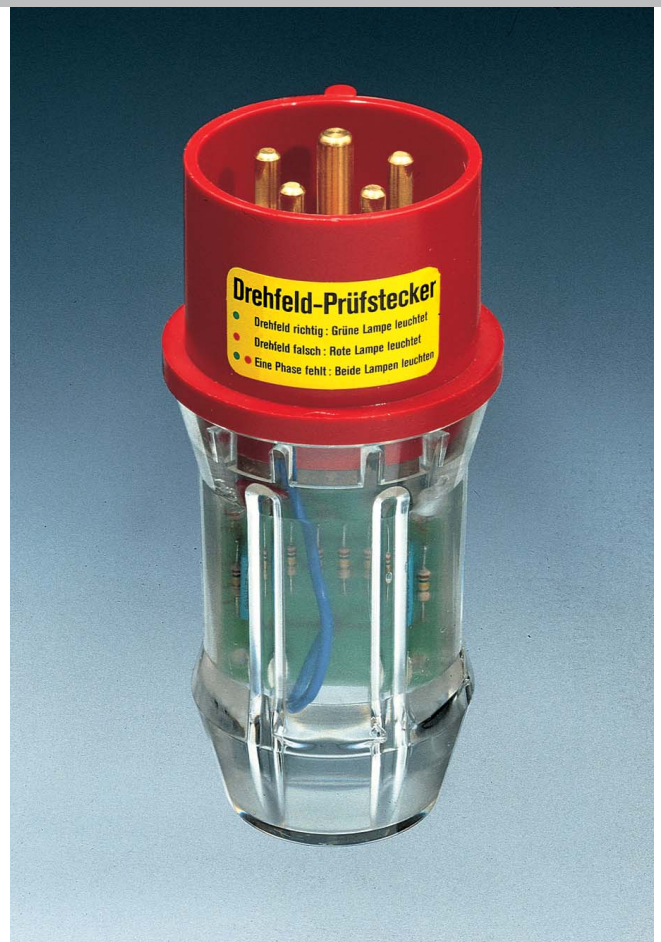
Drawing	Amp.	16		32		63	
2 MB 140	Poles	4	5	4	5	4	5
Dim. in mm	a	126	129	145	145	211	211
	b	60	65	66	74	100	100
	h	62	69	71	80	100	100
	n	90	93	99	99	145	145

Phase sequence test plugs
to VDE 0413, part 7, DIN-EN 61557-7




 IP 44
Product group 2070, type 1414 shown.

**Phase sequence test plugs
for container receptacles,**
see chapter 13.

MENNEKES phase sequence test plug





						
Amp.	Poles	4pol. 5pol. 9h 9h	4pol. 5pol. 6h 6h	4pol. 5pol. 7h 7h	Std. Pack.	Weight
Part numbers					Qty.	g/each
16	4	3527	3458	3459	5	170
16	5	3231	1414		5	190
32	4	3528	3460	3461	5	212
32	5	3232	1415		5	242
63	4	3420	1436	3917	5	665
63	5		1437		5	720

The test plug enables safe control of the direction of the rotating field for CEE receptacles.

According to VDE 0100 § 31b) 5, rotary current receptacles must be connected such that a right-hand rotating field is achieved - the sockets seen from front in clockwise direction. The test plug differs from a standard plug by its transparent housing indicating a right-hand or left-hand rotating field or a missing phase by means of two control lamps.

**Correct rotating field:
Green lamp lights up.**

**Incorrect rotating field:
Red lamp lights up.**

**Phase missing:
Both lamps light up.**

The control lamps inside the transparent housing are arranged so as to be perfectly visible from all sides.



■ CEE connectors, 16A to 125A

Connectors StarTOP®, 16A and 32A, IP 44

Page 88 and 89



Connectors ProTOP, 16A and 32A, IP 44

Page 88 and 89



Connectors AM-TOP®, 16A and 32A, IP 44

Page 88 and 89



Connectors PowerTOP, 63A, IP 44

Page 88 and 89



Angled connectors, 16A, IP 44

Page 88 and 89



Connectors AM-TOP®, 16A and 32A, IP 67

Page 90 and 91



Connectors PowerTOP, 63A and 125A, IP 67

Page 90 and 91



Hanging connectors, 16A and 32A, IP 44

Page 90 and 91



■ Connectors 16A to 125A

StarTOP®. Think smarter. Be faster.

A high degree of safety.

With many handy features and its rugged design, StarTOP® is a top solution that meets the most exacting demands. In one operation, the insulation is cut, the contact is positively established and the wire powerfully held in place. Well thought-out system for professionals.



Under cover.

Unlocking is only possible using tools. A stable lock ensures permanent safety.



SafeCONTACT
by MENNEKES.

VDE tested

ProTOP. With standard connection technology.

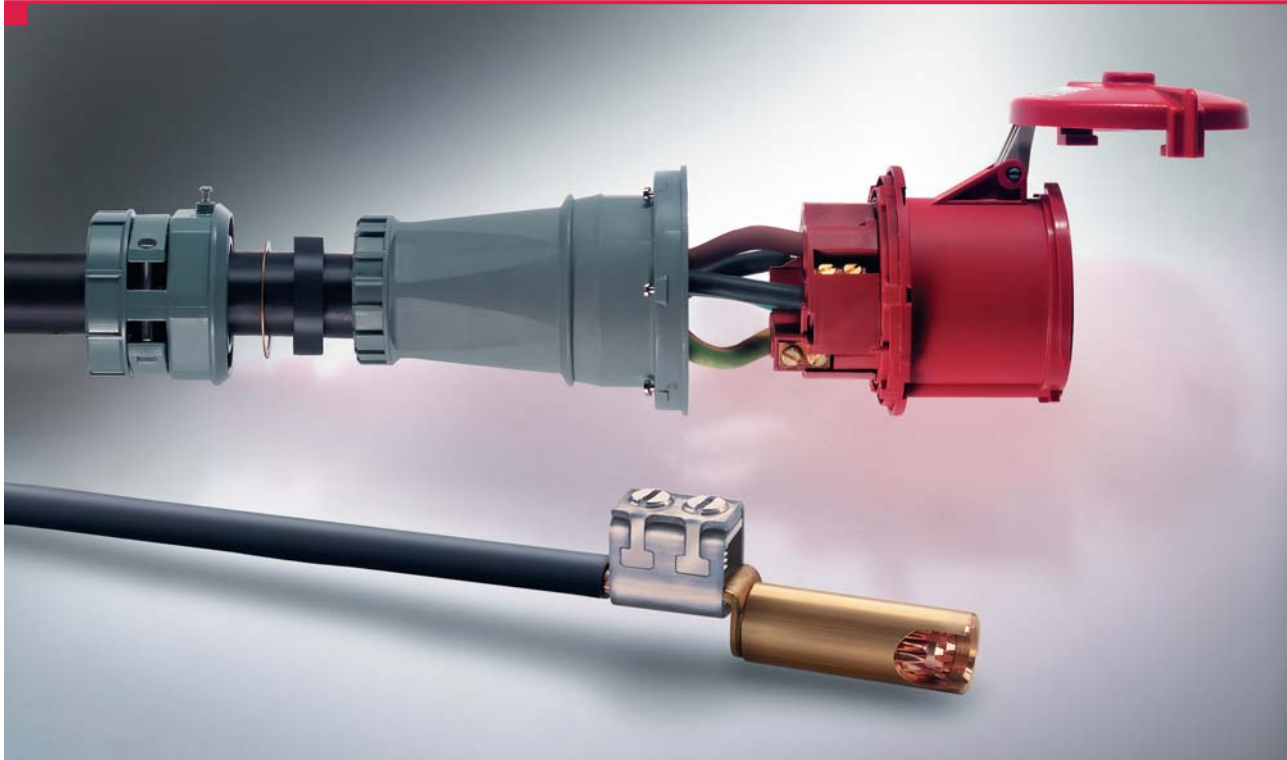


Gland with integral cable grip and seal created in one single operation. The teeth on the gland give a firm hold and protect the device from inadvertent loosening.



Safety right where you need it: opening aid on the hinged lid.

PowerTOP. For easy plugging and unplugging.



3

SoftCONTACT for 63A connectors. Torsion spring contact for 125A connectors. Less force, optimum mechanical and electric properties. Proven under harsh conditions, in humid and dirty environments.

PowerTOP. For continuous use under harsh conditions.

The external cable grip fixes the cable upstream of the seal. The inside remains free from dust and water. Now even easier to install thanks to more space for the wiring. Slim and handy shape for more convenient insertion and withdrawal even when wearing protective gloves.

Safety first.

All PowerTOP plugs and receptacles comply with the amended standard EN/IEC 60 309-2. They are finger proof in accordance with BGV A2, formerly VBG 4.

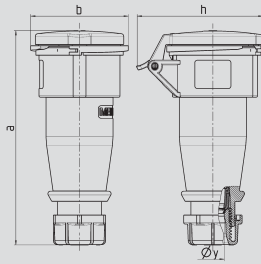


MENNEKES CEE connectors

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



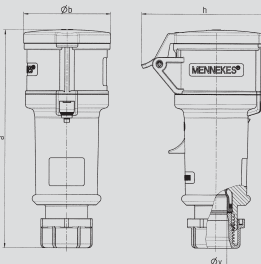
Drawing 3 MB 63	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	162	165	167	209	209	208
	b	60	68	76	82	82	89
	h	83	92	98	100	100	108
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors AM-TOP®

single part body,
with screw terminals,
cable gland and sealing

▲ IP 44

Product group 3141, type 5 shown.



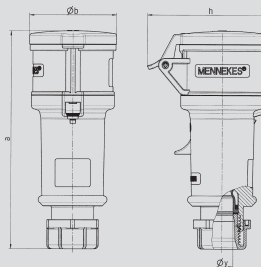
Drawing 3 MB 60 3 MB 57	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	160	174	172	214	214	210
	b	57	61	69	75	75	80
	h	83	92	98	100	100	108
	y	16	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors ProTOP

with screw terminals,
cable gland and sealing,
strain relief and protection against
kinking, enclosure with thread lock
and safety slide

▲ IP 44

Product group 3197, type 15 shown.



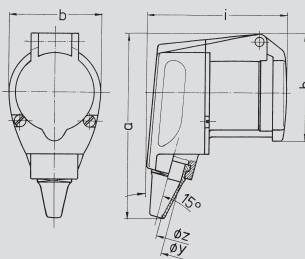
Drawing 3 MB 60	Amp. Poles	16			32
		3	4	5	5
Dim. in mm	a	160	174	172	210
	b	57	61	69	80
	h	83	92	98	108
	y	16	16	16	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5
		—2,5	—2,5	—2,5	—6

Connectors StarTOP® with SafeCONTACT

screwless,
with insulation displacing technique,
cable gland and sealing, strain relief and
protection against kinking, enclosure
with thread lock and safety slide

▲ IP 44

Product group 3101, type 35 shown.



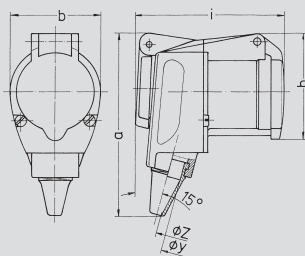
Drawing 3 MB 23	Amp. Poles	16		
		3		
Dim. in mm	a	118		
	b	59		
	h	69		
	i	88		
	y	17,5		
	z	7		
	Terminal for cond. cross section (mm²) min.-max.	1		
		—2,5		

Angled connectors

with grommet

▲ IP 44

Product group 3039, type 1438 shown.



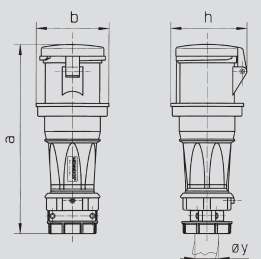
Drawing 3 MB 29	Amp. Poles	16		
		3		
Dim. in mm	a	118		
	b	59		
	h	69		
	i	94		
	y	17,5		
	z	7		
	Terminal for cond. cross section (mm²) min.-max.	1		
		—2,5		

Angled connectors

with grommet and with integral
SCHUKO® receptacle

▲ IP 44

Product group 3039, type 1566 shown.



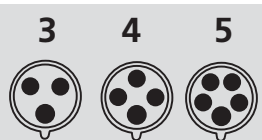
Drawing 3 MB 58/2	Amp. Poles	63		
		3	4	5
Dim. in mm	a	264	264	264
	b	101	101	101
	h	113	113	113
	y	36	36	36
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		—16	—16	—16

Connectors PowerTOP

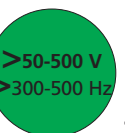
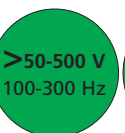
with SoftCONTACT,
with highly heat resistant
contact carrier, frame terminals,
gland and external cable grip

▲ IP 44

Product group 3015, type 1245 shown.



2p+E 3p+E 3p+N+E



Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole

Std. Pack.

Weight

Part numbers

Qty.

g/each



16	3	509	510*	511		2441	2517	10	143
16	4	512	513	514	515	516	517	10	180
16	5	518	519	5	2026	2193	2495	10	222
32	3	521	522	523		2196	2674	10	247
32	4	524	525	526	527	528	529	10	256
32	5	530	531	6	2027	2245	2493	10	300

* For use on camping sites, please select type 180 AC (see chapter 15, page 296)



16	3	179	180*	181				10	153
16	4		193	194	195			10	165
16	5			15				10	231
32	3	121	122					10	320
32	4		125	126	127			10	332
32	5			16				10	370

* For use on camping sites, please select type 180 AC (see chapter 15, page 296)



16	3	979	980					10	186
16	4		993	994	965	996		10	225
16	5			35				10	250
32	5			36				10	383



16	3		1438					10	144
----	---	--	-------------	--	--	--	--	----	-----



16	3		1566					10	165
----	---	--	-------------	--	--	--	--	----	-----



63	3	1236	1237					5	731
63	4		1240	1241	1242			5	763
63	5			1245				5	825

Additional types in 63A see PowerTOP IP 67 wather-tight connectors, product group 3016 on the following page.

Products with pilot contacts: Part no. + index **P**

3

MENNEKES CEE connectors

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

Drawing	Amp.	16			32		
3 MB 62	Poles	3	4	5	3	4	5
Dim. in mm	a	146	166	172	212	212	213
	b	72	79	89	96	96	102
	h	80	88	95	98	98	105
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors AM-TOP®
single part body,
with screw terminals,
cable gland and sealing

☼ IP 67

Product group 3149, type 550 shown.

Drawing	Amp.	63			125		
3 MB 56/2	Poles	3	4	5	3	4	5
Dim. in mm	a	264	264	264	320	320	320
	b	118	118	118	135	135	135
	h	113	113	113	124	124	124
	y	36	36	36	50	50	50
Terminal for cond. cross section (mm²) min.-max.		6	6	6	25	25	25
		—16	—16	—16	—50	—50	—50

Connectors PowerTOP
with highly heat resistant
contact carrier, frame terminals,
gland and external cable grip

63A: with **SoftCONTACT**
125A: with **TorsionSpringCONTACT**

☼ IP 67

Product group 3016, type 1121 shown.

Drawing	Amp.	63	
3 MB 8	Poles	4	5
Dim. in mm	a	287	287
	b	125	125
	h	109	109
	y	30,5	30,5
Terminal for cond. cross section (mm²) min.-max.		4	4
		—10	—10

Connectors economy range

☼ IP 67

Product group 3049, type 569 shown.

Drawing	Amp.	16			32		
3 MB 51/3	Poles	3	4	5	3	4	5
Dim. in mm	a	165	180	190	214	214	223
	b	60	68	76	82	82	89
	h	76	84	90	92	92	99
	y	19	19	22	24,5	24,5	28,5
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

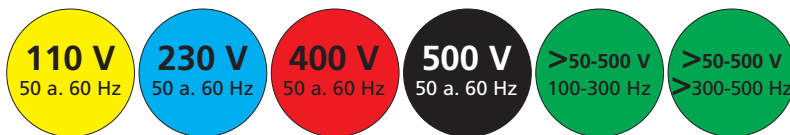
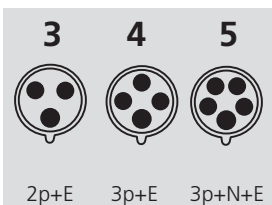
Hanging connectors
with cable gland






☼ IP 44

Product group 3015, type 3778 shown.

Hanging clip
for PowerTOP plugs and connectors

Type 15453000 shown.



			<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>																		Amp.	Poles	Part numbers																		Qty.	g/each
			3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h	Std. Pack.	Weight																				
	16	3		539				540		541											10	165																				
	16	4		542				543		544			545			546			547		10	200																				
	16	5		548				549		550											10	235																				
	32	3		551				552		553											10	270																				
	32	4		554				555		556			557			558			559		10	280																				
	32	5		560				561		562											10	320																				
	63	3		1573				1574		1575											5	774																				
	63	4		1115				1116		1117			1118								5	810																				
	63	5		1119				1120		1121			3352								5	887																				
	125	3		3389				3390													5	1274																				
	125	4		1448				1449		1450			1451								5	1354																				
	125	5		1452				1453		1454			3174								5	1486																				
Products with pilot contacts: Part no. + index P																																										
	63	4								565											5	714																				
	63	5								569											5	766																				
	16									3778											10	298																				
	32									3999											10	460																				
	for 16A, 3 to 5 poles and 32A, 3 and 4 poles														Part number		15453000																									
	for 32A, 5 poles														Part number		15452000																									

Connectors for use in corrosive environments and under harsh conditions in the AM-TOP and PowerTOP range
with highly heat resistant contact carrier and nickel-plated contacts,
16A and 32A, protection type IP 44 and IP 67, see chapter 10.



■ CEE receptacles, 16A to 125A, fused, switched, switched and interlocked, electrically interlocked

**Receptacles,
fused,
16A to 125A,
IP 44 and IP 67**
Page 96 to 101



**Receptacles,
switched and
interlocked,
DUO,
16A to 125A,
IP 44 and IP 67**
Page 102 to 105



**Receptacles,
switched and
interlocked,
DODSCH,
16A to 63A,
IP 44 and IP 55**
Page 102 to 105



**Horizontal
receptacles,
switched and
interlocked,
DUO,
16A,
IP 44 and IP 67**
Page 102 to 107



**Receptacles,
switched and
interlocked,
fused,
DUO,
16A to 125A,
IP 44 and IP 67**
Page 108 to 111



**Receptacles,
electrically
interlocked,
63A and 125A,
IP 67**
Page 112 to 115



**SCHUKO® receptacle,
switched and
interlocked,
16A,
IP 67**
Page 106 and 107



**Switch disconnectors,
16A to 100A,
IP 67**
Page 116 and 117



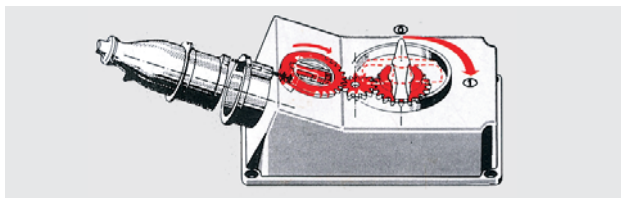
4

Receptacles, switched and interlocked, made of AMELAN, with high heat-resistant contact carriers and nickel plated contacts and with high resistance to chemicals see chapter 10.

- Receptacles - fused, switched and interlocked, electrically interlocked



DUO mechanical.



After insertion and switching on, the plug is locked in the ON position. After switching off and withdrawing the plug, the switch is locked.

All DUO receptacles up to 63A can be padlocked in the OFF position. DUO receptacles of 125A can be supplied with a padlock fitting as an extra. Also available with a triple padlock fitting.

Latching nose aligns the bayonet ring on opening and ensures largely automatic closing.



DODSCH mechanical.

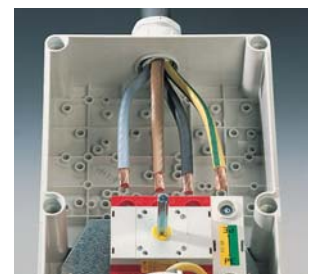
(**D**oseneinsatz-**D**reh-**S**chalter = "Plug in and twist switch")



No switch handle. Plug in and turn clockwise (= switch on). Turn counter-clockwise (= switch off) and pull out.

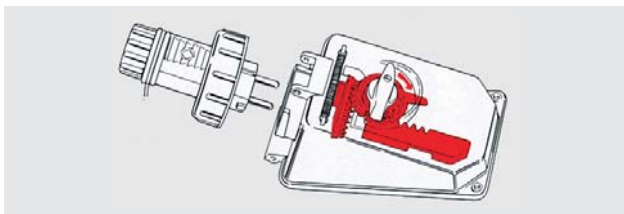
All terminal screws on the switch face front.

Switched receptacles with mechanical DUO interlock, on request available with auxiliary contacts. Please contact us for more information.





MES SCHUKO® receptacle.
(**M**echanical **E**lectrical **S**witch)

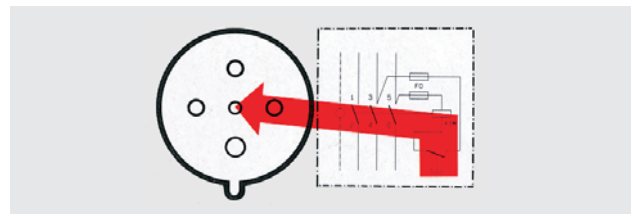


The receptacle is mechanically interlocked using a circuit breaker with thermal and electro-magnetic release. Can only be plugged in off position.

The inside: sophisticated technique in compact, robust, safe and high-quality design to ensure a long service life.

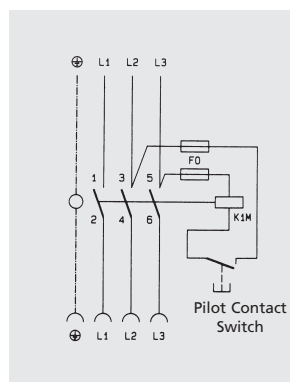


Electric and PCS electric.
(**P**ilot **C**ontact **S**witch)

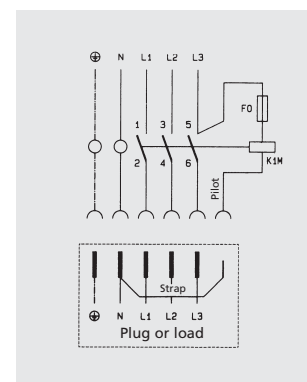


No residual voltage, even on the pilot contact. The controls for the contactor are inside the receptacle.

PCS electric.
Circuit diagram for electrical PCS interlock.



Electric.
Circuit diagram for electrical interlock.

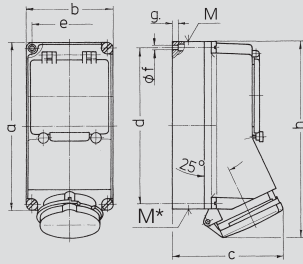


MENNEKES CEE receptacles, fused

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



Drawing 1 MB 168	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x 25 and 1x 32			1x 25 and 1x 32		
	M*	2x25 2x25 2x25			2x25 2x25 2x25		
Max. cable diam. (mm)		25 25 25			25 25 25		
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5 —4 —4 —4			2,5 2,5 2,5 —10 —10 —10		

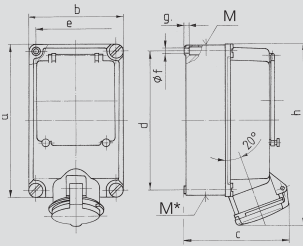
Receptacles

with DIN rail,

optional fitting of Neozed, Diazed, circuit-breakers and RCD's

⚠ IP 44

Product group 1063, type 5495 shown.



Drawing 1 MB 379	Amp. Poles	63	
		4	5
Dim. in mm	a	264	264
	b	163	163
	c	187	187
	d	240	240
	e	140	140
	f	8,1	8,1
	g	8	8
	h	315	315
	M	1x 40 1x 40	
	M*	2x 40 2x 40	
Max. cable diam. (mm)		27 27	

Receptacles

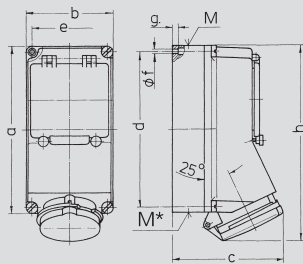
with SoftCONTACT

with DIN rail,

optional fitting of Neozed, Diazed, circuit-breakers and RCD's

⚠ IP 44

Product group 1110, type 7102 shown.



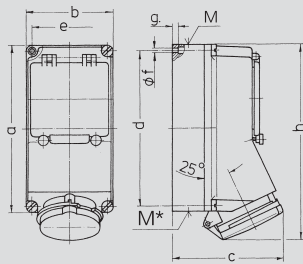
Drawing 1 MB 168	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x 25 and 1x 32			1x 25 and 1x 32		
	M*	2x25 2x25 2x25			2x25 2x25 2x25		
Max. cable diam. (mm)		25 25 25			25 25 25		
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5 —4 —4 —4			2,5 2,5 2,5 —10 —10 —10		

Receptacles

with fuse socket D 01 or D 02

⚠ IP 44

Product group 1060, type 5004 shown.



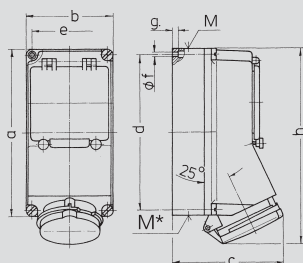
Drawing 1 MB 168	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x 25 and 1x 32			1x 25 and 1x 32		
	M*	2x25 2x25 2x25			2x25 2x25 2x25		
Max. cable diam. (mm)		25 25 25			25 25 25		
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5 —4 —4 —4			2,5 2,5 2,5 —10 —10 —10		

Receptacles

with fuse socket D II (E 27)

⚠ IP 44

Product group 1062, type 5021 shown.



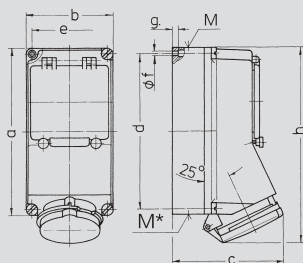
Drawing 1 MB 168	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x 25 and 1x 32			1x 25 and 1x 32		
	M*	2x25 2x25 2x25			2x25 2x25 2x25		
Max. cable diam. (mm)		25 25 25			25 25 25		
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5 —4 —4 —4			2,5 2,5 2,5 —10 —10 —10		

Receptacles

with circuit breaker, K-characteristics

⚠ IP 44

Product group 1061, type 5012 shown.



Drawing 1 MB 168	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x 25 and 1x 32			1x 25 and 1x 32		
	M*	2x25 2x25 2x25			2x25 2x25 2x25		
Max. cable diam. (mm)		25 25 25			25 25 25		
Terminal for cond. cross section (mm²) min.-max.		1,5 1,5 1,5 —4 —4 —4			2,5 2,5 2,5 —10 —10 —10		

Receptacles

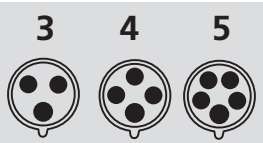
with RCD

$I_{\Delta N} = 0,03A$

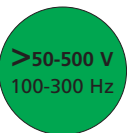
(other leakage current ratings on request)

⚠ IP 44

Product group 1065, type 7312 shown.



2p+E 3p+E 3p+N+E



Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	7006	7007		6	770
16	4		5496		6	800
16	5		5495		6	830
32	4		5498		6	860
32	5		5497		6	1000



63	4		7153		3	1890
63	5		7102		3	2090



16	4		5002		1	1000
16	5		5004		1	1030
32	4		5006		1	1060
32	5		5008		1	1200



16	4		5018		1	1250
16	5		5021		1	1280
32	4		5023		1	1310
32	5		5026		1	1450



16	3	7118	7119		1	850
16	4		5010		1	1100
16	5		5012		1	1130
32	4		5014		1	1160
32	5		5016		1	1300



16	3		7125		1	985
16	4		7126		1	1070
16	5		7312		1	1100
32	4		7127		1	1130
32	5		7313		1	1270

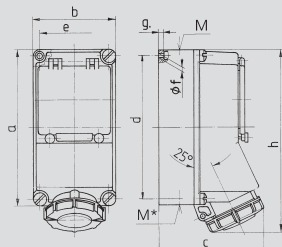
4

MENNEKES CEE receptacles, fused

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



Drawing 1 MB 378	Amp. Poles	16			32	
		3	4	5	4	5
Dim. in mm	a	225	225	225	225	225
	b	118	118	118	118	118
	c	144	146	147	152	153
	d	208	208	208	208	208
	e	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8
	h	252	255	259	268	274
	M	1x25 and 1x32			1x25 and 1x32	
	M*	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10

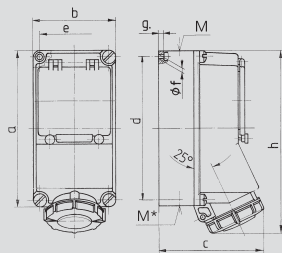
Receptacles

with DIN rail,

optional fitting of Neozed, Diazed, circuit-breakers and RCD's

IP 67

Product group 1163, type 7130 shown.



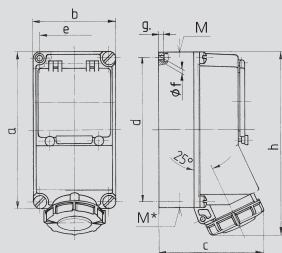
Drawing 1 MB 378	Amp. Poles	16			32	
		3	4	5	4	5
Dim. in mm	a	225	225	225	225	225
	b	118	118	118	118	118
	c	144	146	147	152	153
	d	208	208	208	208	208
	e	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8
	h	252	255	259	268	274
	M	1x25 and 1x32			1x25 and 1x32	
	M*	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10

Receptacles

with fuse socket D 01 or D 02

IP 67

Product group 1160, type 7134 shown.



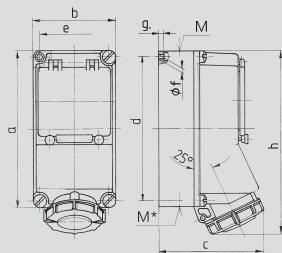
Drawing 1 MB 378	Amp. Poles	16			32	
		3	4	5	4	5
Dim. in mm	a	225	225	225	225	225
	b	118	118	118	118	118
	c	144	146	147	152	153
	d	208	208	208	208	208
	e	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8
	h	252	255	259	268	274
	M	1x25 and 1x32			1x25 and 1x32	
	M*	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10

Receptacles

with fuse socket D II (E 27)

IP 67

Product group 1162, type 7140 shown.



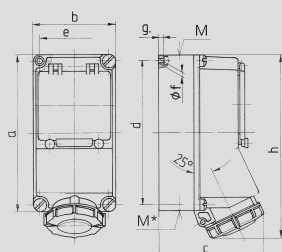
Drawing 1 MB 378	Amp. Poles	16			32	
		3	4	5	4	5
Dim. in mm	a	225	225	225	225	225
	b	118	118	118	118	118
	c	144	146	147	152	153
	d	208	208	208	208	208
	e	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8
	h	252	255	259	268	274
	M	1x25 and 1x32			1x25 and 1x32	
	M*	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10

Receptacles

with circuit breaker, K-characteristics

IP 67

Product group 1161, type 7145 shown.



Drawing 1 MB 378	Amp. Poles	16			32	
		3	4	5	4	5
Dim. in mm	a	225	225	225	225	225
	b	118	118	118	118	118
	c	144	146	147	152	153
	d	208	208	208	208	208
	e	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8
	h	252	255	259	268	274
	M	1x25 and 1x32			1x25 and 1x32	
	M*	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10

Receptacles

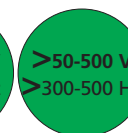
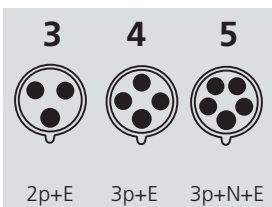
with RCD

$I_{\Delta N} = 0,03A$

(other leakage current ratings on request)

IP 67

Product group 1165, type 7152 shown.



Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	7128																6	780
16	4																	6	810
16	5																	6	860
32	4																	6	870
32	5																	6	1010



16	3	7084																1	810
16	4																	1	1010
16	5																	1	1060
32	4																	1	1070
32	5																	1	1210



16	4																	1	1260
16	5																	1	1310
32	4																	1	1320
32	5																	1	1460



16	3	7143																1	1007
16	4																	1	1110
16	5																	1	1446
32	4																	1	1170
32	5																	1	1542



16	3	7148																1	1000
16	4																	1	1030
16	5																	1	1388
32	4																	1	1110
32	5																	1	1504

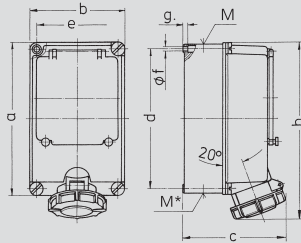
4

MENNEKES CEE receptacles, fused

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

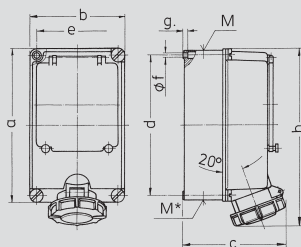


Drawing	Amp.	32		63	
1 MB 164	Poles	4	5	4	5
Dim. in mm	a	264	264	264	264
	b	163	163	163	163
	c	177	184	193	193
	d	240	240	240	240
	e	140	140	140	140
	f	8,1	8,1	8,1	8,1
	g	8	8	8	8
	h	301	301	334	334
	M	32	32	40	40
	M*	2x32	2x32	2x40	2x40
Max. cable diam. (mm)		25	25	27	27
Terminal for cond. cross section (mm²) min.-max.		2,5 —10	2,5 —10	6 —25	6 —25

Receptacles
with DIN rail
63A: **SoftCONTACT**

☼ IP 67

Product group 1064, type 5535 shown.

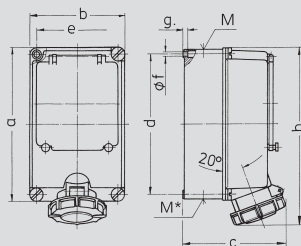


Drawing	Amp.	32		63	
1 MB 164	Poles	4	5	4	5
Dim. in mm	a	264	264	264	264
	b	163	163	163	163
	c	177	184	193	193
	d	240	240	240	240
	e	140	140	140	140
	f	8,1	8,1	8,1	8,1
	g	8	8	8	8
	h	301	301	334	334
	M	32	32	40	40
	M*	2x32	2x32	2x40	2x40
Max. cable diam. (mm)		25	25	27	27
Terminal for cond. cross section (mm²) min.-max.		2,5 —10	2,5 —10	6 —25	6 —25

Receptacles
with **SoftCONTACT**
with 3 pole fuse socket D 02

☼ IP 67

Product group 1115, type 7311 shown.

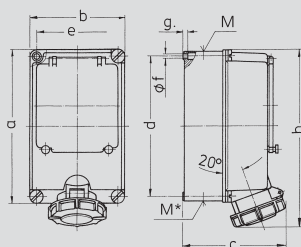


Drawing	Amp.	32		63	
1 MB 164	Poles	4	5	4	5
Dim. in mm	a	264	264	264	264
	b	163	163	163	163
	c	177	184	193	193
	d	240	240	240	240
	e	140	140	140	140
	f	8,1	8,1	8,1	8,1
	g	8	8	8	8
	h	301	301	334	334
	M	32	32	40	40
	M*	2x32	2x32	2x40	2x40
Max. cable diam. (mm)		25	25	27	27
Terminal for cond. cross section (mm²) min.-max.		2,5 —10	2,5 —10	6 —25	6 —25

Receptacles
with 3 pole fuse socket D III (E 33),
63A: **SoftCONTACT**
(also available with NH 00)

☼ IP 67

Product group 1067, type 5041 shown.

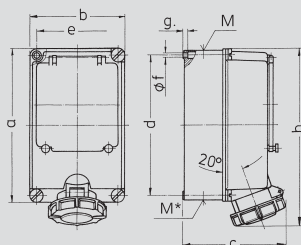


Drawing	Amp.	32		63	
1 MB 164	Poles	4	5	4	5
Dim. in mm	a	264	264	264	264
	b	163	163	163	163
	c	177	184	193	193
	d	240	240	240	240
	e	140	140	140	140
	f	8,1	8,1	8,1	8,1
	g	8	8	8	8
	h	301	301	334	334
	M	32	32	40	40
	M*	2x32	2x32	2x40	2x40
Max. cable diam. (mm)		25	25	27	27
Terminal for cond. cross section (mm²) min.-max.		2,5 —10	2,5 —10	6 —25	6 —25

Receptacles
with **SoftCONTACT**
with 3 pole circuit breaker,
K-characteristic

☼ IP 67

Product group 1116, type 7168 shown.

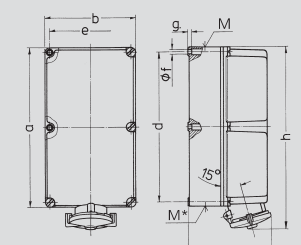


Drawing	Amp.	32		63	
1 MB 164	Poles	4	5	4	5
Dim. in mm	a	264	264	264	264
	b	163	163	163	163
	c	177	184	193	193
	d	240	240	240	240
	e	140	140	140	140
	f	8,1	8,1	8,1	8,1
	g	8	8	8	8
	h	301	301	334	334
	M	32	32	40	40
	M*	2x32	2x32	2x40	2x40
Max. cable diam. (mm)		25	25	27	27
Terminal for cond. cross section (mm²) min.-max.		2,5 —10	2,5 —10	6 —25	6 —25

Receptacles
with **SoftCONTACT**
with RCD
 $I_{\Delta N} = 0,03A$
(other leakage current ratings
on request)

☼ IP 67

Product group 1117, type 7170 shown.

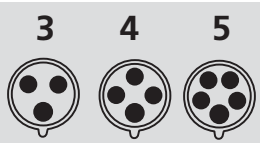


Drawing	Amp.	125	
1 MB 163	Poles	4	5
Dim. in mm	a	460	460
	b	260	260
	c	236	236
	d	434	434
	e	234	234
	f	11	11
	g	9	9
	h	525	525
	M	63	63
	M*	2x63	2x63
Max. cable diam. (mm)		44	44
Terminal for cond. cross section (mm²) min.-max.		25 —70	25 —70

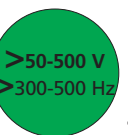
Receptacles
with **TorsionSpringCONTACT**
with 3 pole fuse socket NH 00
(also available with fuse
disconnecter)

☼ IP 67

Product group 1069, type 5046 shown.



2p+E 3p+E 3p+N+E



Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h 10h 10h 10h 2h 2h 2h

Std. Pack.

Weight

Part numbers

Qty. g/each



32	4		5527	5528	6	1780
32	5		5530		6	1820
63	4		5532		3	1940
63	5		5535		3	2140



63	4		7166		3	2090
63	5		7311		3	2290



32	4		5033	5034	6	1930
32	5		5036		6	1970
63	4		5038	5039	3	2090
63	5		5041		3	2290



63	4		7167		3	2390
63	5		7168		3	2590



63	4		7169		3	2260
63	5		7170		3	2559



125	4	5042	5043	5044	1	5650
125	5		5046		1	5870

4

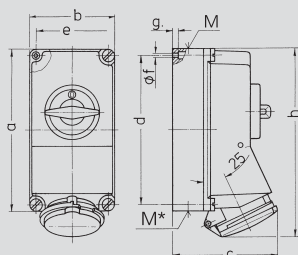
MENNEKES CEE receptacles, switched and interlocked

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

MENNEKES CEE receptacles with DUO interlock can be padlocked.



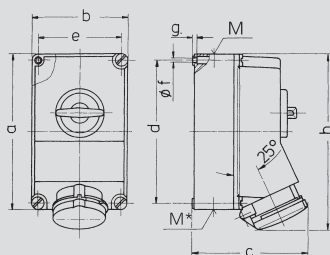
Drawing	Amp.	16			32		
1 MB 174	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

switched, with mechanical
DUO interlock

▲ IP 44

Product group 1075, type 5103 shown.



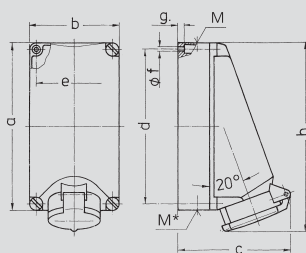
Drawing	Amp.	63		
1 MB 234	Poles	3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	192	192	192
	d	240	240	240
	e	140	140	140
	f	8,1	8,1	8,1
	g	8	8	8
	h	300	300	300
	M	40	40	40
	M*	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25

Receptacles

with **SoftCONTACT**
switched, with mechanical
DUO interlock

▲ IP 44

Product group 1075, type 5959 shown.



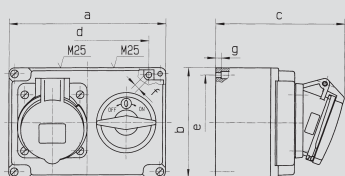
Drawing	Amp.	16			32		
1 MB 142	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	139	148	150	150	150	152
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	247	252	252	253	253	253
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

switched, with mechanical
DODSCH interlock

▲ IP 44

Product group 1077, type 5114 shown.



Drawing	Amp.	16		
1 MB 398	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	134	141	137
	d	136	136	136
	e	104	104	104
	f	6,1	6,1	6,1
	g	6	6	6
	M	25	25	25
Max. cable diam. (mm)		18	18	18
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4

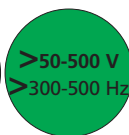
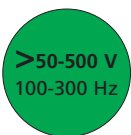
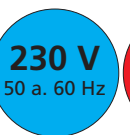
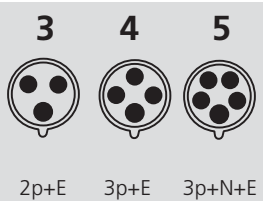
Receptacles

switched, with mechanical
DUO interlock

▲ IP 44

Product group 1085, type 7276 shown.

DUO receptacles with switch and auxiliary contacts
available on request.



Amp.	Poles	Part numbers												Qty.	g/each
		3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h		
	16	3	7010				7002							1	1050
	16	4					5099		5100		5101			1	1100
	16	5					5102		5103					1	1120
	32	3	5743				5696							1	1170
	32	4					5104		5105		5106			1	1200
	32	5					5107		5108					1	1220
	63	3	6569				6571							3	2450
	63	4					5955		5956		5957			3	2490
	63	5							5959					3	2630
	16	3					5114							4	910
	16	4							5117		5118			4	985
	16	5							5120					4	1030
	32	3					5121							4	1050
	32	4							5124		5125			4	1080
	32	5							5127					4	1170
	16	3	7273				7274							4	565
	16	4							7275					4	591
	16	5							7276					4	650

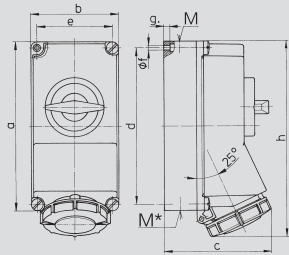
MENNEKES CEE receptacles, switched and interlocked

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

MENNEKES CEE receptacles with DUO interlock can be padlocked.



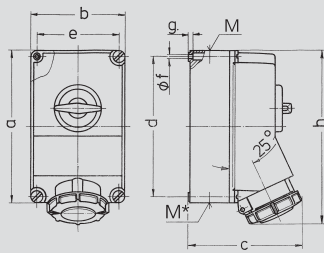
Drawing	Amp.	16			32		
1 MB 207	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	144	146	147	152	152	153
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	252	255	259	268	268	274
	M	1xM25 and 1xM32			1xM25 and 1xM32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

switched, with mechanical **DUO** interlock

IP 67

Product group 1074, type 5603 shown.



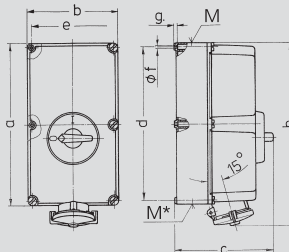
Drawing	Amp.	63		
1 MB 180	Poles	3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	196	196	196
	d	240	240	240
	e	140	140	140
	f	8,1	8,1	8,1
	g	8	8	8
	h	300	300	300
	M	40	40	40
	M*	40	40	40
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25

Receptacles

with **SoftCONTACT** switched, with mechanical **DUO** interlock

IP 67

Product group 1074, type 5113 shown.



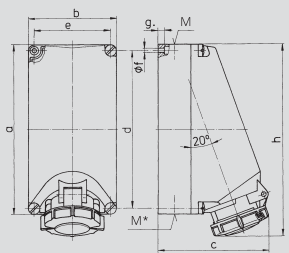
Drawing	Amp.	125		
1 MB 177	Poles	3	4	5
Dim. in mm	a	460	460	460
	b	260	260	260
	c	283	283	283
	d	434	434	434
	e	234	234	234
	f	11	11	11
	g	9	9	9
	h	525	525	525
	M	63	63	63
	M*	2x63	2x63	2x63
Max. cable diam. (mm)		44	44	44
Terminal for cond. cross section (mm²) min.-max.		25 —70	25 —70	25 —70

Receptacles

with **TorsionSpringCONTACT** switched, with mechanical **DUO** interlock

IP 67

Product group 1074, type 5692 shown.



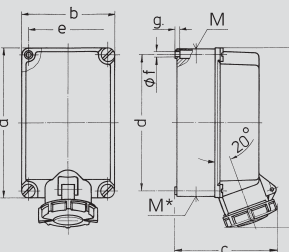
Drawing	Amp.	16			32		
1 MB 206	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	144	150	152	155	155	159
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	249	251	253	255	255	259
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

switched, with mechanical **DODSCH** interlock

IP 55

Product group 1087, type 7432 shown.



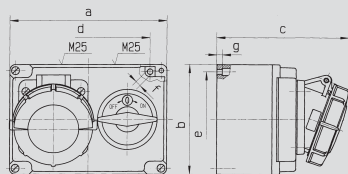
Drawing	Amp.	63		
1 MB 178	Poles	4	5	
Dim. in mm	a	264	264	
	b	163	163	
	c	193	193	
	d	240	240	
	e	140	140	
	f	8,1	8,1	
	g	8	8	
	h	334	334	
	M	2x40	2x40	
	M*	2x40	2x40	
Max. cable diam. (mm)		27	27	
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	

Receptacles

switched, with mechanical **DODSCH** interlock

IP 55

Product group 1079, type 7444 shown.



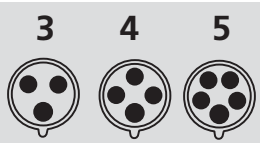
Drawing	Amp.	16		
1 MB 396	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	136	139	143
	d	136	136	136
	e	104	104	104
	f	6,1	6,1	6,1
	g	6	6	6
	M	25	25	25
Max. cable diam. (mm)		18	18	18
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4

Receptacles

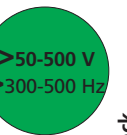
switched, with mechanical **DUO** interlock

IP 67

Product group 1084, type 7280 shown.



2p+E 3p+E 3p+N+E



Amp.	Poles	Part numbers																		Qty.	Weight
		3-pole 4h	4-pole 4h	5-pole 4h	3-pole 6h	4-pole 9h	5-pole 9h	3-pole 9h	4-pole 6h	5-pole 6h	3-pole 7h	4-pole 7h	5-pole 7h	3-pole 10h	4-pole 10h	5-pole 10h	3-pole 2h	4-pole 2h	5-pole 2h		



16	3	7011	7012											1	1060
16	4		5599	5600				5601						1	1100
16	5		5602	5603										1	1150
32	3	5924	5793											1	1165
32	4		5604	5605				5606						1	1180
32	5		5607	5608										1	1230



63	3	5925	5911											3	2500
63	4		5109	5110				5111						3	2530
63	5		5112	5113				5759						3	2660



125	3		7000											1	7400
125	4		5887	5691				5690						1	7450
125	5		5888	5692										1	8168



16	3		7438											4	985
16	4			7429				7430						4	995
16	5			7432										4	1040
32	3		7433											4	1060
32	4			7436				7437						4	1133
32	5			7439										4	1180



63	4			7441				7442						3	2459
63	5			7444										3	2495



16	3	7277	7278											4	586
16	4		7381	7279										4	611
16	5			7280										4	657

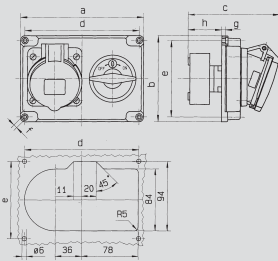
MENNEKES CEE receptacles, switched and interlocked

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

MENNEKES CEE receptacles with DUO interlock can be padlocked.

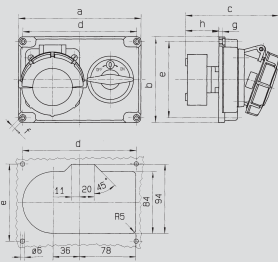


Drawing	Amp.	16		
1 MB 397	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	120	125	127
	d	158	158	158
	e	105	105	105
	f	9	9	9
	g.	5	5	5
	h	47	47	47
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4

Panel mounted receptacles
switched, with mechanical
DUO interlock

▲ IP 44

Product group 1130, type 7268 shown.



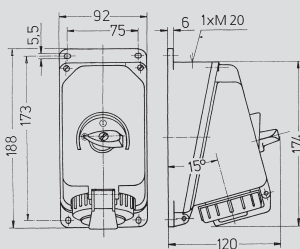
Drawing	Amp.	16		
1 MB 395	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	123	125	130
	d	158	158	158
	e	105	105	105
	f	9	9	9
	g.	5	5	5
	h	47	47	47
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4

Panel mounted receptacles
switched, with mechanical
DUO interlock

●● IP 67

Product group 1131, type 7272 shown.

MENNEKES SCHUKO® receptacles, switched and interlocked

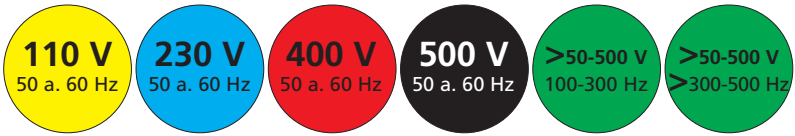
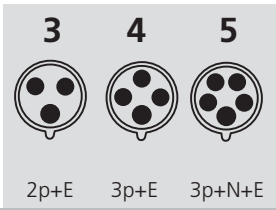


Drawing 1 MB 287
Dim. in mm

SCHUKO® receptacles
switched and interlocked,
with circuit breaker 16A,
to DIN 49442

●● IP 67

Product group 1919, type 10801 shown.



Amp.	Poles	Part numbers																		Std. Pack.	Weight
		3-pole	4-pole	5-pole	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole		
		4h	4h	4h	6h	9h	9h	9h	6h	6h	7h	7h	7h	10h	10h	10h	2h	2h	2h		



16	3	7265	7266																	4	383
16	4								7267											4	406
16	5								7268											4	432



16	3	7269	7270																	4	404
16	4		7383						7271											4	430
16	5								7272											4	469



Part number										Qty.	g/each
16A, 230V, 2p+E	10801									4	642

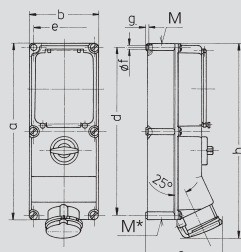
MENNEKES CEE receptacles, switched and interlocked, fused

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

MENNEKES CEE receptacles with DUO interlock can be padlocked.



Drawing	Amp.	16			32			63		
1 MB 208	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	180	180
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	195	195	195	195
	d	347	347	347	347	347	440	440	160	160
	e	117	117	117	117	117	160	160	8,1	8,1
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	502	502	502	502
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25	6 —25	6 —25	6 —25

Receptacles

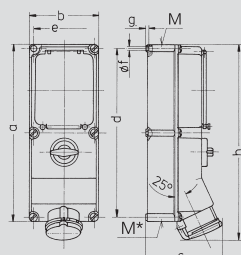
switched, with mechanical **DUO** interlock

and DIN rail

63A: **SoftCONTACT**



Product group 1091, type 6062 shown.



Drawing	Amp.	16			32			63		
1 MB 208	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	180	180
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	195	195	195	195
	d	347	347	347	347	347	440	440	160	160
	e	117	117	117	117	117	160	160	8,1	8,1
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	502	502	502	502
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25	6 —25	6 —25	6 —25

Receptacles

switched, with mechanical **DUO** interlock

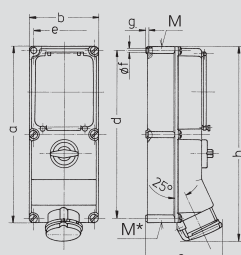
and D 01 fuse socket for 16A

and D 02 for 32A and 63A

63A: **SoftCONTACT**



Product group 1092, type 6066 shown.



Drawing	Amp.	16			32			63		
1 MB 208	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	180	180
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	195	195	195	195
	d	347	347	347	347	347	440	440	160	160
	e	117	117	117	117	117	160	160	8,1	8,1
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	502	502	502	502
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25	6 —25	6 —25	6 —25

Receptacles

switched, with mechanical **DUO** interlock

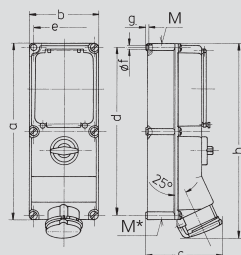
and D II (E 27) fuse socket for 16A and

D III (E 33) for 32A and 63A

63A: **SoftCONTACT**



Product group 1093, type 6071 shown.



Drawing	Amp.	16			32			63		
1 MB 208	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	180	180
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	195	195	195	195
	d	347	347	347	347	347	440	440	160	160
	e	117	117	117	117	117	160	160	8,1	8,1
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	502	502	502	502
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25	6 —25	6 —25	6 —25

Receptacles

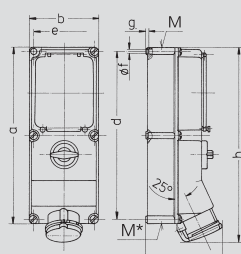
switched, with mechanical **DUO** interlock

and circuit breaker, K-characteristic

63A: **SoftCONTACT**



Product group 1124, type 7222 shown.



Drawing	Amp.	16			32			63		
1 MB 208	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	180	180
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	195	195	195	195
	d	347	347	347	347	347	440	440	160	160
	e	117	117	117	117	117	160	160	8,1	8,1
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	502	502	502	502
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25	6 —25	6 —25	6 —25

Receptacles

switched, with mechanical **DUO** interlock

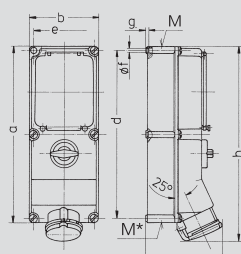
and RCD $I_{\Delta N} = 0,03A$,

63A: **SoftCONTACT**

(other leakage current ratings on request)



Product group 1125, type 7228 shown.



Drawing	Amp.	16			32			63		
1 MB 208	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	180	180
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	195	195	195	195
	d	347	347	347	347	347	440	440	160	160
	e	117	117	117	117	117	160	160	8,1	8,1
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	502	502	502	502
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25	6 —25	6 —25	6 —25

Receptacles

switched, with mechanical **DUO** interlock,

circuit breaker with K-characteristics

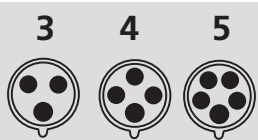
and RCD $I_{\Delta N} = 0,03A$

63A: **SoftCONTACT**

(other leakage current ratings on request)



Product group 1126, type 7235 shown.



2p+E 3p+E 3p+N+E

110 V
50 a. 60 Hz

230 V
50 a. 60 Hz

400 V
50 a. 60 Hz

500 V
50 a. 60 Hz

>50-500 V
100-300 Hz

>50-500 V
>300-500 Hz

Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h 10h 10h 10h 2h 2h 2h

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	7213							2	1809
16	4		5610						2	2000
16	5		5613						2	2050
32	4		5615						2	2070
32	5		5618						2	2140
63	4		6059						1	3900
63	5		6062						1	4050



16	3	7214							2	2012
16	4		5620						2	2200
16	5		5623						2	2250
32	4		5625						2	2270
32	5		5628						2	2340
63	4		6064						1	4100
63	5		6066						1	4250



16	3	7215							2	2300
16	4		5203	5204					2	2350
16	5		5206						2	2400
32	4		5208	5209					2	2420
32	5		5211						2	2490
63	4		6068	6069					1	4400
63	5		6071						1	4500



16	3	7216							2	2061
16	4		7217						2	2400
16	5		7218						2	2450
32	4		7219						2	2480
32	5		7220						2	2550
63	4		7221						1	4350
63	5		7222						1	4500



16	3	7223							2	2150
16	4		7224						2	2320
16	5		7318						2	2370
32	4		7225						2	2420
32	5		7226						2	2490
63	4		7227						1	4250
63	5		7228						1	4450



16	3	7229							2	2290
16	4		7230						2	2720
16	5		7231						2	2770
32	4		7232						2	2830
32	5		7233						2	2900
63	4		7234						1	4802
63	5		7235						1	5069

4

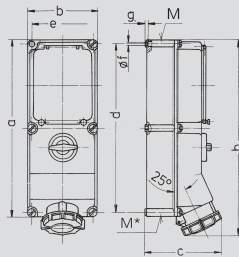
MENNEKES CEE receptacles, switched and interlocked, fused

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.

MENNEKES CEE receptacles with DUO interlock can be padlocked.



Drawing	Amp.	16			32			63		
1 MB 181	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	460	460
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	209	209	209	209
	d	347	347	347	347	347	440	440	440	440
	e	117	117	117	117	117	160	160	160	160
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	525	525	525	525
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	6	6	6	6
		-4	-4	-4	-10	-10	-25	-25	-25	-25

Receptacles

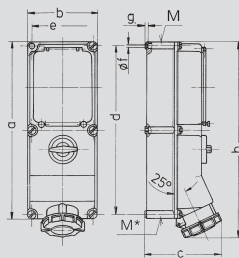
switched, with mechanical **DUO** interlock

and DIN rail

63A: **SoftCONTACT**

☼ IP 67

Product group 1089, type 5643 shown.



Drawing	Amp.	16			32			63		
1 MB 181	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	460	460
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	209	209	209	209
	d	347	347	347	347	347	440	440	440	440
	e	117	117	117	117	117	160	160	160	160
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	525	525	525	525
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	6	6	6	6
		-4	-4	-4	-10	-10	-25	-25	-25	-25

Receptacles

switched, with mechanical **DUO** interlock

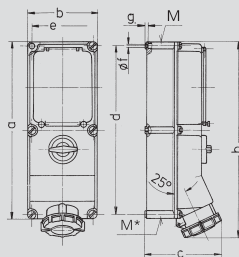
and 3 pole D II (E 27) fuse socket for 16A and D III (E 33) for 32A and 63A

63A: **SoftCONTACT**

(63A also available with NH 00)

☼ IP 67

Product group 1083, type 5226 shown.



Drawing	Amp.	16			32			63		
1 MB 181	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	460	460
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	209	209	209	209
	d	347	347	347	347	347	440	440	440	440
	e	117	117	117	117	117	160	160	160	160
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	525	525	525	525
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	6	6	6	6
		-4	-4	-4	-10	-10	-25	-25	-25	-25

Receptacles

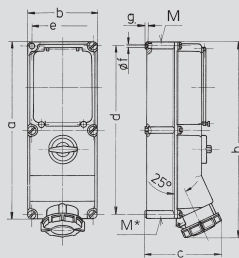
switched, with mechanical **DUO** interlock

and circuit breaker, K-characteristics

63A: **SoftCONTACT**

☼ IP 67

Product group 1127, type 7244 shown.



Drawing	Amp.	16			32			63		
1 MB 181	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	460	460
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	209	209	209	209
	d	347	347	347	347	347	440	440	440	440
	e	117	117	117	117	117	160	160	160	160
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1	8,1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	525	525	525	525
	M	32/40	32/40	32/40	32/40	32/40	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	6	6	6	6
		-4	-4	-4	-10	-10	-25	-25	-25	-25

Receptacles

switched, with mechanical **DUO** interlock

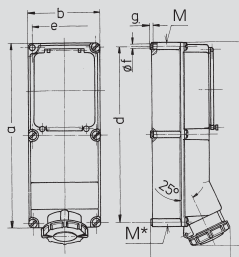
and RCD $I_{\Delta N} = 0,03 \text{ A}$

63A: **SoftCONTACT**

(other leakage current ratings on request)

☼ IP 67

Product group 1128, type 7251 shown.



Drawing	Amp.	63	
1 MB 183	Poles	4	5
Dim. in mm	a	460	460
	b	180	180
	c	209	209
	d	440	440
	e	160	160
	f	8,1	8,1
	g	8	8
	h	525	525
	M	40	40
	M*	2x40	2x40
Max. cable diam. (mm)		27	27
Terminal for cond. cross section (mm²) min.-max.		6	6
		-25	-25

Receptacles

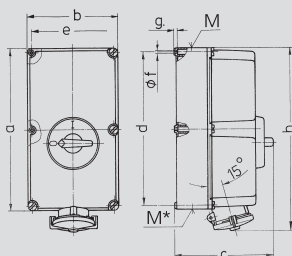
switched, with mechanical **DODSCH** interlock

and 3 pole fuse socket D III (E 33)

(also available with NH 00)

IP 55

Product group 1182, type 7452 shown.



Drawing	Amp.	125		
1 MB 177	Poles	3	4	5
Dim. in mm	a	460	460	460
	b	260	260	260
	c	283	283	283
	d	434	434	434
	e	234	234	234
	f	11	11	11
	g	9	9	9
	h	525	525	525
	M	63	63	63
	M*	2x63	2x63	2x63
Max. cable diam. (mm)		44	44	44
Terminal for cond. cross section (mm²) min.-max.		25	25	25
		-70	-70	-70

Receptacles

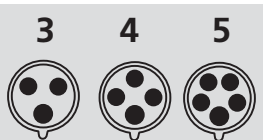
with **TorsionSpringCONTACT**

switched, with mechanical **DUO** interlock

and 3 pole fuse socket NH 00 (upon request with provision for an additional padlock)

☼ IP 67

Product group 1083, type 5695 shown.



2p+E 3p+E 3p+N+E

110 V
50 a. 60 Hz

230 V
50 a. 60 Hz

400 V
50 a. 60 Hz

500 V
50 a. 60 Hz

>50-500 V
100-300 Hz

>50-500 V
>300-500 Hz

Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	7050																	2	2000
16	4																		2	2030
16	5																		2	2080
32	4																		2	2100
32	5																		2	2170
63	4																		1	3950
63	5																		1	4100



16	3	7237																	2	2100
16	4																		2	2150
16	5																		2	2200
32	4																		2	2300
32	5																		2	2370
63	4																		1	4450
63	5																		1	4550



16	3	7238																	2	2410
16	4																		2	2430
16	5																		2	2480
32	4																		2	2510
32	5																		2	2580
63	4																		1	4298
63	5																		1	4350



16	3	7245																	2	2180
16	4																		2	2350
16	5																		2	2400
32	4																		2	2450
32	5																		2	2520
63	4																		1	4412
63	5																		1	4450



63	4																		1	4150
63	5																		1	4250



125	4																		1	7980
125	5																		1	8250







4

MENNEKES CEE receptacles, SoftCONTACT, electrically interlocked, fused

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Other voltages and frequencies available on request.

Circuit diagram for electrical interlock and description: see product information sheets in this chapter.

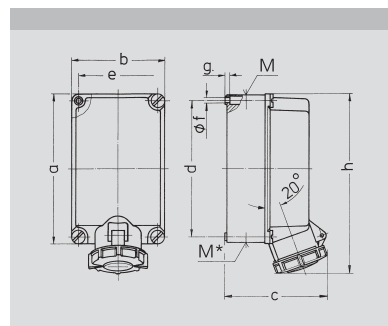
	<table> <tr> <th>Drawing</th><th>Amp.</th><th>63</th></tr> <tr> <th>1 MB 178</th><th>Poles</th><th>4 5</th></tr> <tr> <td>Dim. in mm</td><td>a</td><td>264 264</td></tr> <tr> <td></td><td>b</td><td>163 163</td></tr> <tr> <td></td><td>c</td><td>193 193</td></tr> <tr> <td></td><td>d</td><td>240 240</td></tr> <tr> <td></td><td>e</td><td>140 140</td></tr> <tr> <td></td><td>f</td><td>8,1 8,1</td></tr> <tr> <td></td><td>g</td><td>8 8</td></tr> <tr> <td></td><td>h</td><td>334 334</td></tr> <tr> <td></td><td>M</td><td>2x40 2x40</td></tr> <tr> <td></td><td>M*</td><td>2x40 2x40</td></tr> <tr> <td>Max. cable diam. (mm)</td><td></td><td>27 27</td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>6 6</td></tr> <tr> <td></td><td></td><td>—25 —25</td></tr> </table>	Drawing	Amp.	63	1 MB 178	Poles	4 5	Dim. in mm	a	264 264		b	163 163		c	193 193		d	240 240		e	140 140		f	8,1 8,1		g	8 8		h	334 334		M	2x40 2x40		M*	2x40 2x40	Max. cable diam. (mm)		27 27	Terminal for cond. cross section (mm²) min.-max.		6 6			—25 —25	<p>Receptacles with SoftCONTACT contactor and electrical interlock</p> <p>☹ IP 67 Product group 1078, type 7019 shown.</p>
Drawing	Amp.	63																																													
1 MB 178	Poles	4 5																																													
Dim. in mm	a	264 264																																													
	b	163 163																																													
	c	193 193																																													
	d	240 240																																													
	e	140 140																																													
	f	8,1 8,1																																													
	g	8 8																																													
	h	334 334																																													
	M	2x40 2x40																																													
	M*	2x40 2x40																																													
Max. cable diam. (mm)		27 27																																													
Terminal for cond. cross section (mm²) min.-max.		6 6																																													
		—25 —25																																													
	<table> <tr> <th>Drawing</th><th>Amp.</th><th>125</th></tr> <tr> <th>1 MB 163</th><th>Poles</th><th>4 5</th></tr> <tr> <td>Dim. in mm</td><td>a</td><td>460 460</td></tr> <tr> <td></td><td>b</td><td>260 260</td></tr> <tr> <td></td><td>c</td><td>236 236</td></tr> <tr> <td></td><td>d</td><td>434 434</td></tr> <tr> <td></td><td>e</td><td>234 234</td></tr> <tr> <td></td><td>f</td><td>11 11</td></tr> <tr> <td></td><td>g</td><td>9 9</td></tr> <tr> <td></td><td>h</td><td>525 525</td></tr> <tr> <td></td><td>M</td><td>63 63</td></tr> <tr> <td></td><td>M*</td><td>2x63 2x63</td></tr> <tr> <td>Max. cable diam. (mm)</td><td></td><td>44 44</td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>25 25</td></tr> <tr> <td></td><td></td><td>—70 —70</td></tr> </table>	Drawing	Amp.	125	1 MB 163	Poles	4 5	Dim. in mm	a	460 460		b	260 260		c	236 236		d	434 434		e	234 234		f	11 11		g	9 9		h	525 525		M	63 63		M*	2x63 2x63	Max. cable diam. (mm)		44 44	Terminal for cond. cross section (mm²) min.-max.		25 25			—70 —70	<p>Receptacles with TorsionSpringCONTACT contactor and electrical interlock</p> <p>☹ IP 67 Product group 1078, type 7026 shown.</p>
Drawing	Amp.	125																																													
1 MB 163	Poles	4 5																																													
Dim. in mm	a	460 460																																													
	b	260 260																																													
	c	236 236																																													
	d	434 434																																													
	e	234 234																																													
	f	11 11																																													
	g	9 9																																													
	h	525 525																																													
	M	63 63																																													
	M*	2x63 2x63																																													
Max. cable diam. (mm)		44 44																																													
Terminal for cond. cross section (mm²) min.-max.		25 25																																													
		—70 —70																																													
	<table> <tr> <th>Drawing</th><th>Amp.</th><th>63</th></tr> <tr> <th>1 MB 183</th><th>Poles</th><th>4 5</th></tr> <tr> <td>Dim. in mm</td><td>a</td><td>460 460</td></tr> <tr> <td></td><td>b</td><td>180 180</td></tr> <tr> <td></td><td>c</td><td>209 209</td></tr> <tr> <td></td><td>d</td><td>440 440</td></tr> <tr> <td></td><td>e</td><td>160 160</td></tr> <tr> <td></td><td>f</td><td>8,1 8,1</td></tr> <tr> <td></td><td>g</td><td>8 8</td></tr> <tr> <td></td><td>h</td><td>525 525</td></tr> <tr> <td></td><td>M</td><td>40 40</td></tr> <tr> <td></td><td>M*</td><td>2x40 2x40</td></tr> <tr> <td>Max. cable diam. (mm)</td><td></td><td>27 27</td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>6 6</td></tr> <tr> <td></td><td></td><td>—25 —25</td></tr> </table>	Drawing	Amp.	63	1 MB 183	Poles	4 5	Dim. in mm	a	460 460		b	180 180		c	209 209		d	440 440		e	160 160		f	8,1 8,1		g	8 8		h	525 525		M	40 40		M*	2x40 2x40	Max. cable diam. (mm)		27 27	Terminal for cond. cross section (mm²) min.-max.		6 6			—25 —25	<p>Receptacles with SoftCONTACT contactor and electrical interlock, 3 pole fuse socket D III (E 33)</p> <p>☹ IP 67 Product group 1088, type 7033 shown.</p>
Drawing	Amp.	63																																													
1 MB 183	Poles	4 5																																													
Dim. in mm	a	460 460																																													
	b	180 180																																													
	c	209 209																																													
	d	440 440																																													
	e	160 160																																													
	f	8,1 8,1																																													
	g	8 8																																													
	h	525 525																																													
	M	40 40																																													
	M*	2x40 2x40																																													
Max. cable diam. (mm)		27 27																																													
Terminal for cond. cross section (mm²) min.-max.		6 6																																													
		—25 —25																																													
	<table> <tr> <th>Drawing</th><th>Amp.</th><th>125</th></tr> <tr> <th>1 MB 163</th><th>Poles</th><th>4 5</th></tr> <tr> <td>Dim. in mm</td><td>a</td><td>460 460</td></tr> <tr> <td></td><td>b</td><td>260 260</td></tr> <tr> <td></td><td>c</td><td>236 236</td></tr> <tr> <td></td><td>d</td><td>434 434</td></tr> <tr> <td></td><td>e</td><td>234 234</td></tr> <tr> <td></td><td>f</td><td>11 11</td></tr> <tr> <td></td><td>g</td><td>9 9</td></tr> <tr> <td></td><td>h</td><td>525 525</td></tr> <tr> <td></td><td>M</td><td>63 63</td></tr> <tr> <td></td><td>M*</td><td>2x63 2x63</td></tr> <tr> <td>Max. cable diam. (mm)</td><td></td><td>44 44</td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>25 25</td></tr> <tr> <td></td><td></td><td>—70 —70</td></tr> </table>	Drawing	Amp.	125	1 MB 163	Poles	4 5	Dim. in mm	a	460 460		b	260 260		c	236 236		d	434 434		e	234 234		f	11 11		g	9 9		h	525 525		M	63 63		M*	2x63 2x63	Max. cable diam. (mm)		44 44	Terminal for cond. cross section (mm²) min.-max.		25 25			—70 —70	<p>Receptacles with TorsionSpringCONTACT contactor and electrical interlock, 3 pole fuse socket NH 00</p> <p>☹ IP 67 Product group 1088, type 7040 shown.</p>
Drawing	Amp.	125																																													
1 MB 163	Poles	4 5																																													
Dim. in mm	a	460 460																																													
	b	260 260																																													
	c	236 236																																													
	d	434 434																																													
	e	234 234																																													
	f	11 11																																													
	g	9 9																																													
	h	525 525																																													
	M	63 63																																													
	M*	2x63 2x63																																													
Max. cable diam. (mm)		44 44																																													
Terminal for cond. cross section (mm²) min.-max.		25 25																																													
		—70 —70																																													

<div>4</div> <div></div> <div>3p+E</div>		<div>5</div> <div></div> <div>3p+N+E</div>		<div>230 V</div> <div>50 a. 60 Hz</div>									<div>400 V</div> <div>50 a. 60 Hz</div>			<div>500 V</div> <div>50 a. 60 Hz</div>			<div>3-pole 4-pole 5-pole</div> <div>6h 9h 9h</div>									<div>3-pole 4-pole 5-pole</div> <div>9h 6h 6h</div>			<div>3-pole 4-pole 5-pole</div> <div>7h 7h 7h</div>			Amp.		Poles		Part numbers	Std. Pack.		Weight	
																												Qty.		g/each												
				63 5									7019															3		3250												
				125 5									7026															1		8600												
				63 5									7033															1		5050												
				125 5									7040															1		8800												

MENNEKES CEE receptacles, SoftCONTACT, PCS-electrically interlocked, fused

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Other voltages and frequencies available on request.

Circuit diagram for electrical interlock and description: see product information sheets in this chapter.

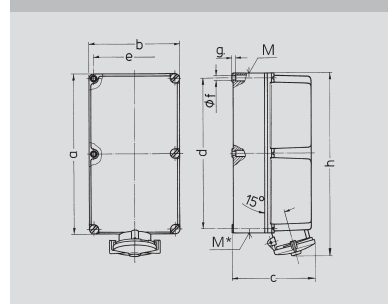


Drawing	Amp.	63
1 MB 178	Poles	4 5
Dim. in mm	a	264 264
	b	163 163
	c	193 193
	d	240 240
	e	140 140
	f	8,1 8,1
	g	8 8
	h	334 334
	M	2x40 2x40
	M*	2x40 2x40
Max. cable diam. (mm)		27 27
Terminal for cond. cross section (mm²) min.-max.		6 6
		—25 —25

Receptacles
with **SoftCONTACT**
contactor and electrical
PCS interlock

IP 67

Product group 1078, type 7024.

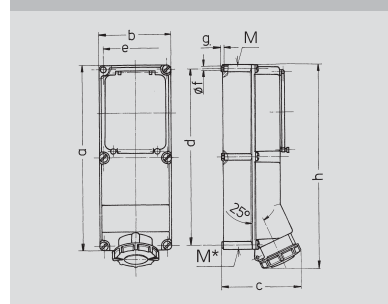


Drawing	Amp.	125
1 MB 163	Poles	4 5
Dim. in mm	a	460 460
	b	260 260
	c	236 236
	d	434 434
	e	234 234
	f	11 11
	g	9 9
	h	525 525
	M	63 63
	M*	2x63 2x63
Max. cable diam. (mm)		44 44
Terminal for cond. cross section (mm²) min.-max.		25 25
		—70 —70

Receptacles
with **TorsionSpringCONTACT**
contactor and electrical
PCS interlock

IP 67

Product group 1078, type 7031 shown.

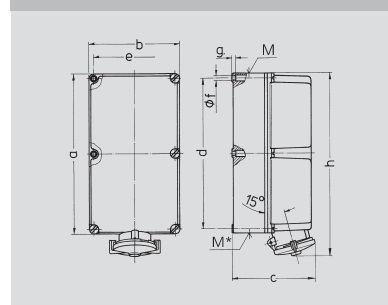


Drawing	Amp.	63
1 MB 183	Poles	4 5
Dim. in mm	a	460 460
	b	180 180
	c	209 209
	d	440 440
	e	160 160
	f	8,1 8,1
	g	8 8
	h	525 525
	M	40 40
	M*	2x40 2x40
Max. cable diam. (mm)		27 27
Terminal for cond. cross section (mm²) min.-max.		6 6
		—25 —25

Receptacles
with **SoftCONTACT**
contactor and electrical
PCS interlock, 3 pole fuse socket
D III (E 33)

IP 67

Product group 1088, type 7038 shown.



Drawing	Amp.	125
1 MB 163	Poles	4 5
Dim. in mm	a	460 460
	b	260 260
	c	236 236
	d	434 434
	e	234 234
	f	11 11
	g	9 9
	h	525 525
	M	63 63
	M*	2x63 2x63
Max. cable diam. (mm)		44 44
Terminal for cond. cross section (mm²) min.-max.		25 25
		—70 —70

Receptacles
with **TorsionSpringCONTACT**
contactor and electrical
PCS interlock, 3 pole fuse socket
NH 00

IP 67

Product group 1088, type 7045 shown.

<div>4</div> <div></div> <div>3p+E</div>		<div>5</div> <div></div> <div>3p+N+E</div>												
				<div>230 V</div> <div>50 a. 60 Hz</div>			<div>400 V</div> <div>50 a. 60 Hz</div>			<div>500 V</div> <div>50 a. 60 Hz</div>				
				3-pole 4-pole 5-pole 6h 9h 9h			3-pole 4-pole 5-pole 9h 6h 6h			3-pole 4-pole 5-pole 7h 7h 7h				
				Amp.	Poles	Part numbers							Std. Pack.	Weight
													Qty.	g/each
	63	4											3	3150
	63	5											3	3250
	125	4				7027		7028		7029			1	8500
	125	5						7031					1	8600
	63	4						7035					1	4865
	63	5						7038					1	5050
	125	4				7041		7042		7043			1	8601
	125	5						7045					1	8800

MENNEKES Switch disconnectors in watertight enclosures

Colour: Grey (RAL 7000).

Enclosure made of **AMELAN**.

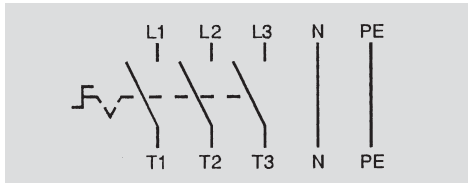
Protection class **IP 67** watertight

2 enclosure sizes

Two different enclosure sizes fitted with switch disconnectors are available.

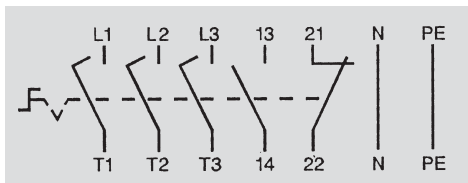
Standard types

All models are equipped as standard with three switched poles, a non-switched neutral and a safety earth contact.



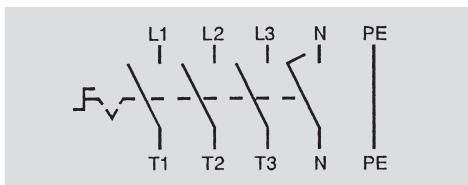
Auxiliary contacts

Disconnectors with additional auxiliary contact (1 x NO and 1 x NC) are marked in blue in the table below.



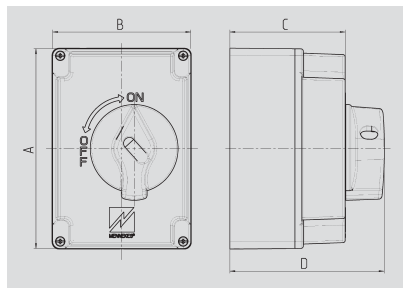
Further variations

e.g., switched neutral or early break / late make NO or NC contacts on request.



Technical features:

- Rigid enclosures
Ample space for wiring
Padlocking facilities
Excellent switching capacity
- Disconnecting property in accordance with EN 60947 (up to 690 V)
- Finger protection in accordance with DIN 57106 / VDE 0106 T.100
- Open terminals and captive terminal screws
- Option for additional contacts



Accessories

Set of external mounting feet (4 pcs.)

For enclosure size 170 x 118 mm

Part no. 41450

For enclosure size 263 x 168.5 mm

Part no. 41449

Dimensions and part numbers

Products with additional auxiliary contact (1 x NO and 1 x NC) are marked in blue.

Rated current	BS Motor rating AC3/440V	Enclosure dimensions in mm				Part no.	Protection class IP
		A	B	C	D		
25A, 3p	7.5 kW	170	118	98	131	52241	IP 67
25A, 3p+HS	7.5 kW	170	118	98	131	52242	IP 67
40A, 3p	18.5 kW	263	168.5	130	161	52243	IP 67
40A, 3p+HS	18.5 kW	263	168.5	130	161	52244	IP 67
80A, 3p	30.0 kW	263	168.5	130	161	52245	IP 67
80A, 3p+HS	30.0 kW	263	168.5	130	161	52246	IP 67

MENNEKES Switch disconnectors in watertight enclosures

Colour: Grey (RAL 7000).

Enclosure made of **AMELAN**.

Protection class **IP 67** watertight

Data sheet				without aux. contact	with aux. contact	without aux. contact	with aux. contact	without aux. contact	with aux. contact
Switch disconnector									
with / without auxiliary contact									
Part no.				52241 / 52242		52243 / 52244		52245 / 52246	
Rated operational voltage U_e									
IEC / EN / VDE / SEV				V	690	690	690	690	690
Main switch: Isol. voltage up to				V	690	690	690	690	690
Rated continuous current I_u				A	25	40	80		
IEC / EN / VDE									
Rated operational current I_e				A	25	40	80		
AC-21A IEC / EN									
Rated operational power at 50 to 60 Hz									
AC-23A IEC / EN / VDE									
3 phase 220-240V				kW	5.5	11	18.5		
3 pole 380-440V				kW	11	22	30		
600-690V				kW	11	18.5	30		
AC-3 IEC / EN / VDE									
3 phase 220-240V				kW	4	7.5	15		
3 pole 380-440V				kW	7.5	18.5	30		
600-690V				kW	7.5	15	30		
Rated breaking capacity									
AC-23A / AC-3 motor switch 220-240V				A	220	350	550		
380-440V				A	220	350	550		
600-690V				A	135	190	285		
Maximum fuse size (gL)				A	35	63	80		
Terminal cross section									
Single / multiple wire min. mm ²					1.0	4	6		
max. mm ²					6	16	35		
Multi-strand wire with sleeve max. mm ²					4	10	25		
Switch disconnector									
with aux. contact				Part no.	52242	52244	52246		
Auxiliary module				V	500	690	690		
Rated operational voltage U_e				A	16	16	16		
Rated continuous current I_u									
Rated operational current I_e									
AC-15 IEC / EN 220-240V				A	2.5/1.5	6/3	6/4		
380-440V									
Terminal cross section									
Single / multiple wire min. mm ²					1.0	1.0	1.0		
Fine-strand wire with sleeve max. mm ²					1.5	2.5	2.5		



■ CEE plugs and receptacles, 7 pole

Receptacles and panel mounted receptacles, 7 pole, 16A and 32A, IP 44 and IP 67

Page 122 to 125



Plugs and connectors, 7 pole, 16A and 32A, IP 44 and IP 67

Page 122 to 125

Wall- and panel mounted inlets, 7 pole, 16A and 32A, IP 44 and IP 67

Page 122 to 125



Receptacles, 7 pole, switched, interlocked, DUO 16A and 32A, IP 44 and IP 67

Page 126 and 127

■ CEE plugs and receptacles for supply networks 600V to 690V, 5h

5

Receptacles, switched, interlocked, DUO, 16A to 125A, IP 44 and IP 67

Receptacles, 16A and 32A, IP 44

Page 128 and 129



Panel mounted receptacles, 16A to 125A, IP 44 and IP 67

Plugs, 16A to 125A, IP 44 und IP 67, Connectors, 16A and 32A, IP 44

Page 130 to 133

■ CEE plugs and receptacles with a special "1h earth" position

Plugs and receptacles with special "1h earth" position, 50V to 500V, IP 44

Page 134 and 135



- Plugs and receptacles 7 pole
- Plugs and receptacles 600V - 690V and “1h earth” position

Plugs and receptacles 7 pole for multifunctional applications.



These 7 pole plugs and receptacles provide solutions where there are multifunctional requirements in industry, farming and commerce.

This number of poles provides solutions in the following fields:

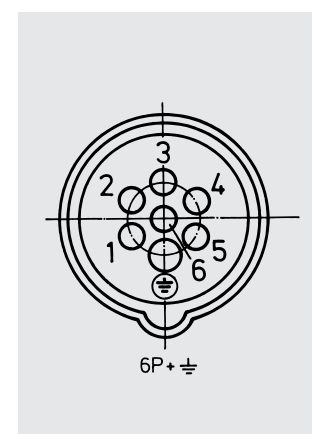
- Star-delta start-up
- Closed loop control
- Open loop control
- Monitoring
- Detection and alarms
- Clearing alarms
- Electrical interlocking

6P+⏚



Position of ground contact tube with respect to polarisation keyway, designated by clockface position for 6P + ⏚, 16A and 32A.

Frequency Hz	Rated operating voltage V	Position of ground contact
50	42	1
100 to 300	above 50	10
over 300 to 500	above 50	2
DC	above 50 to 250	3
	above 250	8
50	110	4
	230	9
	400	6
	500	7
	above 500 to 690	5
50	220 to 240 downstream from isolating transformer	12



Plugs and receptacles 600V to 690V for the industry and for power plants.

In these supply mains acc. to EN 0309 plugs and receptacles in 5h earth position have to be used.

Due to the high electro technical and technically safety requirements for use at 690V, 63A and 125A receptacles have to be operated with an interlocking facility only.

**600-
690 V**
50 a. 60 Hz

5h

3P+⊕

3P+N+⊕



5

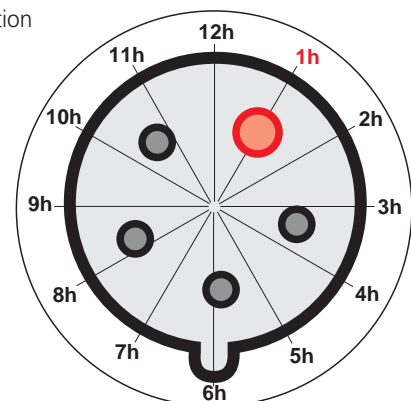
Plugs and receptacles 16A and 32A, 4- and 5-pole must not be locked when used as surface or panel mounted receptacles in accordance with the applicable provisions.

CEE plugs and receptacles with special "1h earth" position.



Ground contact position
"1h earth"

(Viewed from the
front of the
receptacles)



Unique with "1h earth" position

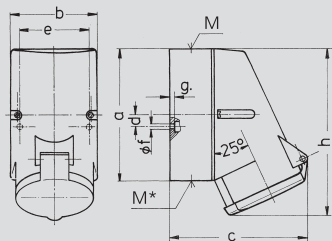
The table in chapter 20 (Information) gives details on the arrangement of the socket outlet with ground contact identifying various voltages and frequencies with clock position according to EN 60309-2:1997.

MENNEKES CEE plugs and receptacles 7 pole, with highly heat resistant contact carriers and nickel-plated contacts

to DIN VDE 0623-1, EN 60309-1, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



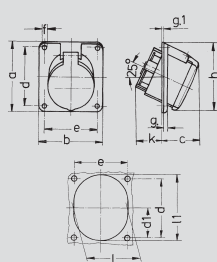
Drawing	Amp.	16	32
1 MB 257	Poles	7	7
Dim. in mm	a	128	128
	b	84	84
	c	124	138
	d	11	11
	e	68	68
	f	5,3	5,3
	g	4	4
	h	145	160
	i	25	32
	j	2 x 25	2 x 25
	k	(blind) to be cut out	(blind) to be cut out
	l	18	25
Max. cable diam. (mm)			
Terminal for cond. cross section (mm²) min.-max.		1,5	2,5
		-4	-10

Receptacles

internal fixing,
one cable entry at the top,
two blind cable entries
(can be cut out) at the bottom,
enclosure can be turned
through 180°

▲ IP 44

Product group 1041, type 734 shown.



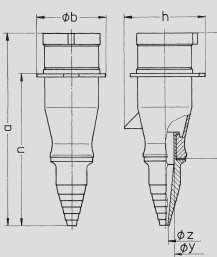
Drawing	Amp.	16	32
1 MB 256	Poles	7	7
Dim. in mm	a	100	100
	b	92	92
	c	48	51
	d	85	85
	e	42,5	45,5
	f	77	77
	g	5,1	5,1
	h	6	6
	i	2	2
	j	100	102
	k	39	58
	l	78	78
	m	87	87
Terminal for cond. cross section (mm²) min.-max.		1,5	2,5
		-4	-10

Panel mounted receptacles

20° inclination

▲ IP 44

Product group 1044, type 1045 shown.



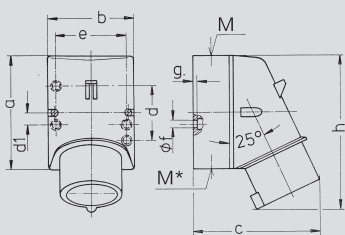
Drawing	Amp.	16	32
2 MB 72	Poles	7	7
Dim. in mm	a	169	214
	b	67	77
	c	73	90
	d	116	141
	e	132	168
	f	16,5	24
	g	7,5	7
	h	1	2,5
Terminal for cond. cross section (mm²) min.-max.		-2,5	-6

Plugs

with grommets

▲ IP 44

Product group 2041, type 742 shown.

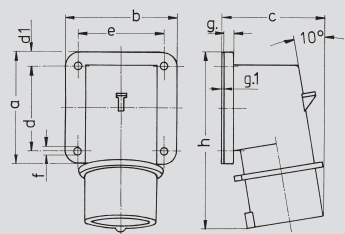


Drawing	Amp.	16	32
2 MB 147	Poles	7	7
Dim. in mm	a	100	128
	b	75	84
	c	110	135
	d	10,5	11
	e	59	68
	f	5	5,3
	g	4	4
	h	135	170
	i	20	32
	j	M 20	2 x M 25
	k	(blind) to be cut out	(blind) to be cut out
	l	15	18
Max. cable diam. (mm)			
Terminal for cond. cross section (mm²) min.-max.		1	2,5
		-2,5	-4

Wall mounted inlets

▲ IP 44

Product group 2045, type 2166 shown.

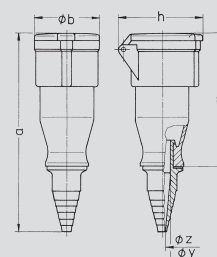


Drawing	Amp.	16	32
2 MB 71	Poles	7	7
Dim. in mm	a	85	75
	b	85	90
	c	79	90
	d	64	45
	e	10	13
	f	64	78
	g	5,5	5,5
	h	6	6
	i	2	2
	j	129	138
	k	1	2,5
Terminal for cond. cross section (mm²) min.-max.		-2,5	-6

Panel mounted inlets

▲ IP 44

Product group 2051, type 1075 shown.



Drawing	Amp.	16	32
3 MB 27	Poles	7	7
Dim. in mm	a	177	225
	b	66	73
	c	85	95
	d	124	150
	e	17,5	24
	f	7,5	10
	g	1	2,5
Terminal for cond. cross section (mm²) min.-max.		-2,5	-6

Connectors

with grommets

▲ IP 44

Product group 3041, type 745 shown.

7



6p+E

230 V

50 a. 60 Hz

400 V

50 a. 60 Hz

500 V

50 a. 60 Hz

Amp.
Poles
 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
 6h 9h 9h 9h 6h 6h 7h 7h 7h

Std. Pack.

Weight

Part numbers

Qty. g/each



16	7	733	734	1035	10	355
32	7	735	736	1040	10	463



16	7	737	738	1045	10	215
32	7	739	740	1050	10	300



16	7	741	742	1055	10	195
32	7	743	744	1060	10	295



16	7		2166		10	260
32	7		2167		10	430



16	7	749	750	1075	10	201
32	7	751	752	1080	10	282



16	7	745	746	1065	10	242
32	7	747	748	1070	10	350

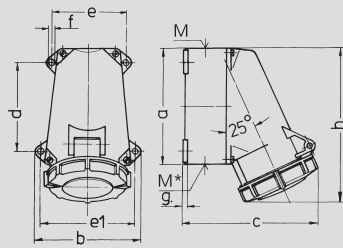
5

MENNEKES CEE plugs and receptacles 7 pole, with highly heat resistant contact carriers and nickel-plated contacts

to DIN VDE 0623-1, EN 60309-1, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies available on request.



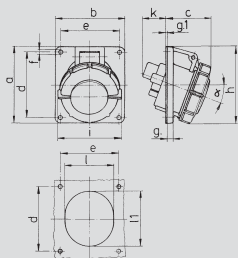
Drawing	Amp.	16	32
1 MB 406	Poles	7	7
Dim. in mm	a	95	120
	b	102	112
	c	129	150
	d	64,2	90,2
	e	77,5	79
	e1	88	98,5
	f	5,5	5,5
	g	5	5
	h	132	160
	M	25	32
	M*	M 25	M 32
		(blind) to be cut out	(blind) to be cut out
Max. cable diam. (mm)		18	25
Terminal for cond. cross section (mm²) min.-max.		1,5	2,5
		—4	—10

Receptacles

4 external fixings,
one cable entry at the top,
two blind cable entries
(can be cut out) at the bottom

IP 67

Product group 1049, type 2648 shown.



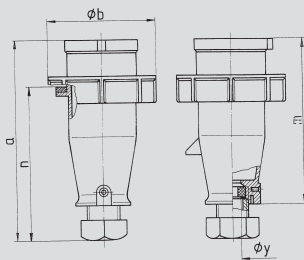
Drawing	Amp.	16	32
1 MB 405	Poles	7	7
Dim. in mm	a	100	100
	b	92	92
	c	62	66
	d	85	85
	e	77	77
	f	5,3	5,3
	g	8	8
	g1	2	2
	h	105	113
	i	96	110
	k	41	52
	l	65	73
	l1	72	85
	α	20°	20°
Terminal for cond. cross section (mm²) min.-max.		1,5	2,5
		—4	—10

Panel mounted receptacles

20° inclination

IP 67

Product group 1048, type 2317 shown.

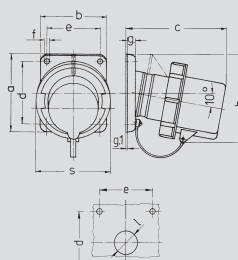


Drawing	Amp.	16	32
2 MB 177	Poles	7	7
Dim. in mm	a	138	166
	b	87	102
	m	116	141
	n	106	126
	y	16	21,5
Terminal for cond. cross section (mm²) min.-max.		1	2,5
		—2,5	—6

Plugs

IP 67

Product group 2049, type 2213 shown.



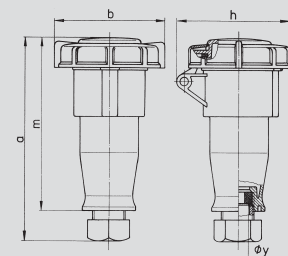
Drawing	Amp.	16	32
2 MB 203	Poles	7	7
Dim. in mm	a	85	85
	b	85	85
	c	132	137
	d	70	70
	e	70	70
	f	6,3	6,3
	g	11	11
	g1	2	2
	h	107	111
	s	86	102
	t	30	30
Terminal for cond. cross section (mm²) min.-max.		1	2,5
		—2,5	—6

Panel mounted inlets

with protective cap

IP 67

Product group 2067, type 3914 shown.

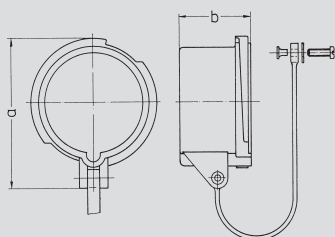


Drawing	Amp.	16	32
3 MB 55	Poles	7	7
Dim. in mm	a	149	181
	b	96	110
	h	95	105
	m	131	158
	y	16	21,5
Terminal for cond. cross section (mm²) min.-max.		1	2,5
		—2,5	—6

Connectors

IP 67

Product group 3049, type 2255 shown.



Drawing	Amp.	16	32
2 MB 204	Poles	7	7
Dim. in mm	a	86	99
	b	42	52

Protective caps

for watertight plugs and
panel mounted inlets

IP 67

Product group 8276, type 40786 shown.

7



6p+E

Amp.
Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
6h 9h 9h 9h 6h 6h 7h 7h 7h

Std. Pack.

Weight

Part numbers

Qty. g/each



16	7	3240	2746	3262	10	330
32	7	2818	2648	2782	10	480



16	7	2883	2459	2296	10	230
32	7		2317	2212	10	330



16	7	3776	3777	3913	10	245
32	7	2405	2324	2213	10	290



16	7		3914		10	310
32	7		3915		10	325



16	7	3783	3916	3784	10	270
32	7	2406	2255	2460	10	350



Amp.	Poles	Part no.
16	7	40785
32	7	40786

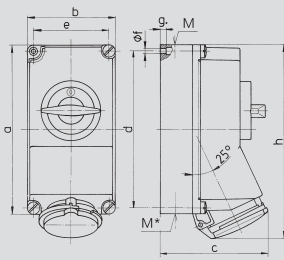
5

MENNEKES CEE plugs and receptacles, switched, interlocked, 7 pole, with highly heat resistant contact carriers and nickel-plated contacts

to DIN VDE 0623-1, EN 60309-1, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**. Other voltages and frequencies available on request.

MENNEKES CEE receptacles with DUO interlock can be padlocked.



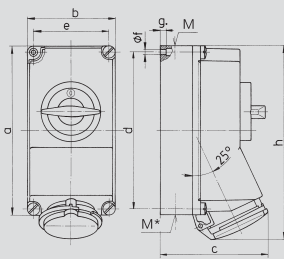
Drawing	Amp.	16	32
1 MB 383	Poles	7	7
Dim. in mm	a	225	225
	b	118	118
	c	141	146
	d	208	208
	e	101	101
	f	6,3	6,3
	g	8	8
	h	254	264
M		1x32 and 1x25	1x32 and 1x25
M*		2x25	2x25
Max. cable diam. (mm)		25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	2,5 —10

Receptacles

switched,
with mechanical **DUO** interlock,
3 pole switch,
can be padlocked

⚠ IP 44

Product group 1075, type 5536 shown.



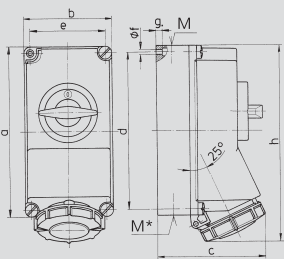
Drawing	Amp.	16	32
1 MB 383	Poles	7	7
Dim. in mm	a	225	225
	b	118	118
	c	141	146
	d	208	208
	e	101	101
	f	6,3	6,3
	g	8	8
	h	254	264
M		1x32 and 1x25	1x32 and 1x25
M*		2x25	2x25
Max. cable diam. (mm)		25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	2,5 —10

Receptacles

switched,
with mechanical **DUO** interlock,
6 pole switch with 2 auxiliary contacts
(1 NO and 1 NC),
can be padlocked

⚠ IP 44

Product group 1075, type 7304 shown.



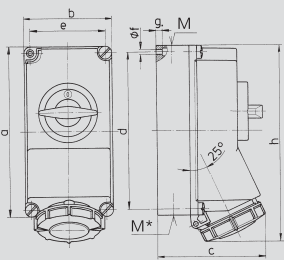
Drawing	Amp.	16	32
1 MB 382	Poles	7	7
Dim. in mm	a	225	225
	b	118	118
	c	147	153
	d	208	208
	e	101	101
	f	6,3	6,3
	g	8	8
	h	259	274
M		1x25 a. 1x32	1x25 a. 1x32
M*		2x25	2x25
Max. cable diam. (mm)		25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	2,5 —10

Receptacles

switched,
with mechanical **DUO** interlock,
3 pole switch,
can be padlocked

⚠ IP 67

Product group 1074, type 5785 shown.



Drawing	Amp.	16	32
1 MB 382	Poles	7	7
Dim. in mm	a	225	225
	b	118	118
	c	147	153
	d	208	208
	e	101	101
	f	6,3	6,3
	g	8	8
	h	259	274
M		1x25 a. 1x32	1x25 a. 1x32
M*		2x25	2x25
Max. cable diam. (mm)		25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	2,5 —10

Receptacles

switched,
with mechanical **DUO** interlock,
6 pole switch with 2 auxiliary
contacts (1 NO and 1 NC),
can be padlocked

⚠ IP 67

Product group 1074, type 7306 shown.

7



6p+E



3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
9h 6h 6h 7h 7h 7h

Amp.
Poles

Std. Pack.

Weight

Part numbers

Qty. g/each



16 7

5536

1 1200

32 7

7061

1 1300



16 7

7304

7320

1 1439

32 7

7305

5683

1 1580



16 7

5785

1 1200

32 7

6106

1 1369



16 7

7306

1 1396

32 7

7307

1 1753

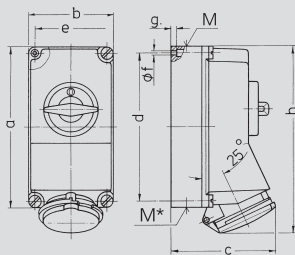
5

MENNEKES CEE receptacles for supply networks 600V to 690V

to DIN VDE 0623, EN 60309-1, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

MENNEKES CEE receptacles with DUO interlock can be padlocked.



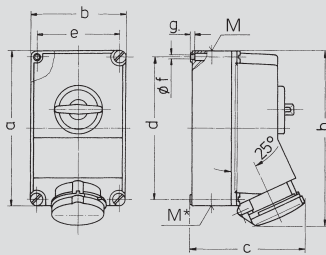
Drawing	Amp.	16			32		
1 MB 174	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25 2x25 2x25			2x25 2x25 2x25		
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min-max.		1,5 1,5 1,5			2,5 2,5 2,5		
		—4 —4 —4			—10 —10 —10		

Receptacles

switched,
with mechanical
DUO interlock,
can be padlocked

▲ IP 44

Product group 1075, type 5663 shown.



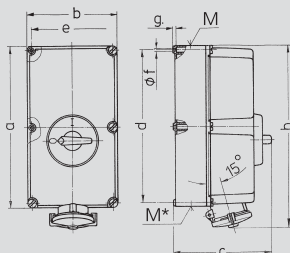
Drawing	Amp.	63		
1 MB 234	Poles	3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	192	192	192
	d	240	240	240
	e	140	140	140
	f	8,1	8,1	8,1
	g	8	8	8
	h	300	300	300
	M	40	40	40
	M*	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27
Terminal for cond. cross section (mm²) min-max.		6 6 6		
		—25 —25 —25		

Receptacles

with **SoftCONTACT**
switched,
with mechanical
DUO interlock,
with highly heat resistant
contact carrier, can be padlocked

▲ IP 44

Product group 1075, type 6580 shown.



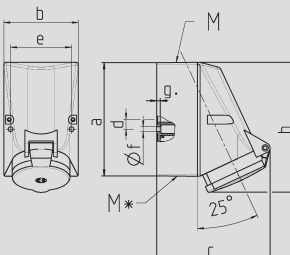
Drawing	Amp.	125		
1 MB 177	Poles	3	4	5
Dim. in mm	a	460	460	460
	b	260	260	260
	c	283	283	283
	d	434	434	434
	e	234	234	234
	f	11	11	11
	g	9	9	9
	h	525	525	525
	M	63	63	63
	M*	2x63	2x63	2x63
Max. cable diam. (mm)		44	44	44
Terminal for cond. cross section (mm²) min-max.		25 25 25		
		—70 —70 —70		

Receptacles

with **TorsionSpringCONTACT**
switched,
with mechanical
DUO interlock,
with highly heat resistant
contact carrier

▲ IP 67

Product group 1074, type 6015 shown.









Drawing	Amp.	16		32		
1 MB 43	Poles	4	5	3	4	5
Dim. in mm	a	128	128	128	128	128
	b	84	84	84	84	84
	c	122	124	136	136	138
	d	11	11	11	11	11
	e	68	68	68	68	68
	f	5,3	5,3	5,3	5,3	5,3
	g	4	4	4	4	4
	h	144	145	158	158	160
	M	25	25	32	32	32
	M*	2x M 25 (blind) to be cut out		2x M 25 (blind) to be cut out		
Max. cable diam. (mm)		18	18	18/25	18/25	18/25
Terminal for cond. cross section (mm²) min-max.		1,5 1,5		2,5 2,5 2,5		
		—4 —4		—10 —10 —10		

Receptacles

internal fixing,
with one cable entry at the top
and two blind cable entries
(can be cut out) at the bottom,
enclosure can be rotated
through 180°

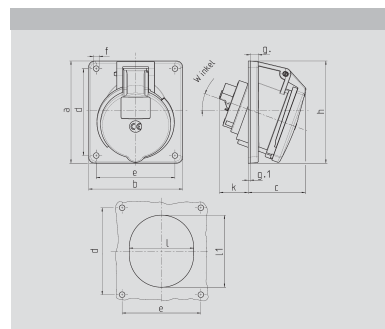
▲ IP 44

Product group 1041, type 2576 shown.

<div> <div>4</div> <div>5</div> </div> <div>   </div> <div> <div>3p+E</div> <div>3p+N+E</div> </div>			<div> <div>600 - 690V</div> <div>50 a. 60 Hz</div> </div> <div> <div>4-pole 5h</div> <div>5-pole 5h</div> </div>			Std. Pack.	Weight
		Amp.	Poles	Part numbers		Qty.	g/each
		16	4	5781		1	1100
		16	5	5771		1	1120
		32	4	5663		1	1170
		32	5	5787		1	1220
		63	4	6580		3	2440
		63	5	6262		3	2660
		125	4	6015		1	7450
		125	5	6077		1	8250
		16	4	3790		10	303
		16	5	2766		10	333
		32	4	2576		10	370
		32	5	2767		10	424

MENNEKES CEE panel mounted receptacles for supply networks 600V to 690V

to DIN VDE 0623, EN 60309-1, colour: electric grey and/or colour code.
Enclosure and insert made of **AMAPLAST**.

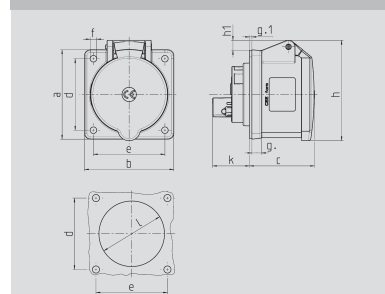


Drawing	Amp.	16			32		
1 MB 260	Poles	3	4	5	3	4	5
Dim. in mm	a	73,5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	58	58	62	62	62
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	7	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	79	100	100	103	103	107
	k	43	32	32	53	53	45
	l	52	55	65	67	67	72
	l1	60	63	72	82	82	85
	α	20°	20°	20°	20°	20°	20°
Terminal for cond. cross section (mm²) min-max.		1,5 — 4	1,5 — 4	1,5 — 4	2,5 — 10	2,5 — 10	2,5 — 10

Panel mounted receptacles 20° inclination



Product group 1044, type 3011 shown.

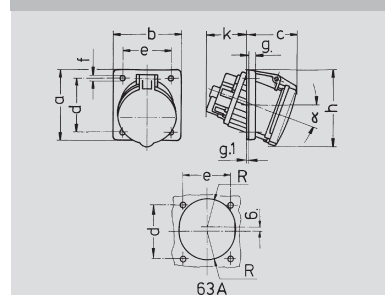


Drawing	Amp.	16			32		
1 MB 247	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	55	64	64	65
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	75	80	85	89	89	95
	h1				11	11	12
	k	31	32	32	39	39	39
	l	43	52	54	58	58	62
Terminal for cond. cross section (mm²) min-max.		1,5 — 4	1,5 — 4	1,5 — 4	2,5 — 10	2,5 — 10	2,5 — 10

Panel mounted receptacles



Product group 1056, type 3066 shown.

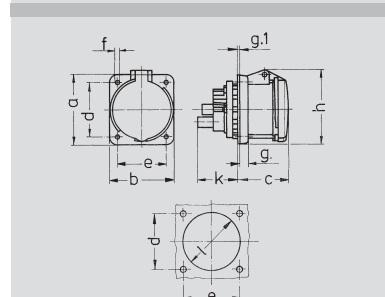


Drawing	Amp.	63		
1 MB 297	Poles	3	4	5
Dim. in mm	a	110	110	110
	b	106	106	106
	c	85	85	85
	d	85	85	85
	e	77	77	77
	f	6,2	6,2	6,2
	g	12	12	12
	g.1	2	2	2
	h	122	122	122
	k	69	69	69
	R	46	46	46
	α	20°	20°	20°
Terminal for cond. cross section (mm²) min-max.		6 — 25	6 — 25	6 — 25

Panel mounted receptacles with **SoftCONTACT** with pilot contact, 20° inclination, with highly heat resistant contact carrier



Product group 1044, type 2761P shown.

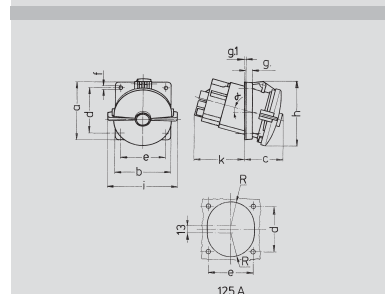


Drawing	Amp.	63		
1 MB 211	Poles	3	4	5
Dim. in mm	a	107	107	107
	b	100	100	100
	c	80	80	80
	d	85	85	85
	e	77	77	77
	f	6	6	6
	g	12	12	12
	g.1	2	2	2
	h	113	113	113
	k	55	55	55
	l	88	88	88
Terminal for cond. cross section (mm²) min-max.		6 — 25	6 — 25	6 — 25

Panel mounted receptacles with **SoftCONTACT** with pilot contact, with highly heat resistant contact carrier



Product group 1056, type 3079P shown.

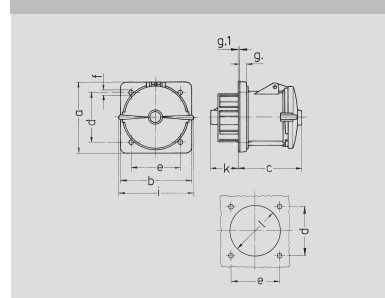


Drawing	Amp.	125	
1 MB 339	Poles	4	5
Dim. in mm	a	114	114
	b	110	110
	c	85	85
	d	90	90
	e	90	90
	f	6,2	6,2
	g	13	13
	g.1	2	2
	h	135	135
	i	135	135
	k	103	103
	R	47	47
	α	15°	15°
Terminal for cond. cross section (mm²) min-max.		25 — 70	25 — 70

Panel mounted receptacles with **TorsionSpringCONTACT** with pilot contact, 15° inclination, with highly heat resistant contact carrier



Product group 1048, type 2203P shown.











Drawing	Amp.	125	
1 MB 258	Poles	4	5
Dim. in mm	a	130	130
	b	130	130
	c	124	124
	d	104	104
	e	104	104
	f	6,5	6,5
	g	18	18
	g.1	2	2
	i	135	135
	k	43	43
	l	95	95
Terminal for cond. cross section (mm²) min-max.		25 — 70	25 — 70

Panel mounted receptacles with **TorsionSpringCONTACT** with pilot contact, with highly heat resistant contact carrier



Product group 1046, type 3663P shown.

<div>4<div></div></div>		<div>5<div></div></div>	<div>600 - 690V<div>50 a. 60 Hz</div></div>					
			Amp.	Poles	4-pole 5h	5-pole 5h	Std. Pack.	Weight
			Part numbers				Qty.	g/each
	16	4			3010		10	177
	16	5			2765		10	185
	32	4			3011		10	239
	32	5			2764		10	270
	16	4			3183		10	145
	16	5			3058		10	164
	32	4			3066		10	207
	32	5			3450		10	227
	63	4			3786P		5	623
	63	5			2761P		5	653
	63	4			3079P		5	669
	63	5			3115P		5	686
	125	4			2203P		5	940
	125	5			2546P		5	1050
	125	4			3663P		5	1190
	125	5			3787P		5	1334

MENNEKES CEE receptacles and connectors for supply networks 600V to 690V

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.
Enclosure and insert made of **AMAPLAST**.

Drawing	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	142	147	147	186	186	180
	b	53	59	67	70	70	77
	h	59	69,4	76	81	81	89,5
	n	105,2	110,5	110,5	141	141	135
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Plugs AM-TOP®
single part body,
cable gland and sealing

Product group 2041, type 2113 shown.

Drawing	Amp. Poles	63		
		3	4	5
Dim. in mm	a	246	246	246
	b	100,5	100,5	100,5
	h	98,7	98,7	98,7
	y	36	36	36
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		—16	—16	—16

Plugs PowerTOP
with highly heat resistant
contact carrier,
frame terminals and
nickel-plated contacts,
gland and external cable grip

Product group 2015, type 3407 shown.

Drawing	Amp. Poles	63			125		
		3	4	5	3	4	5
Dim. in mm	a	246	246	246	293	293	293
	b	114	114	114	131	131	131
	y	36	36	36	50	50	50
Terminal for cond. cross section (mm²) min.-max.		6	6	6	25	25	25
		—16	—16	—16	—50	—50	—50

Plugs PowerTOP
with highly heat resistant
contact carrier,
frame terminals and
nickel-plated contacts,
gland and external cable grip

Product group 2016, type 3260 shown.

Drawing	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	162	165	167	209	209	208
	b	60	68	76	82	82	89
	h	83	92	98	100	100	108
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors AM-TOP®
single part body,
cable gland and sealing

Product group 3041, type 2798 shown.

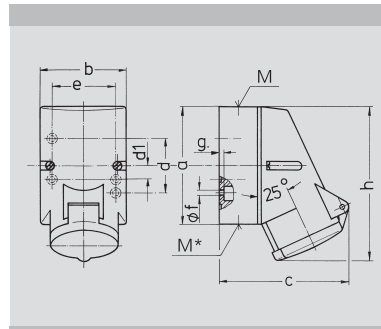
<div>4</div> <div></div> <div>3p+E</div>		<div>5</div> <div></div> <div>3p+N+E</div>		<div>600 - 690V</div> <div>50 a. 60 Hz</div>					
		Amp.	Poles					Std. Pack.	Weight
		Part numbers				Qty.	g/each		
	16	4	2113		10	146			
	16	5	2390		10	166			
	32	4	2114		10	220			
	32	5	2115		10	255			
	63	4	3407		5	658			
	63	5	3660		5	714			
	125	4	3260		5	1225			
	125	5	3363		5	1342			
	16	4	2798		10	180			
	16	5	2768		10	219			
	32	4	2799		10	256			
	32	5	2769		10	300			

MENNEKES CEE plugs and receptacles with special "1h earth" position

Colour: electric grey.

Enclosure and insert made of **AMAPLAST**.

Other designs on request.



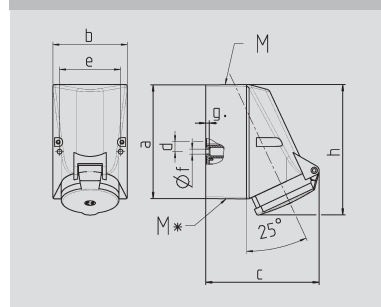
Drawing	Amp.	16		
1 MB 209	Poles	3	4	5
Dim. in mm	a	87	100	100
	b	64	75	75
	c	99	110	113
	d	40	—	—
	d1	—	11	11
	e	50	59	59
	f	4,5	5	5
	g	4	4	4
	h	115	125	128
	M	20	20	20
	M*	M20 (blind) to be cut out		
Max. cable diam. (mm)		15	15	15
Terminal for cond. cross section (mm²) min-max.		1,5 —4	1,5 —4	1,5 —4

Receptacles

internal fixing, one cable entry at the top and one blind entry (can be cut out) at the bottom, enclosure base can be turned through 180° (for 5-pole design)

▲ IP 44

Product group 1040, type 2684 shown.



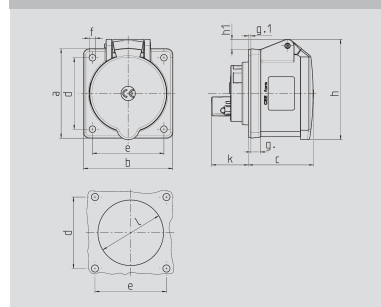
Drawing	Amp.	16			32		
1 MB 43	Poles	4	5		3	4	5
Dim. in mm	a	128	128		128	128	128
	b	84	84		84	84	84
	c	122	124		136	136	138
	d	11	11		11	11	11
	e	68	68		68	68	68
	f	5,3	5,3		5,3	5,3	5,3
	g	4	4		4	4	4
	h	144	145		158	158	160
	M	25	25		32	32	32
	M*	2x M 25 (blind) to be cut out			2x M 25 (blind) to be cut out		
Max. cable diam. (mm)		18	18		18/25	18/25	18/25
Terminal for cond. cross section (mm²) min-max.		1,5 —4	1,5 —4		2,5 —10	2,5 —10	2,5 —10

Receptacles

internal fixing, one cable entry at the top and one blind entry (can be cut out) at the bottom, enclosure base can be turned through 180°, dimensional drawing (1 MB 213) for 63A can be found in chapter 1, page 26

▲ IP 44

Product group 1041, type 2983 shown.



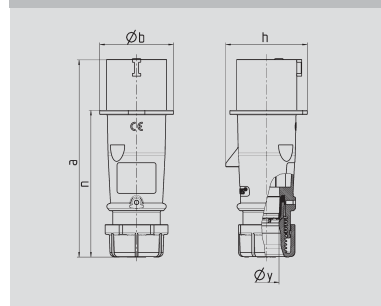
Drawing	Amp.	16			32		
1 MB 247	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	55	64	64	65
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	h	75	80	85	89	89	95
	k	31	32	32	39	39	39
	l	43	52	54	58	58	62
Terminal for cond. cross section (mm²) min-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Panel mounted receptacles

straight

▲ IP 44

Product group 1056, type 2917 shown.



Drawing	Amp.	16			32		
2 MB 217	Poles	3	4	5	3	4	5
Dim. in mm	a	142	147	147	186	186	180
	b	53	59	67	70	70	77
	h	59	69,4	76	81	81	89,5
	n	105,2	110,5	110,5	141	141	135
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min-max.		1 —2,5	1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6

Plugs AM-TOP®

single part body, cable gland and sealing

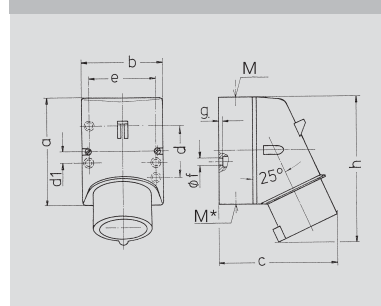
▲ IP 44

63A: **PowerTOP**

dimensional drawing (2 MB 207/2) for 63A can be found in chapter 2, page 68

▲ IP 67

Product group 2141/2016, type 2685 shown.



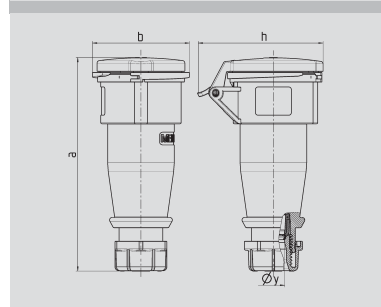
Drawing	Amp.	16			32		
2 MB 32	Poles	3	4	5	3	4	5
Dim. in mm	a	87	100	100	128	128	128
	b	64	75	75	84	84	84
	c	93	106	110	133	133	135
	d	40	—	—	11	11	11
	d1	—	10,5	10,5	68	68	68
	e	50,5	59	59	68	68	68
	f	4,5	5	5	5,3	5,3	5,3
	g	4	4	4	4	4	4
	h	122	133	135	169	169	170
	M	20	20	20	25	25	32
	M*	1 x M 20 (blind) to be cut out			2 x M 25 (blind) to be cut out		
Max. cable diam. (mm)		15	15	15	18/25	18/25	18/25
Terminal for cond. cross section (mm²) min-max.		1 —2,5	1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6

Wall mounted inlets

cable entry facility also from the rear by use of knock outs

▲ IP 44

Product group 2045, type 3230 shown.



Drawing	Amp.	16			32		
3 MB 63	Poles	3	4	5	3	4	5
Dim. in mm	a	162	165	167	209	209	208
	b	60	68	76	82	82	89
	h	83	92	98	100	100	108
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min-max.		1 —2,5	1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6

Connectors AM-TOP®

single part body, cable gland and sealing

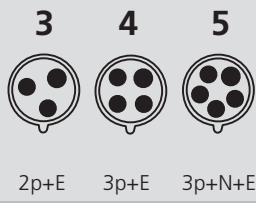
▲ IP 44

63A: **PowerTOP**

dimensional drawing (3 MB 56/2) for 63A can be found in chapter 3, page 90

▲ IP 67

Product group 3141/3016, type 3007 shown.



3-pole 4-pole 5-pole
1h 1h 1h

Std. Pack.
Weight

Part numbers			Qty.	g/each
	16 3	2684	10	180
	16 5	2675	10	273
	16 5	2840	10	333
	32 4	2983	10	370
	32 5	2676	10	424
	63 5	3719	5	925
	16 3	2973	10	136
	16 5	2917	10	178
	32 5	2997	10	225
	16 3	2685	10	113
	16 5	2677	10	166
	32 4	2801	10	222
	32 5	2678	10	252
	63 5	3465	5	710
	16 3	3230	10	150
	16 3	3007	10	143
	16 5	2918	10	222
	32 5	3229	10	300
	63 5	3561	5	915



Industrial Ethernet – Electrical power and data.

■ Cepex data port receptacles

**Cepex
data port receptacle
enclosures,
IP 44**

Page 140 and 141



**Cepex
data port inserts
and accessories**

Page 140 and 141



**AMAXX®
receptacle combination
with
data port receptacles**

Page 141

■ MENNEKES study: Fibre optics technology

**Fibre optics
technology in
AMAXX® receptacle
combinations**

Page 142 to 145



NEW!



NEW!

**Fibre optics
technology in
MENNEKES plugs
and connectors**

Page 145

6

■ CEEplus – Energy, data and signals

**CEEplus
wall mounted and
panel mounted
receptacles with
additional contacts,
16A, 230V and 400V,
IP 44**

Page 146 and 147



**CEEplus plugs,
inlets and
connectors
with
additional contacts,
16A, 230V and 400V,
IP 44 and IP 67**

Page 148 and 149

**CEEplus plugs and
receptacles as
charging sets,
max. 32A, 230V,
IP 44**

Page 150 and 151



**Technical informations
to CEEplus
plugs and receptacles
and electric car
charging sets**

Page 150 and 151

■ Industrial Ethernet – Electrical power and data.

Cepex data port receptacles. The rugged receptacles for harsh environments.



- Operates with commercial patch cables
- Clearly visible labelling field
- Suitable for double RJ 45 ports, cat. 3 to cat. 6
- Back box can be rotated by 180°, thus cable insertion is possible from top or bottom without additional work
- Further cable entries: 2 x M25 at the side and 1 x M20 from the rear (can be cut out)
- Same design as Cepex CEE- and / or SCHUKO® receptacles

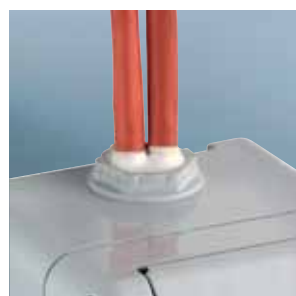
Lockable - even when the cables are plugged in.

The safety lock protects against unauthorized access. Identical locks are available on request.



Membrane cable gland.

As a standard, all versions are fitted with a membrane cable gland M25 for two cables of 3 - 9 mm. Simply pierce the membrane with the cable - that's all it takes.



Cable gland.

For special requirements, a metric cable gland M25 / 2 x 8 is available as an option.



Connection space.

Generously dimensioned wiring space for swift and easy installation. The ergonomic design protects the installed components.



MENNEKES study: Fibre optics technology.

The increasing degree of automation in all industrial areas calls for safe, high performance data processing systems.

Fibre optics are used whenever they are better suited to the application than conventional copper conductors.

MENNEKES shows in a study - possibilities for fibre optics applications in modern industrial areas.



CEEplus. Additional functions.



For perfect power supply and safe data transmission.

- Your benefit:
just one socket for electrical power and signals.
- Perfect compatibility:
CEEplus plugs, connectors and receptacles may be combined with any traditional CEE products 16A, 3p, 230V or 16A, 5p, 400V.

The major benefit compared with traditional concepts:

CEEplus is compatible with standard CEE plugs and connectors. CEEplus plugs suit standard CEE receptacles and standard plugs may be plugged into CEEplus receptacles or connectors. This is of benefit e.g. for maintenance work, when the equipment and the supply systems are not of the same design.

For a good connection.

The additional contacts are fitted with terminal flags for push-on-connection 2.8 x 0.5 mm.

As an alternative, a soldered connection is possible. Contact load up to 5A at max. 30V.

Contacts.

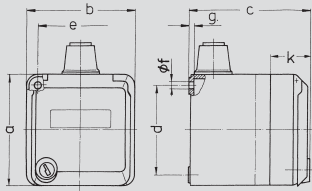
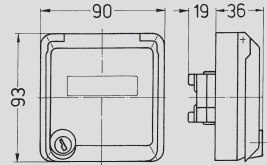
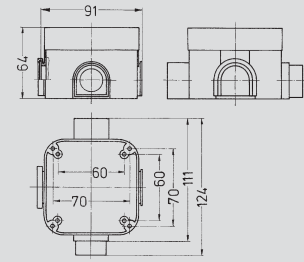
The four additional contacts are accommodated on the inside of the plug housing.








MENNEKES Cepex data port receptacles and accessories


Colour: grey (RAL 7035), alpin white (RAL 9010), silver (RAL 9006)


Enclosure and insert made of **AMAPLAST**.


	<p>Drawing 1 MB 313</p> <table> <tr> <th>Dim. in mm</th><th>Amp.</th><th>16</th></tr> <tr><td>a</td><td></td><td>93</td></tr> <tr><td>b</td><td></td><td>90</td></tr> <tr><td>c</td><td></td><td>90</td></tr> <tr><td>d</td><td></td><td>75</td></tr> <tr><td>e</td><td></td><td>73</td></tr> <tr><td>f</td><td></td><td>5,5</td></tr> <tr><td>g</td><td></td><td>4,2</td></tr> <tr><td>k</td><td></td><td>36</td></tr> <tr><td>Max. cable diam. (mm)</td><td></td><td>18</td></tr> <tr><td>Terminal for cond. cross section (mm²) min-max.</td><td></td><td>1,5 —4</td></tr> </table>	Dim. in mm	Amp.	16	a		93	b		90	c		90	d		75	e		73	f		5,5	g		4,2	k		36	Max. cable diam. (mm)		18	Terminal for cond. cross section (mm²) min-max.		1,5 —4	<p>Cepex enclosures as a surface mounted receptacle, for RJ 45 ports, 2 keys, grey (RAL 7035)</p> <p>⚠ IP 44, Product group 1024, type 4300 shown.</p>
Dim. in mm	Amp.	16																																	
a		93																																	
b		90																																	
c		90																																	
d		75																																	
e		73																																	
f		5,5																																	
g		4,2																																	
k		36																																	
Max. cable diam. (mm)		18																																	
Terminal for cond. cross section (mm²) min-max.		1,5 —4																																	
	<p>Drawing 1 MB 305</p> <p>Dim. in mm</p>	<p>Cepex enclosures as a panel mounted receptacle, for RJ 45 ports, 2 keys, grey (RAL 7035) alpin white (RAL 9010) silver (RAL 9006)</p> <p>⚠ IP 44 Product group 1020, type 4304 shown.</p>																																	
	<p>Drawing 1 MB 334</p> <p>Dim. in mm</p>	<p>Flush mounted back boxes suitable for Cepex panel mounted receptacles (= flush mounted receptacles)</p> <p>⚠ IP 44 Product group 8236, type 41404 shown.</p>																																	

Data port inserts / Modules for Cepex receptacles


	Brand	Type	Part no.	Std. Pack.	
	AMP	Data port insert, 2 x RJ 45, cat. 6 (type AMP TWIST Dual/Outlet)	41456	10	Required accessories: (see last position)
	AMP	RJ 45 connection module, (type cat. 6 SL Jack)	41457	10	Required accessories from AMP. (2 modules per enclosure)
	BTR	RJ 45 connection module, type E-DAT module 8(8), cat. 6	41454	10	Required accessories for BTR-E-DAT module: holder for T-slot and top hat rail fastening, by BTR (2 modules per enclosure)
	Rutenbeck	Data port insert, 2 x RJ 45, cat. 6 (type UPOS)	41451	10	Required accessories for cable duct installation for AMP (type TWIST) Rutenbeck and TKM data port inserts: installation box, Tehalit part no. L5819 and blind 100 mm channel height, single, Tehalit part no. L9120 or blind 120 mm channel height, single, Tehalit part no. L9170
	TKM	Data port insert, 2 x RJ 45, cat. 6 (type KDMF)	41452	10	

	Brand	Type	grey	alpine white	silver	Std. Pack.	Weight
			Part numbers			Qty.	g/each
	AMP	TWIST	4350			5	284
	AMP	Jack	4360			5	284
	BTR	E-DAT module	4340			5	284
	Rutenbeck	UP0S	4320			5	284
	TKM	KDMS	4300			5	284
Lock for common key: Part no. + index „G“							

	AMP	TWIST	4352	4354	—	5	170
	AMP	Jack	4362	4364	—	5	170
	BTR	E-DAT module	4342	4344	—	5	170
	Rutenbeck	UP0S	4322	4324	4326	5	170
	TKM	KDMS	4302	4304	—	5	170
Lock for common key: Part no. + index „G“							

			41404			5	78
--	--	--	-------	--	--	---	----

	Spacer frame as a height equalizer, matching all surface mounted Cepex receptacles, grey RAL 7035		Cable gland M25/2x8, for 2 cables 3-8 mm, matching all Cepex surface mounted receptacles, grey RAL 7035
	Part no. 4191 (Std. Pack.: 25)		Part no. 41453 (Std. Pack.: 25)

	AMAXX® receptacle combination Enclosure size 550 x 225 mm black case upper part electric grey RAL 7035, hinged to the side, fusing under a transparent cover.	Fitted with: 1 CEE receptacle 32A, 5p, 400V 1 MCB 32A, 3p, C 1 CEE receptacle 16A, 5p, 400V 1 MCB 16A, 3p, C 2 SCHUKO® receptacles 16A, 230V 2 MCB's 16A, 1p, C 1 RCD 40A, 4p, 0.03A 2 RJ 45 double data port receptacles cat. 6, lockable, with labelling field for 2 cables up to 5 x 25 mm²
	Cable entry: 2 M 40 at top (one open, one closed), 2 M 40 at bottom (closed), additionally: 2 M 20 at top (closed), 2 M 20 at bottom (closed)	
	Part no. 940018	

■ MENNEKES study: Fibre optics technology.

Large data transfer. Well protected. Plugs. Connectors. Combinations.



Plugs and receptacles with fibre optics. Fibre optic cable patch panel.

Fibre optics are used whenever they are better suited to the application than conventional copper conductors:

- Interference resistance to electro-magnetic fields
- Large transmission capacity with a low weight

- No possibility of sparks being created when connected and separated or in the event of mechanical defects

- Small cable dimensions
- Long distances

Illustration on top: mobile-in / mobile-out concept



Applications.

Data networks, vehicle systems, transmission systems with large data transfer rates, mobile measuring stations, safety systems and in situations where conditions are harsh, e.g., in mining, harbours, in the heavy industry, in the petrochemical industry, etc.

The increasing degree of automation in all industrial areas calls for safe, high performance data processing systems.

In modern data communication, fibre optics are increasingly used for

controlling processes, for image data transmission and for remote maintenance of plants. Using the new 12 channel fibre optics connection system along with various fibre optic cable patch panel systems for

harsh industrial conditions to IP 67, large amounts of data can be safely transmitted even over a long distance.



■ MENNEKES study: Fibre optics technology.

Fibre optics technology - For advanced industrial networks.



- 12 channels with a minimum space requirement
- Multimode and singlemode
- High dependability
- Convenient
- Suited for PC and APC polish

Illustration on the left: permanent-in / mobile-out concept

Protection type IP67.
Water tight.
Dust tight.
Rugged.

Versatile. Dependable. Convenient.

Easy fibre preparation.

The fibre carrier in the receptacle may accommodate either prefabricated conductor ends or conductors which are prepared on site. The conductor ends may be engaged in the

fibre carrier and they can also be removed. Working with the fibre reserve box, even single fibres can be repaired on site.

Industrial application.

The high-tech fibre technology is accommodated in proven, rugged IP67 enclosures, which are dust and water proof.

Furthermore, the insides of the flexible protective caps of connectors, plugs and receptacles are protected from dirt and water even during use.



Please contact us – we will be pleased to provide assistance.



6

For measurements or other applications, any source of electrical power may be provided, e.g., 230V receptacles with an earthing contact to IP 67 as shown in the illustration.

Depending on the design, the fixed input signals may be relocated according to the 12 channels of the 12 channel receptacle (permanent in / mobile out).

Also, the input signals of a 12 channel receptacle may be relocated to suit another receptacle used as an output connection (mobile in / mobile out). Other combinations with Cepex fibre optic cable

and Cepex RJ 45 data port receptacles as well as with CEE and SCHUKO® receptacles are available.

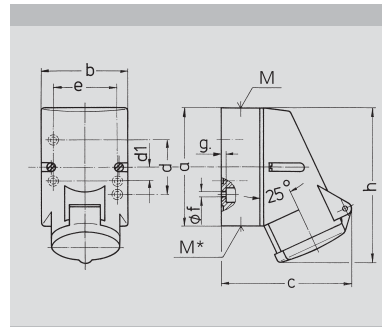


MENNEKES CEEplus receptacles and panel mounted receptacles with additional contacts for energy, data and signals

Plugs and receptacles compatible with IEC 60309 / EN 60309, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Auxiliary contacts made from silver-plated bronze.



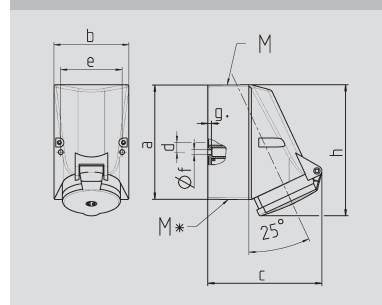
Drawing	Amp.	16		
1 MB 209	Poles	3	4	5
Dim. in mm	a	87	100	100
	b	64	75	75
	c	99	110	113
	d	40	—	—
	d1	—	11	11
	e	50	59	59
	f	4,5	5	5
	g	4	4	4
	h	115	125	128
	M	20	20	20
	M*	M20 (blind)	to be cut out	to be cut out
Max. cable diam. (mm)		15	15	15
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4

Wall mounted receptacles CEEplus

with 4 additional contacts,
1 M 20 cable entry at the top and
1 M 20 blind entry (can be cut out)
at the bottom, internal fastening.
For solid supply lines for auxiliary
contacts, an additional adapter is
required.

▲ IP 44

Product group 1166, type 955 shown.



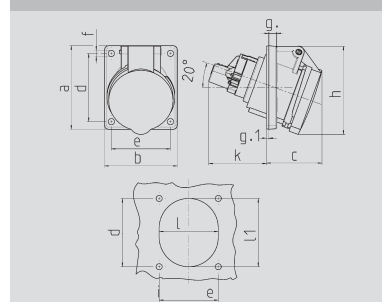
Drawing	Amp.	16	
1 MB 43	Poles	4	5
Dim. in mm	a	128	128
	b	84	84
	c	122	124
	d	11	11
	e	68	68
	f	5,3	5,3
	g	4	4
	h	144	145
	M*	25	25
Max. cable diam. (mm)		2x M 25 (blind)	to be cut out
Terminal for cond. cross section (mm²) min.-max.		18 — 18	18 — 18
		1,5 — 4	1,5 — 4

Wall mounted receptacles CEEplus

with 4 additional contacts,
1 M25 cable entry at the top and
2 M25 blind entries (can be cut out)
at the bottom, internal fastening.
Enclosure can be turned through 180°.
For solid supply lines for auxiliary
contacts, an additional adapter is
required.

▲ IP 44

Product group 1167, type 963 shown.



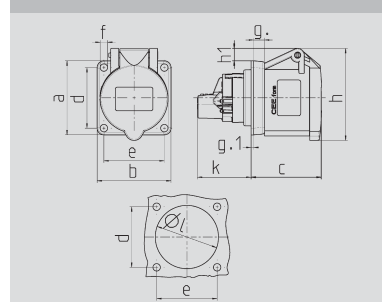
Drawing	Amp.	16	
1 MB 459/453	Poles	3	5
Dim. in mm	a	73,5	85
	b	64	85
	c	52	57
	d	60	70
	e	52	70
	f	5,3	5,5
	g	7	8
	g.1	2	1,5
	h	79	100
	k	51	33
	l	52	70
	l1	60	76
	alpha	20°	20°
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4

Panel mounted receptacles CEEplus

with 4 additional contacts,
20° inclination

▲ IP 44

Product group 1149 (16A, 3P) and
1152 (16A, 5P), type 927 shown.



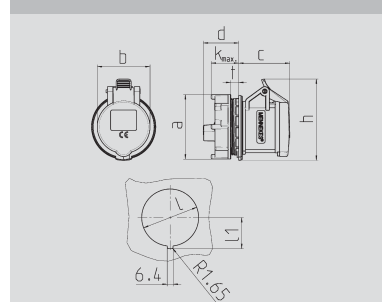
Drawing	Amp.	16	
1 MB 460/247	Poles	3	5
Dim. in mm	a	55	75
	b	55	75
	c	54	55
	d	45	60
	e	45	60
	f	5,5	5,5
	g	8	8
	g.1	2	2
	h	70	85
	h1	10	9
	k	40,5	32
	l	47	54
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4

Panel mounted receptacles CEEplus

with 4 additional contacts,
straight

▲ IP 44

Product group 1150 (16A, 3P) and
1151 (16A, 5P), type 961 shown.



Drawing	Amp.	16	
1 MB 458/468	Poles	3	5
Dim. in mm	a	69	69
	b	57	69
	c	55	52
	d	38	32
	h	87	98
	k max.	30	32
	l	Ø61	Ø61
	l1	33,25	33,25
	t	2-9	2-9
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4

Panel mounted receptacles RAPIDO CEEplus

with 4 additional contacts,
centralized fastening Ø 61 mm








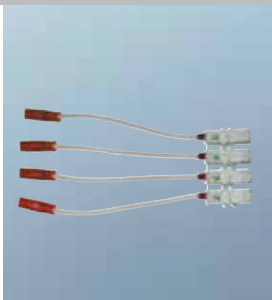
▲ IP 44

Product group 1159, type 956 shown.

Accessories:

Adapter for CEEplus

surface mounted receptacle
from solid to flexible for auxiliary
contacts, pre-assembled with
cables and flat pin bushings.

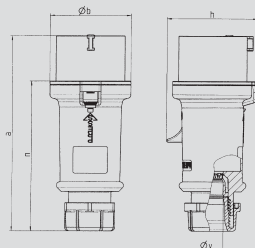
<div>3</div> <div></div> <div>2p+E</div>		<div>5</div> <div></div> <div>3p+N+E</div>		<div>230 V</div> <div>50 a. 60 Hz</div>		<div>400 V</div> <div>50 a. 60 Hz</div>		<div>3-pole 4-pole 5-pole</div> <div>6h 9h 9h 9h 6h 6h</div>		Amp.	Poles	Part numbers		Std. Pack.	Weight
Qty.														g/each	
	16	3	955										10		
	16	5			963								10		
	16	3	927										10		
	16	5			960								10		
	16	3	946										10		141
	16	5			961								10		
	16	3	956										10		
	16	5			962								10		
40116															
															

MENNEKES CEEplus plugs, connectors and panel mounted inlets with additional contacts for energy, data and signals

Plugs and receptacles compatible with IEC 60309 / EN 60309, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Auxiliary contacts made from silver-plated bronze.



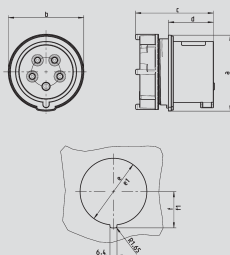
Drawing	Amp.	16		
		3	4	5
2 MB 214	Poles			
Dim. in mm	a	148	160	160
	b	55	65,6	65,6
	h	61	72,5	72,5
	n	112	123,5	123,5
	y	14,5	16	16
Terminal for cond. cross section (mm²) min.-max.		1	1	1
		—2,5	—2,5	—2,5

Plugs CEEplus

with 4 additional contacts, with screw terminals, cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock and safety slide

⚠ IP 44

Product group 2198, type 978 shown.



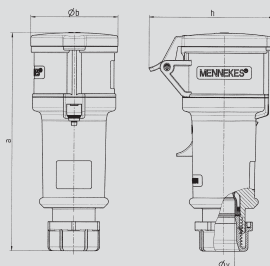
Drawing	Amp.	16	
		3	5
2 MB 220/216	Poles		
Dim. in mm	a	70	70
	b	69	69
	c	max. 73	max. 72
	d	44	44
	e	Ø61	Ø61
	f	33,25	33,25
	e1	—	—
	f1	—	—
Terminal for cond. cross section (mm²) min.-max.		1	1
		—2,5	—2,5

Panel mounted inlets RAPIDO CEEplus

with 4 additional contacts, **61 mm diameter**, central locking system

⚠ IP 44

Product group 2088, type 957 shown.



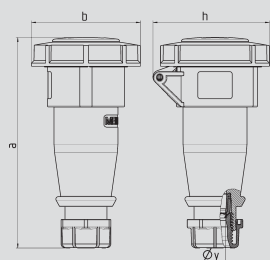
Drawing	Amp.	16		
		3	4	5
3 MB 60	Poles			
Dim. in mm	a	160	174	172
	b	57	61	69
	h	83	92	98
	y	16	16	16
Terminal for cond. cross section (mm²) min.-max.		1	1	1
		—2,5	—2,5	—2,5

Connectors CEEplus

with 4 additional contacts, with screw terminals, cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock and safety slide

⚠ IP 44

Product group 3198, type 928 shown.



Drawing	Amp.	16		
		3	4	5
3 MB 62	Poles			
Dim. in mm	a	146	166	172
	b	72	79	89
	h	80	88	95
	y	14,5	16	16
Terminal for cond. cross section (mm²) min.-max.		1	1	1
		—2,5	—2,5	—2,5

Connectors AM-TOP® CEEplus

with 4 additional contacts, single part body, cable gland and sealing



💧 IP 67

Product group 3196, type 984 shown.

Accessories:

Hybrid cable

3/5 x 2.5 mm² + 4 x 0.75 mm² screened for plugs and connectors.

<div>3</div> <div></div> <div>2p+E</div>		<div>5</div> <div></div> <div>3p+N+E</div>		<div>230 V</div> <div>50 a. 60 Hz</div>		<div>400 V</div> <div>50 a. 60 Hz</div>		<div>3-pole 4-pole 5-pole</div> <div>6h 9h 9h</div>		<div>3-pole 4-pole 5-pole</div> <div>9h 6h 6h</div>		Amp.	Poles	Part numbers		Qty.	Std. Pack.	Weight																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

MENNEKES CEEplus plugs and receptacles with additional contacts designed as charging sets

to IEC 62196-1 / EN 62191-1 (with VDE test mark), colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Auxiliary contacts made from silver-plated bronze.

	<table> <tr> <th>Drawing</th><th>Amp.</th><th>max. 32</th></tr> <tr> <td>1 MB 480</td><td>Poles</td><td>3</td></tr> <tr> <td>aux. contacts</td><td></td><td>4</td></tr> <tr> <td>a</td><td></td><td>87</td></tr> <tr> <td>b</td><td></td><td>64</td></tr> <tr> <td>c</td><td></td><td>99</td></tr> <tr> <td>d1</td><td></td><td>40</td></tr> <tr> <td>e</td><td></td><td>50</td></tr> <tr> <td>f</td><td></td><td>4,5</td></tr> <tr> <td>g</td><td></td><td>115</td></tr> <tr> <td>h</td><td></td><td>20</td></tr> <tr> <td>M</td><td></td><td>(blind)</td></tr> <tr> <td>M*</td><td></td><td>to be cut out</td></tr> <tr> <td>Max. cable diam. (mm)</td><td></td><td>13</td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>1,5 —10</td></tr> </table>	Drawing	Amp.	max. 32	1 MB 480	Poles	3	aux. contacts		4	a		87	b		64	c		99	d1		40	e		50	f		4,5	g		115	h		20	M		(blind)	M*		to be cut out	Max. cable diam. (mm)		13	Terminal for cond. cross section (mm²) min.-max.		1,5 —10	<p>Wall mounted receptacles CEEplus designed as charging set with 4 additional contacts, 1 M 20 cable entry at the top and 1 M 20 blind entry (can be cut out) at the bottom, internal fastening, for cables from 2.5 to 6.0 mm². An additional adapter is required (see page 146/147). ⚠ IP 44 Product group 1168, type 958 shown.</p>			
Drawing	Amp.	max. 32																																																
1 MB 480	Poles	3																																																
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a		87																																																
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e		50																																																
f		4,5																																																
g		115																																																
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Drawing	Amp.	max. 32																																																
1 MB 479	Poles	3																																																
aux. contacts		4																																																
a		85																																																
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f		5,5																																																
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	<table> <tr> <th>Drawing</th><th>Amp.</th><th>max. 32</th></tr> <tr> <td>2 MB 224</td><td>Poles</td><td>3</td></tr> <tr> <td>aux. contacts</td><td></td><td>4</td></tr> <tr> <td>a</td><td></td><td>173</td></tr> <tr> <td>b</td><td></td><td>55</td></tr> <tr> <td>h</td><td></td><td>61</td></tr> <tr> <td>n</td><td></td><td>137</td></tr> <tr> <td>y</td><td></td><td>17</td></tr> <tr> <td>Terminal for cond. cross section (mm²) min.-max.</td><td></td><td>1,5 —6</td></tr> </table>	Drawing	Amp.	max. 32	2 MB 224	Poles	3	aux. contacts		4	a		173	b		55	h		61	n		137	y		17	Terminal for cond. cross section (mm²) min.-max.		1,5 —6	<p>Plugs CEEplus designed as charging set with 4 additional contacts, with screw terminals, cable gland and external cable grip for cables from 2.5 to 6 mm² ⚠ IP 44 Product group 2199, type 959 shown.</p>																					
Drawing	Amp.	max. 32																																																
2 MB 224	Poles	3																																																
aux. contacts		4																																																
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Drawing	Amp.	max. 32																																																
3 MB 66	Poles	3																																																
aux. contacts		4																																																
a		183																																																
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y		17																																																
Terminal for cond. cross section (mm²) min.-max.		1,5 —6																																																

Technical data CEEplus and electric vehicle charging sets

Current / main contacts

No. of poles/ main contacts

Current capacity

of additional contacts

Voltage on additional contacts

No. of poles/ additional contact

Leading/lagging

Material of additional contacts

Clockface position

Protection

Connection cross-section

min.

max.

Please note

(Additional contacts)

16A / charging plugs and receptacles, up to max. 32 A

3P or 5P / charging plugs and receptacles only 3p

5mA up to max. 5A if power contacts are subject to max. 16A. (For currents less than 10 mA and voltages less than 10V, it may be an advantage to solder the wires)

min. 5V up to max. 50V

4, less than 4 on request

When connecting, 1 signal contact is lagging the other (min. 3 mm), and when disconnecting, it is leading.

Silver-plated bronze

6h, other positions (h) on request

IP 44

CEEplus power contacts 1.0 mm²

CEEplus additional contacts 0.3 mm²

charging plugs and receptacles, power contacts 2.5 mm²

charging plugs and receptacles, additional contacts 0.3 mm²

CEEplus power contacts 2.5 mm²

CEEplus additional contacts 2.5 mm²

charging plugs and receptacles, power contacts 6.0 mm²

charging plugs and receptacles, additional contacts 2.5 mm²

The flat pin bushings provided (red, fully insulated) can be used for connecting cross-sections 0.5 – 1.5 mm².

As an alternative, a soldered connection using a heat shrinkable insulation sleeve is possible.

The heat shrinkable sleeve is included in the delivery.

<div>3</div> <div></div> <div>2p+E</div>		<div>230 V</div> <div>50 a. 60 Hz</div>		<div>Amp.</div> <div>Poles</div>		<div>3-pole 4-pole 5-pole</div> <div>6h 9h 9h</div>		<div>Std. Pack.</div> <div>Weight</div>	
Part numbers								Qty.	g/each
	max.								
	32	3	958						10 210
	max.								
	32	3	943						10
	max.								
	32	3	959						10
	max.								
	32	3	981						10

Cable entry (plugs / connectors)

min.

16A 3P: 7.5 mm / charging plugs and receptacles: 8.1 mm

16A 5P: 8.0 mm

max.

16A 3P: 14.5 mm / charging plugs and receptacles: 16.5 mm

16A 5P: 16 mm

Terminal design

Power contacts

Additional contacts

Terminal connection

Power contacts

Additional contacts

Limitation on use

Standards

Assembling and fitting

High frequency characteristics

Screw-type terminal as socket-type terminal

Use fully insulated flat pin bushings 2.8 x 0.5 mm (4 bushings are included in the delivery)

Use a screwdriver

Flat cable lugs are connected using a suitable crimping tool and they can then be pushed on without a tool.

ATTENTION! When using CEE plugs with metal housings, short-circuiting of signal contacts may occur.

Therefore never insert CEE plugs with a metal enclosure into CEEplus receptacles or connectors!

IEC 60309/EN60309 compatible plugs and receptacles, charging sets according to IEC 62196-1/EN 62196-1 with VDE mark.

See fitting instructions included in the delivery.

Crosstalk attenuation (near and far) of the system consisting of CEEplus receptacle, plug, MENNEKES hybrid cable, CEEplus connector and panel mounted inlet between power and signal component:

max. 1 MHz, min. 50 dB

Capacitance of the signal component:

wire/wire: 95 nF/km, wire/screen: 150 nF/km

Cable inductivity signal pair: 0.65 mH/km

Data sheets on request!

MENNEKES hybrid cable



■ Receptacle combinations

AMAXX®
receptacle
combinations
for wall mounting,
IP 44

Page 160 to 162



AMAXX®
portable receptacle
combinations,
IP 44

Page 163



AMAXX®
receptacle
combinations
for wall mounting,
IP 67

Page 164 and 165



3KRAFT
receptacle
combinations
for ceilings, walls
and floors,
IP 44

Page 166 and 167



AirKRAFT®
receptacle
combinations
for ceilings, walls
and floors,
IP 44

Page 168 to 170



DELTA-BOXES
hanging,
portable,
IP 44, IP 67 and IP 68

Page 171 to 173



Receptacle strips
for ceilings, walls
and floors,
IP 44

Page 174 and 175



**Receptacle
combinations,
hanging,
IP 44**

Page 176



MENNEKES
Supporter, hanging
installation unit

Page 177

AMAXX®
receptacle
combinations,
resistant to chemicals,
IP 44

Chapter 10

Page 220



AMAXX®
receptacle
combinations,
resistant to chemicals,
IP 67

Chapter 10

Page 221



■ AMAXX® receptacle combinations

AMAXX®. Superb design. Dependable technology.



AMAXX®
by MENNEKES

AMAXX®. A new approach to receptacle combinations.

The enclosure has smooth surfaces, which are easy to clean. The receptacles are slightly inclined towards the bottom so that less space is required even when the feeder cables are plugged in.



AMAXX®. Design. Function, shape and colour.

New colour variations with AMAXX®.

The silver upper part (IP 44) in combination with the black base sets a new trend in a design-oriented technical environment.

On request, the combinations are also available in other special colours, e.g., signal yellow or red. In the standard version, the upper parts are supplied in electric grey.



AMAXX®. Well thought-out details.

The enclosure is fitted with captive screws with a double thread for swift opening and closing. For these purposes, a standard electricians' screwdriver, a 6 mm Allen

key or a larger screwdriver can be used. With the window opening towards the bottom, the electrician has both hands free, e.g., for measurements or for

changing fuses. The windows can be locked using a padlock and the enclosure can be sealed, so that unauthorised access is prevented.

All external screws, e.g., for modular base plates, are from stainless steel.

7



■ AMAXX® receptacle combinations

AMAXX®. Convenient connection.



The hinged enclosure opening on the side facilitates connection. A unique feature is the rails that can be pulled out and the large, smooth wiring space that make insertion and connection of large cables even more convenient.

AMAXX® receptacle combinations are made from high-quality AMAPLAST with excellent mechanical, thermal and electrical features.

AMAXX®. Professional concepts right from the start.



AMAXX® IP 67

Select from a large range of dust and water proof plugs and receptacles.



AMAXX® combinations from AMELAN.

High resistance to chemical, highly heat resistant contact carriers and nickel-plated contacts for use in an aggressive atmosphere (see chapter 10).

AMAXX®. Modular combination.

The sophisticated construction of the unit gives maximum flexibility with only three enclosure sizes.

All enclosures are 225 mm wide and have either two, three or four segments. They measure 260 mm, 390 mm or 520 mm in height. The segments may be joined in either the horizontal or the vertical direction.

Of course, combinations may also be assembled from various single combinations, so that any size can be achieved and the variety is virtually unlimited.

All combinations are ready for connection and tested for electrical safety and quality, therefore installation on site is swiftly completed.



AMAXX®. International.

For the international market, AMAXX® units including receptacles to comply with various national standards are available, e.g., French/Belgian, Danish, Swiss and British standards, and also compliant with the NEMA standard for the USA and Canada. Please contact us.



7



AMAXX® for campsites, marinas, etc.

Lockable CEE receptacles, 3 pole, 230V, with fusing, give the maximum safety.



AMAXX® mobile.

For all those who need safe distribution on site. With feeder cable and plug.

■ MENNEKES® receptacle combinations

A strong team for electrical power, data and compressed air.



AirKRAFT®.

For ceilings, walls and floors.

Up to four receptacles, or data, or light, plus compressed air, plus fusing. Ready for connection or with supply cable and plug.

Three colours:

Signal yellow, red or silver.



3KRAFT.

For ceilings, walls and floors.

Equipped to suit your requirements: Up to three receptacles, or data, plus compressed air.

Ready for connection or with supply cable and plug.

Three colours:

Signal yellow, red or silver.

DELTA BOX. The classic unit.



With cable grip.
Enclosure and insert from impact and temperature resistant AMAPLAST.
Available in ▲ IP 44,
▲▲ IP 67 and ▲▲▲ IP 68

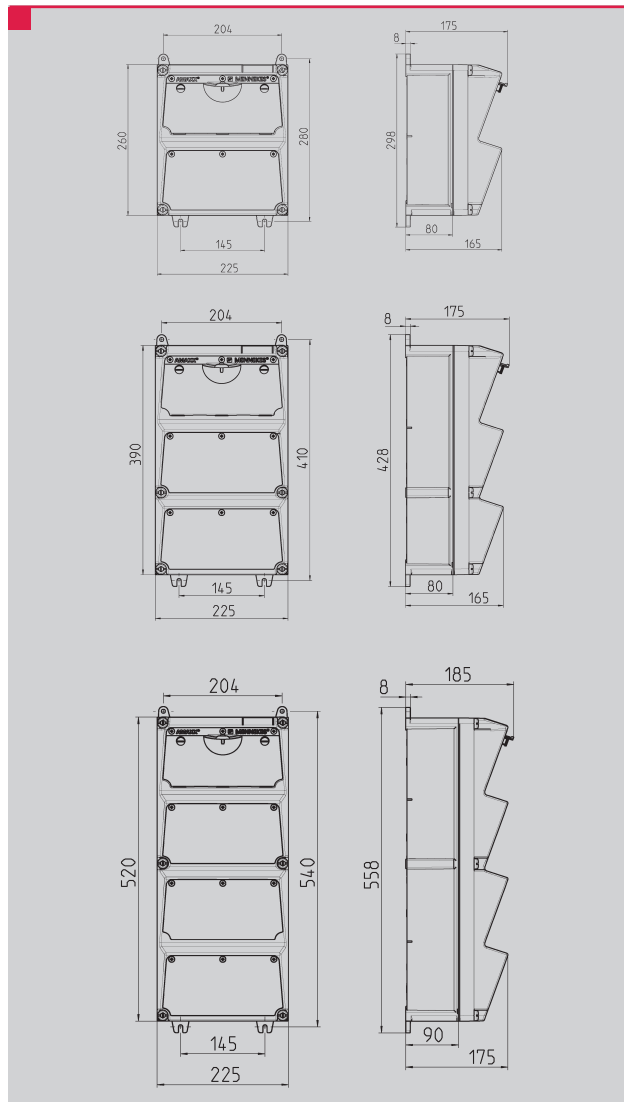
Receptacle strips. The versatile units.



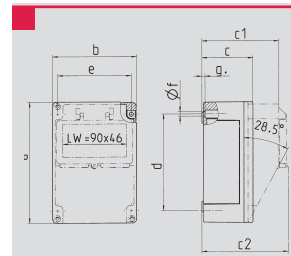
Suspendable, portable or for wall mounting. Ready for connection with cable grip.

Available to ▲ IP 44

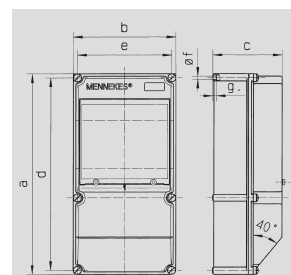
AMAXX® receptacle combinations.



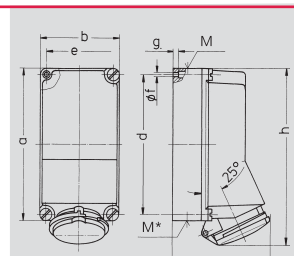
Proven - MENNEKES combinations.



a	171	c ¹	110	e	104
b	119	c ²	123	f	6.1
c	73	d	136	g	4.5
M	1x25			M*	2x25



a	520	d	499	g	8.5
b	260	e	239		
c	175	f	8.2		
M	2x40			M*	2x40



16A					
a	225	d	208	g	8
b	118	e	101	h	254
c	141	f	6.3		
M	1x25 a. 1x32			M*	2x25

32A					
a	225	d	208	g	8
b	118	e	101	h	264
c	146	f	6.3		
M	1x25 a. 1x32			M*	2x25

63A					
a	264	d	240	g	8
b	163	e	140	h	300
c	194	f	8.1		
M	40			M*	40



All combinations identified with this symbol are available from stock.

Cable entry:

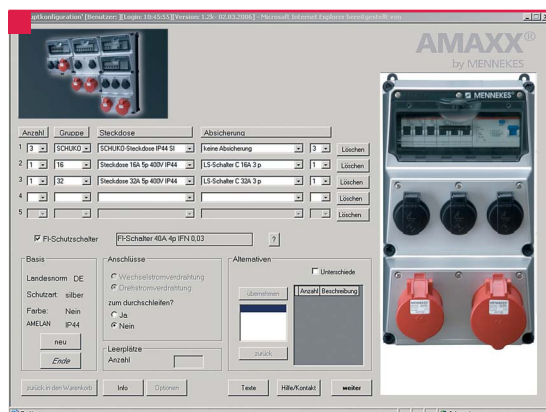
- In standard version open at top left, other sides closed (to be cut out).
- Double enclosure: 2 x M 32, triple and quadruple enclosure 2 x M 40 each.

Fusing:

Supplied without fusing equipment unless specified otherwise.

7

Take 3 steps to your preferred combination. 24 hours a day. www.AMAXX.info



Select your required combination of SCHUKO® and CEE receptacles and fuses. The configurator immediately displays the selected appliance with a descriptive text and illustration. This not only shortens the time needed to get a quotation but

also allows for shorter delivery times of AMAXX® combinations. What are you waiting for?

www.AMAXX.info

AMAXX® receptacle combinations, pre-wired for installation, ⚡ IP44

Enclosure and insert made of AMAPLAST®

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Upper part electric grey RAL 7035, hinged to the side,
fusing under a transparent cover.

For more combinations, please contact us or visit www.AMAXX.info



CEE receptacles	1 CEE 16A, 5p, 400V	1 CEE 16A, 5p, 400V	
CEE receptacles			
SCHUKO® receptacles			
6 SCHUKO® 16A, 230V	1 SCHUKO® 16A, 230V	2 SCHUKO® 16A, 230V	
Fusing			
1 RCD 40A, 4p, 0.03A 6 MCB's 16A, 1p, C	1 MCB 16A, 1p, C	1 RCD 40A, 4p, 0.03A 1 MCB 16A, 3p, C 2 MCB's 16A, 1p, C	
Connection			
For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²	
Enclosure size			
390 x 225 mm (HxW)	225 x 118 mm (HxW)	260 x 225 mm (HxW)	
Part no.			
930001 930001SI**	97719*	920009 920009SI**	

* Combination of the proven MENNEKES range.

** SI = Enclosure upper part in silver (special colour, not available from stock)

AMAXX® receptacle combinations, pre-wired for installation, ⚠ IP44

Enclosure and insert made of AMAPLAST®

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Upper part electric grey RAL 7035, hinged to the side,
fusing under a transparent cover.

For more combinations, please contact us or visit www.AMAXX.info



CEE receptacles		
1 CEE 16A, 5p, 400V	1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V	1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V
CEE receptacles		
SCHUKO® receptacles		
2 SCHUKO® 16A, 230V		2 SCHUKO® 16A, 230V
Fusing		
1 MCB 16A, 3p, C 2 MCB's 16A, 1p, C	1 MCB 32A, 3p, C 1 MCB 16A, 3p, C	1 RCD 40A, 4p, 0.03A 1 MCB 32A, 3p, C 1 MCB 16A, 3p, C 2 MCB's 16A, 1p, C
Connection		
For 1 cable up to 5 x 10 mm ²	For 2 cables up to 5 x 10 mm ²	For 1 cable up to 5 x 25 mm ²
Enclosure size		
260 x 225 mm (HxW)	260 x 225 mm (HxW)	390 x 225 mm (HxW)
Part no.		
920005 920005SI**	920021 920021SI**	930013 930013SI**

** SI = Enclosure upper part in silver (special colour, not available from stock)

AMAXX® receptacle combinations, pre-wired for installation, IP44

Enclosure and insert made of AMAPLAST®

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Upper part electric grey RAL 7035, hinged to the side,
fusing under a transparent cover.

For more combinations, please contact us or visit www.AMAXX.info



CEE receptacles		
1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V	1 CEE 32A, 5p, 400V 2 CEE 16A, 5p, 400V	1 CEE 63A, 5p, 400V 1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V
CEE receptacles		
SCHUKO® receptacles		
2 SCHUKO® 16A, 230V	4 SCHUKO® 16A, 230V	2 SCHUKO® 16A, 230V
Fusing		
1 MCB 32A, 3p, C 1 MCB 16A, 3p, C 2 MCB's 16A, 1p, C	1 MCB 32A, 3p, C 2 MCB's 16A, 3p, C 4 MCB's 16A, 1p, C	1 RCD 63A, 4p, 0.03A 1 MCB 32A, 3p, C 1 MCB 16A, 3p, C 2 MCB's 16A, 1p, C
Connection		
For 2 cables up to 5 x 25 mm ²	For 2 cables up to 5 x 25 mm ²	For 2 cables up to 5 x 25 mm ²
Enclosure size		
390 x 225 mm (HxW)	520 x 225 mm (HxW)	520 x 225 mm (HxW)
Part no.		
930010 930010SI**	940012 940012SI**	940010 940010SI**

** SI = Enclosure upper part in silver (special colour, not available from stock)

AMAXX® receptacle combinations, pre-wired for installation, ⚡ IP44

Enclosure and insert made of AMAPLAST®

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Upper part electric grey RAL 7035, hinged to the side,
fusing under a transparent cover.

For more combinations, please contact us or visit www.AMAXX.info



CEE receptacles			
		2 CEE 16A, 5p, 400V	1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V
CEE receptacles			
SCHUKO® receptacles			
4 SCHUKO® 16A, 230V	3 SCHUKO® 16A, 230V		3 SCHUKO® 16A, 230V
Fusing			
1 RCD 25A, 2p, 0.03A			1 RCD 40A, 4p, 0.03A 1 MCB 16A, 3p, C 3 MCB's 16A, 1p, C
with feeder cable			
2 m H07RN-F3G1.5 with SCHUKO® plug 16A, 230V	2 m H07RN-F5G2.5 with CEE plug 16A, 5p, 400V		2 m H07RN-F5G4 with CEE plug 32A, 5p, 400V
Enclosure size			
260 x 225 mm (HxW)	260 x 225 mm (HxW)		390 x 225 mm (HxW)
Part no.			
920033 920033SI**	920034 920034SI**		930025 930025SI**

** SI = Enclosure upper part in silver (special colour, not available from stock)

AMAXX® receptacle combinations, pre-wired for installation, ⚡ IP67

Enclosure and insert made of AMAPLAST®

Other variations with CEE receptacles 3, 4 or 5 pole on request.

Upper part electric grey RAL 7035, hinged to the side,
fusing under a transparent cover.

For more combinations, please contact us or visit www.AMAXX.info



CEE receptacles			
1 CEE 16A, 5p, 400V	2 CEE 16A, 5p, 400V	1 CEE 32A, 5p, 400V	
CEE receptacles			
SCHUKO® receptacles			
3 SCHUKO® 16A, 230V	2 SCHUKO® 16A, 230V	3 SCHUKO® 16A, 230V	
Fusing			
1 RCD 40A, 4p, 0.03A 1 MCB 16A, 3p, C 3 MCB's 16A, 1p, C	1 RCD 40A, 4p, 0.03A 2 MCB's 16A, 3p, C 2 MCB's 16A, 1p, C	1 RCD 40A, 4p, 0.03A 1 MCB 32A, 3p, C 3 MCB's 16A, 1p, C	
Connection			
For 2 cables up to 5 x 25 mm ²	For 2 cables up to 5 x 25 mm ²	For 2 cables up to 5 x 25 mm ²	
Enclosure size			
390 x 225 mm (HxW)	520 x 225 mm (HxW)	390 x 225 mm (HxW)	
Part no.			
930022	940013	930023	

AMAXX® receptacle combinations, pre-wired for installation, ⚡ IP67

Enclosure and insert made of AMAPLAST®

Other variations with CEE receptacles 3, 4 or 5 pole on request.

Upper part electric grey RAL 7035, hinged to the side,
fusing under a transparent cover.

For more combinations, please contact us or visit www.AMAXX.info



CEE receptacles	
1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V	1 CEE 63A, 5p, 400V 1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V
CEE receptacles	
SCHUKO® receptacles	
2 SCHUKO® 16A, 230V	4 SCHUKO® 16A, 230V
Fusing	
1 RCD 40A, 4p, 0.03A 1 MCB 32A, 3p, C 1 MCB 16A, 3p, C 2 MCB's 16A, 1p, C	1 RCD 63A, 4p, 0.03A 1 MCB 32A, 3p, C 1 MCB 16A, 3p, C 4 MCB's 16A, 1p, C
Connection	
For 2 cables up to 5 x 25 mm ²	For 2 cables up to 5 x 25 mm ²
Enclosure size	
520 x 225 mm (HxW)	390 x 450 mm (HxW)
Part no.	
940014	900003

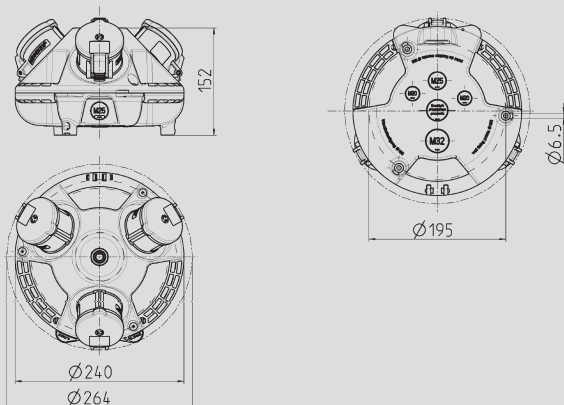
MENNEKES 3KRAFT receptacle combinations

pre-wired for installation. Enclosure and insert made of **AMAPLAST**.

Colours: Back box in black, cover available in red (RO), yellow (GE) or silver (SI).

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



Cable entry:

at the top: 1 x M 32, 1 x M 25, 2 x M 20 (blind, to be cut out), 1 x cut out for quick pneumatic connection;
from the side (for wall fixing or portable version):
1 x M 25 (blind, to be cut out).

The drawing is applicable for products on this and the following page.



1 CEE receptacle 16A, 5p, 400V
2 SCHUKO® receptacles
16A, 230V

Part no. 94350



3 SCHUKO® receptacles
16A, 230V

Part no. 94351



2 CEE receptacles 16A, 5p, 400V
1 SCHUKO® receptacle
16A, 230V

Part no. 94352



3 CEE receptacles 16A, 5p, 400V

Part no. 94358



1 CEE receptacle 16A, 5p, 400V
1 CEE receptacle 16A, 3p, 230V
1 SCHUKO® receptacle
16A, 230V

Part no. 94359



1 CEE receptacle 16A, 5p, 400V
1 CEE receptacle 32A, 5p, 400V
1 SCHUKO® receptacle
16A, 230V

Part no. 94353

MENNEKES 3KRAFT receptacle combinations

pre-wired for installation. Enclosure and insert made of **AMAPLAST**.

Colours: Back box in black, cover available in red (RO), yellow (GE) or silver (SI).

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



1 CEE receptacle 16A, 5p, 400V
1 SCHUKO® receptacle 16A, 230V
1 RJ45 double data port cat. 5e8/8

Part no. 94355



2 SCHUKO® receptacles 16A, 230V
1 RJ45 double data port cat. 5e8/8

Part no. 94354



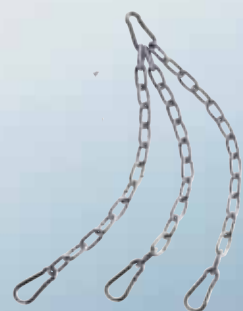
1 CEE receptacle 16A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V with 3 m of feeder cable, H07RN-F5G2.5 with CEE plug 16A, 5p, 400V

Part no. 94356



3 SCHUKO® receptacle 16A, 230V with 3 m of feeder cable, H07RN-F3G1.5 with SCHUKO® plug 16A, 230V

Part no.. 94357



Accessories:
Chains for suspension from the ceiling
Part no. 106123



Quick pneumatic connection

NW 9 mm
Part no. 208620

NW 13 mm
Part no. 208621

Twin pneumatic connection (additional)
Part no. 41442



Handle
for retrofit in 3KRAFT receptacle combinations
Part no. 195047

When ordering 3KRAFT please add to the part no. the colour code of the cover, i. e. red = RO, yellow = GE, silver = SI.

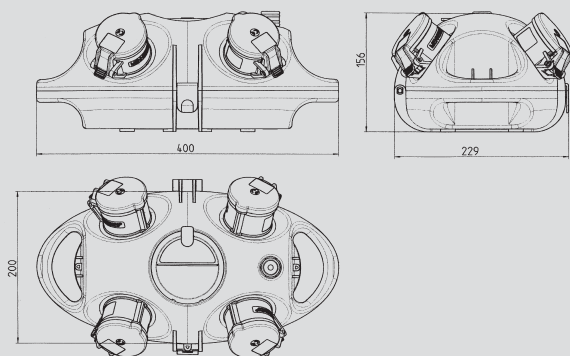
MENNEKES AirKRAFT® receptacle combinations

pre-wired for installation. Enclosure and insert made of **AMAPLAST**.

Colours: Back box in black, cover available in red (RO), yellow (GE) or silver (SI).

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



DIN rail / fusing for 4 modules beneath transparent operating lid.

Cable entry:

at the top: 1 x M 32, 1 x M 25, 2 x M 20 (blind, to be cut out), 1 x cut out for quick pneumatic connection;
from the side (for wall fixing or portable version):
1 x M 25 (blind, to be cut out).

The drawing is applicable for products on this and the two following pages.




1 CEE receptacle 16A, 5p, 400V
3 SCHUKO® receptacles 16A, 230V
Part no. 94550



4 SCHUKO® receptacles 16A, 230V
Part no. 94551




4 SCHUKO® receptacles 16A, 230V
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Part no. 94556



2 CEE receptacles 16A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V
Part no. 94552



2 CEE receptacles 16A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Part no. 94553



3 SCHUKO® receptacles 16A, 230V
1 RJ45 double data port cat. 5e
Part no. 94554

MENNEKES AirKRAFT® receptacle combinations

pre-wired for installation. Enclosure and insert made of **AMAPLAST**.

Colours: Back box in black, cover available in red (RO), yellow (GE) or silver (SI).

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



1 CEE receptacle 16A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V
1 RJ45 double data port cat. 5e

Part no. 94555




1 CEE receptacle 32A, 5p, 400V
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
2 SCHUKO® receptacles 16A, 230V
1 MCB 16A, 1p, B

Part no. 94564

1 CEE receptacle 32A, 5p, 400V
1 CEE receptacle 16A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V

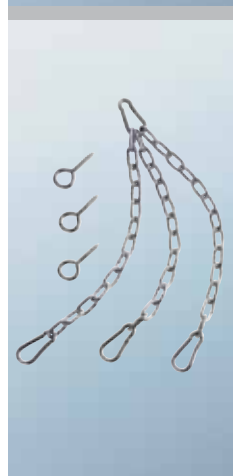
Part no. 94567



2 SCHUKO® receptacles 16A, 230V
2 Micro Lynx light 7 W
1 MCB 16A, 1p, B
1 RCD  25A, 2p, $I_{\Delta N} = 0.03A$

Part no. 9401198

**Other variations
on request!**



Accessories:

Chains for suspension
from the ceiling

Part no. 106060



Quick pneumatic connection

NW 9 mm

Part no. 208620

NW 13 mm

Part no. 208621

Twin pneumatic connection (additional)

Part no. 41442

When ordering AirKRAFT please add to the part no. the colour code of the cover, i. e. red = RO, yellow = GE, silver = SI.

MENNEKES AirKRAFT® receptacle combinations

pre-wired for installation. Enclosure and insert made of **AMAPLAST**.

Colours: Back box in black, cover available in red (RO), yellow (GE) or silver (SI).

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.




Protection type  IP 44

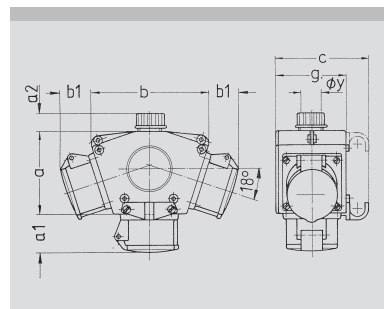
	<p>1 CEE receptacle 16A, 5p, 400V 3 SCHUKO® receptacles 16A, 230V with 3 m of feeder cable, H07RN-F5G2.5 with CEE plug 16A, 5p, 400V</p> <p>Part no. 94556</p> <p>For dimensions see drawing on page 168.</p>		<p>4 SCHUKO® receptacles 16A, 230V with 3 m of feeder cable, H07RN-F3G1.5 with SCHUKO® plug 16A, 230V</p> <p>Part no. 94557</p>
	<p>2 CEE receptacles 16A, 5p, 400V 2 SCHUKO® receptacles 16A, 230V 1 RCD 40A,  4p, $I_{\Delta N} = 0.03A$ with 3 m of feeder cable, H07RN-F5G2.5 with CEE plug 16A, 5p, 400V</p> <p>Part no. 94558</p>		<p>1 CEE receptacle 16A, 5p, 400V 1 MCB 16A, 3p, C 3 SCHUKO® receptacles 16A, 230V 1 MCB 16A, 1p, B with 3 m of feeder cable, H07RN-F5G4 with CEE plug 32A, 5p, 400V</p> <p>Part no. 94559</p> 
	<p>1 CEE receptacle 32A, 5p, 400V 1 CEE receptacle 16A, 5p, 400V 1 MCB 16A, 3p, C 2 SCHUKO® receptacles 16A, 230V 1 MCB 16A, 1p, B with 3 m of feeder cable, H07RN-F5G4 with CEE plug 32A, 5p, 400V</p> <p>Part no. 94565</p> 		<p>2 SCHUKO® receptacles 16A, 230V 2 Micro Lynx light 7W 1 MCB 16A, 1p, B 1 RCD 25A,  2p, $I_{\Delta N} = 0.03A$ with 3 m of feeder cable, H07RN-F3G2.5 with SCHUKO® plug 16A, 230V</p> <p>Part no. 94570</p>
	<p>1 CEE receptacle 16A, 5p, 400V 1 SCHUKO® receptacle 16A, 230V 2 Micro Lynx light 7W 1 MCB 16A, 1p, B 1 RCD 25A,  2p, $I_{\Delta N} = 0.03A$ with 3 m of feeder cable, H07RN-F5G2.5 with CEE plug 16A, 5p, 400V</p> <p>Part no. 94568</p>		<p>3 SCHUKO® receptacles 16A, 230V 1 Micro Lynx light 7W 1 MCB 16A, 1p, B 1 RCD 25A,  2p, $I_{\Delta N} = 0.03A$ with 3 m of feeder cable, H07RN-F3G1.5 with SCHUKO® plug 16A, 230V</p> <p>Part no. 94569</p> <p>Accessories: Chains for suspension from the ceiling and quick pneumatic connection see page 169.</p>

MENNEKES receptacle combinations DELTA BOX

pre-wired for installation, with cable grip. Enclosure and insert made of **AMAPLAST**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44,  IP 67 or  IP 68



with receptacles		
	16A	32A
a	114	114
a1	54	64
a2	30	72
b	160	160
b1	42	52
c	133	133
g	97	97
y	17	27
Dim. in mm		




Other variations on request!



















Cable entry:

1 x with gland diameter, Ø 17 mm or 27 mm

Hanging clip

supplied with every DELTA  BOX.




The drawing is applicable for products on this and the following page.

	<p>1 CEE receptacle 16A, 5p, 400V 2 SCHUKO® receptacles 16A, 230V  IP 44</p> <p>Part no. 92915</p>  <p>1 CEE receptacle 16A, 5p, 400V 2 SCHUKO® receptacles 16A, 230V  IP 67</p> <p>Part no. 92910</p> 		<p>3 CEE receptacles 32A, 5p, 400V  IP 44</p> <p>Part no. 90839</p> 
	<p>3 SCHUKO® receptacles 16A, 230V  IP 44</p> <p>Part no. 92798</p>  <p>3 SCHUKO® receptacles 16A, 230V  IP 68</p> <p>Part no. 10860</p> 		<p>2 CEE receptacles 16A, 5p, 400V 1 SCHUKO® receptacle 16A, 230V  IP 44</p> <p>Part no. 92916</p>  <p>2 CEE receptacles 16A, 5p, 400V 1 SCHUKO® receptacle 16A, 230V  IP 67</p> <p>Part no. 92911</p>
	<p>1 CEE receptacle 16A, 5p, 400V 3 SCHUKO® receptacles 16A, 230V  IP 44</p> <p>Part no. 92658</p>  <p>1 CEE receptacle 16A, 5p, 400V 3 SCHUKO® receptacles 16A, 230V  IP 67</p> <p>Part no. 89154</p> <p>2 CEE receptacles 16A, 5p, 400V 2 SCHUKO® receptacles 16A, 230V  IP 44</p> <p>Part no. 92655</p>		<p>3 CEE receptacles 16A, 5p, 400V  IP 44</p> <p>Part no. 92917</p>  <p>3 CEE receptacles 16A, 5p, 400V  IP 67</p> <p>Part no. 92912</p>

MENNEKES receptacle combinations DELTA BOX

pre-wired for installation, with cable grip. Enclosure and insert made of **AMAPLAST**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.




Protection type  IP 44,  IP 67 or  IP 68

	<p>4 SCHUKO® receptacles 16A, 230V ⚠ IP 44</p> <p>Part no. 92602</p> 		<p>2 CEE receptacles 16A, 5p, 400V 1 CEE receptacle 16A, 3p, 230V ⚠ IP 44</p> <p>Part no. 92896</p> <p>2 CEE receptacles 16A, 5p, 400V 1 CEE receptacle 16A, 3p, 230V 💧 IP 67</p> <p>Part no. 92893</p>
	<p>1 CEE receptacle 16A, 5p, 400V 1 CEE receptacle 16A, 3p, 230V 1 SCHUKO® receptacle 16A, 230V ⚠ IP 44</p> <p>Part no. 92897</p> <p>1 CEE receptacle 16A, 5p, 400V 1 CEE receptacle 16A, 3p, 230V 1 SCHUKO® receptacle 16A, 230V 💧 IP 67</p> <p>Part no. 92894</p>		<p>3 CEE receptacles 16A, 4p, 100-300 Hz ⚠ IP 44</p> <p>Part no. 92594</p>
	<p>3 CEE receptacles 16A, 3p, 230V ⚠ IP 44</p> <p>Part no. 92898</p> <p>3 CEE receptacles 16A, 3p, 230V 💧 IP 67</p> <p>Part no. 92895</p>		<p>Pneumatic connection for MENNEKES DELTA  BOX</p> <p>For tube dia. 9 mm Part no. 41440</p>  <p>For tube dia. 13 mm Part no. 41441</p> 
	<p>Blanking flanges to seal unused installation holes by DELTA  BOXES</p> <p>grey 75 x 75 mm Part no. 41419</p>		


MENNEKES receptacle combinations DELTA BOX

pre-wired for installation, with cable grip. Enclosure and insert made of **AMAPLAST**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44,  IP 67 or  IP 68




1 CEE receptacle 16A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V
with 2 m of feeder cable,
H07RN-F5G2.5
with CEE plug 16A, 5p, 400V
 IP 44

Part no. 92913


**For dimensions see
drawing on page 171.**



3 CEE receptacles 16A, 5p, 400V
with 2 m of feeder cable,
H07RN-F5G2.5
with CEE plug 16A, 5p, 400V
 IP 44


Part no. 92914



1 CEE receptacle 16A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V
with 2 m of feeder cable,
H07RN-F5G2.5
with CEE plug 16A, 5p, 400V
 IP 67


Part no. 92908



3 CEE receptacles 16A, 5p, 400V
with 2 m of feeder cable,
H07RN-F5G2.5
with CEE plug 16A, 5p, 400V
 IP 67

Part no. 92909



3 SCHUKO® receptacles 16A, 230V
with 1.5 m of feeder cable,
H07RN-F3G2.5
with SCHUKO® plug
16A, 230V
 IP 68, pressure watertight

Part no. 92386

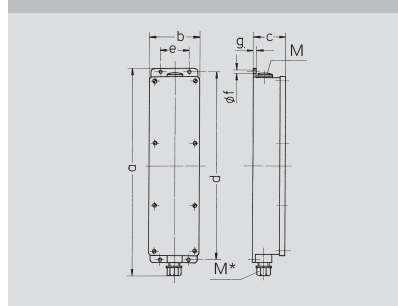


MENNEKES receptacle strips

pre-wired for installation, with cable grip. Enclosure and insert made of **AMAPLAST**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



a	401
b	97
c	63
d	364
e	56
f	5.5
g	4
M	20
M*	20
Dim. en mm	



Hanging clip

enclosed with each receptacle strip with the dimensions 401 x 97 mm. Otherwise on request.

Enclosure size: 401 x 97 mm

Cable entry:

1 x M 20 plugged at the top

1 x M 20 with gland at the bottom

The drawing is applicable for products on this and the following page.



3 CEE receptacles
16A, 5p, 400V
with terminal

Part no. 96705



3 CEE receptacles
16A, 4p, 100-300 Hz
with terminal

Part no. 95937



3 CEE receptacles
16A, 3p, 230V
with terminal

Part no. 96489



3 CEE receptacles
16A, 3p, 110V
with terminal

Part no. 96227



2 CEE receptacles 16A, 5p, 400V
1 CEE receptacle 16A, 3p, 230V
with terminal

Part no. 96704



2 CEE receptacles 16A, 5p, 400V
1 SCHUKO® receptacle 16A, 230V
with terminal

Part no. 96703



1 CEE receptacle 16A, 5p, 400V
1 CEE receptacle 16A, 3p, 230V
1 SCHUKO® receptacle 16A, 230V
with terminal

Part no. 96702



1 CEE receptacle 16A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V
with terminal

Part no. 96438



MENNEKES receptacle strips

pre-wired for installation, with cable grip. Enclosure and insert made of **AMAPLAST**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



When the receptacle strips, show on page 174, are mounted horizontally, the receptacles mounted on it can be turned 90° without dislodging the connection leads.


Other variations on request!




3 CEE receptacles 16A, 5p, 400V
1 RCD 40A,  4p, $I_{\Delta N} = 0.03A$

Part no. 95472



1 CEE receptacle 16A, 5p, 400V
1 CEE receptacle 16A, 3p, 230V
1 SCHUKO® receptacle 16A, 230V
1 RCD 40A,  4p, $I_{\Delta N} = 0.03A$

Part no. 95471

2 CEE receptacles 16A, 5p, 400V
1 SCHUKO® receptacle 16A, 230V
1 RCD 40A,  4p, $I_{\Delta N} = 0.03A$

Part no. 95470



3 SCHUKO® receptacles 16A, 230V
with terminal
5 pole for connection 5 x 2.5 mm²

Part no. 95996



Enclosure size:
401 x 97 x 80 mm

8 SCHUKO® receptacles 16A, 230V
with terminal
3 pole for 3 x 6 mm²
insert tilted through 30°

Also suitable for angled plugs!

Part no. 88677



Enclosure size:
330 x 80 x 68 mm

3 SCHUKO® receptacles 16A, 230V
with terminal

Part no. 96700



Drawing 1 MB 284,
see chapter 11 (SCHUKO®)



Enclosure size:
330 x 80 x 68 mm

4 SCHUKO® receptacles 16A, 230V
with terminal,
tilted through 30°

Also suitable for angled plugs!

Part no. 88678



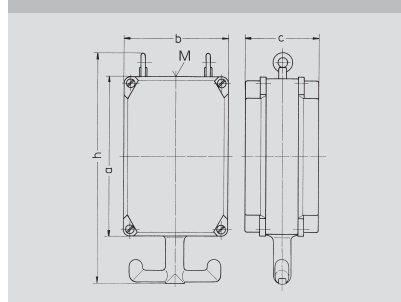
Drawing 1 MB 284,
see chapter 11 (SCHUKO®)

MENNEKES receptacle combinations for flexible energy supply, suspendable

pre-wired for installation. Enclosure and insert made of **AMAPLAST**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type Δ IP 44



a	245
b	160
c	114
h	353
Dim. in mm	

The enclosure are fitted on both sides.

Front and back are shown.

Other variations and types with pneumatic connections on request!



Enclosure size: 245 x 160 mm (fitted on both sides)

Cable entry 1 x M 25 open at the top

The drawing is applicable for products on this page.

Front:

Back:



2 CEE receptacles 16A, 5p, 400V
2 MCB's 16A, 3p, C
2 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B

Part no. 92425

2 CEE receptacles 16A, 5p, 400V
2 MCB's 16A, 3p, K
2 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B

Part no. 95499

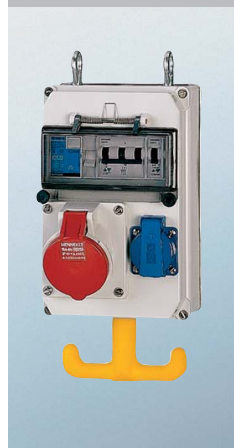


1 CEE receptacle 32A, 5p, 400V
1 MCB 32A, 3p, C
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
2 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B

Part no. 92354

1 CEE receptacle 32A, 5p, 400V
1 MCB 32A, 3p, C
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B

Part no. 92353



1 CEE receptacle 32A, 5p, 400V
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
2 SCHUKO® receptacles 16A, 230V
1 MCB 16A, 1p, B
1 RCD 40A, $I_{\Delta N} = 0.03A$

Part no. 92352

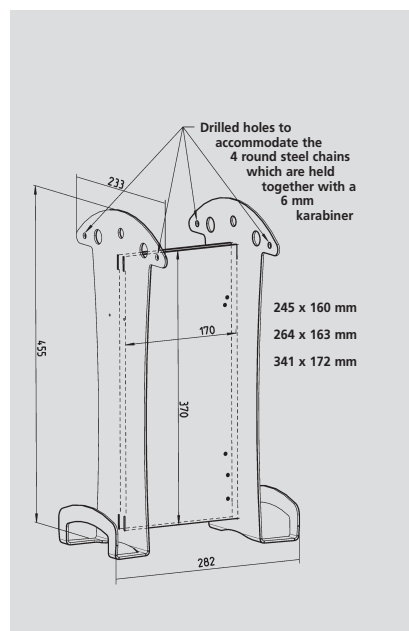
1 CEE receptacle 32A, 5p, 400V
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD 40A, $I_{\Delta N} = 0.03A$

Part no. 92351

MENNEKES Supporter

Supply station for power and pneumatic, may be suspended.

The swift, value for money concept for individual pieces of equipment using receptacle combinations and compressed air ports.



Hangable mounting unit

Made from light metal.

With holes for front and rear installation of receptacles and receptacle combinations

2 enclosures 245 x 160 mm or

2 enclosures 264 x 163 mm or

2 enclosures 341 x 172 mm

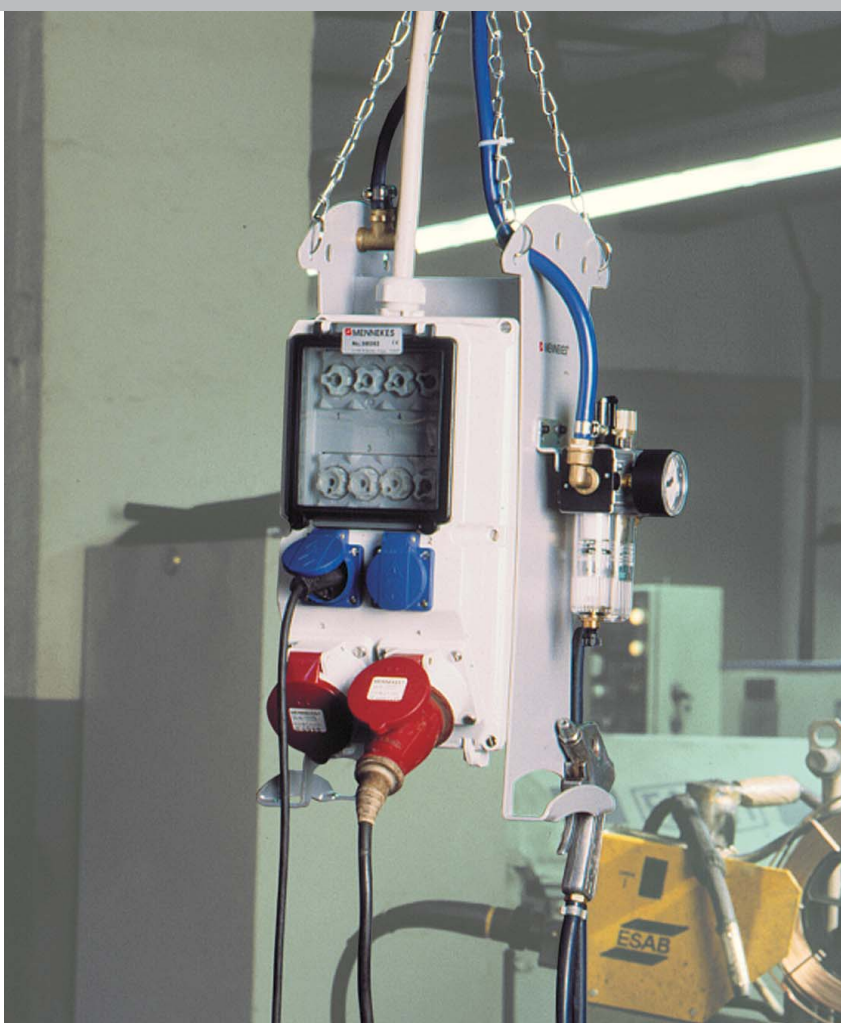
Dimensions (H x D x W):

455 x 282 x 23 mm

Colour: white aluminium (RAL 9006)

With 350 mm chain set for suspension from the ceiling

Part no. 18429



Pneumatic-maintenance unit 1/4" pre-assembled

- Inlet pressure max. 16 bar
- 1 oil mist lubricator
- Water separator 0 - 10 bar
- Pressure reducer with pressure gauge
- 1 quick coupling 1/4"
- Connection: 1 threaded nozzle of 9 mm

Part no. 18431



Single pressure port

- 1 quick coupling 1/4"
- Connection: 1 threaded nozzle of 9 mm

Part no. 18430



■ Receptacle combinations EverGUM in solid rubber enclosures

**EverGUM
receptacle
combinations,
small enclosure,
for wall mounting**
Page 182 and 183



**EverGUM
receptacle
combinations,
large enclosure,
for wall mounting**
Page 184 and 185



**EverGUM,
enclosures
for wall mounting**
Page 185



**EverGUM
receptacle strips,
with handle for
hanging,
for wall mounting,
portable**
Page 186



**EverGUM
receptacle
combinations,
compact,
portable**
Page 187 and 188



**EverGUM
receptacle
combinations,
maxi,
portable**
Page 189



■ Receptacle combinations EverGUM in solid rubber enclosures

Flexible safety. EverGUM - portable distribution boards and receptacle strips.



With the EverGUM range MENNEKES provide a solid rubber alternative to enclosures in Amaplast, Amelan and sheet steel. This is an alternative which is suitable for the most diverse environments, especially when there is likely to be exposure to rough handling or aggressive cleaning agents. These products can also be supplied to conform to the standards of other European countries.

The outstanding advantages:

- Resistant to weather and ageing
- High dimensional stability and precision
- Good resistance to acids and alkalis
- High breakdown and creep resistance
- High visibility yellow
- See also information provided in chapter 20

Receptacle strip EverGUM.

Window size for six or eight modules for vertical installation. Protection type IP 44.

EverGUM - portable distribution boards.

The all-round power-packages for mobile use in industry, craft and trade. They can accept quite a knock – neither their shape nor their function will be impaired. Additional benefit: they are stackable which allows space-saving storage.

Tested safety, EverGUM details.

The closed lower side of the enclosure with a ground clearance of 77 mm prevents ingress of water. The panel mounted receptacles can be replaced from outside.

Hinged cover provided with stainless steel quick release clips. Shock hazard protected to BGV A2, even with open cover. Screw or padlock offers additional safety.



Versatile safety. EverGUM wall-mounted distribution boards.

The closed wall-mounted enclosure in combination with the large wall-mounted distribution board (380 x 320 x 200 mm) is the ideal solution for safe power distribution of higher loads, e.g. with bus systems or larger conductor cross sections.



Well thought-out details and easy handling:

- Generously dimensioned wiring space by fixing the rails at the upper end of the wiring compartment
- Cable entry (max. M 63) at top and bottom
- High dimensional stability
- No strain on the wiring when the enclosure is open
- Circuits marked on an inscribable label



Secure wall mounting.

With four screws passing from the inside through fastening straps on the outside.

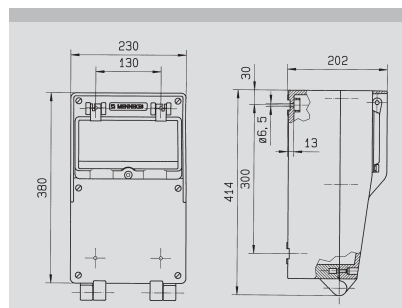


MENNEKES EverGUM receptacle combinations

pre-wired for installation. Solid rubber enclosure, **signal yellow**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



The drawing is applicable for products on this and the following page.



Enclosure size: 380 x 230 mm

Cable entry:

1 x M 40 at the top **with threaded cable gland** and

1 x M 40 plugged at the top

2 x M 40 plugged at the bottom

Space for 12 modules.



2 CEE receptacles 16A, 5p, 400V
2 Neozed D 01, 3p
2 SCHUKO® receptacles 16A, 230V
1 Neozed D 01, 1p
preferably with connection for
2 cables of up to 5 x 25 mm²

Part no. 70035



2 CEE receptacles 32A, 5p, 400V
2 Neozed D 02, 3p
2 SCHUKO® receptacles 16A, 230V
1 Neozed D 01, 1p
preferably with connection for
2 cables of up to 5 x 25 mm²


Part no. 70036



1 CEE receptacle 32A, 5p, 400V
1 Neozed D 02, 3p
1 CEE receptacle 16A, 5p, 400V
1 Neozed D 01, 3p
3 SCHUKO® receptacles 16A, 230V
3 Neozed D 01, 1p
preferably with connection for
2 cables of up to 5 x 25 mm²

Part no. 70039



1 CEE receptacle 63A, 5p, 400V
1 Neozed D 02, 3p
2 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  63A, I_{ΔN} = 0.03A


Part no. 70006



1 CEE receptacle 32A, 5p, 400V
1 MCB 32A, 3p, C
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
3 SCHUKO® receptacles 16A, 230V
3 MCB's 16A, 1p, B
preferably with connection for
2 cables of up to 5 x 25 mm²

Part no. 70007



1 CEE receptacle 32A, 5p, 400V
1 CEE receptacle 16A, 5p, 400V
1 Neozed D 01, 3p
3 SCHUKO® receptacles 16A, 230V
3 Neozed D 01, 1p
1 RCD  40A, I_{ΔN} = 0.03A
preferably with connection for
2 cables of up to 5 x 25 mm²

Part no. 70042


MENNEKES EverGUM receptacle combinations

pre-wired for installation. Solid rubber enclosure, **signal yellow**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.


Protection type  IP 44



2 CEE receptacles 16A, 5p, 400V
2 MCB's 16A, 3p, C
3 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  40A, $I_{\Delta N} = 0.03A$


Part no. 70426



1 CEE receptacle 32A, 5p, 400V
1 MCB 32A, 3p, C
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
2 SCHUKO® receptacles 16A, 230V
1 MCB 16A, 1p, B
1 RCD  63A, $I_{\Delta N} = 0.03A$
connections for two cables of
up to 5 x 25mm²

Part no. 70005



2 CEE receptacles 32A, 5p, 400V
2 MCB's 32A, 3p, C
2 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  63A, $I_{\Delta N} = 0.03A$

Part no. 70004



1 CEE receptacle 32A, 5p, 400V
1 CEE receptacle 16A, 5p, 400V
3 SCHUKO® receptacles 16A, 230V
with DIN rail for installation devices
(max. 12 modules)
wiring up to the DIN rail, N and PE
connection rails

Part no. 70428



Fastening straps for external
fastening of EverGUM
combinations.

Set: 4 pieces with screws packed
in a plastic bag

Part no. 41445

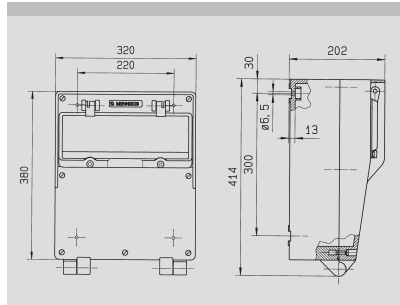
**Other variations
on request!**

MENNEKES EverGUM receptacle combinations

pre-wired for installation. Solid rubber enclosure, **signal yellow**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



The drawing is applicable for products on this and the following page.



Other variations on request!

Enclosure size: 380 x 320 mm

Cable entry:

1 x M 40 at the top **with threaded cable gland** and

1 x M 40 plugged at the top

2 x M 40 plugged at the bottom


Space for 16 modules.



- 1 CEE receptacle 32A, 5p, 400V
- 1 MCB 32A, 3p, C
- 2 CEE receptacles 16A, 5p, 400V
- 2 MCB's 16A, 3p, C
- 4 SCHUKO® receptacles 16A, 230V
- 4 MCB's 16A, 1p, B
- preferably with connection for 2 cables of up to 5 x 25 mm²

Part no. 70009



- 1 CEE receptacle 63A, 5p, 400V
- 1 CEE receptacle 32A, 5p, 400V
- 1 Neozed D 02, 3p
- 1 CEE receptacle 16A, 5p, 400V
- 1 Neozed D 01, 3p
- 4 SCHUKO® receptacles 16A, 230V
- 2 Neozed D 01, 1p
- 1 RCD  63A, 4p, I_{ΔN} = 0.03A
- preferably with connection for 2 cables of up to 5 x 25 mm²


Part no. 71061



- 1 CEE receptacle 63A, 5p, 400V
- 1 Neozed D 02, 3p
- 1 CEE receptacle 32A, 5p, 400V
- 1 Neozed D 02, 3p
- 1 CEE receptacle 16A, 5p, 400V
- 1 Neozed D 01, 3p
- 4 SCHUKO® receptacles 16A, 230V
- 2 Neozed D 01, 1p
- preferably with connection for 2 cables of up to 5 x 25 mm²

Part no. 70701



- 1 CEE receptacle 32A, 5p, 400V
- 1 MCB 32A, 3p, C
- 2 CEE receptacles 16A, 5p, 400V
- 2 MCB's 16A, 3p, C
- 4 SCHUKO® receptacles 16A, 230V
- 2 MCB's 16A, 1p, B
- 1 RCD  63A, 4p, I_{ΔN} = 0.03A
- preferably with connection for 2 cables of up to 5 x 25 mm²


Bestell-Nr. 71064



- 1 CEE receptacle 63A, 5p, 400V
- 1 MCB 63A, 3p, C
- 1 CEE receptacle 32A, 5p, 400V
- 1 MCB 32A, 3p, C
- 1 CEE receptacle 16A, 5p, 400V
- 1 MCB 16A, 3p, C
- 4 SCHUKO® receptacles 16A, 230V
- 2 MCB's 16A, 1p, B
- preferably with connection for 2 cables of up to 5 x 25 mm²

Part no. 71062



- 1 CEE receptacle 63A, 5p, 400V
- 1 CEE receptacle 32A, 5p, 400V
- 1 MCB 32A, 3p, C
- 1 CEE receptacle 16A, 5p, 400V
- 1 MCB 16A, 3p, C
- 4 SCHUKO® receptacles 16A, 230V
- 2 MCB's 16A, 1p, B
- 1 RCD  63A, 4p, I_{ΔN} = 0.03A
- preferably with connection for 2 cables of up to 5 x 25 mm²

Part no. 71063


MENNEKES EverGUM receptacle combinations

pre-wired for installation. Solid rubber enclosure, **signal yellow**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.


Protection type  IP 44



1 CEE receptacle 63A, 5p, 400V
1 Neozed D 02, 3p
1 CEE receptacle 32A, 5p, 400V
1 MCB 32A, 3p, C
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
2 SCHUKO® receptacles 16A, 230V
1 MCB 16A, 1p, B
1 RCD  63A, $I_{\Delta N} = 0.03A$

Part no. 70545



As above, but
1 RCD  100A, $I_{\Delta N} = 0.03A$

Part no. 70014

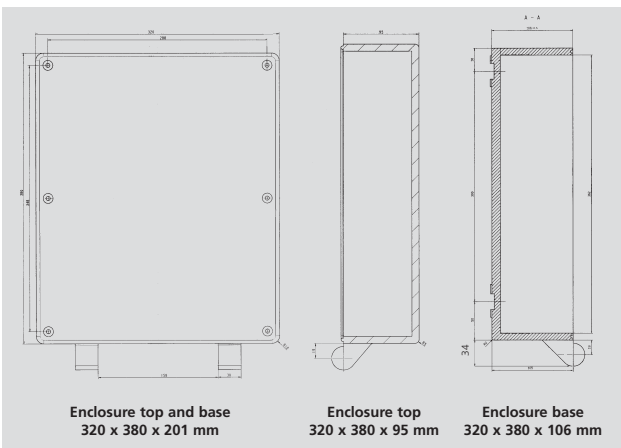
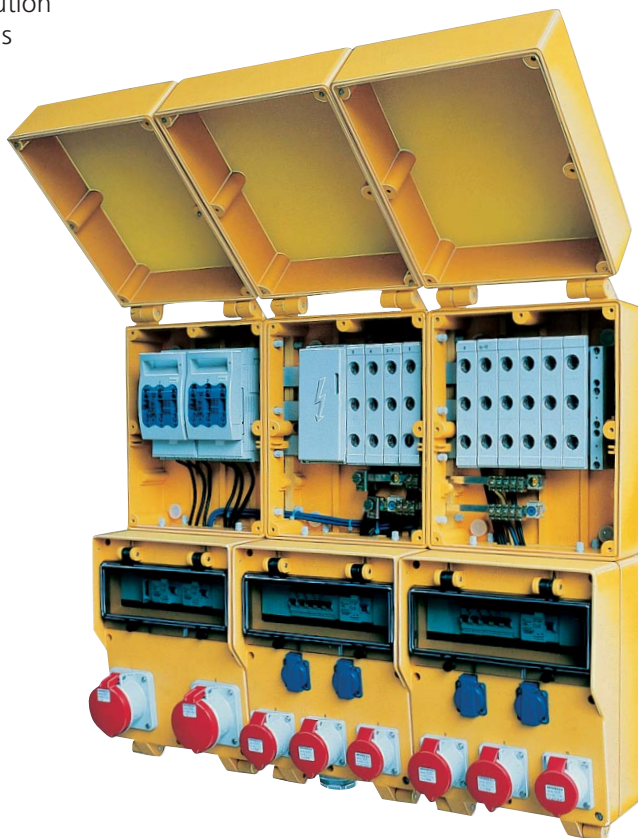


1 CEE receptacle 32A, 5p, 400V
2 CEE receptacles 16A, 5p, 400V
4 SCHUKO® receptacles 16A, 230V
with DIN rail for installation devices
(max. 16 modules)
wiring up to the DIN rail, N and PE
connection rails

Part no. 70687

EverGUM empty enclosures from solid rubber for wall mounting

The new closed wall mounted enclosure is the ideal solution for safe power distribution of higher loads, e.g. with bus systems or larger conductor cross sections. The pictures illustrate our flexibility to meet customers' requirements. Please contact our specialists for industrial applications or project engineering. We will be pleased to answer your questions.



EverGUM
empty enclosures from
solid rubber
for wall mounting,
hinged cover without
openings, with N and
PE terminal

Colour: signal yellow

 IP 44

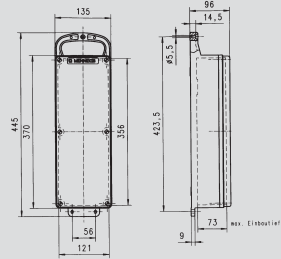
Part no. 70850

MENNEKES EverGUM receptacle strips

pre-wired for installation, with hinging clip. Solid rubber enclosure, **signal yellow**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



The drawing is applicable for products on this page.

Enclosure size:
445 x 135 mm



**Other variations
on request!**



6 SCHUKO® receptacles 16A, 230V
Feeder cable 2 m H07RN-F3G1.5
with SCHUKO® plug 16A, 230V

Part no. 70026

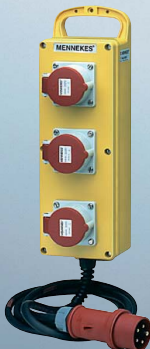
6 SCHUKO® receptacles 16A, 230V
Feeder cable 2 m H07RN-F5G2.5
with CEE plug 16A, 5p, 400V

Part no. 70031



1 CEE receptacle 16A, 5p, 400V
4 SCHUKO® receptacles 16A, 230V
Feeder cable 2 m H07RN-F5G2.5
with CEE plug 16A, 5p, 400V

Part no. 70028



3 CEE receptacles 16A, 5p, 400V
Feeder cable 2 m H07RN-F5G2.5
with CEE plug 16A, 5p, 400V


Part no. 70029



3 CEE receptacles 32A, 5p, 400V
Feeder cable 2 m H07RN-F5G4
with CEE plug 32A, 5p, 400V


Part no. 70034



4 SCHUKO® receptacles 16A, 230V
1 RCD  25A, 2p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F3G1.5
with SCHUKO® plug 16A, 230V


Part no. 70027



4 SCHUKO® receptacles 16A, 230V
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G2.5
with CEE plug 16A, 5p, 400V


Part no. 70032



1 CEE receptacle 16A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G2.5
with CEE plug 16A, 5p, 400V


Part no. 70033



1 CEE receptacle 32A, 5p, 400V
2 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G4
with CEE plug 32A, 5p, 400V

Part no. 70030



1 CEE receptacle 32A, 5p, 400V
6 SCHUKO® receptacles 16A, 230V
3 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G4
with CEE plug 32A, 5p, 400V

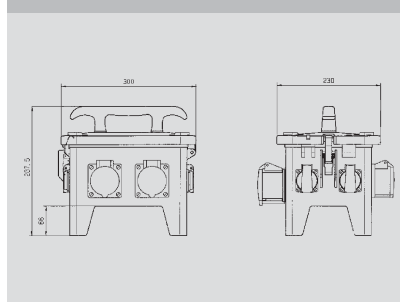
Part no. 70106

MENNEKES EverGUM receptacle combinations, compact

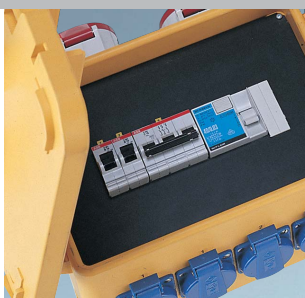
pre-wired for installation. Solid rubber enclosure, **signal yellow**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44



The drawing is applicable for products on this and the following page.



Enclosure size:
300 x 230 x 287.5 mm

- MCB's and RCD's directly accessible after opening the cover, all live parts are shock hazard protected

according to BGV A2 even with open cover.

- Screw or padlock offers additional safety.



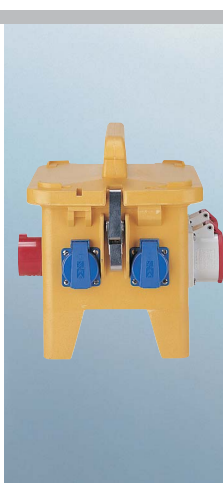
1 CEE receptacle 32A, 5p, 400V
2 CEE receptacles 16A, 5p, 400V
2 Neozed D 01, 3p
4 SCHUKO® receptacles 16A, 230V
2 Neozed D 01, 1p
Feeder cable 2 m H07RN-F5G4 with CEE plug 32A, 5p, 400V


Part no. 70433



As above, but with inlet

Part no. 70276



1 CEE receptacle 32A, 5p, 400V
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G4 with CEE plug 32A, 5p, 400V


Part no. 70351



As above, but with inlet


Part no. 70349



2 CEE receptacles 16A, 5p, 400V
4 SCHUKO® receptacles 16A, 230V
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G2.5 with CEE plug 16A, 5p, 400V

Part no. 70352



2 CEE receptacles 16A, 5p, 400V
4 SCHUKO® receptacles 16A, 230V
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
with inlet 16A, 5p, 400V

Part no. 70350



2 CEE receptacles 16A, 5p, 400V
4 SCHUKO® receptacles 16A, 230V
Feeder cable 2 m H07RN-F5G2.5 with CEE plug 16A, 5p, 400V


Part no. 70434



2 CEE receptacles 16A, 5p, 400V
4 SCHUKO® receptacles 16A, 230V
with inlet 16A, 5p, 400V

Part no. 70435




2 CEE receptacles 16A, 5p, 400V
2 MCB's 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G4 with CEE plug 32A, 5p, 400V

Part no. 70436


As above, but with inlet

Part no. 70437



8 SCHUKO® receptacles 16A, 230V
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G2.5 with CEE plug 16A, 5p, 400V

Part no. 70438

8 SCHUKO® receptacles 16A, 230V
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
with inlet 16A, 5p, 400V

Part no. 70439


MENNEKES EverGUM receptacle combinations, compact

pre-wired for installation. Solid rubber enclosure, **signal yellow**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44




2 CEE receptacles 16A, 5p, 400V
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G2.5
with CEE plug 16A, 5p, 400V

Part no. 70412

As above, but
with inlet

Part no. 70410




1 CEE receptacle 32A, 5p, 400V
2 CEE receptacles 16A, 5p, 400V
2 MCB's 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 3 m H07RN-F5G4
with CEE plug 32A, 5p, 400V

Part no. 70734

As above, but
with inlet


Part no. 70531



6 SCHUKO® receptacles 16A, 230V
3 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
1 inlet 16A, 5p, 400V


Part no. 70702



8 SCHUKO® receptacles 16A, 230V
4 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G2.5
with CEE plug 16A, 5p, 400V

Part no. 70724




3 CEE receptacles 16A, 5p, 400V
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G2.5
with CEE plug 16A, 5p, 400V

Part no. 70416

As above, but
with inlet

Part no. 70414



1 CEE receptacle 32A, 5p, 400V
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, K
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, K
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 2 m H07RN-F5G4
with CEE plug 32A, 5p, 400V

Part no. 70640

As above, but
with inlet

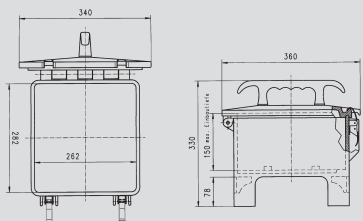
Part no. 70660

MENNEKES EverGUM receptacle combinations, maxi

pre-wired for installation. Solid rubber enclosure, **signal yellow**.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Protection type  IP 44




The drawing is applicable for products on this page.

Enclosure size:
360 x 340 x 330 mm



Other variations on request!




1 CEE receptacle 63A, 5p, 400V
1 CEE receptacle 32A, 5p, 400V
1 Neozed D 02, 3p
1 CEE receptacle 16A, 5p, 400V
1 Neozed D 01, 3p
4 SCHUKO® receptacles 16A, 230V
2 Neozed D 01, 1p
1 RCD  63A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 3 m H07RN-F5G10 with CEE plug 63A, 5p, 400V

Part no. 70440

As above, but with inlet

Part no. 70441




1 CEE receptacle 63A, 5p, 400V
1 CEE receptacle 32A, 5p, 400V
1 MCB 32A, 3p, C
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  63A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 3 m H07RN-F5G10 with CEE plug 63A, 5p, 400V

Part no. 70025

As above, but with inlet

Part no. 70049

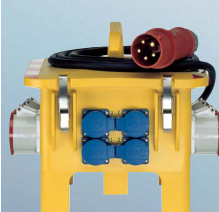



2 CEE receptacles 32A, 5p, 400V
2 MCB's 32A, 3p, C
2 CEE receptacles 16A, 5p, 400V
2 MCB's 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  63A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 3 m H07RN-F5G10 with CEE plug 63A, 5p, 400V

Part no. 70442

As above, but with inlet

Part no. 70443



2 CEE receptacles 32A, 5p, 400V
2 CEE receptacles 16A, 5p, 400V
2 MCB's 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 3 m H07RN-F5G4 with CEE plug 32A, 5p, 400V

Part no. 70444

As above, but with inlet

Part no. 70445




1 CEE receptacle 32A, 5p, 400V
3 CEE receptacles 16A, 5p, 400V
3 Neozed D 01, 3p
4 SCHUKO® receptacles 16A, 230V
2 Neozed D 01, 1p
Feeder cable 3 m H07RN-F5G4 with CEE plug 32A, 5p, 400V

Part no. 70446

As above, but with inlet

Part no. 70447



1 CEE receptacle 32A, 5p, 400V
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
8 SCHUKO® receptacles 16A, 230V
4 MCB's 16A, 1p, B
1 RCD  40A, 4p, $I_{\Delta N} = 0.03A$
Feeder cable 3 m H07RN-F5G4 with CEE plug 32A, 5p, 400V

Part no. 70448

As above, but with inlet

Part no. 70449



■ Receptacles in enclosures of stainless steel or other metals

**Stainless steel
surface mounted
receptacle
combinations,
for wall
or with column**
Page 194 and 195



**Stainless steel
flush mounted
receptacle
combinations**
Page 196



**Stainless steel
flush mounted
combinations,
for water and
power connection**
Page 197



Power posts
Page 198 and 199



CombiTOWER®
Page 200 and 201



**Stainless steel
weather shields,
for wall or
with column**
Page 202 and 203



■ Receptacles in enclosures of stainless steel and other metals

Power and water on site.



Exacting ambience demand sophisticated, reliable equipment. Wherever dependable protection against unauthorised access is required, when live as well as when switched off, MENNEKES stainless steel combinations, either surface or flush mounted, are the equipment of choice.

Power supply always close by: In the workplace, in the garden, in leisure parks ... and even in wintry conditions thanks to frost-proof taps with automatic emptying.



Easy. Swiftly installed. Wind and weather proof.



Outdoor electric appliances are exposed to unfavourable climatic conditions. Our modular system of weather shields and supports enables individual combinations of installations fixed to the wall and on the ground, with columns.

Rugged. Full of energy. Vandalism-proof.

Steel power posts provide a safe means of energy supply, protection against trespassing or the blocking of routes. Hot-dip galvanised and powder coated, these are available in various sizes.



Safe. Practical. Timelessly elegant.



**Power. Compressed air. Water.
Outdoors and indoors.**

The solution: CombiTOWER®.

Short routes to your energy source for industry, workshops, assembly shops, loading platforms, etc.

- Protection type IP 44 with closed door, even when appliances are plugged in.
- Cable entry with closed door.
- Safety lock protects against unauthorised access.



Material properties. Important information and recommendations.

Our stainless steel products are made from high grade stainless V2A steel (material 1.4301). They are excellently suited to indoor and outdoor use.

However, in covered swimming pools, in areas where salt water is present or in electroplating plants, substances such as salt, chlorine or grinding dust in connection with alloy components of V2A stainless steel may result in chemical reactions which give rise to rust. This can be prevented by applying an additional transparent lacquer coating or by powder coating or by the use of V4A stainless steel, e.g. 1.4404.

Please contact our customer service department who will be pleased to provide exhaustive and expert advice.

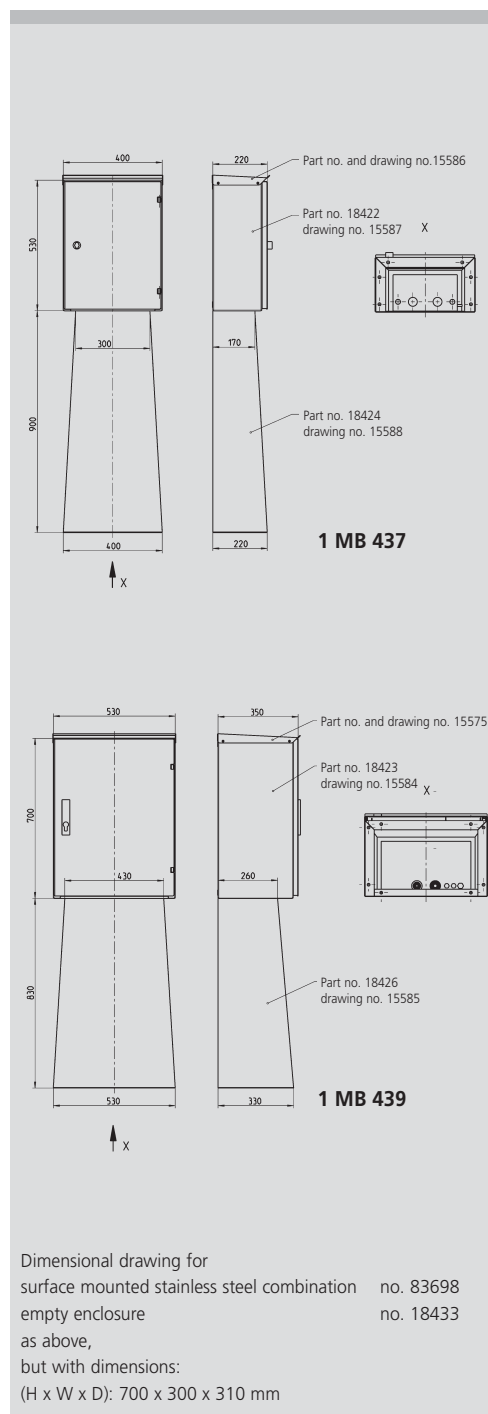
MENNEKES surface mounted receptacle combinations in stainless steel, for wall fixing or with column

Stainless steel enclosure (material 1.4301), surface with a flat finish (K240).
Protection type Δ IP 44 with closed door.

High protection factor and attractive design.

Surface mounted stainless steel combinations produced by MENNEKES are recommended for all applications where equipment must be protected from unauthorised access when live as well as when switched off, while at the same time the visual appearance is important.

The rugged construction and timeless elegance of flat finished stainless steel can meet these requirements.



Surface mounted receptacle combinations from flat finished stainless steel

Dimensions (H x W x D):
530 x 400 x 220 mm,
standard door with stop on right,
front door with swing handle
and cylinder lock – lockable even
when plugs are connected.
Cable entry / connection options:
2 x entry nipples M32 on bottom,
2 x brass screw plugs M16 on bottom,
terminal (shock hazard protected
to BGV A2)
for cables up to 5 x 25 mm²

- 1 CEE receptacle 32A, 5p, 400V
- 1 MCB 32A, 3p, C
- 1 CEE receptacle 16A, 5p, 400V
- 1 MCB 16A, 3p, C
- 2 SCHUKO® receptacles 16A, 230V
- 2 MCB's 16A, 1p, B
- 1 RCD \square 63A, 4p, $I_{\Delta N} = 0.03A$

Part no. 83744

Surface mounted receptacle combinations from flat finished stainless steel

Dimensions (H x W x D):
700 x 530 x 350 mm,
standard door stop on the right,
front door with swing handle
and cylinder lock – lockable even when
plugs are connected.
2 x cable entry bushes on bottom, suitable
for cable diameters from 13 to 49 mm,
2 x brass screw plugs M16 on bottom,
1 x brass screw plug M20 on bottom,
terminal (shock hazard protected
to BGV A2)
for 2 cables up to 5 x 50 mm²

- 1 CEE receptacle 125A, 5p, 400V
- 1 NH 00/3P switched fuses
- 1 CEE receptacle 63A, 5p, 400V
- 1 MCB 63A, 3p, C
- 1 CEE receptacle 32A, 5p, 400V
- 1 MCB 32A, 3p, C
- 1 CEE receptacle 16A, 5p, 400V
- 1 MCB 16A, 3p, C
- 3 SCHUKO® receptacles 16A, 230V
- 3 MCB's 16A, 1p, B
- Back-up fuses:
- 2 Neozed D 02, 3p (E18)
with safety fuses 63A
- 2 RCD's \square 63A, 4p, $I_{\Delta N} = 0.03A$

Part no. 83704

Surface mounted receptacle combinations from flat finished stainless steel

Dimensions (H x W x D):
700 x 300 x 310 mm,
standard door stop on the right,
front door with swing handle
and cylinder lock – lockable even when
plugs are connected.
2 x cable entry bushes on bottom, suitable
for cable diameters from 13 to 49 mm,
1 x brass screw plug M20 on bottom,
terminal (shock hazard protected
to BGV A2)
for 2 cables up to 5 x 25 mm²

- 1 CEE receptacle 63A, 5p, 400V
- 1 CEE receptacle 32A, 5p, 400V
- 1 MCB 32A, 3p, C
- 1 CEE receptacle 16A, 5p, 400V
- 1 MCB 16A, 3p, C
- 4 SCHUKO® receptacles 16A, 230V
- 2 MCB's 16A, 1p, B
- 1 RCD \square 63A, 4p, $I_{\Delta N} = 0.03A$

Part no. 83698

Each surface mounted stainless steel receptacle combination comes with 1 set (4 pcs.) of **fixing straps** in a bag.



1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
4 MCB's 16A, 1p, B
1 RCD 40A, 4p, $I_{\Delta N} = 0.03A$
Part no. 83725



Accessories

**Surface mounted enclosure
from flat finished stainless steel**
Dimensions 530 x 400 x 220 mm
Part no. 18422

**Column
flat finished stainless steel**
Dimensions (H x W): 900 x 400 mm
Part no. 18424

Galvanised mounting plate
Part no. 18416

**Weather shield
flat finished stainless steel**
Part no. 15586



1 CEE receptacle 63A, 5p, 400V
1 MCB 63A, 3p, C
2 CEE receptacles 32A, 5p, 400V
2 MCB's 32A, 3p, C
2 CEE receptacles 16A, 5p, 400V
2 MCB's 16A, 3p, C
3 SCHUKO® receptacles 16A, 230V
3 MCB's 16A, 1p, B
Back-up fuses:
2 Neozed D 02, 3p (E18)
with safety fuses 63A
2 RCD's 63A, 4p, $I_{\Delta N} = 0.03A$
Part no. 83705

1 CEE receptacle 63A, 5p, 400V
1 MCB 63A, 3p, C
1 CEE receptacle 32A, 5p, 400V
1 MCB 32A, 3p, C
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
4 MCB's 16A, 1p, B
Back-up fuses:
2 Neozed D 02, 3p (E18)
with safety fuses 63A
2 RCD's 63A, 4p, $I_{\Delta N} = 0.03A$
Part no. 83706

Accessories

**Surface mounted enclosure
from flat finished stainless steel**
Dimensions: 700 x 530 x 350 mm
Part no. 18423

**Column
flat finished stainless steel**
Dimensions (H x W): 830 x 330 mm
Part no. 18426

Galvanised mounting plate
Part no. 15577

**Weather shield
flat finished stainless steel**
Part no. 15575



Accessories

**Surface mounted enclosure
from flat finished stainless steel**
Dimensions: 700 x 300 x 310 mm
Part no. 18433

Other accessories:
for enclosure size
700 x 300 x 310 mm
Galvanised mounting plate
Part no. 18442

**Weather shield
flat finished stainless steel**
Part no. 18438



Weather shield from flat finished stainless steel, available for the three sizes of enclosure shown on this page.

**Column
flat finished stainless steel**

- detachable back panel for easy assembly
- 1 C-profile busbar on the inside for cord grip

Cord grips not included in the scope of supply.
(Columns available only for the enclosure sizes 530 x 400 x 220 mm and 700 x 530 x 350 mm)

MENNEKES stainless steel flush mounted receptacle combinations

Front stainless steel (material 1.4301),

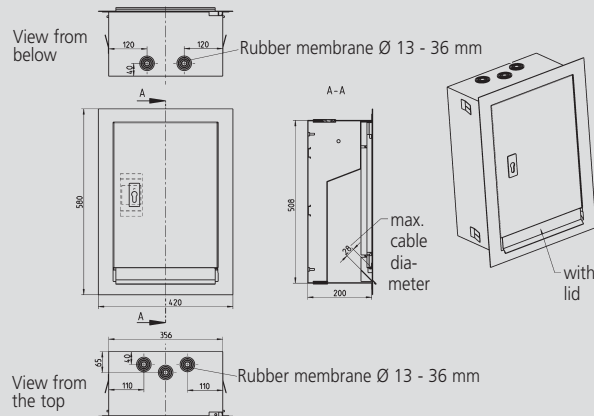
flat finished (K240).

Protection type IP 43 with closed door.

**Suits both, modern and classical architecture.
Clean. Safe. Timelessly elegant.**

The MENNEKES policy aims at combining practical power supply solutions with architectural requirements.

Flush mounted stainless steel combinations offer the ideal solution for use in public buildings such as theatres, sports stadiums and event arenas.



Flush mounted combinations,
consisting of:

**Front door and trim frame
flat finished stainless steel**

Dimensions (H x W):
580 x 420 mm
front door,
lockable with cylinder,
lockable even when plugs
are connected,
door stop on the right

**Flush mounted stainless steel
enclosure**

Dimensions (H x W x D):
520 x 360 x 200 mm
cable entry bush
3 x top
2 x bottom,
suitable for cable diameters
from 13 to 49 mm



1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
4 SCHUKO® receptacles 16A, 230V
4 MCB's 16A, 1p, B
1 RCD 40A, 4p, $I_{\Delta N} = 0.03A$
connections for 2 cables of
up to 5 x 25 mm²

Part no. 84373



1 CEE receptacle 32A, 5p, 400V
1 MCB 32A, 3p, C
1 CEE receptacle 16A, 5p, 400V
1 MCB 16A, 3p, C
2 SCHUKO® receptacles 16A, 230V
2 MCB's 16A, 1p, B
1 RCD 63A, 4p, $I_{\Delta N} = 0.03A$
connections for 2 cables of
up to 5 x 25 mm²

Part no. 84374



Accessories:

**Flush mounted enclosure
stainless steel**

Dimensions (H x W x D):
520 x 360 x 200 mm

**with front door and trim frame
from flat finished stainless steel**

Dimensions (H x W):
580 x 420 mm

Part no. 18427

Galvanised mounting plate

Part no. 18416

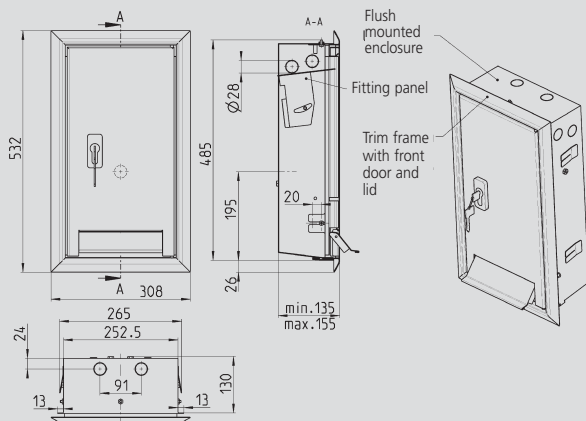
MENNEKES stainless steel flush mounted receptacle combinations for water and power connection

Trim frame and flush mounted enclosure from stainless steel (material 1.4404) flat finished (K240).

Protection type  IP 44 with closed door.

Power and water on site.

Power supply always close by: In the workplace, in the garden, in leisure parks ... and even in wintry conditions thanks to frost-proof taps with automatic emptying.



Flush mounted combination for water and power connections consisting of:

Front door and trim frame flat finished stainless steel

Dimensions (H x W):

532 x 308 mm

front door, lockable with cylinder, lockable even when plugs or hoses are connected, door stop on the right

Flush mounted stainless steel enclosure

Dimensions (H x W x D):

485 x 265 x 130 mm

cable entry bush 2 x top, suitable for cable diameters up to 25 mm (2 cable entries on top left and top right each to be cut out),

1 pivoting mounting angle, pre-drilled to accommodate optionally:

1 double Cepex receptacle, product group 1027 (CEE 16A or SCHUKO®)

2 single wall-mounted CEPEX receptacles (CEE receptacle 16A or SCHUKO®)

1 combination enclosure 170 x 118 mm

Accommodation for frost-proof tap, 1/2" (part no. 18440)

Part no. 18432

Important note:

According to VDE regulations, the above stainless steel combination for power and water connection must be protected by an RCD (0.03A).



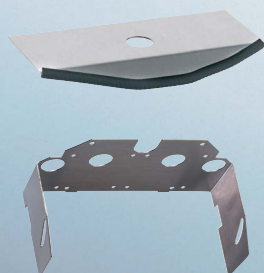
Accessories

Frost-proof outdoor tap

with automatic emptying function, angled gland for 1/2" hoses, rated pressure: PN 16, flexible DN 15 connection with gland, all metal parts which come into contact with liquids are made from red brass, with black plastic handle and blue marking plate, outlet with connected collar and EPDM seal with DIN/DVGW sound insulation

approval including pipe air-release valve and check valve as safety devices to DIN EN 1717 and DIN 1988 (part 4), water taps preassembled by others. 2 hexagon head screws to fasten the water tap are enclosed as detached parts.

Part no. 18440





The pivoting mounting angle and the splash guard from part of the scope of supply.



Variations of stainless steel flush mounted combinations for power and water connection.

MENNEKES power posts

Made from steel. High energy. Vandalism-proof.
Protection type  IP 44 or  IP 67.

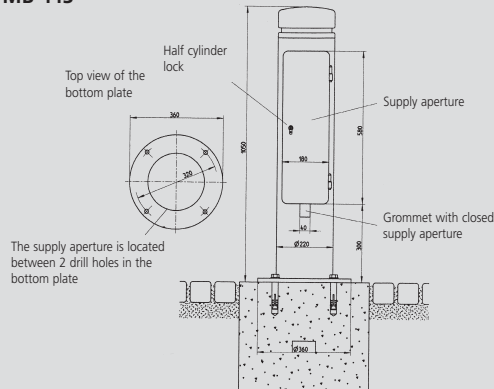
Power posts provide a secure means of energy supply and at the same time a means of roping off or protecting market places, fairgrounds, harbours, arenas for outdoor events, areas of gardens and parks.

Hot-dip galvanised and powder coated power posts are available in various sizes (diameters).

The door is provided with a cylinder lock. Energy may be drawn when the door is open or – for reasons of safety – closed.

Special colours according to the RAL colour chart available upon request.

1 MB 443

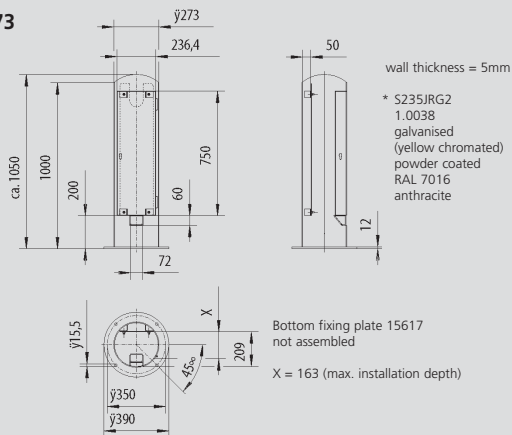


Power post

from steel tube, wall thickness 4.0 mm,
hot-dip galvanised, powder-coated,
colour: red,
hinged supply aperture
with safety lock,
dimensions (H x Ø): 1050 x 220 mm (inside)
weight: approx. 45 kg

Aperture at bottom
(H x W) 50 x 40 mm
Fixing flange: Ø 360 mm
with 4 fixing holes 15 mm
For fixing to an existing fundament.

1 MB 473

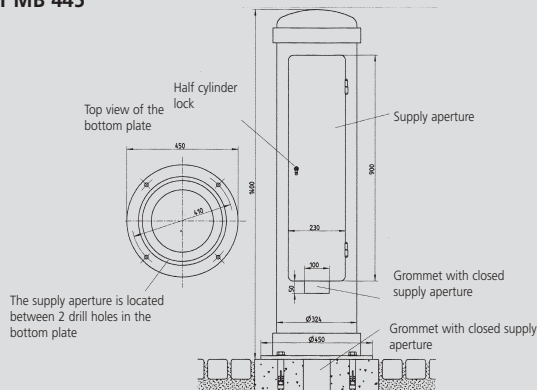


Power post

from steel tube, wall thickness 4.5 mm,
hot-dip galvanised, powder-coated,
colour: anthracite (RAL 7016),
hinged supply aperture
with safety lock,
dimensions (H x Ø): 1050 x 273 mm (inside)
weight: approx. 60 kg

Aperture at bottom
(H x W) 60 x 70 mm
Fixing flange: Ø 390 mm
with 4 fixing holes 15.5 mm
For fixing to an existing fundament.

1 MB 445



Power post

from steel tube, wall thickness 4.5 mm,
hot-dip galvanised, wet painted,
colour: anthracite
iron glitter DB703,
hinged supply aperture
with safety lock,
dimensions (H x Ø): 1400 x 325 mm (inside)
weight: approx. 100 kg

Aperture at bottom
(H x W) 50 x 100 mm
Fixing flange: Ø 450 mm
with 4 fixing holes 15 mm
For fixing to an existing fundament.



	<p>Type: 1 CEE receptacle 16A, 5p, 400V 1 MCB 16A, 3p, C 2 SCHUKO® receptacles 16A, 230V 1 MCB 16A, 1p, B</p> <p>Cable entry: 2 x M 25 open at the top connections for 1 cable up to 5 x 6 mm²</p> <p>Part no. 84335</p>		<p>Enclosure 18500 RO</p> <p>Mounting plate 15561</p>
	<p>Type: 1 CEE receptacle 32A, 5p, 400V 1 MCB 32A, 3p, C 1 CEE receptacle 16A, 5p, 400V 1 MCB 16A, 3p, C 2 SCHUKO® receptacles 16A, 230V 2 MCB's 16A, 1p, B 1 RCD  40A, 4p, I_{ΔN} = 0.03A for all receptacles</p> <p>Cable entry: 1 x M 32 open at the top 1 x M 32 plugged at the top connections for 1 cable up to 5 x 10 mm²</p> <p>Part no. 83685</p>		<p>Enclosure 18503 AG</p> <p>Mounting plate 15617</p>
	<p>Type: 1 CEE receptacle 63A, 5p, 400V 1 CEE receptacle 32A, 5p, 400V 1 MCB 32A, 3p, C 1 CEE receptacle 16A, 5p, 400V 1 MCB 16A, 3p, C 2 SCHUKO® receptacles 16A, 230V 2 MCB's 16A, 1p, B 1 RCD  63A, 4p, I_{ΔN} = 0.03A for all receptacles</p> <p>Cable entry: 2 x M 40 at the bottom 2 x M 40 at the top connections for 2 cables up to 5 x 25 mm²</p> <p>Part no. 83722</p>		<p>Enclosure 18502 AZ</p> <p>Mounting plate 15566</p>

MENNEKES stainless steel CombiTOWER®

Made from stainless steel (material 1.4301),
also suited for outdoor installations.

CombiTOWER® – short routes to your energy source.

The ideal tap for industry, workshops,
assembly shops, loading platforms, etc.

Suitable for combination with receptacles
from 16A to 63A.

Special RAL colours available upon request.

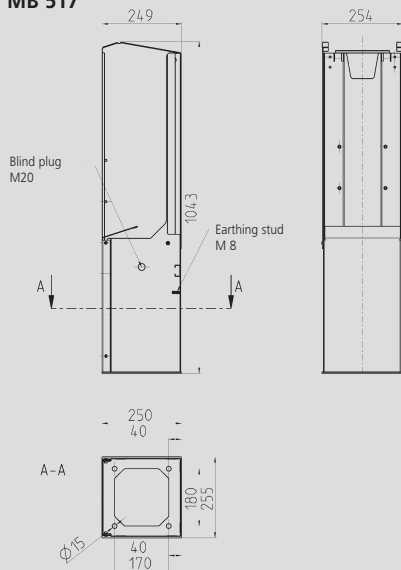
Practical handling.

Enclosure size 1043 x 254 x 249 mm:
Due to removable hood easy assembly.
The hinged covers of the AMAXX®
combinations can be opened smoothly.



CombiTOWER®
on request with
lockable door.

1 MB 517



CombiTOWER®

stainless steel
with removable cover,
painted **signal yellow** (RAL 1003),
dimensions (H x W x D):
1043 x 254 x 249 mm,
1043 x 254 x 415 mm (with door)

Part no. 15679

Part no. 15681 (with door)

CombiTOWER®

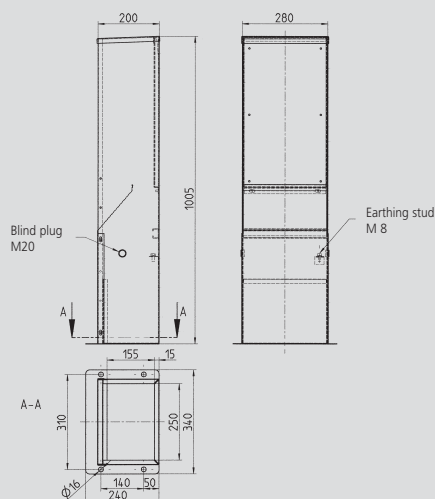
stainless steel
with removable cover,
bright finish,
dimensions (H x W x D):
1043 x 254 x 249 mm,
1043 x 254 x 415 mm (with door)

Part no. 15678

Part no. 15680 (with door)



1 MB 428



CombiTOWER®

stainless steel
with mounting plate and adjustable
front plate,
painted **signal yellow** (RAL 1003),
dimensions (H x W x D):
1005 x 280 x 200 mm

Part no. 15524

CombiTOWER®

stainless steel
with mounting plate and front plate,
bright finish,
dimensions (H x W x D):
1005 x 280 x 200 mm

Part no. 15525



Component options – CombiTOWER®.

Electrical outdoor installation easily made.

Short distance:

All the required supply connections (power, compressed air and water) are directly accessible at the workstation.

Easy installation:

Built-in standard rails for strain relief of feeder cable and M20 for pneumatic connection included. M8 ground stud integrated in the enclosure. Front plate may be staggered up or down, depending on the enclosure size.

Easy to order:

- select the required combination size with the necessary components or receptacles
- select the CombiTOWER® type for required enclosure size and quote both catalogue numbers
- the page numbers given below will help you find the right combination



CombiTOWER®

15678, 15679, 15680, 15681:

- with fixing holes for AMAXX® combinations at the rear panel: on top: 2 threaded bolts M6 + screw nut (to hook in the combination) at bottom: 2 threaded bolts M6 + screws
- with M20 blind plug for pneumatic connections
- with M8 ground stud

CombiTOWER®s shown on the left are for use of

AMAXX® combinations

at the following sizes:

260 x 225 mm,
390 x 225 mm and
520 x 225 mm
(see chapter 7)



CombiTOWER®

15524, 15525:

- with fixing holes and M5 thread in the mounting plate for different enclosure sizes, including screws and washers
- with M20 blind plug for pneumatic connections
- with M8 ground stud

CombiTOWER®s shown on the left are for use of **combinations** at the following size:

520 x 260 mm
(see chapter 7)



Enclosure size
1005 x 280 x 200 mm
with removable
mounting plate.



MENNEKES stainless steel weather shields for wall or with column

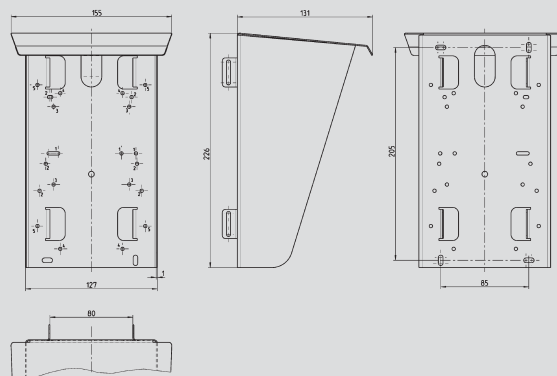
**Energy exactly where it's needed.
Simple. Swiftly installed. Wind and weather proof.**

Safe energy supply in virtually any place of application.

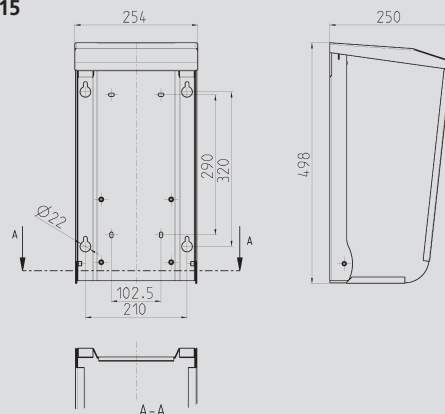
Outdoor electrical appliances are exposed to adverse weather conditions and UV radiation.

The use of different electrical appliances calls for different receptacles, which are available as handy complete combinations.

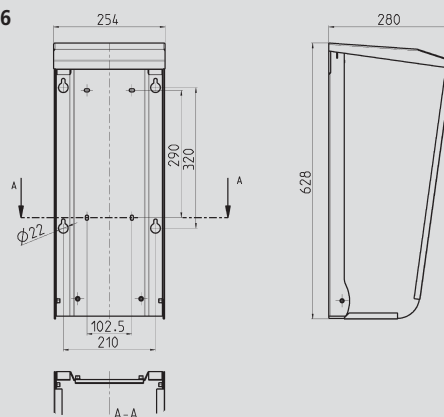
1 MB 431



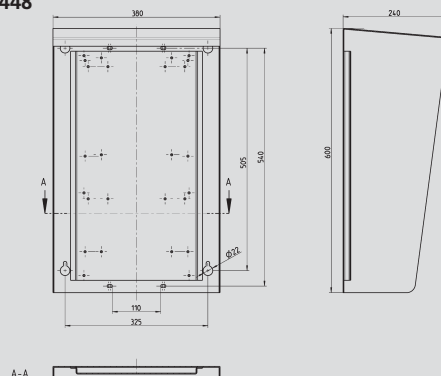
1 MB 515



1 MB 516



1 MB 448



**Column
from stainless steel
(material 1.4301)**

Surface: stainless steel,
bright finish
(basic column for the three
shields shown on the right),
height approx. 1300 mm

Part no. 15530





**Weather shield
made from
stainless steel
(material 1.4301)
with side blinds**
for wall mounting
or on a column

Dimensions (H x W x D):
226 x 155 x 131/52 mm
surface: bright finish

Part no. 15542

The examples on the right show
some of the individually designed
concepts.



Attention!
**When mounting on a
column, please order
separately:**

Stainless steel mounting clips
(2 pcs. in a set)

Ø 70 – 90 mm

Set: part no. 22986

Ø 90 – 110 mm

Set: part no. 22987

Ø 110 – 130 mm

Set: part no. 22988



**Weather shield
made from stainless steel
(material 1.4301)
with side blinds**
for wall mounting
or on a column

Dimensions (H x W x D):
498 x 254 x 250 mm
surface: bright finish

Part no. 15682



Shield 15682

Suitable to accommodate:

AMAXX® combinations
enclosure sizes
260 x 225 mm
and 390 x 225 mm



**Weather shield
made from stainless steel
(material 1.4301)
with side blinds**
for wall mounting
or on a column

Dimensions (H x W x D):
628 x 254 x 280 mm
surface: bright finish

Part no. 15683



Shield 15683

Suitable to accommodate:

AMAXX® combinations
enclosure sizes
520 x 225 mm



**Weather shield
made from stainless steel
(material 1.4301)
with side blinds**
for wall mounting
or on a column

Dimensions (H x W x D):
600 x 380 x 240/160 mm
surface: bright finish

Part no. 15531



Shield 15531

Suitable to accommodate:

Combinations
enclosure sizes
520 x 260 mm

EverGUM combinations
enclosure sizes
380 x 230 mm and
380 x 320 mm



CEE plugs and receptacles for special applications

with highly heat resistant contact carriers and nickel plated contacts

■ for use in corrosive environments

**Receptacles
and plugs AM-TOP®,
16A and 32A,
IP 44 and IP 67**
Page 208 and 209



**Connectors
and phase inverters
AM-TOP®,
16A and 32A,
IP 44 and IP 67**
Page 210 and 211

■ for use under harsh conditions

**Receptacles,
16A to 125A,
IP 44 and IP 67**
Page 212 and 213



**Plugs PowerTOP,
16A to 125A,
IP 44 and IP 67**
Page 212 to 215

**Connectors
PowerTOP,
16A to 125A,
IP 44 and IP 67**
Page 214 to 217



■ of AMELAN with high resistance to chemicals

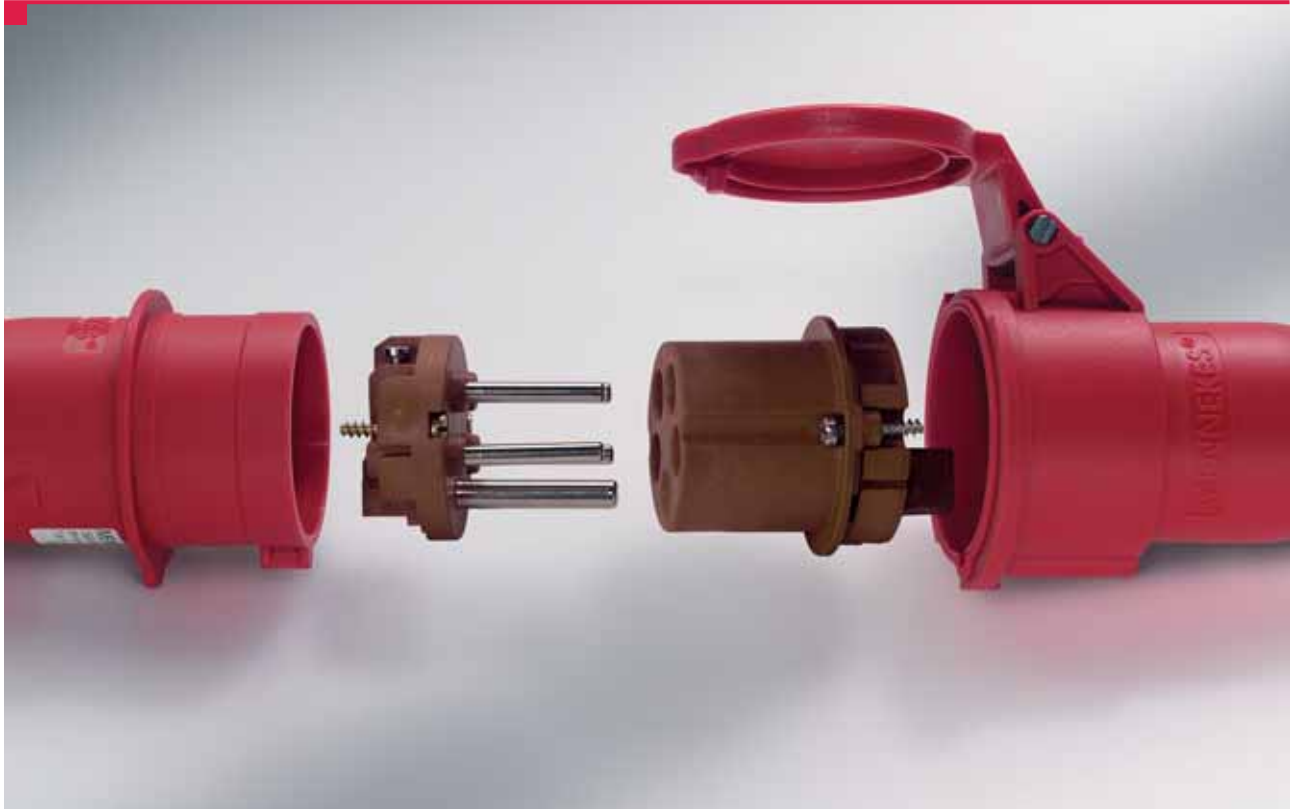
**Receptacles
and DUO receptacles,
switched and
interlocked,
16A to 63A,
IP 67**
Page 218 and 219



**AMAXX®
receptacle
combinations,
wall mounted,
IP 44 and IP 67**
Page 220 and 221

■ CEE plugs and receptacles for special applications

Plugs and receptacles for use in corrosive environments.



Highly heat resistant contact carriers.

Nickel plated contacts. 16A and 32A.

These appliances are guaranteed to be resistant to corrosive environments: High humidity, salt or acidic air, corrosive gases and vapours.

Accordingly, they are mainly used **in the food processing industry, in breweries, dairies, farms and market gardens, wineries.**

Plugs and receptacles for use under harsh conditions.

Highly heat resistant contact carriers for areas with severe conditions are standard with 63A and 125A.

For use in corrosive environments, the contacts are additionally nickel plated.



PowerTOP stands up to the harsh conditions.



A very functional design makes for easy handling when inserting and withdrawing. The external cable grip protects the gasket from strain and makes the wiring compartment larger. A glance at the outside of the plug is sufficient to check on the effectiveness of

the cable grip. Harsh environments such as **salt-, coal and slate mines, construction sites, shipyards, docks and heavy industry like steel plants** meet all requirements for quality and sturdiness.

Plugs and receptacles made of AMELAN with high resistance to chemicals.

AMELAN is the plastic used by MENNEKES for plugs and receptacles destined for use in environments where they are exposed to certain chemicals or other corrosive substances. AMELAN has excellent resistance to fuels, oils and fats, dilute acids and alkalines, cleaning fluids, most aqueous salt solutions and a wide variety of chemicals including aliphatic hydrocarbons. AMELAN is a plastic that combines high mechanical, thermal and electrical properties with excellent dimensional stability and resistance to chemicals. They are fit for action **in chemical plants, in refineries, in the food processing industry, in washdown areas and so on.**

AMELAN is resistant to:

- sea water
- detergents
- trichlorethylene
- toluene
- edible fat
- aqueous soap solution
- caustic soda
- motor oils
- milk
- caustic potash
- washing up liquid
- fruit juices
- diesel oil
- gasoline
- aqueous ammonia solution

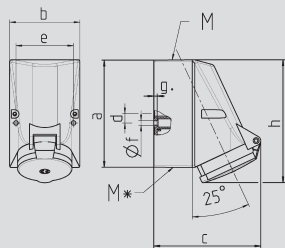


MENNEKES CEE receptacles, plugs and inlets

for use in corrosive environments

with highly heat resistant contact carrier and nickel plated contacts

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Other voltages and frequencies available on request.



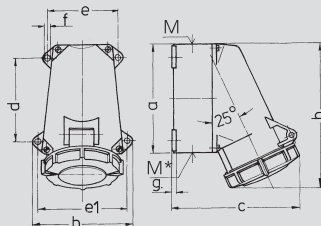
Drawing	Amp.	16			32		
1 MB 43	Poles	3	4	5	3	4	5
Dim. in mm	a	87	128	128	128	128	128
	b	64	84	84	84	84	84
	c	99	122	124	136	136	138
	d	40	11	11	11	11	11
	e	50	68	68	68	68	68
	f	4,5	5,3	5,3	5,3	5,3	5,3
	g	4	4	4	4	4	4
	h	115	144	145	158	158	160
	M	20	25	25	32	32	32
	M*	M20 2xM25 2xM25			2x M25 (blind)		
		(blind) to be cut out			to be cut out		
Max. cable diam. (mm)		15	18	18	18/25	18/25	18/25
Terminal for cond. cross section (mm²) min-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

with highly heat resistant contact carrier and nickel plated contacts, internal fixing, one cable entry at top, two blind cable entries (can be cut out) at bottom, enclosure can be turned through 180°

⚠ IP 44

Product group 1040/1041, type 20235 shown.



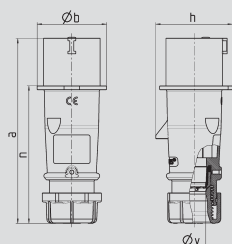
Drawing	Amp.	16			32		
1 MB 219	Poles	3	4	5	3	4	5
Dim. in mm	a	95	95	95	120	120	120
	b	102	102	102	112	112	112
	c	115	124	129	143	143	150
	d	64,2	64,2	64,2	90,2	90,2	90,2
	e	77,5	77,5	77,5	79	79	79
	e1	88	88	88	98,5	98,5	98,5
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	5	5	5	5	5	5
	h	128	128	132	160	160	160
	M	20	25	25	32	32	32
	M*	20	25	25	M 32 (blind)	M 32 (blind)	M 32 (blind)
		(blind) to be cut out			to be cut out		
Max. cable diam. (mm)		15	18	18	25	25	25
Terminal for cond. cross section (mm²) min-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

with highly heat resistant contact carrier and nickel plated contacts, with 4 external fixing holes, with one cable entry at top and one blind cable entry (can be cut out) at bottom

⚠ IP 67

Product group 1049, type 21371 shown.



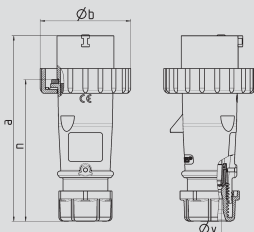
Drawing	Amp.	16			32		
2 MB 217	Poles	3	4	5	3	4	5
Dim. in mm	a	142	147	147	186	186	180
	b	53	59	67	70	70	77
	h	59	69,4	76	81	81	89,5
	n	105,2	110,5	110,5	141	141	135
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min-max.		1 —2,5	1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6

Plugs AM-TOP®

single part body, screw terminals, with highly heat resistant contact carrier and nickel plated contacts, cable gland and sealing

⚠ IP 44

Product group 2141, type 21421 shown.



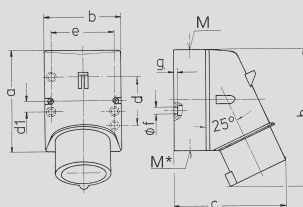
Drawing	Amp.	16			32		
2 MB 218	Poles	3	4	5	3	4	5
Dim. in mm	a	142	144	147	186	186	180
	b	70	78	87	94	94	101
	n	109	111	114	145	145	138
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min-max.		1 —2,5	1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6

Plugs AM-TOP®

single part body, screw terminals, with highly heat resistant contact carrier and nickel plated contacts, cable gland and sealing

⚠ IP 67

Product group 2149, type 21363 shown.



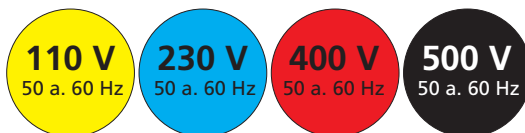
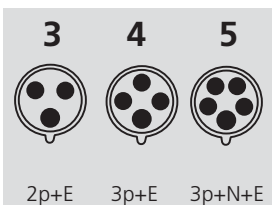
Drawing	Amp.	16			32		
2 MB 32	Poles	3	4	5	3	4	5
Dim. in mm	a	87	100	100	128	128	128
	b	64	75	75	84	84	84
	c	93	106	110	133	133	135
	d	40	—	—	—	—	—
	d1	—	10,5	10,5	11	11	11
	e	50,5	59	59	68	68	68
	f	4,5	5	5	5,3	5,3	5,3
	g	122	133	135	169	169	170
	h	20	20	20	25	25	32
	M	1 x M 20 (blind)	1 x M 20 (blind)	1 x M 20 (blind)	2 x M 25 (blind)	2 x M 25 (blind)	2 x M 25 (blind)
	M*	to be cut out			to be cut out		
Max. cable diam. (mm)		15	15	15	18/25	18/25	18/25
Terminal for cond. cross section (mm²) min-max.		1 —2,5	1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6

Inlets

with highly heat resistant contact carrier and nickel plated contacts, cable entry also possible on the rear side, enclosure base with stamped recess for quick cutting out

⚠ IP 44

Product group 2045, type 21497 shown.



Amp. Poles 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3		21075			10	180
16	4		23443	20485	22932	10	303
16	5			20235		10	333
32	4		21330	22126	20842	10	370
32	5			20162		10	424



16	3		21512			10	240
16	4			22291	21464	10	270
16	5			21371		10	315
32	4				21465	10	390
32	5			21360		10	450



16	3	22737	22302			10	113
16	4		22262	22289	20844	10	146
16	5			21421		10	166
32	4		22263	22326	20781	10	222
32	5			21428		10	252



16	3		21516			10	133
16	4		21517	20764	21491	10	165
16	5			21362		10	195
32	4		21519	20709	21492	10	245
32	5			21363		10	292



16	5			21497		10	290
32	5			21369		10	390

Protective covers for watertight plugs

see page 210/211.

Receptacles and plugs

with highly heat resistant contact carrier and nickel plated contacts
in 63A and 125A

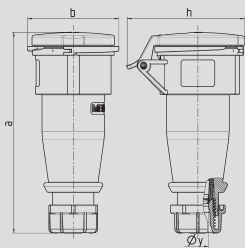
see page 212 to 215.

MENNEKES CEE connectors and phase inverters

for use in corrosive environments

with highly heat resistant contact carrier and nickel plated contacts

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Other voltages and frequencies available on request.



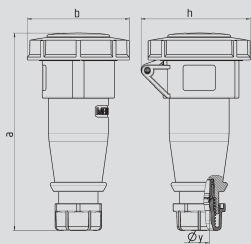
Drawing	Amp.	16			32		
		3	4	5	3	4	5
3 MB 63	Poles						
Dim. in mm	a	162	165	167	209	209	208
	b	60	68	76	82	82	89
	h	83	92	98	100	100	108
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors AM-TOP®

single part body,
screw terminals,
with highly heat resistant contact
carrier and nickel plated contacts,
cable gland and sealing

▲ IP 44

Product group 3141, type 21422 shown.



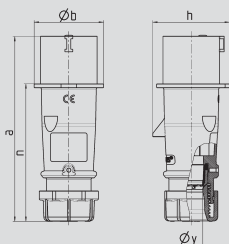
Drawing	Amp.	16			32		
		3	4	5	3	4	5
3 MB 62	Poles						
Dim. in mm	a	146	166	172	212	212	213
	b	72	79	89	96	96	102
	h	80	88	95	98	98	105
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors AM-TOP®

single part body,
screw terminals,
with highly heat resistant contact
carrier and nickel plated contacts,
cable gland and sealing

▲ IP 67

Product group 3149, type 21366 shown.



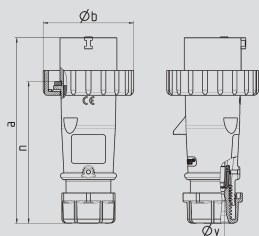
Drawing	Amp.	16			32		
		3	4	5	3	4	5
2 MB 217	Poles						
Dim. in mm	a	142	147	147	186	186	180
	b	53	59	67	70	70	77
	h	59	69,4	76	81	81	89,5
	n	105,2	110,5	110,5	141	141	135
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Phase inverters AM-TOP®

single part body,
screw terminals,
with highly heat resistant contact
carrier and nickel plated contacts,
cable gland and sealing

▲ IP 44

Product group 2244, type 22811 shown.



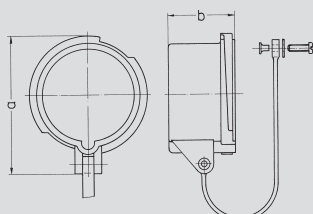
Drawing	Amp.	16			32		
		3	4	5	3	4	5
2 MB 218	Poles						
Dim. in mm	a	142	144	147	186	186	180
	b	70	78	87	94	94	101
	n	109	111	114	145	145	138
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Phase inverters AM-TOP®

single part body,
screw terminals,
with highly heat resistant contact
carrier and nickel plated contacts,
cable gland and sealing

▲ IP 44

Product group 2147, type 22814 shown.



Drawing	Amp.	16			32		
		3	4	5	3	4	5
2 MB 146	Poles						
Dim. in mm	a	70	79	86	91	91	99
	b	41	41	42	51	51	52

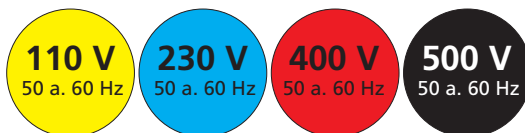
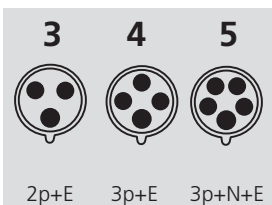
Drawing	Amp.	63			125		
		3	4	5	3	4	5
2 MB 146	Poles						
Dim. in mm	a	108	108	108	119	119	119
	b	73	73	73	79	79	79

Protective covers

for watertight plugs

▲ IP 67

Product group 8226, type 40786 shown.



Amp. Poles 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	21877	10	143
16	4	21021	10	180
16	5	21422	10	220
32	4	21606	10	256
32	5	21039	10	300



16	3	21521	10	165
16	5	21365	10	235
32	3	21523	10	270
32	5	21366	10	320



16	5	22811	10	174
32	5	22812	10	264



16	5	22814	10	195
32	5	22815	10	297

Connectors

with highly heat resistant contact carrier and nickel plated contacts
in 63A and 125A

see page 214 to 217.



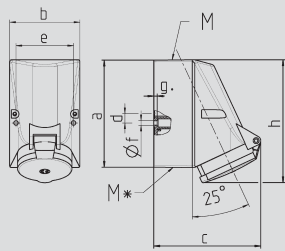
for amp.	for poles	Part numbers
16	3	40784
16	4	40778
16	5	40785
32	3	40841
32	4	40841
32	5	40786

MENNEKES CEE receptacles and plugs

for use under harsh conditions

with highly heat resistant contact carrier and nickel plated contacts

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Other voltages and frequencies available on request.



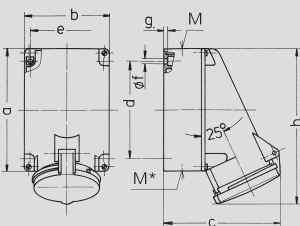
1 MB 209 Amp.	16			32		
1 MB 43 Poles	3	4	5	3	4	5
Dim. in mm						
a	87	128	128	128	128	128
b	64	84	84	84	84	84
c	99	122	124	136	136	138
d	40	11	11	11	11	11
e	50	68	68	68	68	68
f	4,5	5,3	5,3	5,3	5,3	5,3
g	4	4	4	4	4	4
h	115	144	145	158	158	160
M	20	25	25	32	32	32
M*	M20 2xM25 2xM25			2x M25 (blind)		
Max. cable diam. (mm)	(blind) to be cut out			to be cut out		
Terminal for cond. cross section (mm²) min-max.	1,5	1,5	1,5	2,5	2,5	2,5
	—4	—4	—4	—10	—10	—10

Receptacles

with highly heat resistant contact carrier and nickel plated contacts, internal fixing, one cable entry at top, two blind cable entries (to be cut out) at bottom, enclosure base can be turned 180°



Product group 1040/1041, type 20235 shown.



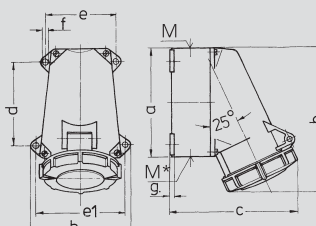
Drawing Amp.	63		
1 MB 213 Polen	3	4	5
Dim. in mm			
a	170	170	170
b	118	118	118
c	164	164	164
d	134,5	134,5	134,5
e	103	103	103
f	6,1	6,1	6,1
g	6	6	6
h	216	216	216
M	40	40	40
M*	2x M 40		
Max. cable diam. (mm)	(blind) to be cut out		
Terminal for cond. cross section (mm²) min-max.	32	32	32
	—25	—25	—25

Receptacles SoftCONTACT

with highly heat resistant contact carrier and nickel plated contacts, internal fixing, one cable entry at top, two blind cable entries (to be cut out) at bottom, enclosure base can be turned 180°



Product group 1041, type 21253 shown.



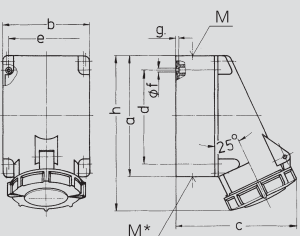
Drawing Amp.	16			32		
1 MB 219 Poles	3	4	5	3	4	5
Dim. in mm						
a	95	95	95	120	120	120
b	102	102	102	112	112	112
c	115	124	129	143	143	150
d	64,2	64,2	64,2	90,2	90,2	90,2
e	77,5	77,5	77,5	79	79	79
f	88	88	88	98,5	98,5	98,5
g	5,5	5,5	5,5	5,5	5,5	5,5
h	128	128	132	160	160	160
M	20	25	25	32	32	32
M*	20	25	25	M 32 (blind)		
Max. cable diam. (mm)	(blind) to be cut out			to be cut out		
Terminal for cond. cross section (mm²) min-max.	15	18	18	25	25	25
	1,5	1,5	1,5	2,5	2,5	2,5
	—4	—4	—4	—10	—10	—10

Receptacles

with highly heat resistant contact carrier and nickel plated contacts, with 4 external fixing holes, with one cable entry at top and one blind cable entry (to be cut out) at bottom



Product group 1049, type 21371 shown.



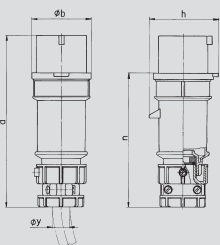
1 MB 112 Amp.	63			125		
1 MB 162/163 Poles	3	4	5	4	5	
Dim. in mm						
a	170	170	170	264	264	
b	118	118	118	163	163	
c	171	171	171	203	203	
d	134,5	134,5	134,5	240	240	
e	103	103	103	140	140	
f	6,1	6,1	6,1	8,1	8,1	
g	6	6	6	8	8	
h	216	216	216	313	313	
M	40	40	40	50	50	
M*	2x M 40 (blind)			50	50	
Max. cable diam. (mm)	(blind) to be cut out			38	38	
Terminal for cond. cross section (mm²) min-max.	32	32	32	25	25	
	—25	—25	—25	—35	—35	

Receptacles

with highly heat resistant contact carrier and nickel plated contacts 63A: SoftCONTACT



Product group 1049/1050, type 21361 shown.



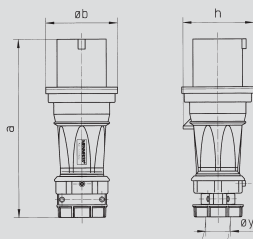
Drawing Amp.	16			32		
2 MB 174 Poles	3	4	5	3	4	5
Dim. in mm						
a	162	172	186	199	199	213
b	54	60	69	72	72	79
h	60	67	77	83	83	91
n	126	136	149	154	154	169
y	19	19	22	24,5	24,5	28,5
Terminal for cond. cross section (mm²) min-max.	1	1	1	2,5	2,5	2,5
	—2,5	—2,5	—2,5	—6	—6	—6

Plugs PowerTOP

with highly heat resistant contact carrier and nickel plated contacts, cable gland and external cable grip



Product group 2015, type 3935 shown.



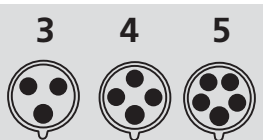
Drawing Amp.	63		
2 MB 210/2 Poles	3	4	5
Dim. in mm			
a	246	246	246
b	100,5	100,5	100,5
h	98,7	98,7	98,7
y	36	36	36
Terminal for cond. cross section (mm²) min-max.	6	6	6
	—16	—16	—16

Plugs PowerTOP

with highly heat resistant contact carrier, frame terminals and nickel plated contacts, cable gland and external cable grip



Product group 2015, type 1235 shown.



2p+E 3p+E 3p+N+E



Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3		21075			10	180
16	4		23443	20485	22932	10	303
16	5			20235		10	333
32	4		21330	22126	20842	10	370
32	5			20162		10	424



63	4			23964		5	880
63	5			21253		5	925

Products with pilot contacts: Part no. + index **P**



16	3		21512			10	240
16	4			22291	21464	10	270
16	5			21371		10	315
32	4				21465	10	390
32	5			21360		10	450



63	4			24315		5	920
63	5			21361		5	970
125	4			21233		3	1910
125	5			21468		3	2020

Products with pilot contacts: Part no. + index **P**



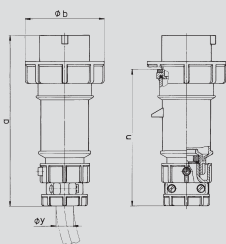
16	3	3918	3919	3920		10	175
16	4	3925	3927	3926	3928	10	198
16	5	3934	3936	3935		10	241
32	3	3942	3943	3944		10	267
32	4	3945	3946	3947	3948	10	284
32	5	3951	3952	3977		10	363



63	3	1226	1227			5	535
63	4		1230	1231	1232	5	650
63	5			1235		5	710

MENNEKES CEE plugs and connectors for use under harsh conditions with highly heat resistant contact carrier resp. with highly heat resistant contact carrier and nickel plated contacts

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Other voltages and frequencies available on request.

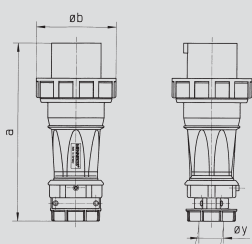


Drawing	Amp.	16			32		
		3	4	5	3	4	5
2 MB 171	Poles						
Dim. in mm	a	162	172	186	199	199	213
	b	71	79	89	95	95	102
	n	129	139	152	157	157	172
	y	19	19	22	24,5	24,5	28,5
Terminal for cond. cross section (mm²) min-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Plugs PowerTOP
with highly heat resistant contact carrier and nickel plated contacts, cable gland and external cable grip

IP 67

Product group 2016, type 3821 shown.

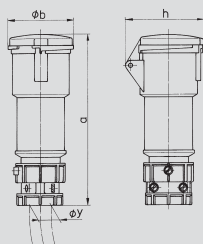


Drawing	Amp.	63			125		
		3	4	5	3	4	5
2 MB 207/2	Poles						
Dim. in mm	a	246	246	246	293	293	293
	b	114	114	114	131	131	131
	y	36	36	36	50	50	50
Terminal for cond. cross section (mm²) min-max.		6	6	6	25	25	25
		—16	—16	—16	—50	—50	—50

Plugs PowerTOP
with highly heat resistant contact carrier, frame terminals and nickel plated contacts, cable gland and external cable grip

IP 67

Product group 2016, type 1114 shown.

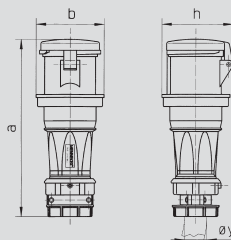


Drawing	Amp.	16			32		
		3	4	5	3	4	5
3 MB 51/3	Poles						
Dim. in mm	a	165	180	190	214	214	223
	b	60	68	76	82	82	89
	h	76	84	90	92	92	99
	y	19	19	22	24,5	24,5	28,5
Terminal for cond. cross section (mm²) min-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors PowerTOP
with highly heat resistant contact carrier, cable gland and external cable grip

IP 44

Product group 3015, type 3964 shown.

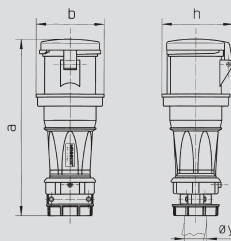


Drawing	Amp.	63		
		3	4	5
3 MB 58/2	Poles			
Dim. in mm	a	264	264	264
	b	101	101	101
	h	113	113	113
	y	36	36	36
Terminal for cond. cross section (mm²) min-max.		6	6	6
		—16	—16	—16

Connectors PowerTOP with SoftCONTACT
with highly heat resistant contact carrier and frame terminals, cable gland and external cable grip

IP 44

Product group 3015, type 1245 shown.

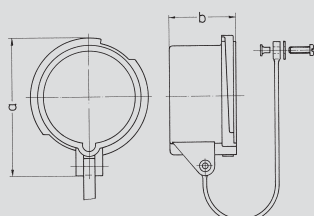


Drawing	Amp.	63		
		3	4	5
3 MB 58/2	Poles			
Dim. in mm	a	264	264	264
	b	101	101	101
	h	113	113	113
	y	36	36	36
Terminal for cond. cross section (mm²) min-max.		6	6	6
		—16	—16	—16

Connectors PowerTOP with SoftCONTACT
with highly heat resistant contact carrier, frame terminals and nickel plated contacts, cable gland and external cable grip

IP 44

Product group 3015, type 3474 shown.

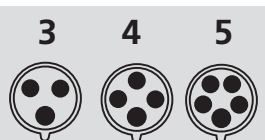


Drawing	Amp.	16			32		
		3	4	5	3	4	5
2 MB 146	Poles						
Dim. in mm	a	70	79	86	91	91	99
	b	41	41	42	51	51	52
Drawing	Amp.	63			125		
		3	4	5	3	4	5
2 MB 146	Poles						
Dim. in mm	a	108	108	108	119	119	119
	b	73	73	73	79	79	79

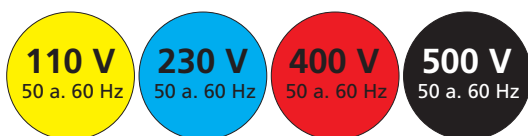
Protective covers
for watertight plugs, inlets and panel mounted inlets

IP 67

Product group 8226, type 40787 shown.



2p+E 3p+E 3p+N+E



Amp. Poles 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	3794	3796	3799		10	191
16	4	3807	3811	3809	3810	10	221
16	5	3819	3823	3821		10	272
32	3	3829	3830	3832		10	307
32	4	3839	3844	3841	3842	10	324
32	5	3851	3855	3853		10	410

Phase inverters see Page 210/211.



63	3	1570	1571	1572		5	592
63	4	1108	1109	1110	1111	5	707
63	5	1112	1113	1114	2958	5	770
125	3	3399	3400			5	1050
125	4	1441	1442	1443	1444	5	1170
125	5	1445	1446	1447	3173	5	1290



16	3	3953	3954	3955		10	230
16	4	3956	3957	3958	3959	10	235
16	5	3962	3963	3964		10	279
32	3	3965	3966	3967		10	318
32	4	3968	3969	3970	3971	10	344
32	5	3974	3975	3976		10	422



63	3	1236	1237	1238		5	731
63	4	1239	1240	1241	1242	5	763
63	5	1243	1244	1245		5	825

Products with pilot contacts: Part no. + index **P**



63	5		3474			5	825
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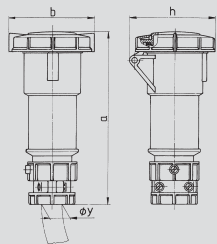
Products with pilot contacts: Part no. + index **P**



for amp.	for poles	Part numbers
16	3	40784
16	4	40778
16	5	40785
32	3+4	40841
32	5	40786
63	3,4+5	40787
125	3,4+5	40788

MENNEKES CEE connectors for use under harsh conditions with highly heat resistant contact carrier resp. with highly heat resistant contact carrier and nickel plated contacts

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Other voltages and frequencies available on request.

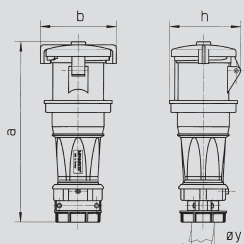


Drawing	Amp.	16			32		
		3	4	5	3	4	5
3 MB 48/3	Poles						
	Dim. in mm						
	a	171	182	194	217	217	229
	b	78	85	96	103	103	110
	h	79	88	95	99	99	105
	y	19	19	22	24,5	24,5	28,5
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors PowerTOP
with highly heat resistant
contact carrier,
cable gland and external cable grip

IP 67

Product group 3016, type 3881 shown.



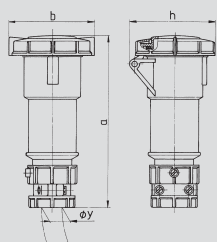
Drawing	Amp.	63			125		
		3	4	5	3	4	5
3 MB 56/2	Poles						
	Dim. in mm						
	a	264	264	264	320	320	320
	b	118	118	118	135	135	135
	h	113	113	113	124	124	124
	y	36	36	36	50	50	50
Terminal for cond. cross section (mm²) min.-max.		6	6	6	25	25	25
		—16	—16	—16	—50	—50	—50

Connectors PowerTOP
with highly heat resistant
contact carrier and frame terminals,
cable gland and external cable grip

63A: with **SoftCONTACT**
125A: with **TorsionsSpringCONTACT**

IP 67

Product group 3016, type 1121 shown.

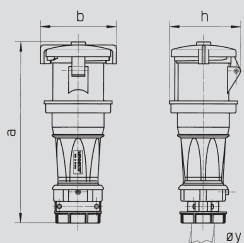


Drawing	Amp.	16			32		
		3	4	5	3	4	5
3 MB 48/3	Poles						
	Dim. in mm						
	a	171	182	194	217	217	229
	b	78	85	96	103	103	110
	h	79	88	95	99	99	105
	y	19	19	22	24,5	24,5	28,5
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors PowerTOP
with highly heat resistant
contact carrier and nickel
plated contacts,
cable gland and external cable grip

IP 67

Product group 3016, type 24558 shown.

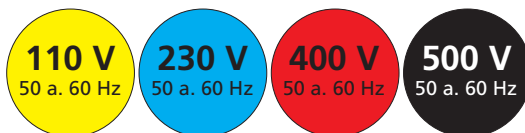
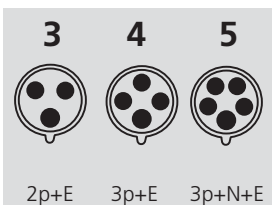


Drawing	Amp.	63			125		
		3	4	5	3	4	5
3 MB 56/2	Poles						
	Dim. in mm						
	a	264	264	264	320	320	320
	b	118	118	118	135	135	135
	h	113	113	113	124	124	124
	y	36	36	36	50	50	50
Terminal for cond. cross section (mm²) min.-max.		6	6	6	25	25	25
		—16	—16	—16	—50	—50	—50

Connectors PowerTOP
with **SoftCONTACT**,
with highly heat resistant
contact carrier, frame terminals
and nickel plated contacts,
cable gland and external cable grip

IP 67

Product group 3016, type 3466 shown.



Amp. Poles 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	3859	3860	3862		10	221
16	4	3869	3873	3871	3872	10	262
16	5	3879	3883	3881		10	314
32	3	3887	3888	3891		10	367
32	4	3896	3899	3897	3898	10	379
32	5	3905	3909	3907		10	476



63	3	1573	1574	1575		5	774
63	4	1115	1116	1117	1118	5	810
63	5	1119	1120	1121	3352	5	887
125	3	3389	3390			5	1274
125	4	1448	1449	1450	1451	5	1354
125	5	1452	1453	1454	3174	5	1486

Products with pilot contacts: Part no. + index **P**



16	5			24558		10	321
32	5			24559		10	430



63	5			3466		5	871
125	5			3467		5	1481

Products with pilot contacts: Part no. + index **P**

EverGUM receptacles combinations in solid rubber enclosures

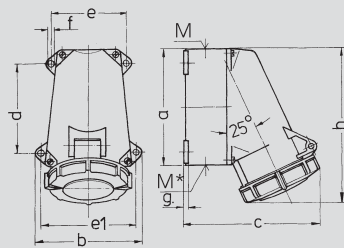
for use in corrosive environments
and for use under harsh conditions
see chapter 8.

MENNEKES CEE receptacles with high resistance to chemicals with highly heat resistant contact carrier and nickel plated contacts

to DIN VDE 0623, EN 60309-2, colour: grey (RAL 7000) and colour code.

Enclosure and insert made of **AMELAN**. Other voltages and frequencies are available on request.

MENNEKES CEE receptacles with DUO interlock can be padlocked.



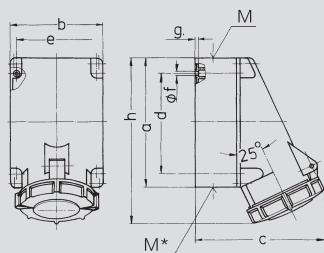
Drawing	Amp.	16			32		
1 MB 219	Poles	3	4	5	3	4	5
Dim. in mm	a	95	95	95	120	120	120
	b	102	102	102	112	112	112
	c	115	124	129	143	143	150
	d	64,2	64,2	64,2	90,2	90,2	90,2
	e	77,5	77,5	77,5	79	79	79
	f	88	88	88	98,5	98,5	98,5
	g	5,5	5,5	5,5	5,5	5,5	5,5
	h	128	128	132	160	160	160
	M	20	25	25	32	32	32
	M*	20	25	25	M 32 (blind)	M 32 (blind)	M 32 (blind)
		(blind) to be cut out	(blind) to be cut out	(blind) to be cut out	(blind) to be cut out	(blind) to be cut out	(blind) to be cut out
Max. cable diam. (mm)		15	18	18	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

with four external fixings,
with one cable entry at top
and one blind cable entry
(can be cut out) at bottom

☼ IP 67

Product group 1049, type 3769 shown.



Drawing	Amp.	63		
1 MB 112	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	171	171	171
	d	134,5	134,5	134,5
	e	103	103	103
	f	6,1	6,1	6,1
	g	6	6	6
	h	216	216	216
	M	40	40	40
	M*	2x M 40	2x M 40	2x M 40
		(blind) to be cut out	(blind) to be cut out	(blind) to be cut out
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25

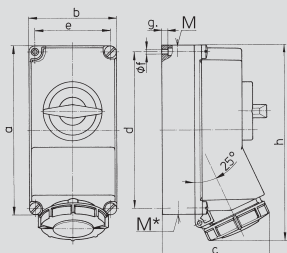
Receptacles

SoftCONTACT

internal and external fixings,
two blind cable entries (can be cut out)
at bottom, lower part of enclosure can
be turned through 180°, with 6 blind
holes for mounting special terminals if
required

☼ IP 67

Product group 1049, type 3774 shown.



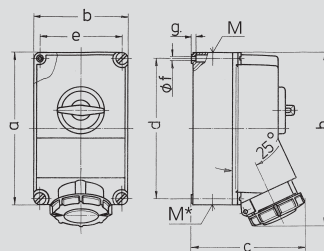
Drawing	Amp.	16			32		
1 MB 207	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	144	146	147	152	152	153
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	252	255	259	268	268	274
	M	1xM25 and 1xM32	1xM25 and 1xM32	1xM25 and 1xM32	1xM25 and 1xM32	1xM25 and 1xM32	1xM25 and 1xM32
	M*	2x25 2x25 2x25	2x25 2x25 2x25	2x25 2x25 2x25	2x25 2x25 2x25	2x25 2x25 2x25	2x25 2x25 2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

switched,
with mechanical **DUO** interlock,
can be padlocked

☼ IP 67

Product group 1074, type 7285 shown.



Drawing	Amp.	63		
1 MB 180	Poles	3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	196	196	196
	d	240	240	240
	e	140	140	140
	f	8,1	8,1	8,1
	g	8	8	8
	h	300	300	300
	M	40	40	40
	M*	40	40	40
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25

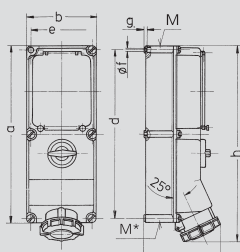
Receptacles

SoftCONTACT

switched,
with mechanical **DUO** interlock,
can be padlocked

☼ IP 67

Product group 1074, type 7290 shown.



Drawing	Amp.	16			32		63	
1 MB 181	Poles	3	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460
	b	134	134	134	134	134	180	180
	c	160	162	163	168	168	209	209
	d	347	347	347	347	347	440	440
	e	117	117	117	117	117	160	160
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1
	g	8	8	8	8	8	8	8
	h	391	395	398	408	411	525	525
	M	32/40	32/40	32/40	32/40	32/40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25	6 —25

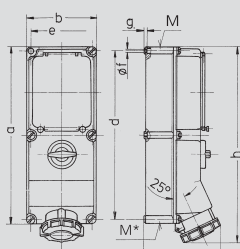
Receptacles

switched,
with mechanical **DUO** interlock
and mounting rail,
can be padlocked

63A: **SoftCONTACT**

☼ IP 67

Product group 1089, type 7292 shown.



Drawing	Amp.	16			32		63	
1 MB 181	Poles	3	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460
	b	134	134	134	134	134	180	180
	c	160	162	163	168	168	209	209
	d	347	347	347	347	347	440	440
	e	117	117	117	117	117	160	160
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1
	g	8	8	8	8	8	8	8
	h	391	395	398	408	411	525	525
	M	32/40	32/40	32/40	32/40	32/40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25	6 —25

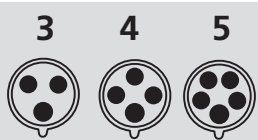
Receptacles

switched,
with mechanical **DUO** interlock
and 3-pole fuse base D 01 for 16A
and D 02 for 32A and 63A,
can be padlocked

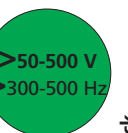
63A: **SoftCONTACT**

☼ IP 67

Product group 1098, type 7298 shown.



2p+E 3p+E 3p+N+E



Amp.

Poles

3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
4h 4h 4h 6h 9h 9h 9h 6h 6h 7h 7h 7h 10h 10h 10h 2h 2h 2h

Std. Pack.

Weight

Part numbers

Qty. g/each



16	3	3767	10	254
16	4	3768	10	298
16	5	3769	10	342
32	3	3770	10	405
32	4	3771	10	419
32	5	3772	10	486



63	4	3773	5	1034
63	5	3774	5	1096



16	3	7283	1	1060
16	4	7284	1	1110
16	5	7285	1	1150
32	3	7286	1	1180
32	4	7287	1	1210
32	5	7288	1	1230



63	4	7289	1	2537
63	5	7290	1	2919



16	4	7291	1	2030
16	5	7292	1	2080
32	4	7293	1	2100
32	5	7294	1	2170
63	4	7295	1	3950
63	5	7296	1	4100



16	4	7297	1	2230
16	5	7298	1	2280
32	4	7299	1	2300
32	5	7300	1	2370
63	4	7301	1	4150
63	5	7302	1	4300

Plugs and connectors
protection type IP 67 for
use under harsh conditions
see page 214 to 217.

AMAXX® receptacle combinations, resistant to chemicals, pre-wired for installation, IP44



Enclosure and insert made of AMELAN, highly heat resistant contact carriers and nickel plates contacts.

Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request.

Upper part grey RAL 7000, hinged to the side, fusing under a transparent cover.

For more combinations, please contact us or visit www.AMAXX.info



CEE receptacles			
1 CEE 16A, 5p, 400V	1 CEE 32A, 5p, 400V	1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V	
CEE receptacles			
SCHUKO® receptacles			
2 SCHUKO® 16A, 230V	2 SCHUKO® 16A, 230V	3 SCHUKO® 16A, 230V	
Fusing			
1 RCD 40A, 4p, 0.03A 1 MCB 16A, 3p, C 2 MCB's 16A, 1p, C	1 RCD 40A, 4p, 0.03A 1 MCB 32A, 3p, C 2 MCB's 16A, 1p, C	1 MCB 32A, 3p, C 1 MCB 16A, 3p, C 3 MCB's 16A, 1p, C	
Connection			
for 1 cable up to 5 x 10 mm ²	for 1 cable up to 5 x 10 mm ²	for 2 cables up to 5 x 25 mm ²	
Enclosure size			
260 x 225 mm (HxW)	260 x 225 mm (HxW)	390 x 225 mm (HxW)	
Part number			
920037	920038	930030	

AMAXX® receptacle combinations, resistant to chemicals, pre-wired for installation, ☼ IP67



Enclosure and insert made of AMELAN, highly heat resistant contact carriers and nickel plates contacts.









Other variations with CEE receptacles 3, 4 or 5 pole on request.

Upper part grey RAL 7000, hinged to the side, fusing under a transparent cover.
For more combinations, please contact us or visit www.AMAXX.info



CEE receptacles	
1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V	1 CEE 63A, 5p, 400V 1 CEE 32A, 5p, 400V 1 CEE 16A, 5p, 400V
CEE receptacles	
SCHUKO® receptacles	
2 SCHUKO® 16A, 230V	4 SCHUKO® 16A, 230V
Fusing	
1 RCD 63A, 4p, 0.03A 1 MCB 32A, 3p, C 1 MCB 16A, 3p, C 2 MCB's 16A, 1p, C	1 RCD 63A, 4p, 0.03A 1 MCB 32A, 3p, C 1 MCB 16A, 3p, C 4 MCB's 16A, 1p, C
Connection	
for 2 cables up to 5 x 25 mm ²	for 2 cables up to 5 x 25 mm ²
Enclosure size	
520 x 225 mm (HxW)	390 x 450 mm (HxW)
Part number	
940016	900004



11	SCHUKO® plugs and receptacles Grounding-type plugs and receptacles according to various national standards	
12	Plugs and receptacles for low voltages, downstream of an isolating transformer, DC	
13	Plugs and receptacles for containers and terminals	
14	Plugs and receptacles for hazardous areas Zone 22	
15	Plugs and receptacles for campsites and mobile consumers	
16	Plugs and receptacles 200A to 400A	
17	Cable connection boxes, hinged windows, enclosures	
18	Plugs and receptacles for military purpose Plugs and receptacles for fire brigades and civil protection organisations Plugs and receptacles made from light weight alloy	
19	References	



- SCHUKO® plugs and receptacles
- Grounding-type receptacles according to various national standards

**SCHUKO®
panel mounted
receptacles,
IP 54**

Page 228 and 229



**Grounding-type
panel mounted
receptacles according
to various national
standards,
IP 44**

*Page 230 and 231,
234 and 235*



**SCHUKO®
surface mounted
receptacles and bases
for wall mounted
receptacles,
IP 44**

Page 228 and 229



**SCHUKO®
receptacle strips,
IP 44 and
SCHUKO®
receptacles,
switched, interlocked,
IP 67**

Page 236 and 237



**SCHUKO®
snap-in receptacles,
IP 20**

Page 232 and 233



**SCHUKO®
plugs and
SCHUKO®
connectors,
IP 44**

Page 238 and 239



**SCHUKO®
receptacles and
panel mounted
receptacles,
IP 68**

Page 240 and 241



**SCHUKO®
plugs,
inlets and
connectors,
IP 68**

Page 242 and 243



- SCHUKO® plugs and receptacles
- Grounding-type receptacles according to various national standards



For Europe. With the hammer symbol.



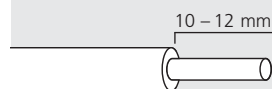
For plugs and receptacles with an earth contact, national systems are still applicable. MENNEKES offer a broad range of products to suit European markets. Same design, same dimensions, but various models:

SCHUKO®	D, E, NL, A, L
2P + T (Earthing pin)	F, B, CZ, SK, PL
DEMKO	DK
Type 13, type 23	CH
BS	GB
NEMA	USA, CAN

Optionally screw or plug-in terminals.



Preparation of conductors for screwless terminals



Length to be stripped: 10 – 12 mm



Solid conductors 1.5 to 2.5 mm² cores. Strip them and you're done.



Flexible conductors 1.5 to 2.5 mm² cores with terminal pins, pin length 10 – 12 mm



Flexible conductors 1.5 to 2.5 mm² cores with end sleeve for strands, crimped so as to be gas-tight; in the case of insulating jackets the stripped length must be longer.



Flexible conductors with 1.5 to 2.5 mm² cores, ultrasonically welded

Plug-in and screw terminals are designed as connecting terminals for through-wiring.

To release the conductors, press on the plug-in terminal using a screw driver.





Rapid snap-in, little space required.

Although the European designs for Germany, Denmark and France/Belgium differ, they have

one thing in common:
space-saving installation in a channel.

Receptacles per running meter. Get ready – get set - go.

The snap-in technique.
A simple but highly efficient method for swift installation.
What do you need?
A special channel (or an enclosure with a suitable aperture) with fixed dimensions or sized per running meter, any number of receptacles with or without fusing by means of automatic circuit breakers or RCD.
Connect, snap-in, done.




Snap-in receptacles can also be fastened to DIN rails using a mounting rack.



Snap-in receptacles are suitable for convenient installation in channel systems of adequate size.

Pressure watertight.



Pressure watertight.
Whether fixed or mobile: in the event of flooding or water jets, pressure watertight plugs and receptacles are the first choice.
Protection type  **IP 68**

Switched. Interlocked. Watertight.



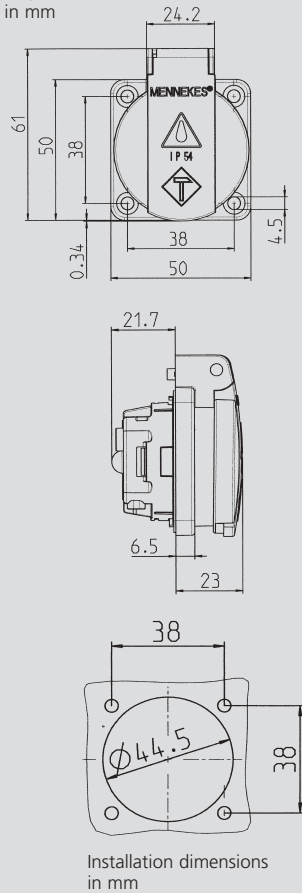
MES SCHUKO® receptacle
Mechanical **E**lectrical **S**witch.
Switching by MCB with thermal and electro-magnetic release.
Can only be plugged into in the off position.
Protection type  **IP 67**

MENNEKES SCHUKO® receptacles, AMAPLAST

to DIN 49440-1, 2P+E, 230V

Protective covers, blind and mounting flanges

Drawing 1 MB 410
Dim. in mm



Preparation of conductors for screwless terminals.



Length to be stripped: 10 – 12 mm



Solid conductors 1.5 to 2.5 mm² cores. Strip them and you're done.



Flexible conductors 1.5 to 2.5 mm² cores with terminal pins, pin length 10 – 12 mm



Flexible conductors 1.5 to 2.5 mm² cores with end sleeve for strands, crimped so as to be gas-tight; in the case of insulating jackets the stripped length must be longer.



Flexible conductors with 1.5 to 2.5 mm² cores, ultrasonically welded

SCHUKO® panel mounted receptacles

with hinged lid, without shutter, **3 plug-in terminals** or **3 screw terminals** as connecting terminals for 1.5 – 2.5 mm²



Product group 1936/1930, type 11011 shown.

SCHUKO® panel mounted receptacles

with hinged lid, with shutter, **3 plug-in terminals** or **3 screw terminals** as connecting terminals for 1.5 – 2.5 mm²



Product group 1936/1930, type 11060 shown.

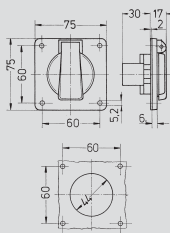
SCHUKO® panel mounted receptacles

without hinged lid, with or without shutter, **3 plug-in terminals** or **3 screw terminals** as connecting terminals for 1.5 – 2.5 mm²



Product group 1938/1937, type 11512 shown.

Drawing 1 MB 281
Dim. in mm



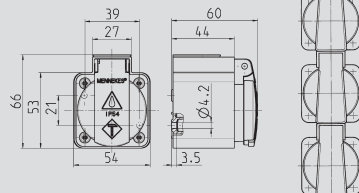
SCHUKO® panel mounted receptacles

with hinged lid, also suitable for cable ducts and flush mounted installation boxes



Product group 1928, type 10750 shown.

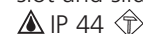
Drawing 1 MB 27 and 1 MB 30
Dim. in mm



Receptacles can be vertically arranged in a row. Slide on top, slot on bottom of the enclosure.

SCHUKO® receptacles

with hinged lid, with 3 plug-in terminals for connection of 1.5 – 2.5 mm², threaded cable entry M 20 x 1.5 at top and blind entry (for cut out) M 20 x 1.5 at bottom, can be arranged in a row using slot and slide



Product group 1929, type 10082 shown.

Base for wall mounted receptacles

with cable entry and screws



Product group 8313, type 10714 shown.

	Colour	Amp.	Volts	with plug-in terminals	with screw terminals	Std. Pack.	Weight
				Part numbers		Qty.	g/each
	without Shutter						
	grey	16	230	11010	11030	100	44
	blue	16	230	11011	11031	20	44
	black	16	230	11012	11032	100	44
	red	16	230	11013	11033	100	44
	with Shutter						
	grey	16	230	11060	—	100	46
	blue	16	230	11061	11081	100	46
	Other colours on request.						
	without Shutter						
	grey	16	230	11511	11531	100	38
	black	16	230	11512	11532	100	38
	with Shutter						
	blue	16	230	11561	11581	100	40
Other colours on request.							
	without Shutter						
	blue	16	230	—	10750	10	61
	black	16	230	—	10809	10	61
	red	16	230	—	10913	10	61
	Connecting protective caps						
for fastening to panel mounted receptacles of product group 1928, flange size 75 x 75 mm							
black			19030706				
	grey	16	230	10081	—	10	98
	blue	16	230	10082	—	10	98
	black	16	230	10083	—	10	98
	grey			10714		10	54
	blue			10715		10	54
	black			10716		10	54
You would like to have a different SCHUKO® receptacle than part no. 10081, 10082 or 10083? For example with shutter or with screw terminals?							
Please combine one of the above panel mounted receptacles with lid of product groups 1930 and 1936 with one of these enclosure bases.							

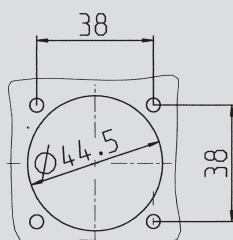
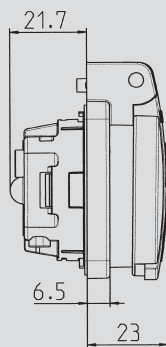
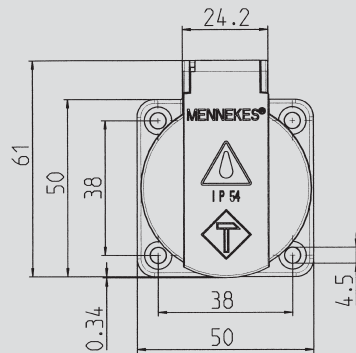
MENNEKES grounding-type receptacles according to French/Belgian and Danish standards

16A or 13A, 2P+E, 230V

Drawing 1 MB 410

(applicable for product group 1930: SCHUKO® panel mounted receptacles and grounding-type panel mounted receptacles according to French/Belgian and Danish standards)

Dim. in mm



Installation dimensions in mm

Preparation of conductors for screwless terminals.



Length to be stripped: 10 – 12 mm



Solid conductors 1.5 to 2.5 mm² cores. Strip them and you're done.



Flexible conductors 1.5 to 2.5 mm² cores with terminal pins, pin length 10 – 12 mm



Flexible conductors 1.5 to 2.5 mm² cores with end sleeve for strands, crimped so as to be gas-tight; in the case of insulating jackets the stripped length must be longer.



Flexible conductors with 1.5 to 2.5 mm² cores, ultrasonically welded

Grounding-type panel mounted receptacles, French/Belgian standard, with hinged lid, with shutter,

3 plug-in terminals or **3 screw terminals**

as connecting terminals for 1.5 – 2.5 mm²

▲ IP 44

Product group 1936/1930, type 11161 shown.

Grounding-type panel mounted receptacles, French/Belgian standard, with hinged lid, without Shutter,

3 plug-in terminals or **3 screw terminals**

as connecting terminals for 1.5 – 2.5 mm²

▲ IP 44

Product group 1936/1930, type 11111 shown.

Grounding-type panel mounted receptacles, French/Belgian standard, without hinged lid, with or without shutter,

3 plug-in terminals or **3 screw terminals**

as connecting terminals for 1.5 – 2.5 mm²

IP 20

Product group 1938/1937, type 11661 shown.

Grounding-type panel mounted receptacles, Danish standard, with hinged lid, with or without shutter,

3 plug-in terminals

as connecting terminals for 1.5 – 2.5 mm²

▲ IP 44

Product group 1930, type 11200 shown.

Grounding-type panel mounted receptacles, Danish standard, without hinged lid, with shutter,

3 plug-in terminals

as connecting terminals for 1.5 – 2.5 mm²

IP 20

Product group 1938, type 11750 shown.




Grounding-type wall mounted receptacles to French/Belgian or Danish standards

available on request.

Please contact us!

You may also want to combine one of the panel mounted receptacles with a hinged lid from product groups 1930 and 1936 shown on this page with the base shown on page 228/ 229.

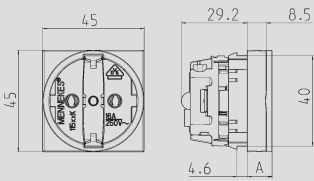
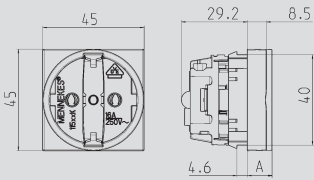
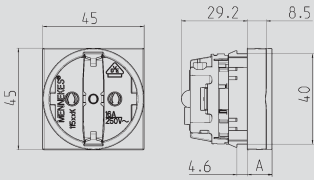
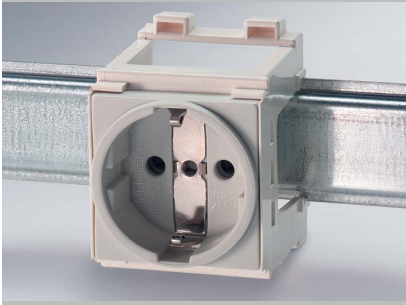
(Not possible for panel mounted receptacles of product groups 1937, 1938, 1943, 1944, 1945, 1946 or for snap-in receptacles!)

	Colour	Amp.	Volts	with plug-in terminals	with screw terminals	Std. Pack.	Weight
				Part numbers		Qty.	g/each
	with Shutter						
	grey	16	230	11160	11180	100	46
	blue	16	230	11161	11181	100	46
	black	16	230	11162	–	100	46
	Other colours on request.						
You can combine it with a base for wall mounted receptacles (see last position).							
	without Shutter						
	blue	16	230	11111	11131	100	44
	Other colours on request.						
You can combine it with a base for wall mounted receptacles (see last position).							
	with Shutter						
	blue	16	230	11661	11681	100	40
	without Shutter						
	blue	16	230	11611	–	100	38
	Other colours on request.						
	with Shutter						
	grey	13	230	11250	–	100	46
	without Shutter						
	grey	13	230	11200	–	100	44
You can combine it with a base for wall mounted receptacles (see last position).							
	with Shutter						
	grey	13	230	11750	–	100	38
	<u>Example:</u>	Grounding-type panel mounted receptacle to Danish standard, grey				Part no. 11250	
		+ base for wall mounted receptacles, grey				Part no. 10714	
		= wall mounted receptacle					

MENNEKES SCHUKO® snap-in receptacles to DIN 49440-1, 2P+E, 230V





MENNEKES grounding-type snap-in receptacles to French/Belgian and Danish standard

Fixing rack

	<p>Drawing 1 MB 457 Dim. in mm</p>	<p>SCHUKO® snap-in receptacles without hinged lid, for easy installation in a cable duct or an enclosure</p> <p>IP 20 Product group 1939, type 11510K shown.</p>
	<p>Drawing 1 MB 457 Dim. in mm</p>	<p>Grounding-type snap-in receptacles, French/Belgian standard with shutter, without hinged lid, for easy installation in a cable duct or an enclosure</p> <p>IP 20 Product group 1939, type 11665K shown.</p>
	<p>Drawing 1 MB 457 Dim. in mm</p>	<p>Grounding-type snap-in receptacles, Danish standard with Shutter, without hinged lid, for easy installation in a cable duct or an enclosure</p> <p>IP 20 Product group 1939, type 11750K shown.</p>
		<p>Fixing rack for fixing above receptacles on DIN rails</p> <p>Product group 8300, type 11254 shown.</p>

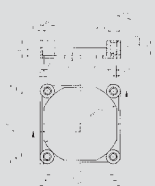
Blanking flanges

 <p>Drawing 1 MB 372 and 1 MB 373 Dim. in mm</p>	<p>Blanking flanges to close unused apertures available in 2 sizes</p>	<p>Part no.</p> <p>grey 75 x 75 mm 41419 for product group 1928 (SCHUKO® panel mounted receptacles, large flange 75 x 75 mm)</p> <p>grey 50 mm x 50 mm 41418 for product groups 1930 and 1936 (SCHUKO® and other earthing type panel mounted receptacles with flange size 50 x 50 mm)</p>
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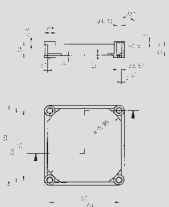
	Colour	Amp.	Volts	with plug-in terminals	with screw terminals	Std. Pack.	Weight
				Part numbers		Qty.	g/each
	grey	16	230	11510K	—	10	
	red	16	230	11513K	—	10	
	white	16	230	11515K	—	10	
	For fixing on DIN rails with the fixing rack shown below.						
	with Shutter						
	white			11665K	—	10	
For fixing on DIN rails with the fixing rack shown below.							
	with Shutter						
	grey	16	230	11750K	—	10	
For fixing on DIN rails with the fixing rack shown below.							
				11254		10	

Fixing frame

Drawing 19266
for flange
50 x 50 mm
Dim. in mm



MB 19267
for flange
75 x 75 mm



Fixing frame

for swift and safe fastening
of panel mounted receptacles

for SCHUKO® receptacles with flange
size 50 x 50 mm / hole distance
38 x 38 mm (product group 1930)

Part no. 19266106

for SCHUKO® receptacles with flange
size 75 x 75 mm / hole spacing
60 x 60 mm (product group 1928)

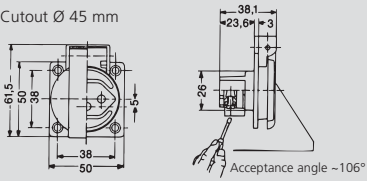
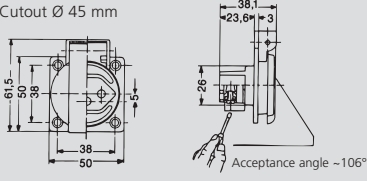
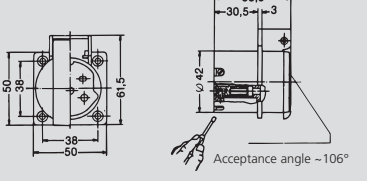
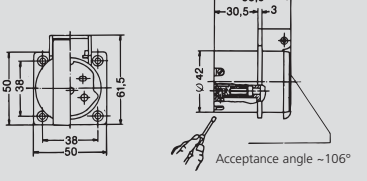
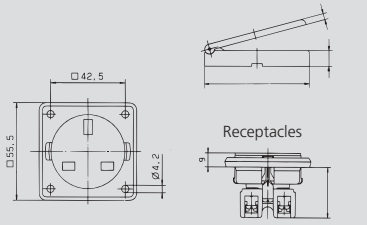
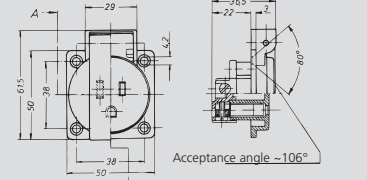
Part no. 19267000

MENNEKES grounding-type receptacles

according to Swiss standard 10A and 16A, 2P+E, 230V or 10A and 16A, 5p, 400V,

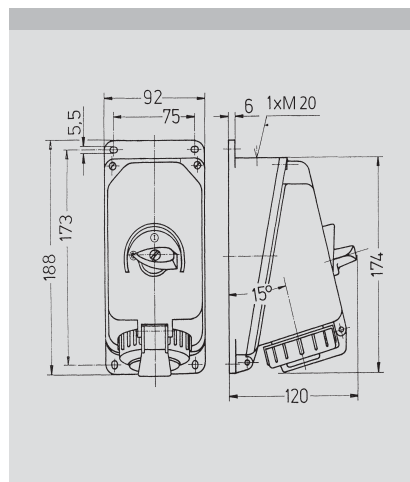
according to British standard 13A, 2P+E, 230V,

according to NEMA (USA, Canada) 15A, 2P+E, 125V

 <p>Cutout Ø 45 mm</p> <p>Acceptance angle ~106°</p>	<p>Drawing 1 MB 423 Dim. in mm</p>	<p>Grounding-type panel mounted receptacles, Swiss standard, type 23: 16A, 2P+E, 230V with hinged lid, 3 screw terminals</p> <p>▲ IP 54 Product group 1944, type 10711 shown.</p>
 <p>Cutout Ø 45 mm</p> <p>Acceptance angle ~106°</p>	<p>Drawing 1 MB 423 Dim. in mm</p>	<p>Grounding-type panel mounted receptacles, Swiss standard, type 13: 10A, 2P+E, 230V with hinged lid, 3 screw terminals</p> <p>▲ IP 54 Product group 1944, type 10085 shown.</p>
 <p>Acceptance angle ~106°</p>	<p>Drawing 1 MB 424 Dim. in mm</p>	<p>Panel mounted receptacles, Swiss standard, type 25: 16A, 5P, 400V with hinged lid, 5 screw terminals</p> <p>▲ IP 54 Product group 1945, type 10712 shown.</p>
 <p>Acceptance angle ~106°</p>	<p>Drawing 1 MB 424 Dim. in mm</p>	<p>Panel mounted receptacle, Swiss standard, type 15: 10A, 5P, 400V with hinged lid, 5 screw terminals</p> <p>▲ IP 54 Product group 1945, type 10086 shown.</p>
 <p>Receptacles</p>	<p>Drawing 1 MB 422 Dim. in mm</p>	<p>Grounding-type panel mounted receptacles, British standard with Shutter and matching frame, with hinged lid and seal, with screw terminals</p> <p>▲ IP 44 Product group 1943, type 10713 shown.</p>
 <p>Acceptance angle ~106°</p>	<p>Drawing 1 MB 421 Dim. in mm</p>	<p>NEMA panel mounted receptacles for the US and Canada with hinged lid, with screw terminals</p> <p>▲ IP 44 Product group 1946, type 10087 shown.</p>

		Colour	Amp.	Volts	with plug-in terminals	with screw terminals	Std. Pack.	Weight
					Part numbers		Qty.	g/each
		Body grey, lid blue	16	230	–	10711	20	40
		grey	10	230	–	10085	20	37
		Body grey, lid red	16	400	–	10712	20	65
		grey	10	400	–	10086	20	57
		black	13	230	–	10713	20	63
		blue	15	125	–	10087	20	45
The receptacles on this page cannot be combined with enclosure base part no. 10714.								

MENNEKES SCHUKO® receptacles, switched and interlocked to DIN 49442



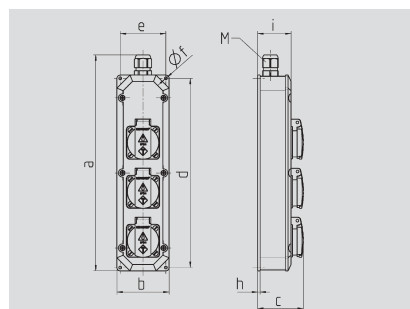
Drawing 1 MB 287
Dim. in mm

SCHUKO® receptacles
switched, interlocked
with MCB 16A,
to DIN 49442

☼ IP 67

Product groep 1919, type 10801 shown.

MENNEKES SCHUKO® receptacle strips pre-wired for installation, enclosure and insert made of **AMAPLAST**.



a	330
b	80
c	68
d	290
e	70
f	4,3
h	3,8
i	51
M	20
Dim. in mm	

This drawing is applicable to part nos. 96700 and 88678.



SCHUKO® receptacle strip
pre-wired for installation,
with cable grip,
one M 20 cable entry at top (plugged)
and one at bottom (threaded)

3 SCHUKO® receptacles 16A, 230V
with terminal,
connection for one cable up
to 3 x 2.5 mm²

Part no. 96700

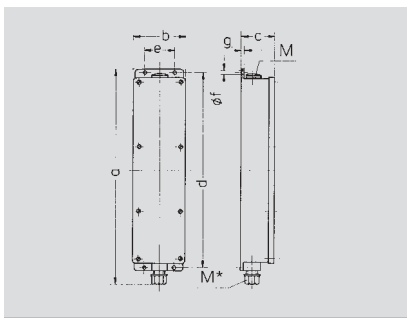


SCHUKO® receptacle strip
pre-wired for installation,
with cable grip,
one M 20 cable entry at top (plugged)
and one at bottom (threaded)

4 SCHUKO® receptacles 16A, 230V
with terminal,
connection for one cable up
to 3 x 2.5 mm²
receptacles angled at 30°,
also suitable for angled plugs.

Part no. 88678

	Colour	Amp.	Volts	Part numbers	Std. Pack.	Weight
					Qty.	g/each
	grey	16	230	10801	4	625



a	401
b	97
c	63
d	364
e	56
f	5,5
g	4
M	20
M*	20
Dim. in mm	

This drawing is applicable to part no. 95996.



SCHUKO® receptacle strip
pre-wired for installation,
with cable grip,
one M 25 cable entry at top (plugged)
and one at bottom (threaded)
1 x M 25 boven (met wartel) en
1 x M 25 onder (met blindstop)

3 SCHUKO® receptacles 16A, 230V
with terminal,
connection for one cable up
to 5 x 2.5 mm²

Part no. 95996

Hanging clip supplied with every
receptacle strip 401 x 97 mm.



SCHUKO® receptacle strip
pre-wired for installation,
with cable grip,
one M 25 cable entry at top (plugged)
and one at bottom (threaded)

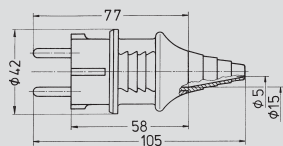
8 SCHUKO® receptacles 16A, 230V
with terminal,
with connection for one cable up
to 3 x 6mm².
Receptacles angled at 30°,
also suitable for angled plugs.

Part no. 88677

Hanging clip supplied with every
receptacle strip 401 x 97 mm.

MENNEKES SCHUKO® plugs and connectors, AMAPLAST

to DIN 49440-2 / 49440-3 / 49441 and DIN VDE 0620, 16A, 2P+E, 230V



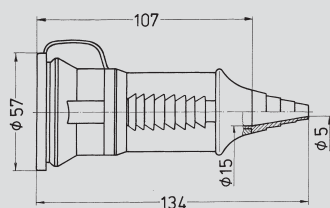
Drawing 2 MB 139
Dim. in mm

SCHUKO® plugs *)

with grommet,
for cables up to 3 x 2.5 mm²,
up to H07RN-F



Product group 2927, type 10839 shown.



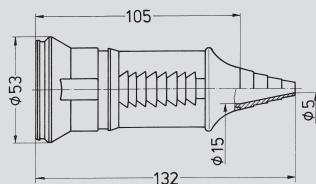
Drawing 3 MB 39
Dim. in mm

SCHUKO® connectors

with grommet and lid,
for cables up to 3 x 2.5 mm²,
up to H07RN-F



Product group 3927, type 10843 shown.






Drawing 3 MB 26
Dim. in mm

SCHUKO® connectors

with grommet,
for cables up to 3 x 2.5 mm²,
up to H07RN-F

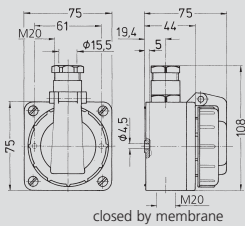
Product group 3927, type 10752 shown.

	Colour		Amp.	Volts	Part numbers	Std. Pack.	Weight
						Qty.	g/each
	grey		16	230	10749	20	47
	black		16	230	10754	20	47
	orange		16	230	10837	20	47
	blue		16	230	10838	20	47
	red		16	230	10839	20	47
	yellow		16	230	10840	20	47
	green		16	230	10841	20	47
	grey		16	230	10751	10	75
	black		16	230	10755	10	75
	orange		16	230	10842	10	75
	blue		16	230	10843	10	75
	red		16	230	10844	10	75
	yellow		16	230	10845	10	75
	green		16	230	10846	10	75
	grey		16	230	10752	10	65
	black		16	230	10756	10	65

*) The modified plug with double PE-conductor acc. to german and french-belgian standard will be available 1st. quarter 2007.

MENNEKES SCHUKO® plugs and receptacles, pressure watertight, AMAPLAST

to DIN 49442/43 and DIN VDE 0620, pressure watertight ☂☂ IP 68

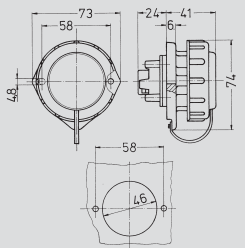


Drawing 1 MB 347
Dim. in mm

SCHUKO® receptacles
with hinged bayonet lock lid,
one threaded M 20 cable entry at
top and one blind M 20 cable entry
(can be cut out) at bottom

☂☂ IP 68 ☂

Product group 1934, type 10863 shown.



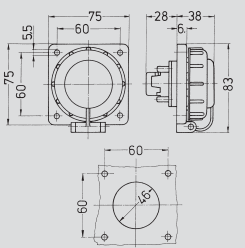
Drawing 1 MB 301
Dim. in mm

SCHUKO® panel mounted receptacles
with bayonet lock lid attached by a
strap, rectangular flange, four fixing
holes or two stamped recesses for
quick perforation

☂☂ IP 68 ☂

Product group 1931, type 10805 shown.

**Connecting protective caps,
Part no. 19027706,**
available on request



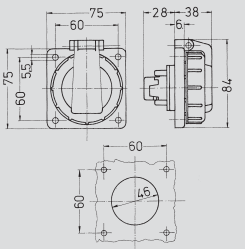
Drawing 1 MB 300
Dim. in mm

SCHUKO® panel mounted receptacles
with bayonet lock lid attached by a
strap, rectangular flange, four fixing
holes or two stamped recesses for
quick perforation

☂☂ IP 68 ☂

Product group 1933, type 10810 shown.

**Connecting protective caps,
Part no. 19027706,**
available on request



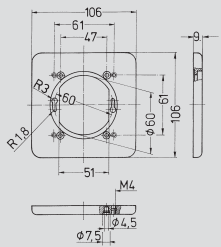
Drawing 1 MB 299
Dim. in mm

SCHUKO® panel mounted receptacles
with hinged bayonet lock lid,
rectangular flange, four fixing holes
or two stamped recesses for quick
perforation

☂☂ IP 68 ☂

Product group 1932, type 10808 shown.

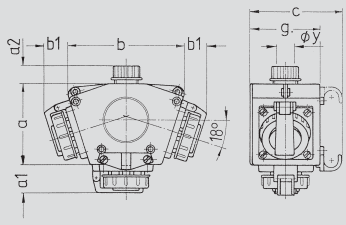
**Connecting protective caps,
Part no. 19027706,**
available on request



Drawing 1 MB 323
Dim. in mm

Flanges
for panel mounted receptacles of
product groups 1933 and 1932.
Using the flange, the receptacles
can be fitted on flush mounted
installation boxes.

Product group 8234, type 41341 shown.



Drawing	Amp.	16
3 MB 45	Poles	3
Dim. in mm	a	114
	a1	38
	a2	30
	b	160
	b1	26
	c	133
	g-	97
	y	17
Terminal for cond. cross		1,5
section (mm²) min.-max.		—4

**SCHUKO® triple connectors
DELTA BOX**

with hanging clip, with hinged
bayonet lock lids or bayonet lock
lids attached by a strap

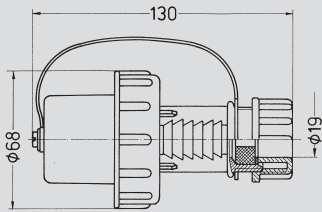
☂☂ IP 68

Product group 3932, type 10860 shown.

		Colour	Amp.	Volts	Part numbers	Std. Pack. Qty.	Weight g/each
		blue/grey	16	230	10863	10	180
		blue/grey	16	230	10805	10	96
		blue/grey	16	230	10810	10	107
		blue/grey	16	230	10808	10	109
		grey			41341		
	hinged bayonet lock lid	blue/grey	16	230	10860	5	795
	bayonet lock lid attached by a strap	blue/grey	16	230	10859	5	789
For SCHUKO® plugs and receptacles in bronze green, see chapter 18.							

MENNEKES SCHUKO® plugs and receptacles, pressure watertight, AMAPLAST

to DIN 49442/43 and DIN VDE 0620, IP 66 and pressure watertight 💧💧 IP 68



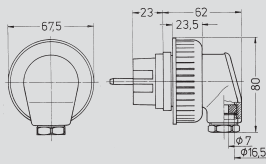
Drawing 2 MB 163
Dim. in mm

SCHUKO® plugs
with bayonet ring,
with protective cap attached by a strap,
for cables up to 3 x 2.5 mm²,
up to H07RN-F



💧💧 IP 68

Product group 2930, type 10828 shown.

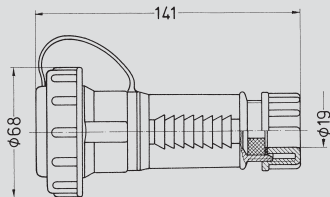


Drawing 2 MB 161
Dim. in mm

SCHUKO® angled plugs
with cable gland,
for cables up to 3 x 2.5 mm²,
up to H07RN-F

IP 66

Product group 2928, type 10818 shown.



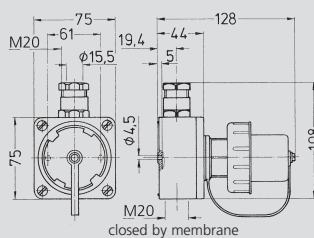
Drawing 3 MB 41
Dim. in mm

SCHUKO® connectors
with bayonet lock lid attached by
a strap, for cables up to 3 x 2.5 mm²,
up to H07RN-F



💧💧 IP 68

Product group 3929, type 10833 shown.

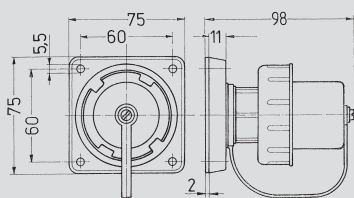


Drawing 2 MB 167
Dim. in mm

SCHUKO® inlets
with bayonet ring,
with protective cap attached by a strap,
one threaded M 20 cable entry at top
and one blind M 20 cable entry
(can be cut out) at bottom

💧💧 IP 68

Product group 2934, type 10864 shown.

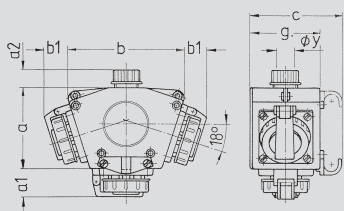


Drawing 2 MB 164
Dim. in mm

SCHUKO® panel mounted inlets
with bayonet ring,
with protective cap attached by a strap

💧💧 IP 68

Product group 2931, type 10852 shown.



Drawing	Amp.	16
3 MB 45	Poles	3
Dim. in mm	a	114
	a1	38
	a2	30
	b	160
	b1	26
	c	133
	g	97
	y	17
Terminal for cond. cross		1.5
section (mm ²) min-max.		—4

SCHUKO® triple connectors
DELTA BOX

with hanging clip,
with bayonet lock lids
attached by a strap,
feeder cable 1.5 m
H07RN-F3G2.5 and SCHUKO® plug

💧💧 IP 68

Product group 8003, type 92386 shown.

	Colour	Amp.	Volts	Part numbers	Std. Pack.	Weight
					Qty.	g/each
	blue/grey	16	230	10828 *)	5	134
*) The modified plug with double PE-conductor acc. to german and french-belgian standard will be available 1 st . quarter 2007.						
	blue	16	230	10818	10	125
	blue/grey	16	230	10833	5	136
	blue/grey	16	230	10864 *)	10	200
*) The modified inlet with double PE-conductor acc. to german and french-belgian standard will be available 1 st . quarter 2007.						
	blue/grey	16	230	10852 *)	10	130
*) The modified panel mounted inlet with double PE-conductor acc. to german and french-belgian standard will be available 1 st . quarter 2007.						
	blue/grey	16	230	92386	1	1430



■ CEE plugs and receptacles for low voltages, downstream of an isolating transformer, for DC



12

Receptacles for low voltages, 16A to 63A, IP 44

Page 248 to 255



Panel mounted receptacles for low voltages, 16A to 63A, IP 44

Page 248 to 255



Plugs and wall mounted inlets for low voltages, 16A to 63A, IP 44

Page 250 to 255



Connectors for low voltages, 16A to 63A, IP 44

Page 250 to 255



Plugs, receptacles and combinations downstream of an isolating transformer, 16A and 32A, IP 44 and IP 67

Page 256 to 261



Plugs and connectors downstream of an isolating transformer, 16A and 32A, IP 44 and IP 67

Page 258 and 259



Wall mounted and panel mounted receptacles for DC, 16A to 63A, IP 44 and IP 67

*Page 262 and 263
266 and 267*



Plugs and connectors for DC, 16A to 63A, IP 44 and IP 67

Page 264 and 265



- Plugs and receptacles for low voltages downstream of an isolating transformer, for DC

Plugs and receptacles for low voltages.



When portable electric appliances are used in environments where conductive materials are present and where movement is restricted, they must be operated at low voltage or they must be electrically isolated, e.g. in or on boilers, containers, pipework systems, steel scaffolding or similar installations. The same applies to rooms containing exposed conductive materials. Portable lamps must be operated at low voltage.

Stationary appliances may be operated at a safe low voltage or they may be electrically isolated, e.g. lamps installed temporarily for maintenance purposes, cleaning or other types of work, which are connected to the power supply by means of movable cables.

Only use tools of protection class II or III.

Also, lamps for barrels and movable lamps for ovens must be operated at low voltage.

Furthermore, low voltage $\leq 25V$ AC should be used for all mobile appliances without insulation which are used on animals, e.g. vacuum cleaners, shears, milking machines, etc.

Requirements on plugs and receptacles for low voltages.

Plugs and receptacles must be different from those used at other voltages and must not be provided with an earth contact (VDE 0100 part 410:1997-01).

The benefits at a glance.

Comfortable access to generously dimensioned terminals. Cable grip may be adjusted to suit a max. cable diameter of 24.7 mm.



Plugs and receptacles downstream of isolating transformers.



Electrical isolation (VDE 0100 part 410) is used to operate isolated electric tools in areas where conductive materials are present and where movement is restricted, e.g. in or on boilers, containers, pipework systems, steel scaffolding or similar installations. The same applies to rooms containing exposed conductive materials.

Further information:

VDE regulations
VDE 0100 part 410
VDE 0100 part 704
VDE 0100 part 705
VDE 0100 part 706
VDE 0100 part 15
Information provided by the
Employers' Liability Insurance
Association
BGI 594
BGI 608



12

Plugs and receptacles for DC.

Plugs and receptacles for DC are used for example for maintenance of rail vehicles and in electroplating shops, laboratories and test stations. We offer a large range of plugs and receptacles up to 63A.



DUO mechanical.

After insertion and switching on, the plug is locked in the ON position. After switching off and withdrawing the plug, the switch is locked in the OFF position.

DODSCH mechanical.

(**D**oseneinsatz-**D**reh-**S**chalter = "Plug in and twist" switch).
Insert the plug and turn clockwise (= switch ON).
Turn counter-clockwise (= switch OFF) and withdraw the plug.

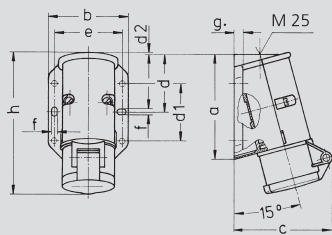


MENNEKES CEE receptacles and panel mounted receptacles for low voltages

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies are available on request.



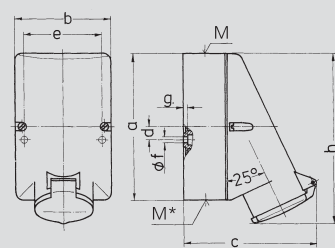
Drawing	Amp.	16		32	
1 MB 294	Poles	2	3	2	3
Dim. in mm	a	96	96	96	96
	b	73	73	73	73
	c	90	90	90	90
	d	53	53	53	53
	d1	52	52	52	52
	d2	2	2	2	2
	e	62	62	62	62
	f	5,3	5,3	5,3	5,3
	g	8	8	8	8
	h	129	129	129	129
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

Receptacles

external fixing,
one cable entry at top and
one blind cable entry
(can be cut out) at the rear side

▲ IP 44

Product group 1037, type 1845 shown.



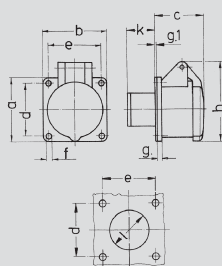
Drawing	Amp.	16		32	
1 MB 137	Poles	2	3	2	3
Dim. in mm	a	128	128	128	128
	b	84	84	84	84
	c	120	120	120	120
	d	11	11	11	11
	e	68	68	68	68
	f	5,3	5,3	5,3	5,3
	g	4	4	4	4
	h	146	146	146	146
	M	25	25	32	32
	M*	2x25	2x25	2x25	2x25
		(blind) to be cut out	(blind) to be cut out	(blind) to be cut out	(blind) to be cut out
Max. cable diam. (mm)		18	18	25	25
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—2x6	—10	—2x6	—10

Receptacles

internal fixing, one cable entry at
top and two blind cable entries
(can be cut out) at bottom,
lower part of enclosure base can
be turned 180°

▲ IP 44

Product group 1041, type 578 shown.

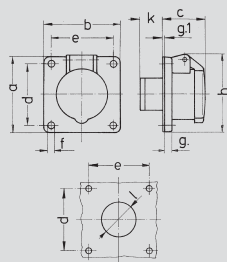


Drawing	Amp.	16		32	
1 MB 136	Poles	2	3	2	3
Dim. in mm	a	55	55	55	55
	b	55	55	55	55
	c	44	44	44	44
	d	45	45	45	45
	e	45	45	45	45
	f	4,2	4,2	4,2	4,2
	g	8	8	8	8
	g.1	2	2	2	2
	h	67	67	67	67
	k	22	22	22	22
	l	34	34	34	34
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

Panel mounted receptacles

▲ IP 44

Product group 1047, type 603 shown.



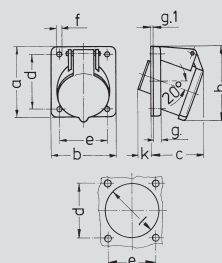
Drawing	Amp.	16		32	
1 MB 292	Poles	2	3	2	3
Dim. in mm	a	75	75	75	75
	b	75	75	75	75
	c	44	44	44	44
	d	60	60	60	60
	e	60	60	60	60
	f	5,5	5,5	5,5	5,5
	g	8	8	8	8
	g.1	2	2	2	2
	h	77	77	77	77
	k	22	22	22	22
	l	34	34	34	34
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

Panel mounted receptacles

also suitable for cable ducts and
flush mounted installation boxes

▲ IP 44

Product group 1056, type 1657 shown.

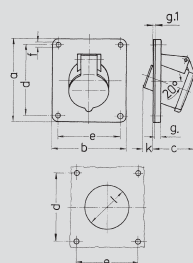


Drawing	Amp.	16		32	
1 MB 231	Poles	2	3	2	3
Dim. in mm	a	68	68	68	68
	b	62	62	62	62
	c	42	42	42	42
	d	53	53	53	53
	e	47	47	47	47
	f	4,5	4,5	4,5	4,5
	g	8	8	8	8
	g.1	2	2	2	2
	h	72	72	72	72
	k	32	32	32	32
	l	55	55	55	55
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

Panel mounted receptacles

▲ IP 44

Product group 1045, type 2855 shown.



Drawing	Amp.	32
1 MB 236	Poles	3
Dim. in mm	a	100
	b	92
	c	42
	d	85
	e	77
	f	5,1
	g	8
	g.1	2
	k	31
	l	60
Terminal for cond. cross section (mm²) min.-max.		4
		—10

Panel mounted receptacles

▲ IP 44

Product group 1044, type 2837 shown.

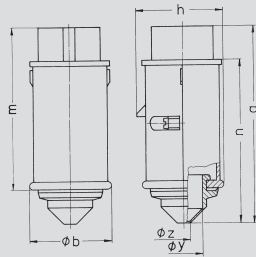
<div>2</div> <div></div> <div>2-pole</div>		<div>3</div> <div></div> <div>3-pole</div>		<div><div><div>20-25V</div><div>50 a. 60 Hz</div></div><div><div>40-50V</div><div>50 a. 60 Hz</div></div><div><div>20-25V</div><div>40-50V</div><div>100-200 Hz</div></div><div><div>20-25V</div><div>40-50V</div><div>300 Hz</div></div><div><div>20-25V</div><div>40-50V</div><div>400 Hz</div></div><div><div>20-25V</div><div>40-50V</div><div>400-500 Hz</div></div><div><div>20-25V</div><div>40-50V</div><div>40-50V</div></div></div>								Amp.	Poles	Part numbers						Std. Pack.	Weight
Qty. g/each																					
	16	2	1825	1831						1829	10	184									
	16	3	1832	1837	1835						10	204									
	32	2	1838	1844						1842	10	184									
	32	3	1845	1850	1848						10	204									
	16	2	577	578						583	10	285									
	16	3	584	585	586						10	303									
	32	2	590	591						596	10	285									
	32	3	597	598	599						10	303									
	16	2	603	604						609	10	108									
	16	3	610	611	612						10	130									
	32	2	616	617						622	10	108									
	32	3	623	624	625						10	130									
	16	2	1602	1603						2617	10	116									
	16	3	1657	1661	1823						10	138									
	32	2	1693	3290						2488	10	116									
	32	3	1594	1595	1579						10	138									
	16	2	1270	2855						2841	10	125									
	16	3	2845	1272	2860						10	143									
	32	2	1271	2864						2869	10	125									
	32	3	2870	1273	2852						10	143									
	32	3			2837						10	178									

MENNEKES CEE plugs, connectors and inlets for low voltages

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

Other voltages and frequencies are available on request.



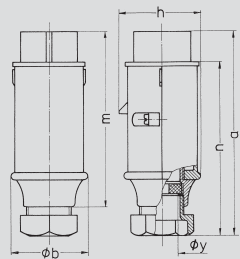
Drawing	Amp.	16		32	
		2	3	2	3
2 MB 159	Poles				
Dim. in mm	a	130	130	130	130
	b	55	55	55	55
	h	58	58	58	58
	m	108	108	108	108
	n	107	107	107	107
	y	25	25	25	25
	z	9	9	9	9
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

Plugs

with grommet

▲ IP 44

Product group 2074, type 637 shown.



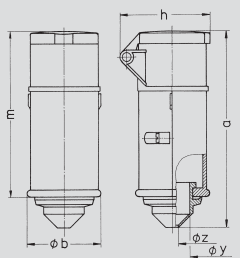
Drawing	Amp.	16		32	
		2	3	2	3
2 MB 158	Poles				
Dim. in mm	a	150	150	150	150
	b	55	55	55	55
	h	58	58	58	58
	m	128	128	128	128
	n	130	130	130	130
	y	24,7	24,7	24,7	24,7
	z	4	4	4	4
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

Plugs

with cable gland

▲ IP 44

Product group 2075, type 677 shown.



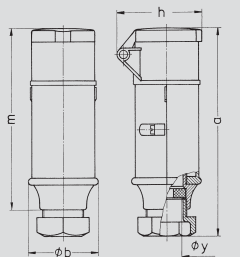
Drawing	Amp.	16		32	
		2	3	2	3
3 MB 37	Poles				
Dim. in mm	a	144	144	144	144
	b	55	55	55	55
	h	67	67	67	67
	m	122	122	122	122
	y	25	25	25	25
	z	9	9	9	9
	z	9	9	9	9
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

Connectors

with grommet

▲ IP 44

Product group 3074, type 681 shown.



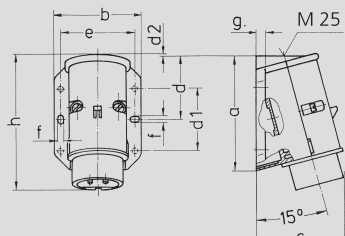
Drawing	Amp.	16		32	
		2	3	2	3
3 MB 36	Poles				
Dim. in mm	a	164	164	164	164
	b	55	55	55	55
	h	67	67	67	67
	m	142	142	142	142
	y	24,7	24,7	24,7	24,7
	z	4	4	4	4
	z	4	4	4	4
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

Connectors

with cable gland

▲ IP 44

Product group 3075, type 729 shown.



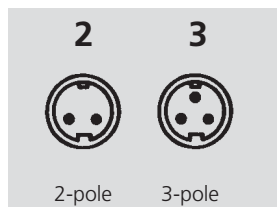
Drawing	Amp.	16		32	
		2	3	2	3
2 MB 160	Poles				
Dim. in mm	a	96	96	96	96
	b	73	73	73	73
	c	74	74	74	74
	d	53	53	53	53
	d1	52	52	52	52
	d2	2	2	2	2
	e	62	62	62	62
	f	5,3	5,3	5,3	5,3
	g	8	8	8	8
	h	116	116	116	116
	h	4	4	4	4
	h	4	4	4	4
	h	4	4	4	4
	h	4	4	4	4
Terminal for cond. cross section (mm²) min.-max.		—10	—10	—10	—10

Wall mounted inlets

external fixing, one cable entry at top and one blind cable entry (can be cut out) at the rear side

▲ IP 44

Product group 2045, type 1962 shown.



20-25V
50 a. 60 Hz

40-50V
50 a. 60 Hz

20-25V
40-50V
100-200 Hz

20-25V
40-50V
300 Hz

20-25V
40-50V
400 Hz

20-25V
40-50V
400-500 Hz

20-25V
40-50V
— — —

Amp.

Poles

Part numbers

—

12h

4h

2h

3h

11h

10h

Std. Pack.

Weight

Qty.

g/each



16	2	629	630					635	10	141
16	3	636	637	638					10	155
32	2	642	643					648	10	141
32	3	649	650	651					10	155



16	2	655	656					661	10	163
16	3	662	663	664					10	177
32	2	668	669					674	10	163
32	3	675	676	677					10	177



16	2	681	682					687	10	186
16	3	688	689	690					10	205
32	2	694	695					700	10	186
32	3	701	702	703					10	205



16	2	707	708					713	10	208
16	3	714	715	716					10	227
32	2	720	721					726	10	208
32	3	727	728	729					10	227



16	2	1955	1961					1959	10	137
16	3	1962	1967	1965					10	151
32	2	1968	1974					1972	10	137
32	3	1975	1980	1978					10	151

MENNEKES CEE plugs and receptacles for low voltage 63A

DIN VDE 0623, EN 60309-2 applies only to plugs and receptacles for low voltage with rated currents of 16A and 32A. In designing the 63A low voltage appliances, MENNEKES has taken this standard as a basis with regard to the shape and to safety along with requirements specified by customers. This has resulted in two systems. On this page, products of **system 1** are shown.

Drawing	Amp.	63	
1 MB 43	Poles	2	3
Dim. in mm	a	128	128
	b	84	84
	c	136	136
	d	11	11
	e	68	68
	f	5,3	5,3
	g	4	4
	h	158	158
	M	32	32
	M*	2x M 25 (blind) to be cut out	
Max. cable diam. (mm)		18/25	18/25
Terminal for cond. cross section (mm²) min.-max.		2,5	2,5
		—10	—10

Receptacles

(System 1), with highly heat resistant contact carrier and nickel plated contacts, internal fixing, one cable entry at top and two blind cable entries (can be cut out) at bottom, lower part of enclosure base can be turned 180° (63A is not standardised)

⚠ IP 44

Product group 1041, type 22356 shown.

Drawing	Amp.	63	
1 MB 140	Poles	2	3
Dim. in mm	a	85	85
	b	75	75
	c	64	64
	d	60	60
	e	60	60
	f	5,3	5,3
	g	4,5	4,5
	h	88	88
	h1	5	5
	k	37	37
	l	60	60
Terminal for cond. cross section (mm²) min.-max.		4	4
		—10	—10

Panel mounted receptacles

(System 1), with highly heat resistant contact carrier and nickel plated contacts

(63A is not standardised)

⚠ IP 44

Product group 1056, type 24081 shown.

Drawing	Amp.	63	
1 MB 238	Poles	2	3
Dim. in mm	a	100	100
	b	92	92
	c	50	50
	d	85	85
	d1	41	41
	e	77	77
	f	5,1	5,1
	g	6	6
	h	102	102
	k	58	58
	l	80	80
	l1	80	80
Terminal for cond. cross section (mm²) min.-max.		4	4
		—10	—10

Panel mounted receptacles

(System 1), with highly heat resistant contact carrier and nickel plated contacts

(63A is not standardised)

⚠ IP 44

Product group 1044, type 22174 shown.

Drawing	Amp.	63	
2 MB 64	Poles	2	3
Dim. in mm	a	163	163
	b	71	71
	h	83	83
	m	140	140
	n	117	117
	y	21	21
Terminal for cond. cross section (mm²) min.-max.		4	4
		—10	—10

Plugs

(System 1), with cable gland, with highly heat resistant contact carrier and nickel plated contacts

(63A is not standardised)

⚠ IP 44

Product group 2042, type 22175 shown.

Drawing	Amp.	63	
3 MB 22	Poles	2	3
Dim. in mm	a	174	174
	b	66	66
	h	89	89
	m	150	150
	y	21	21
Terminal for cond. cross section (mm²) min.-max.		4	4
		—10	—10

Connectors

(System 1), with cable gland, highly heat resistant contact carrier and nickel plated contacts

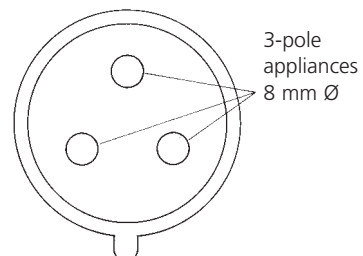
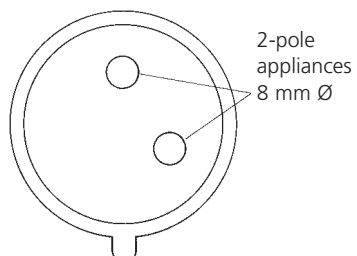
(63A is not standardised)

⚠ IP 44

Product group 3042, type 22176 shown.

<div>2</div> <div>3</div> <div></div> <div></div> <div>2-pole3-pole</div>		<div><div>20-25V 50 a. 60 Hz</div><div>40-50V 50 a. 60 Hz</div><div>20-25V 40-50V 100-200 Hz</div><div>20-25V 40-50V 300 Hz</div><div>20-25V 40-50V 400 Hz</div><div>20-25V 40-50V 400-500 Hz</div><div>20-25V 40-50V — — —</div></div>							Amp.	Poles	Part numbers						Std. Pack.	Weight
										Qty.	g/each							
	63	3								10	370							
	22356																	
	63	3								10	221							
	24081																	
	63	3								10	221							
	22174																	
	63	3								10	248							
	22175																	
	63	3								10	270							
	22176																	

System 1



MENNEKES CEE plugs and receptacles for low voltage 63A

DIN VDE 0623, EN 60309-2 applies only to plugs and receptacles for low voltage with rated currents of 16A and 32A. In designing the 63A low voltage appliances, MENNEKES has taken this standard as a basis with regard to the shape and to safety along with requirements specified by customers. This has resulted in two systems. On this page, products of **system 2** are shown.

Drawing	Amp.	63	
1 MB 43	Poles	2	3
Dim. in mm	a	128	128
	b	84	84
	c	136	136
	d	11	11
	e	68	68
	f	5,3	5,3
	g	4	4
	h	158	158
	M	32	32
	M*	2x M 25 (blind) to be cut out	
Max. cable diam. (mm)		18/25	18/25
Terminal for cond. cross section (mm²) min.-max.		2,5	2,5
		—10	—10

Receptacles

(System 2), with highly heat resistant contact carrier and nickel plated contacts, internal fixing, one cable entry at top and two blind cable entries (can be cut out) at bottom, lower part of enclosure base can be turned 180°

(63A is not standardised)

⚠ IP 44

Product group 1041, type 23768 shown.

Drawing	Amp.	63	
1 MB 140	Poles	2	3
Dim. in mm	a	85	85
	b	75	75
	c	64	64
	d	60	60
	e	60	60
	f	5,3	5,3
	g	4,5	4,5
	h	88	88
	h1	5	5
	k	37	37
	l	60	60
Terminal for cond. cross section (mm²) min.-max.		4	4
		—10	—10

Panel mounted receptacles

(System 2), with highly heat resistant contact carrier and nickel plated contacts

(63A is not standardised)

⚠ IP 44

Product group 1056, type 23866 shown.

Drawing	Amp.	63	
1 MB 238	Poles	2	3
Dim. in mm	a	100	100
	b	92	92
	c	50	50
	d	85	85
	d1	41	41
	e	77	77
	f	5,1	5,1
	g	6	6
	h	102	102
	k	58	58
	l	80	80
Terminal for cond. cross section (mm²) min.-max.		4	4
		—10	—10

Panel mounted receptacles

(System 2), with highly heat resistant contact carrier and nickel plated contacts

(63A is not standardised)

⚠ IP 44

Product group 1044, type 23765 shown.

Drawing	Amp.	63	
2 MB 64	Poles	2	3
Dim. in mm	a	163	163
	b	71	71
	h	83	83
	m	140	140
	n	117	117
	y	21	21
Terminal for cond. cross section (mm²) min.-max.		4	4
		—10	—10

Plugs

(System 2), with cable gland, highly heat resistant contact carrier and nickel plated contacts

(63A is not standardised)

⚠ IP 44

Product group 2042, type 23762 shown.

Drawing	Amp.	63	
3 MB 22	Poles	2	3
Dim. in mm	a	174	174
	b	66	66
	h	89	89
	m	150	150
	y	21	21
Terminal for cond. cross section (mm²) min.-max.		4	4
		—10	—10






Connectors

(System 2), with cable gland, highly heat resistant contact carrier and nickel plated contacts

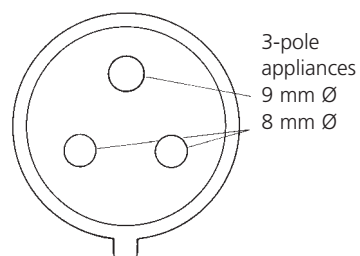
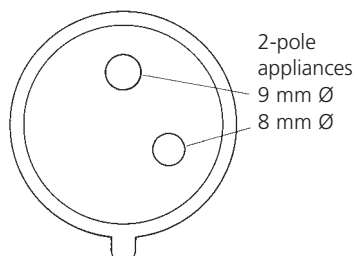
(63A is not standardised)

⚠ IP 44

Product group 3042, type 23771 shown.

<div>2</div> <div>3</div>		<div>20-25V 50 a. 60 Hz</div> <div>40-50V 50 a. 60 Hz</div> <div>20-25V 40-50V 100-200 Hz</div> <div>20-25V 40-50V 300 Hz</div> <div>20-25V 40-50V 400 Hz</div> <div>20-25V 40-50V 400-500 Hz</div> <div>20-25V 40-50V</div>							Std. Pack.	Weight	
<div>2-pole</div> <div>3-pole</div>		Amp.	Poles	Part numbers							
											Qty.
	63	2		23767					23954	10	355
	63	3		23768						10	370
	63	2		23865						10	208
	63	3		23866						10	221
	63	2		23764					23971	10	208
	63	3		23765						10	221
	63	2		23761					23955	10	224
	63	3		23762						10	248
	63	2		23770					24230	10	250
	63	3		23771						10	270

System 2

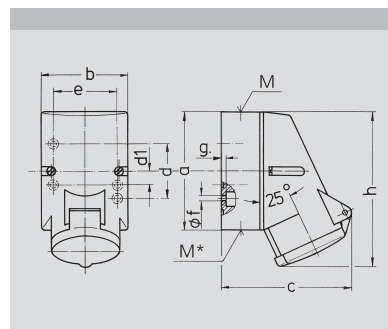


MENNEKES CEE receptacles and panel mounted receptacles downstream of isolating transformer

Earthing contact in the 12 o'clock position in accordance with DIN VDE 0623, EN 60309-2.

Colour: electric grey. Enclosure and insert made of **AMAPLAST**.

Other versions available on request.



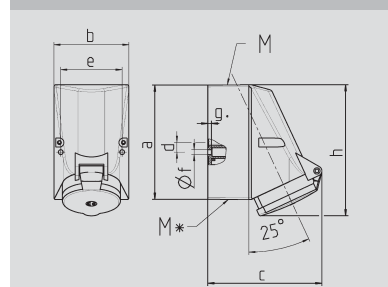
Drawing	Amp.	16		
1 MB 209	Poles	3	4	5
Dim. in mm	a	87	100	100
	b	64	75	75
	c	99	110	113
	d	40	—	—
	d1	—	11	11
	e	50	59	59
	f	4,5	5	5
	g	4	4	4
	h	115	125	128
	M	20	20	20
	M*	M20 (blind)	to be cut out	to be cut out
Max. cable diam. (mm)		15	15	15
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4

Receptacles

internal fixing, one cable entry at top and two blind cable entries (can be cut out) at bottom; in the 4 pole version, the lower part of the enclosure base can be turned 180°

▲ IP 44

Product group 1040, type 767 shown.



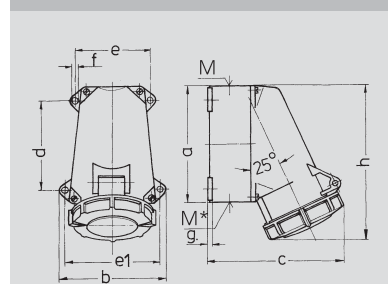
Drawing	Amp.	16			32		
1 MB 43	Poles	4	5		3	4	5
Dim. in mm	a	128	128		128	128	128
	b	84	84		84	84	84
	c	122	124		136	136	138
	d	11	11		11	11	11
	e	68	68		68	68	68
	f	5,3	5,3		5,3	5,3	5,3
	g	4	4		4	4	4
	h	144	145		158	158	160
	M	25	25		32	32	32
	M*	2x M 25 (blind)	to be cut out		2x M 25 (blind)	to be cut out	to be cut out
Max. cable diam. (mm)		18	18		18/25	18/25	18/25
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4		2,5 — 10	2,5 — 10	2,5 — 10

Receptacles

internal fixing, one cable entry at top and two blind cable entries (can be cut out) at bottom; in the 4 pole version, the lower part of the enclosure base can be turned 180°

▲ IP 44

Product group 1041, type 3147 shown.



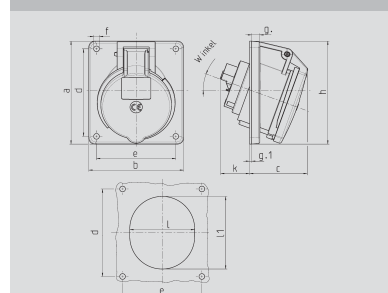
Drawing	Amp.	16			32		
1 MB 219	Poles	3	4	5	3	4	5
Dim. in mm	a	95	95	95	120	120	120
	b	102	102	102	112	112	112
	c	115	124	129	143	143	150
	d	64,2	64,2	64,2	90,2	90,2	90,2
	e	77,5	77,5	77,5	79	79	79
	e1	88	88	88	98,5	98,5	98,5
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	5	5	5	5	5	5
	h	128	128	132	160	160	160
	M	20	25	25	32	32	32
	M*	20	25	25	M 32 (blind)	to be cut out	to be cut out
Max. cable diam. (mm)		15	18	18	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4	2,5 — 10	2,5 — 10	2,5 — 10

Receptacles

with four external fixings, one cable entry at top and one blind cable entry (can be cut out) at bottom

▲ IP 67

Product group 1049, type 3224 shown.

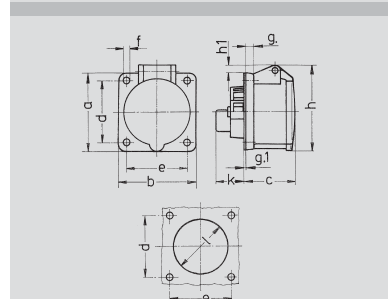


Drawing	Amp.	16			32		
1 MB 260	Poles	3	4	5	3	4	5
Dim. in mm	a	73,5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	58	58	62	62	62
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	7	8	8	8	8	8
	g1	2	2	2	2	2	2
	h	79	100	100	103	103	107
	k	43	32	32	53	53	45
	l	52	55	65	67	67	72
	l1	60	63	72	82	82	85
	alpha	20°	20°	20°	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4	2,5 — 10	2,5 — 10	2,5 — 10

Panel mounted receptacles

▲ IP 44

Product group 1044, type 3220 shown.

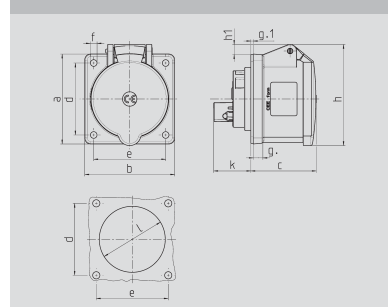


Drawing	Amp.	16		
1 MB 259	Poles	3	4	5
Dim. in mm	a	62	72	72
	b	62	65	65
	c	54	54	54
	d	47	52	52
	e	47	52	52
	f	5,5	5,5	5,5
	g	8	8	8
	g1	2	2	2
	h	68	77	85
	h1	7	7	11
	k	28	28	28
	l	50	52	57
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4

Panel mounted receptacles

▲ IP 44

Product group 1055, type 3222 shown.

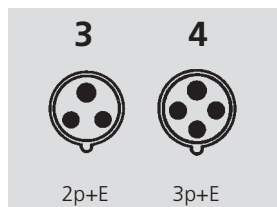


Drawing	Amp.	16			32		
1 MB 247	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	55	64	64	65
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g1	2	2	2	2	2	2
	h	75	80	85	89	89	95
	h1	6	6	9	11	11	12
	k	31	32	32	39	39	39
	l	43	52	54	58	58	62
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4	2,5 — 10	2,5 — 10	2,5 — 10

Panel mounted receptacles

▲ IP 44

Product group 1056, type 3067 shown.



Downstream
of isolating
transformer

Amp.
Poles
3-pole 4-pole
12h 12h

Std. Pack.

Weight

Part numbers

Qty. g/each



16 3 767
16 4 768

10 180
10 240



32 3 3141
32 4 3147

10 355
10 370



16 3 2904
16 4 3223
32 3 3012
32 4 3224

10 240
10 270
10 380
10 390



16 3 3217
16 4 3218
32 3 3219
32 4 3220

10 132
10 186
10 250
10 260



16 3 3221
16 4 3222

10 127
10 148



16 3 3053
16 4 3052
32 3 3088
32 4 3067

10 136
10 152
10 203
10 217

MENNEKES CEE plugs and receptacles downstream of isolating transformer

Earthing contact in the 12 o'clock position in accordance with DIN VDE 0623, EN 60309-2.

Colour: electric grey. Enclosure and insert made of **AMAPLAST**.

Other versions available on request.

Drawing	Amp.	16			32		
1 MB 141	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	70	70	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
Terminal for cond. cross section (mm²) min.-max.	k	26	27	27	34	34	34
	l	50	54	57	62	62	65
		1,5	1,5	1,5	2,5	2,5	2,5
		-4	-4	-4	-10	-10	-10

Panel mounted receptacles

☼ IP 67

Product group 1046, type 809 shown.

Drawing	Amp.	16			32		
2 MB 217	Poles	3	4	5	3	4	5
Dim. in mm	a	142	147	147	186	186	180
	b	53	59	67	70	70	77
	h	59	69,4	76	81	81	89,5
	n	105,2	110,5	110,5	141	141	135
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		-2,5	-2,5	-2,5	-6	-6	-6

Plugs AM-TOP®

single part body,
screw terminals,
cable gland and sealing

⚠ IP 44

Product group 2141, type 862 shown.

Drawing	Amp.	16			32		
2 MB 218	Poles	3	4	5	3	4	5
Dim. in mm	a	142	144	147	186	186	180
	b	70	78	87	94	94	101
	n	109	111	114	145	145	138
	y	14,5	16	16	22	22	22
		1	1	1	2,5	2,5	2,5
Terminal for cond. cross section (mm²) min.-max.		-2,5	-2,5	-2,5	-6	-6	-6

Plugs AM-TOP®

single part body,
screw terminals,
cable gland and sealing

☼ IP 67

Product group 2149, type 886 shown.

Drawing	Amp.	16			32		
3 MB 63	Poles	3	4	5	3	4	5
Dim. in mm	a	162	165	167	209	209	208
	b	60	68	76	82	82	89
	h	83	92	98	100	100	108
	y	14,5	16	16	22	22	22
		1	1	1	2,5	2,5	2,5
Terminal for cond. cross section (mm²) min.-max.		-2,5	-2,5	-2,5	-6	-6	-6

Connectors AM-TOP®

single part body,
screw terminals,
cable gland and sealing

⚠ IP 44

Product group 3141, type 1003 shown.

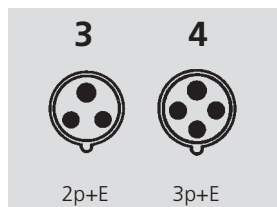
Drawing	Amp.	16			32		
3 MB 62	Poles	3	4	5	3	4	5
Dim. in mm	a	146	166	172	212	212	213
	b	72	79	89	96	96	102
	h	80	88	95	98	98	105
	y	14,5	16	16	22	22	22
		1	1	1	2,5	2,5	2,5
Terminal for cond. cross section (mm²) min.-max.		-2,5	-2,5	-2,5	-6	-6	-6

Connectors AM-TOP®

single part body,
screw terminals,
cable gland and sealing

☼ IP 67

Product group 3149, type 1029 shown.



Downstream
of isolating
transformer

Amp. Poles 3-pole 4-pole
12h 12h

Std. Pack.

Weight

Part numbers

Qty. g/each



16 3 806
16 4 807

32 3 808
32 4 809

10 150
10 170

10 236
10 245



16 3 860
16 4 861

32 3 862
32 4 863

10 113
10 146

10 208
10 222



16 3 886
16 4 887

32 3 888
32 4 889

10 133
10 165

10 230
10 245



16 3 1003
16 4 1004

32 3 1005
32 4 1006

10 143
10 180

10 247
10 256



16 3 1029
16 4 1030

32 3 1031
32 4 1032

10 165
10 200

10 270
10 280

Portable receptacle combinations with isolating transformers

Ready wired for installation, enclosure made of solid rubber or cast resin.

Protection type  IP 44

For use in boiler and tank construction, shipbuilding, works on or in pipelines, pipe trenches, narrow confined areas, steel structures, tunnels, galleries.

Single-phase isolating transformer to VDE 0551/EN 60742

Complies with the requirements of the Employers' Liability Insurance Association: BGI 594 (use of electric appliances in areas of increased electrical risk).



MENNEKES receptacle combination EverGUM maxi

Enclosure:

solid rubber enclosure
360 x 340 x 330 mm (L x W x H),
signal yellow RAL 1003,
stackable,
with 2 handles and stainless steel
quick lock

4 CEE receptacles 16A, 2p, 24V
4 Neozed D 01, 1p (E 14),
with fusing accessories
1 MCB 16A, 1p, K
with starting current limiting device
Feeder cable 3m H07RN-F2X1.5
with contour plug 10A, 2p, 230V
Isolating transformer
VDE 0551 / EN 60742,
230/24V, 1500VA
max. duty ratio 75%

Part no. 71053



As above, however:

2 CEE receptacles 16A, 2p, 42V
2 Neozed D01, 1p (E 14),
with fusing accessories
1 MCB 16A, 1p, K
with starting current limiting device
Isolating transformer
VDE 0551 / EN 60742,
230/42V, 1500VA
max. duty ratio 75%

Part no. 71054

As above, however:

1 SCHUKO® receptacle 16A, 230V
1 MCB 6A, 1p+N, C
1 MCB 16A, 1p, K
with starting current limiting device
Isolating transformer
VDE 0551 / EN 60742,
230/230V, 1500VA
max. duty ratio 75%

Part no. 71055



MENNEKES receptacle combination EverGUM compact

Enclosure:

solid rubber enclosure
306 x 230 x 287 mm (L x W x H),
signal yellow RAL 1003,
stackable,
with handle and stainless steel quick
lock, lockable

2 CEE receptacles 16A, 2p, 42V
1 glass tube fuse 4A
(primary side)
Feeder cable 3m H07RN-F2X1.5
with contour plug 10A, 2p, 230V
Isolating transformer
VDE 0551 / EN 60742,
230/42V, 630VA

Part no. 71052

Portable receptacle combinations with isolating transformers

Ready wired for installation, enclosure made of solid rubber or cast resin.

Protection type  IP 44

12



MENNEKES receptacle combination

Enclosure:

cast resin
190 x 160 x 220 mm (L x W x H),
black RAL 9005,
with handle

1 CEE receptacle 16A, 2p, 42V
1 glass tube fuse 4A
(primary side)
Feeder cable 2m H05VVH2-F2X0.75
with contour plug 10A, 2p, 230V
Isolating transformer
VDE 0551 / EN 60742,
cast resin T40/E, 230/42V, 630VA
Part no. 71059



MENNEKES receptacle combination

Enclosure:

cast resin
190 x 160 x 220 mm (L x W x H),
black RAL 9005,
with handle

1 SCHUKO® receptacle 16A, 230V
1 glass tube fuse 4A
(primary side)
Feeder cable 2m H05VVH2-F2X0.75
with contour plug 10A, 2p, 230V
Isolating transformer
VDE 0551 / EN 60742,
cast resin T40/E, 230/230V, 630VA
Part no. 71060



MENNEKES receptacle combination

Enclosure:

cast resin
165 x 100 x 155 mm (L x W x H),
black RAL 9005,
with handle

1 CEE receptacle 16A, 2p, 24V
1 glass tube fuse 2A
(primary side)
Feeder cable 2m H05VVH2-F2X0.75
with contour plug 10A, 2p, 230V
Isolating transformer
VDE 0551 / EN 60742,
cast resin T40/E, 230/24V, 320VA
Part no. 71056



As above, however:

1 CEE receptacle 16A, 2p, 42V
1 glass tube fuse 2A
(primary side)
Feeder cable 2m H05VVH2-F2X0.75
with contour plug 10A, 2p, 230V
Isolating transformer
VDE 0551 / EN 60742,
cast resin T40/E, 230/42V, 320VA
Part no. 71057

As above, however:

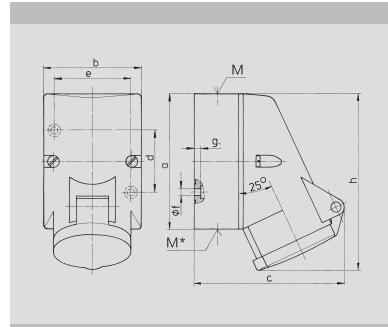
1 SCHUKO® receptacle 16A, 230V
1 glass tube fuse 2A
(primary side)
Feeder cable 2m H05VVH2-F2X0.75
with contour plug 10A, 2p, 230V
Isolating transformer
VDE 0551 / EN 60742,
cast resin T40/E, 230/230V, 320VA
Part no. 71058

MENNEKES CEE plugs and panel mounted receptacles for direct current

in accordance with DIN VDE 0623, EN 60309-2. Colour: electric grey.

Enclosure and insert made of **AMAPLAST**.

Other versions available on request.



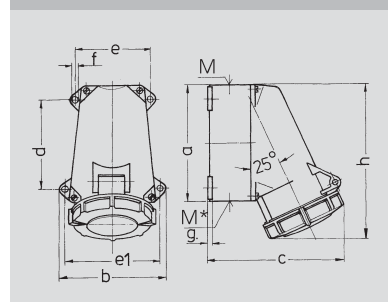
Drawing	Amp.	16
1 MB 369	Poles	3
Dim. in mm	a	87
	b	64
	c	99
	d	40
	e	50
	f	4,5
	g	4
	h	115
	M	20
	M*	20 (blind)
Max. cable diam. (mm)		to be cut out
		15
Terminal for cond. cross section (mm²) min.-max.		1,5
		—4

Receptacles

internal fixing,
one cable entry at top and one blind
cable entry (can be cut out) at bottom

▲ IP 44

Product group 1040, type 2152 shown.



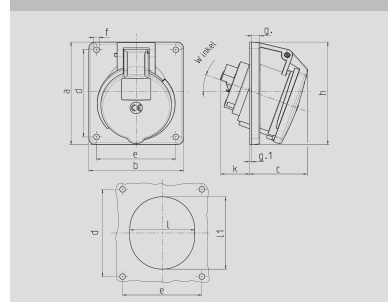
Drawing	Amp.	16			32		
1 MB 219	Poles	3	4	5	3	4	5
Dim. in mm	a	95	95	95	120	120	120
	b	102	102	102	112	112	112
	c	115	124	129	143	143	150
	d	64,2	64,2	64,2	90,2	90,2	90,2
	e	77,5	77,5	77,5	79	79	79
	f	88	88	88	98,5	98,5	98,5
	g	5,5	5,5	5,5	5,5	5,5	5,5
	h	128	128	132	160	160	160
	M	20	25	25	32	32	32
	M*	20	25	25	M 32 (blind)		
Max. cable diam. (mm)		(blind) to be cut out			to be cut out		
		15	18	18	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	2,5
		—4	—4	—4	—10	—10	—10

Receptacles

with 4 external fixings,
one cable entry at top and one blind
cable entry (can be cut out) at bottom

▲ IP 67

Product group 1049, type 2812 shown.



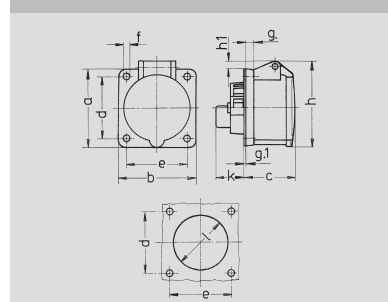
Drawing	Amp.	16			32		
1 MB 260	Poles	3	4	5	3	4	5
Dim. in mm	a	73,5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	58	58	62	62	62
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	7	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	79	100	100	103	103	107
	k	43	32	32	53	53	45
	l	52	55	65	67	67	72
	l1	60	63	72	82	82	85
	α	20°	20°	20°	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	2,5
		—4	—4	—4	—10	—10	—10

Panel mounted receptacles

20° inclination

▲ IP 44

Product group 1044, type 3214 shown.



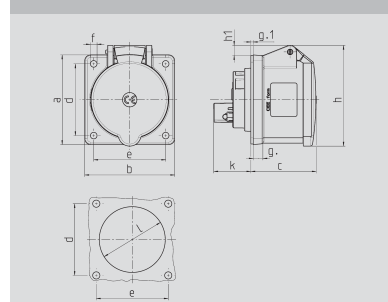
Drawing	Amp.	16		
1 MB 259	Poles	3	4	5
Dim. in mm	a	62	72	72
	b	62	65	65
	c	54	54	54
	d	47	52	52
	e	47	52	52
	f	5,5	5,5	5,5
	g	8	8	8
	g.1	2	2	2
	h	68	77	85
	h1	7	7	11
	k	28	28	28
	l	50	52	57
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5
		—4	—4	—4

Panel mounted receptacles

straight

▲ IP 44

Product group 1055, type 3215 shown.



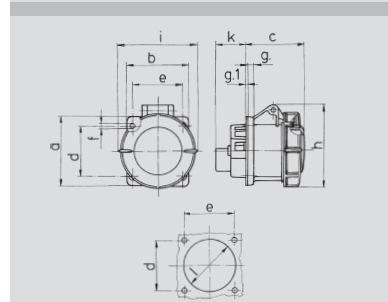
Drawing	Amp.	16			32		
1 MB 247	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	55	64	64	65
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	75	80	85	89	89	95
	h1		6	9	11	11	12
	k	31	32	32	39	39	39
	l	43	52	54	58	58	62
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	2,5
		—4	—4	—4	—10	—10	—10

Panel mounted receptacles

straight

▲ IP 44

Product group 1056, type 3216 shown.



Drawing	Amp.	16			32		
1 MB 141	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	70	70	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	26	27	27	34	34	34
	l	50	54	57	62	62	65
Terminal for cond. cross section (mm ²) min.-max		1,5	1,5	1,5	2,5	2,5	2,5
		—4	—4	—4	—10	—10	—10

Panel mounted receptacles

straight

▲ IP 67

Product group 1046, type 2289 shown.

3



2p+E



Amp.
Poles

3h

Part numbers

Std. Pack.

Weight

Qty. g/each

16 3 2152

10 180



16 3 2812

10 240



16 3 3214

10 132



16 3 3215

10 127



16 3 3216

10 136



16 3 2289

10 150

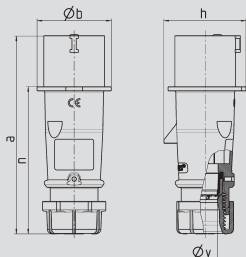


MENNEKES CEE plugs and connectors for direct current

in accordance with DIN VDE 0623, EN 60309-2. Colour: electric grey.

Enclosure and insert made of **AMAPLAST**.

Other versions available on request.



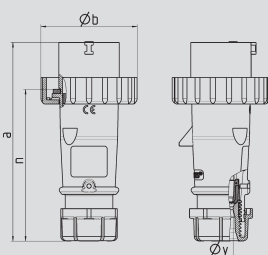
Drawing	Amp. Poles	16			32			
		3	4	5	3	4	5	
2 MB 217	Dim. in mm	a	142	147	147	186	186	180
		b	53	59	67	70	70	77
		h	59	69,4	76	81	81	89,5
		n	105,2	110,5	110,5	141	141	135
		y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm ²) min.-max.		1	1	1	2,5	2,5	2,5	
		—2,5	—2,5	—2,5	—6	—6	—6	

Plugs AM-TOP®

single part body,
screw terminals,
cable gland and sealing

⚠ IP 44

Product group 2141, type 2184 shown.



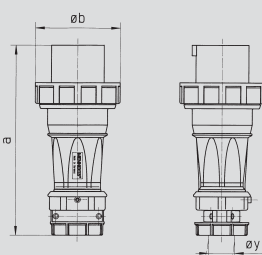
Drawing	Amp.	16			32			
		Poles			3	4	5	
2 MB 218		3	4	5	3	4	5	
	Dim. in mm	a	142	144	147	186	186	180
		b	70	78	87	94	94	101
		n	109	111	114	145	145	138
		y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5	
		—2,5	—2,5	—2,5	—6	—6	—6	

Plugs AM-TOP®

single part body,
screw terminals,
cable gland and sealing

💧 IP 67

Product group 2149, type 2422 shown.



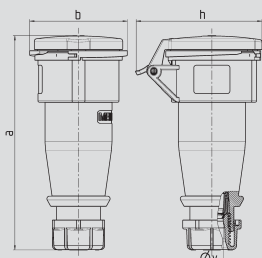
Drawing	Amp.	63			125			
		3	4	5	3	4	5	
2 MB 207/2 Poles								
	Dim. in mm	a	246	246	246	293	293	293
		b	114	114	114	131	131	131
		y	36	36	36	50	50	50
Terminal for cond. cross section (mm²) min.-max.		6	6	6	25	25	25	
		—16	—16	—16	—50	—50	—50	

Plugs PowerTOP

with highly heat resistant contact
carrier and nickel-plated contacts,
cable gland and external cable grip

💧 IP 67

Product group 2013, type 2849 shown.



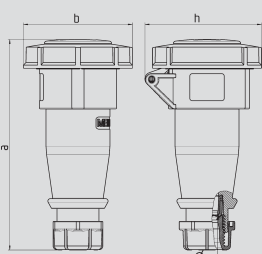
Drawing	Amp. 3 MB 63	16			32		
		3	4	5	3	4	5
Dim. in mm	a	162	165	167	209	209	208
	b	60	68	76	82	82	89
	h	83	92	98	100	100	108
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors AM-TOP®

single part body,
screw terminals,
cable gland and sealing

⚠ IP 44

Product group 3141, type 2185 shown.





Drawing 3 MB 62	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	146	166	172	212	212	213
	b	72	79	89	96	96	102
	h	80	88	95	98	98	105
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors AM-TOP®

single part body,
screw terminals,
cable gland and sealing

💧 IP 67

Product group 3149, type 2605 shown.

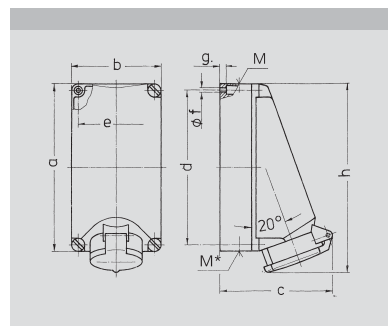
<div> <div>3</div>  <div>2p+E</div> </div>		<div> <div>>50-250V</div> <div>>250V</div> </div>		<div> <div>3h</div> <div>8h</div> </div>		Std. Pack.	Weight
		Amp.	Poles	Part numbers		Qty.	g/each
		16	3	2184	2331	10	113
		32	3	2211	2221	10	208
		16	3	2422	2930	10	133
		32	3	2117	2118	10	230
		63	3	2849	3213	5	669
		16	3	2185		10	143
		16	3	2605		10	165

MENNEKES CEE receptacles, switched and interlocked, for direct current

in accordance with DIN VDE 0623, EN 60309-2. Colour: electric grey.

Enclosure and insert made of **AMAPLAST**.

Other versions available on request.



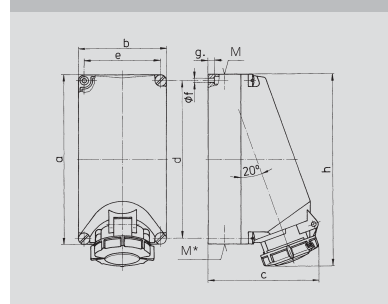
Drawing	Amp.	16			32		
1 MB 142	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	139	148	150	150	150	152
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	247	252	252	253	253	253
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

switched, with mechanical **DODSCH** interlock

⚠ IP 44

Product group 1077, type 5467 shown.



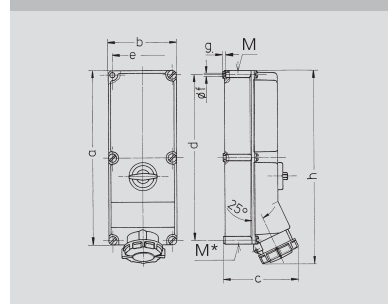
Drawing	Amp.	16			32		
1 MB 206	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	144	150	152	155	155	159
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	249	251	253	255	255	259
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles

switched, with mechanical **DODSCH** interlock

IP 55

Product group 1187, type 7445 shown.



Drawing	Amp.	63		
1 MB 283	Poles	3		
Dim. in mm	a	460		
	b	180		
	c	209		
	d	440		
	e	160		
	f	8,1		
	g	8		
	h	525		
	M	40		
	M*	2x40		
Max. cable diam. (mm)		27		
Terminal for cond. cross section (mm²) min.-max.		4 —25		

Receptacles

switched, with mechanical **DUO** interlock, padlockable

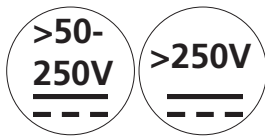
💧 IP 67

Product group 1074, type 5806 shown.

3



2p+E



3h

8h

Amp.

Poles

Part numbers

Std. Pack.

Weight

Qty. g/each



16 3 5467

1 1142

32 3 5474

1 1720



32 3 7446 7445

4 1724



63 3 5806 5703

1 5150



■ CEE plugs and receptacles for containers and terminals

13

Receptacles and panel mounted receptacles, 32A, IP 67

Page 272 and 273



Receptacles, switched and interlocked, DUO, 32A, IP 67

Page 272 and 273

Plugs and panel mounted inlets, 32A, IP 67

Page 272 to 275



Connectors, 32A, IP 67

Page 274 and 275

Phase sequence test plug, 32A, IP 44

Page 274 and 275



AMAXX receptacle combinations, 32A, IP 67

Page 275

■ Plugs and receptacles for containers and terminals

The safe connection all over the world.



Nowadays perishable goods are transported around the world in refrigerated containers by land, sea and air. Whatever the application, MENNEKES plugs and receptacles prove their worth. In container terminals, loading and transfer stations, ports, airports, in warehouses and on board of ships.



Nickel plated contacts and highly heat resistant contact carriers guarantee increased protection against corrosion and overheating.

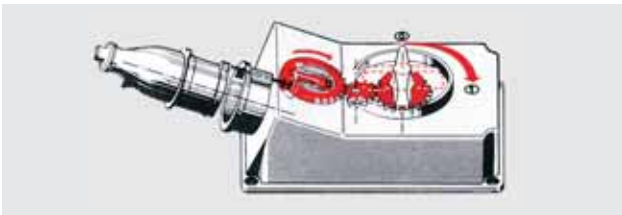
**400-
440 V**

**3h
3P + **

Internationally standardised refrigerated containers: earthing contact in the 3 o' clock position to IEC 309-2/EN 60309-2, protection type IP 67.

Proven technology. Easy to assemble.

Rugged single part body. When fastening the screws, the cable grip engages and the seal is compressed. The serrations on the gland give firm hold and prevent accidental loosening. At the same time, the gland gives good protection against kinking.



Demonstrated over decades, in thousands of applications.

On ships and in container terminals. Receptacles with DUO interlock. Dependable and safe. After insertion and switching on, the plug is locked in the ON position. After switching off and withdrawing the plug, the switch is locked in the OFF position.

Safe. Tight. Durable.

Safe enclosures with foamed seals: free of silicone, CFCs and halogens. Even after years of use, the high plasticity of the seal guarantees protection to class IP 67.



Switched and interlocked receptacles.

Also available as a fused design and with a monitoring receptacle. Ample wiring space to suit all prescribed cable or wire cross sections.

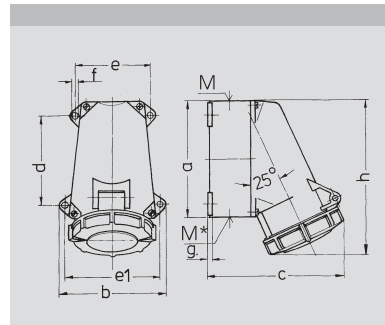
On-site planning results in individual solutions – world-wide.

Container plugs and receptacles for one of the biggest freight companies in the world – the photo shows one of the numerous variations offered by MENNEKES. In consultation with the customer and with on site planning, container receptacle combinations are tailored to suit individual requirements with regard to both, size and fittings.



MENNEKES CEE plugs and receptacles for containers with highly heat resistant contact carrier and nickel plated contacts

Earthing contact in the 3 o'clock position in accordance with DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Other versions available on request.



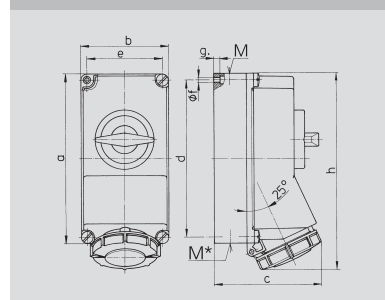
Drawing	Amp.	16			32		
1 MB 219	Poles	3	4	5	3	4	5
Dim. in mm	a	95	95	95	120	120	120
	b	102	102	102	112	112	112
	c	115	124	129	143	143	150
	d	64,2	64,2	64,2	90,2	90,2	90,2
	e	77,5	77,5	77,5	79	79	79
	e1	88	88	88	98,5	98,5	98,5
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	5	5	5	5	5	5
	h	128	128	132	160	160	160
	M	20	25	25	32	32	32
	M*	20	25	25	M 32 (blind)	M 32 (blind)	M 32 (blind)
		(blind) to be cut out	(blind) to be cut out	(blind) to be cut out	25	25	25
Max. cable diam. (mm)		15	18	18	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4	2,5 — 10	2,5 — 10	2,5 — 10

Receptacles

with highly heat resistant contact carrier and nickel plated contacts, 4 external fixings, one cable entry at top and one blind cable entry (can be cut out) at bottom

☼ IP 67

Product group 1049, type 2644 shown.



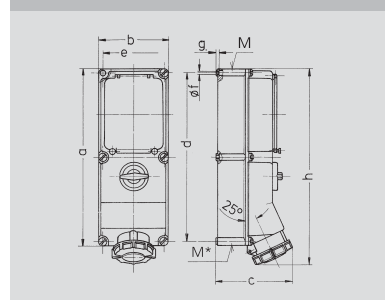
Drawing	Amp.	16			32		
1 MB 207	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	144	146	147	152	152	153
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	252	255	259	268	268	274
	M	1xM25 and 1xM32	1xM25 and 1xM32	1xM25 and 1xM32	1xM25 and 1xM32	1xM25 and 1xM32	1xM25 and 1xM32
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4	2,5 — 10	2,5 — 10	2,5 — 10

Receptacles

with highly heat resistant contact carrier and nickel plated contacts, switched, with mechanical **DUO** interlock, may be padlocked in the OFF position

☼ IP 67

Product group 1074, type 5792 shown.



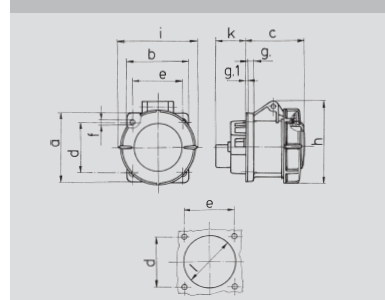
Drawing	Amp.	16			32		63	
1 MB 181	Poles	3	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460
	b	134	134	134	134	134	180	180
	c	160	162	163	168	168	209	209
	d	347	347	347	347	347	440	440
	e	117	117	117	117	117	160	160
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1
	g	8	8	8	8	8	8	8
	h	391	395	398	408	411	525	525
	M	32/40	32/40	32/40	32/40	32/40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4	2,5 — 10	2,5 — 10	6 — 25	6 — 25

Receptacles

with highly heat resistant contact carrier and nickel plated contacts, switched, with mechanical **DUO** interlock and DIN rail, may be padlocked in the OFF position

☼ IP 67

Product group 1089, type 5946 shown.



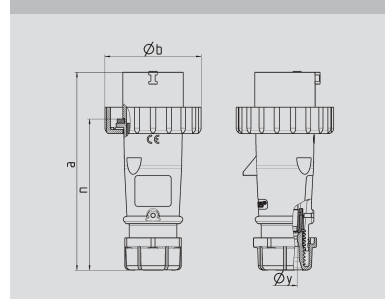
Drawing	Amp.	16			32		
1 MB 141	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	70	70	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	26	27	27	34	34	34
	l	50	54	57	62	62	65
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	1,5 — 4	2,5 — 10	2,5 — 10	2,5 — 10

Panel mounted receptacles

with highly heat resistant contact carrier and nickel plated contacts

☼ IP 67

Product group 1046, type 2123 shown.



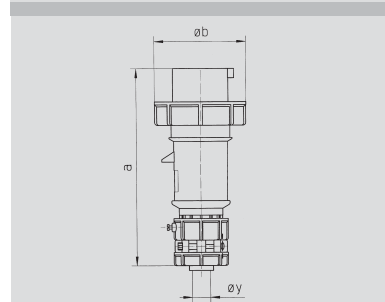
Drawing	Amp.	16			32		
2 MB 218	Poles	3	4	5	3	4	5
Dim. in mm	a	142	144	147	186	186	180
	b	70	78	87	94	94	101
	n	109	111	114	145	145	138
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1 — 2,5	1 — 2,5	1 — 2,5	2,5 — 6	2,5 — 6	2,5 — 6

Plugs AM-TOP®

single part body, screw terminals, with highly heat resistant contact carrier and nickel plated contacts, cable gland and sealing

☼ IP 67

Product group 2149, type 2175 shown.



Drawing	Amp.	32
2 MB 211	Poles	4
Dim. in mm	a	201
	b	95
	y	max. 19 min. 14

Plugs PowerTOP

with highly heat resistant contact carrier and nickel plated contacts, cable gland and external cable grip, contact pins sealed with gaskets

☼ IP 67

Product group 2026, type 2600 shown.

4



3p+E

400 -
440V4-pole
3hAmp.
Poles

Std. Pack.

Weight

Part numbers

Qty. g/each

32 4

2644

10

390



32 4

5792

1

1180



32 4

5946

2

2070



32 4

2123

10

245



32 4

2175

10

311



32 4

2600

10

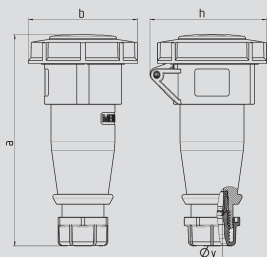
345



13

MENNEKES CEE plugs and receptacles for containers with highly heat resistant contact carrier and nickel plated contacts

Earthing contact in the 3 o' clock position in accordance with DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Other versions available on request.



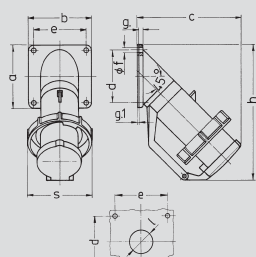
Drawing	Amp.	16			32		
3 MB 62	Poles	3	4	5	3	4	5
Dim. in mm	a	146	166	172	212	212	213
	b	72	79	89	96	96	102
	h	80	88	95	98	98	105
	y	14,5	16	16	22	22	22
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2,5	2,5	2,5
		—2,5	—2,5	—2,5	—6	—6	—6

Connectors AM-TOP®

with highly heat resistant contact carrier and nickel plated contacts, single part body, screw terminals, cable gland and sealing

☼ IP 67

Product group 3149, type 2117 shown.



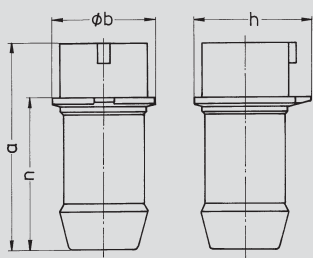
Drawing	Amp.	16				32		63	
2 MB 40	Poles	5	3	4	5	4	5	4	5
Dim. in mm	a	85	85	85	85	114	114	114	114
	b	85	85	85	85	114	114	114	114
	c	141	141	141	144	180	180	180	180
	d	70	70	70	70	90	90	90	90
	e	70	70	70	70	90	90	90	90
	f	6,2	6,2	6,2	6,2	6,2	6,2	6,2	6,2
	g	6	6	6	6	6	6	6	6
	g.1	2	2	2	2	2	2	2	2
	h	181	181	181	188	242	242	242	242
	s	86	93	93	100	113	113	113	113
Terminal for cond. cross section (mm²) min.-max.		1	2,5	2,5	2,5	4	4	4	4
		—2,5	—6	—6	—6	—10	—10	—10	—10

Panel mounted inlets

with hinged lid, with highly heat resistant contact carrier and nickel plated contacts

☼ IP 67

Product group 2050, type 2692 shown.



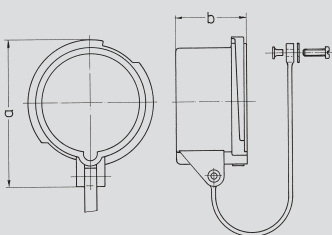
Drawing	Amp.	16		32		63	
2 MB 140	Poles	4	5	4	5	4	5
Dim. in mm	a	126	129	145	145	211	211
	b	60	65	66	74	100	100
	h	62	69	71	80	100	100
	n	90	93	99	99	145	145

Phase sequence test plugs

earthing contact in the 3 o' clock position, conforming to VDE 0413 part 9

☼ IP 44

Product group 2070, type 3718 shown.



Drawing	Amp.	32
2 MB 146	Poles	4
Dim. in mm	a	91
	b	51

Protective caps for plug 32A, 4p

Part no. 40841

☼ IP 67

Product group 8226, type 40841 shown.



The product examples on this page only show 2 possibilities of the large range of combinations. Please contact us and, we will be pleased to provide advice.



EverGUM distribution board to supply two consumers using an integral timer.



4



3p+E

400 -
440V4-pole
3hAmp.
Poles

Std. Pack.

Weihgt

Part numbers

Qty. g/each

32 4

2177

10

280



32 4

2692

10

354



32 4

3718

5

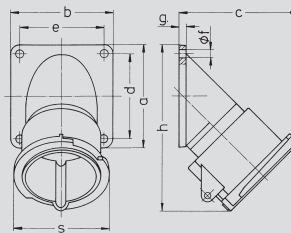
212



Houlder
for plug 32A, 4p

Part no. 41342

Product group 8215,
type 41342 shown.



Drawing	Amp.	32
2 MB 186	Poles	4
Dim. in mm	a	85
	b	85
	c	100
	d	70
	e	70
	f	6,2
	g.	6
	h	138
	s	82

AMAXX® receptacle combination for containers and terminals

pre-wired for installation
Protection type IP67

Enclosure size: 520 x 225 mm

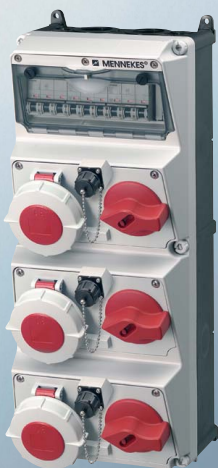
black case
upper part electric grey RAL 7035,
hinged to the side,
fusing under a transparent cover

Cable entry:
2 x M 40 at top (one open, one closed)
2 x M 40 at bottom (closed)
additionally:
2 x M 20 at top (closed)
2 x M 20 at bottom (closed)

Fitted with:
3 CEE receptacles 32A, 4p, 400V, 3h
switched, with mechanical
DUO-interlock
3 MCB's 32A, 3p, C
3 monitoring sockets MS3102E 14S2S

Connection:
for 2 cables up to 5 x 25 mm²
and for monitoring sockets 12 x 4 mm²

Part no. 940019





■ CEE plugs and receptacles for hazardous areas, zone 22

Terminology of explosion protection, provisions, guidelines, standards

Page 282 to 289



Receptacles, switched, interlocked, DUO, 16A to 63A, IP 67, for zone 22
Page 280 and 281



Plugs, 16A to 63A, IP 67, for zone 22
Page 280 and 281

■ Plugs and receptacles for hazardous areas, zone 22

Well protected against dust.



Rugged enclosures with good chemical resistance and a high degree of IP protection – these features make MENNEKES plugs and receptacles the products of choice for industrial use in zone 22 hazardous areas.



The MENNEKES range of plugs and receptacles: wall mounted receptacles with mechanical DUO interlock and matching plugs with the appropriate number of poles and rated current to IP 67. Wall mounted receptacles only accommodate plugs with the same rated voltage, rated current and number of poles.

The dust proof test in accordance with EN 60529 demonstrates that MENNEKES zone 22 plugs and receptacles stay clean – at least on the inside and this is what counts.



All the information you require at a glance.

IP 67 protection

T60°C maximum outside temperature of enclosure in service

3 D protection against dust explosions, zone 22

II not for underground use

Approval no. of test authority

Meeting all requirements.



MENNEKES plugs and receptacles 16A, 32A, and 63A with 3-, 4- or 5-poles and various voltages.

Load-break switch,
designed for maximum
power as per AC 3
and AC 23.



High degree of safety
in every detail. The
enclosure can only be
opened using specially
approved tools.



Ergonomic ribs and
wings for optimum
handling.



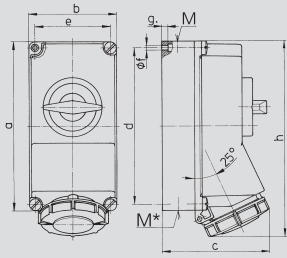
Uniform contact
pressure across
the sealed area.



MENNEKES switched and interlocked CEE receptacles and plugs for use in hazardous areas where combustible dust is present to meet zone 22 requirements.

Other voltages and frequencies are available on request.

For detailed information, please see page 278/279 and 282 to 289.



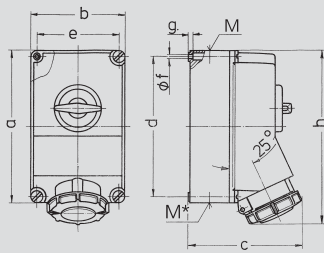
Drawing	Amp.	16			32		
1 MB 207	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	144	146	147	152	152	153
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	252	255	259	268	268	274
	M	1xM25 and 1xM32			1xM25 and 1xM32		
	M*	2x25 2x25 2x25			2x25 2x25 2x25		
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

Receptacles for zone 22

switched,
with mechanical **DUO** interlock,
explosion-proof cable entry and
explosion-proof sealing plug,
padlockable

IP 67

Product group 1011, type 7413 shown.



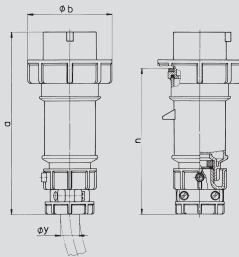
Drawing	Amp.	63		
1 MB 180	Poles	3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	196	196	196
	d	240	240	240
	e	140	140	140
	f	8,1	8,1	8,1
	g	8	8	8
	h	300	300	300
	M	40	40	40
	M*	40	40	40
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25

Receptacles for zone 22

switched,
with mechanical **DUO** interlock,
explosion-proof cable entry and
explosion-proof sealing plug,
padlockable

IP 67

Product group 1011, type 7417 shown.



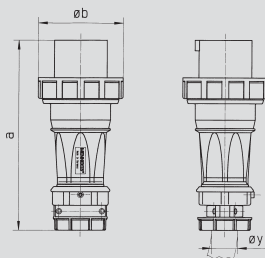
Drawing	Amp.	16			32		
2 MB 171	Poles	3	4	5	3	4	5
Dim. in mm	a	162	172	186	199	199	213
	b	71	79	89	95	95	102
	n	129	139	152	157	157	172
	y	19	19	22	24,5	24,5	28,5
Terminal for cond. cross section (mm²) min.-max.		1 —2,5	1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —6

Receptacles for zone 22

with cable gland and external
cable grip

IP 67

Product group 2011, type 3510 shown.



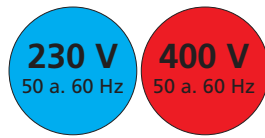
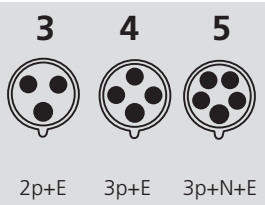
Drawing	Amp.	63			125		
2 MB 207/2	Poles	3	4	5	3	4	5
Dim. in mm	a	246	246	246	293	293	293
	b	114	114	114	131	131	131
	y	36	36	36	50	50	50
Terminal for cond. cross section (mm²) min.-max.		6 —16	6 —16	6 —16	25 —50	25 —50	25 —50

Receptacles for zone 22

with cable gland and external
cable grip

IP 67

Product group 2011, type 3514 shown.



3-pole 4-pole 5-pole 3-pole 4-pole 5-pole
6h 9h 9h 9h 6h 6h

	Amp.	Poles	Part numbers		Std. Pack.	Weight
					Qty.	g/each
	16	3	7409		1	1060
	16	4		7410	1	1100
	16	5		7411	1	1150
	32	3	7412		1	1165
	32	4		7413	1	1180
	32	5		7414	1	1230
	63	3	7415		1	2500
	63	4		7416	1	2530
	63	5		7417	1	2660
	16	3	3500		1	205
	16	4		3501	1	260
	16	5		3502	1	295
	32	3	3503		1	320
	32	4		3510	1	345
	32	5		3511	1	410
	63	3	3512		1	592
	63	4		3513	1	707
	63	5		3514	1	770



Our plugs and receptacles are tested and approved by the accredited testing authority.
Approval no. BVS 04 E 125

■ Plugs and receptacles for hazardous areas where combustible dust is present according to zone 22

Terms of dust explosion protection, decrees, directives, standards

Terms

Excerpt from EN 61241-10:2004 (IEC 61241-10:2004)

"Electrical apparatus for use in the presence of combustible dust – Part 10: Classification of areas where combustible dusts are or may be present" and

Excerpt from EN 50281-1-1:1999

"Electrical apparatus for use in the presence of combustible dust – Part 1-1: Electrical apparatus protected by enclosures – Construction and testing".

Area

Three-dimensional region or space.

Atmospheric conditions

(Surrounding conditions)

Conditions that include variations in pressure and temperature above and below reference levels of 101.3 kPa (1 013 mbar) and 20°C (293 K), provided that the variations have a negligible effect on the explosive properties of the combustible dust.

Dust

Small solid particles including fibres and flyings in the atmosphere which settle out under their own weight, but which may remain suspended in air for some time (includes dust and grit as defined in ISO 4225).

Combustible dust

Dust, fibres or flyings that can burn or glow in air and could form explosive mixtures with air at atmospheric pressure and normal temperatures.

Conductive dust

Dust with electrical resistivity equal to or less than $10^3 \Omega \times m$.

Explosive dust atmosphere

Mixture with air, under atmospheric conditions, of flammable substances in the form of dust, fibres or flyings in which, after ignition, combustion spreads throughout the unconsumed mixture.

Hazardous area (dust)

Area in which combustible dust in cloud form is, or can be expected to be, present in quantities such as to require special precautions for the construction and use of equipment in order to prevent ignition of an explosive dust/air mixture.

NOTE: Hazardous areas are divided into zones based upon the frequency and duration of the occurrence of explosive dust/air mixtures.

Ignition temperature of a dust layer

Lowest temperature of a hot surface at which ignition occurs in a dust layer of specified thickness on this hot surface (see EN 50281-2-1).

Ignition temperature (of a dust cloud)

Lowest temperature of the hot inner wall of a furnace at which ignition occurs in a dust cloud in air contained therein (see EN 50281-2-1).

Dust ignition protection

All relevant measures specified in this standard (e.g. dust ingress protection and surface temperature limitation) applied to electrical apparatus to avoid ignition of a dust layer or cloud.

Dust-tight enclosure

Enclosure capable of preventing the ingress of all observable dust particles.

Dust-protected enclosure

Enclosure in which the ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with the safe operation of the equipment; dust shall not accumulate in a position within the enclosure where it is liable to cause an ignition hazard.

Maximum surface temperature

Highest temperature which is attained by any part of the surface of electrical apparatus when tested under the defined dust free conditions.

NOTE: This temperature is attained under the test condition. Increasing the layer thickness can increase this temperature due to the thermal insulation properties of dust.

Maximum permissible surface temperature

Highest temperature a surface of electrical apparatus is allowed to reach in practical service to avoid ignition; the maximum permissible surface temperature will depend upon the type of dust; its layer thickness, and the application of a safety factor.

NOTE: For details see EN 50281-1-2, clause 6.

Equipment group II

This classification applies to equipment for use in all areas (except for underground work in mines and mine equipment above ground which may be subject to a risk from mine gas), which may be exposed to an explosive atmosphere. Equipment group II is classified into three categories, depending on the occurrence of an explosive atmosphere in the application area.

Equipment group II category 1

Equipment designed to be capable of functioning in conformity with the operational parameters established by the manufacturer and ensuring a very high level of protection.

Equipment in this category is intended for use in areas in which explosive atmospheres caused by

air/dust mixtures are present continuously, for long periods or frequently.

Equipment in this category must ensure the requisite level of protection, even in the event of rare incidents relating to equipment, and is characterized by means of protection such that:

- in the event of failure of one means of protection, at least an independent second means provides the requisite level of protection; or
- the requisite level of protection is assured in the event of two faults occurring independently of each other.

Equipment group II category 2

Equipment designed to be capable of functioning in conformity with the operational parameters established by the manufacturer and of ensuring a high level of protection.

Equipment in this category is intended for use in areas in which explosive atmospheres caused by air/dust mixtures are likely to occur.

The means of protection relating to equipment in this category ensure the requisite level of protection, even in the event of frequently occurring disturbances or equipment faults which normally have to be taken into account.

Equipment group II category 3

Equipment designed to be capable of functioning in conformity with the operating parameters established by the manufacturer and ensuring a normal level of protection.

Equipment in this category is intended for use in areas in which explosive atmospheres caused by air/dust mixtures are unlikely to occur or, if they do occur, are likely to do so only infrequently and for short periods only.

Equipment in this category ensures the requisite level of protection during normal operation.

Equipment

Machines, apparatuses, stationary or mobile appliances, control or equipment components as well as warning and preventive systems which alone or in combination with each other are intended to produce, transfer, store, measure, control and convert power and/or to process materials which have some potential for ignition and may therefore cause explosion.

Normal operation

Situation when the process equipment is operating within its design parameters.

NOTE: Minor releases of dust which may form a cloud or layer (e.g. releases from filters) can be part of normal operation.

Zones exposed to explosive dust/air mixtures

Areas exposed to an explosive dust atmosphere are classified into zones on the basis of the frequency and duration of the occurrence of explosive dust/air mixtures. Layers, deposits and accumulations of combustible dust, which are to be considered in the same way as any other cause leading to the formation of an explosive atmosphere.

Zone 20

A place in which an explosive atmosphere, in the form of a cloud of combustible dust in air, is present continuously, or for long periods or frequently for short periods.

Zone 21

A place in which an explosive atmosphere, in the form of a cloud of combustible dust in air, is likely to occur occasionally in normal operation.

Zone 22

A place in which an explosive atmosphere, in the form of a cloud of combustible dust in air, is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Examples of zones for explosive dust atmospheres

Zone 20

- Locations inside the dust containment;
- hoppers, silos, etc, cyclones and filters;
- dust transport systems, except some parts of belt and chain conveyors, etc;
- blenders, mills, dryers, bagging equipment, etc.

Zone 21

- Areas outside dust containment and in the immediate vicinity of access doors subject to frequent removal or opening for operation purposes when internal explosive dust/air mixtures are present.
- Areas outside dust containment in the proximity of filling and emptying points, feed belts, sampling points, truck dump stations, belt dump over points, etc. where no measures are employed to prevent the formation of explosive dust/air mixtures.
- Areas outside dust containment where dust accumulates and where, due to process operations, the dust layer is likely to be disturbed and form explosive dust/air mixtures.
- Areas inside dust containment where explosive dust clouds are likely to occur (but neither continuously, nor for long periods, nor frequently), e.g. silos (if filled and/or emptied only occasionally) and the dirty side of filters, if large self-cleaning intervals exist.

Zone 22

- Outlets from bag filter vents which, in the event of a malfunction, can emit explosive dust/air mixtures.
- Locations near equipment opened at infrequent intervals or equipment that, from experience, can easily form leaks where, due to above atmospheric pressure, dust is blown out; pneumatic equipment, flexible connections that can become damaged, etc.
- Storage of bags containing dusty products. Failure of bags can occur during handling, causing dust emission.
- Areas that are normally classified as zone 21 can fall into zone 22 when measures are employed to prevent the formation of explosive dust/air mixtures. Such measures include exhaust ventilation. The measures taken should be carried out in the vicinity of (bag) filling and emptying points, feed belts, sampling points, truck dump stations, belt dump over points, etc.
- Areas where controllable dust layers are formed that are likely to be disturbed and create explosive dust/air mixtures. Only if the layer is removed by cleaning before hazardous dust/air mixtures can be formed, is the area designated non-hazardous.

Containers enclosing dust

They are used as parts of equipment in processes where substances are handled, processed, conveyed, or stored which, among other measures, prevent the release of dust into the ambient atmosphere.

Source of dust release

This is a point or a place from where combustible dust may be released into the atmosphere. The dust may escape from a dust enclosing container or may result from dust deposits.

Release sources

They are classified in the order of decreasing hazard as follows:

- Permanent formation of dust clouds: Places where a dust cloud constantly occurs or can be expected over a long period of time or occurs frequently for short periods of time;
- Primary degree of release: A source from which an occasional release of combustible dust can be expected under normal operating conditions;
- Secondary degree of release: A source from which no release of combustible dust can be expected under normal operating conditions. If dust is released, it will only be on rare occasions and for short periods of time.

Extent of zones of explosive dust/air mixtures

The extent of a zone of explosive dust/air mixtures is defined as the distance from the edge of the dust source up to the point (in any direction) where the risk arising from such zone is considered to be non-existent. It must be remembered that fine dust can be carried upwards, away from the source, due to the movement of air in a building.

Definition of zones

The definition of the explosive area (zone) must be made on the basis of the operational requirements. The following shall be considered: places of release, possible movement of air in the equipment, constructional design, weather effects such as wind and rain for outdoor equipment, type and quantity of dust, grain size, humidity, product throughput, dust deposits, risk of dust dispersion. When defining the zones, the EU directive 1999/92 EC, the decree on operational safety and the explosion protection regulations must be observed.

Combustion and explosion parameters of dust

Ignition temperature, glow ignition temperature and conductivity of dust can be found in the special brochure entitled BIA report (Institut für Arbeitssicherheit – BIA – St. Augustin.)

Installation of electrical equipment in areas exposed to dust explosion from July 01, 2003

Areas exposed to dust explosion classified as zones 20, 21 and 22 may occur e.g. in

- Various industries
- Chemical, plastic producing and processing, metal processing, pharmaceutical industries, feed industry, rubber, wood, lacquer, leather, food and textile industries.
- Factories, warehouses, potato and other agricultural processing, milk powder producing works, mills and peat processing works, factories for the processing of magnesium; warehouses in agricultural collectives, in docks and in logistics plants associated with the storage of unpacked, combustible plastics and food and the related raw materials.
- Equipment
Coal processing and coal dust equipment.

Please note:

- EU directive 1999/92 EC
- Ordinance on Operational Safety (Betriebssicherheitsverordnung – BetrSichV) dated September 27, 2002
- Explosion Protection Regulations – EX-RL (BGR 104)
- EN 50281-3:2002 (VDE 0165 part 102:2003-05)
"Electrical equipment for use in the presence of combustible dust. Classification of areas where combustible dusts are or may be present".
- EN 50281-1-2:1998 (VDE 0165 part 2:1999-11)
"Electrical equipment for use in the presence of combustible dust. Selection, installation and maintenance".

The electrical equipment, protective systems and components used must be in line with the EU

directive 94/9 CE (ATEX) and must be designed according to the applicable EN standards. Compliance with the EU directive and standards is demonstrated by a type approval issued by a nominated control body (e.g. PTB, EXAM) and certified by a declaration of conformity issued by the manufacturer.

The surface temperature of the equipment must not be so high that dispersed dust or dust deposited on the equipment may ignite.

For this to apply, the following conditions must be complied with:

- a) The surface temperature must not exceed $\frac{2}{3}$ of the ignition temperature in °C of the particular dust/air mixture.
- b) On surfaces where a hazardous deposit of dust capable of glow ignition cannot be effectively prevented, a temperature of 75K below the glow ignition temperature of the dust must not be exceeded. In the case of a layer thickness greater than 5 mm, a further reduction of the surface temperature is necessary. In the case of dust deposits with a layer thickness greater than 5 mm, the temperature of the surface of the enclosure must be further reduced if necessary.
- c) The lower of the values determined according to a) and b) above shall be applicable.

No connectors or adapters may be used.

Selection of plugs and receptacles for zone 22 areas where combustible dusts are or may be present

Only plugs and receptacles may be used which are in line with EU directive 94/9 EC (ATEX) and are designed according to standard EN 50281-1-1:1999. Only plugs and receptacles should be used which have been type tested by a nominated control body. Plugs and receptacles must be approved for group IID, at least category 3. In order to prevent dust ingress, the maximum IP protection according to EN 60529, e.g. IP 67 should be used.

The MENNEKES Ex-plugs and receptacles for use in zone 22 where there is a risk of dust explosion shown on the following pages comply with these requirements.

Obligation to retrofit existing equipment by January 01, 2006.

The decree on operational safety, which converts the EU directive 1999/92 EC into German law, provides that all equipment must be adapted to the required state of the art by January 01, 2006.

In the past, equipment of good industrial quality was used in the former zone 11, which has been replaced by zones 21 and 22, which was not approved by a control body and only complied with the requirements of the former VDE standard 0165:1991-02. Such equipment must be replaced by new equipment according to the EU directive 94/9 EC (ATEX), if a risk assessment by the operator and by the inspection authority so requires.

MENNEKES Ex-plugs and receptacles for zone 22

As a result of their high IP protection and their robust enclosure with good chemical resistance, the MENNEKES EX-plugs and receptacles are well suited for the power supplies for mobile, explosion-proof electrical equipment, for a use in industry in zone 22 areas where an explosive atmosphere in the form of a cloud of combustible dust may arise, in moist rooms and outdoors at ambient temperatures from -20°C to +40°C.

The surface temperature of the enclosure does not exceed +60°C, so that there is a sufficient safety margin between the ignition and the glow ignition temperatures of many types of dust. Dust ingress is effectively prevented by the IP 67 dust- and waterproof enclosure according to EN 60529.

The plugs and receptacles are based on the standardised system for industrial plugs and receptacles to EN 60309-1:1999 and 60309-2:1999. Furthermore, the plugs and receptacles are in line with EN 50281-1-1:1998 "Protection provided by enclosure".

The system of plugs and receptacles is made up of a wall mounted receptacle with mechanical interlocking (DUO interlock) and the matching plug with the appropriate number of poles and rated current, protection IP 67. Only wall mounted receptacles and plugs with the same rated voltage, the same rated current and the same number of poles may be plugged together. All plugs and sockets have a protective (PE) conductor. The wall mounted receptacle is provided with a disconnecting switch with a breaking capacity of AC 3 and AC 23 (see technical data). Therefore, overloads can be switched off by the wall mounted receptacle without risk.

The switch is suitable as a main switch and is in line with IEC 60947-3, EN 60947-3 and the VDE provision 660 part 107: Forced activation of contacts during switching off and on. The on and off positions of the switch are marked on the outside of the enclosure of the wall mounted receptacle. The connecting terminals of the switches are finger proof according to VDE 0106 part 100 and are protected to IP 20. All external conductors and the neutral conductor are switched. The receptacle insert with contact bushings is ready wired with the switch using single wires. The protective conductor is connected to a separate PE terminal on the switch. The interlocking mechanism is installed in the upper part of the enclosure of the wall mounted receptacle, so as to prevent the receptacle being switched on without the plug being connected and the plug being unplugged when under load. The plug can only be plugged in or unplugged when the receptacle is switched off. The receptacle can be locked using a padlock when in the off position. The plug is made up of the front portion with the contact carrier, the nickel plated contact pins and the cover with cable entry.

Conformity with standards

The plugs and receptacles are in conformity with the **EU directive 94/9 EC "Equipment and Protective Systems Intended for the Use in Potentially Explosive Atmospheres"** and the **EU directive 89/336 EC "Electromagnetic Compatibility"**.

The plugs and receptacles and installed components are in line with the following standards, if applicable:

EN 50281-1-1; DIN EN 50281-1-1:1999-10

(VDE 0170/0171 part 15-1-1)

EN 60309-1; DIN EN 60309-1:2000-05

(VDE 0623 part 1)

EN 60309-2; DIN EN 60309-2:2000-05

(VDE 0623 part 20)

EN 60947-3; DIN EN 60947-3:2001-12

(VDE 660 part 107)

Type testing

The plugs and receptacles are type tested according to EN 50281-1, e.g. by a nominated control body, in accordance with the EU directive 94/9 EC.

Type test certificate no.

04 BVS 04 E 125

Identification according to EU directive 94/9 EC:

 **II 3 D T 60 °C Cc**

Protection type

The ignition protection of the plugs and receptacles according to EN 50281-1-1:1998 is "Protection provided by enclosure". With the existing seals and the design of the enclosure, IP 67 to EN 60529 is achieved when the hinged cover is closed and the plug is locked using the bayonet ring.

Technical data - Plugs and receptacles 16A, 32A and 63A

Wall-mounted receptacles						
Rated current	I_n	A	16	32	63	
Rated operating voltage, 3 poles 4, 5 poles	U_n	V	200 – 250 380 – 415			
Rated frequency	f	Hz	50 – 60			
Position of retaining nose (hour position)		h	6			
Ambient temperature	T_u	°C	-20 to +40			
Storage temperature	T	°C	-40 to +80			
IP protection with closed and secured hinged cover or plugged-in plug			IP 67			
Cable entry in the enclosure	A_1	mm	1 x M32 x 1.5	2 x M40		
Number and connecting threads EN 60423			3 x M25 x 1.5			
Cable entry, included in the supply		St.	1 x M25	1 x M32	1 x M40	
Cable cross section for M 40 x 1.5		mm	22 to 32			
Cable cross section for M 32 x 1.5		mm	18 to 25			
Cable cross section for M 25 x 1.5		mm	13 to 18			
Explosion-proof sealing plug, included in the supply		St.	1 x M32 2 x M25	3 x M25	1 x M40	
Cross section for connection, min. – max.						
of the terminals on the switch						
one or more wires		mm ²	1.5 – 6	2.5 – 16	6 – 70	
stranded wire without ferrule		mm ²	1.5 – 4	2.5 – 10	6 – 50	
stranded wire with ferrule DIN 46228		mm ²	1.5 – 4	2.5 – 10	6 – 50	
Technical data of the installed switch						
Rated permanent current, encapsulated	I_{the}	A	32	63	80	
Rated breaking capacity						
AC-3 3 poles 220 V – 240 V		kW	3	7.5	15	
3 a. 4 poles 380 V – 440 V		kW	7.5	18.5	37	
AC-23 A(B) 2 poles, 1 phase 230 V		kW	4	7.5	15	
3 u. 4 poles, 380 V – 440 V 3 phase		kW	11	22	45	

Plug						
Rated current	I_n	A	16	32	63	
Cable entry						
Cable diameter, min. – max. 3 a. 4 poles, 5 poles	D	mm	9 – 19 11.4 – 22	11–24.5 11–28.5	12 – 36 12 – 36	
Cross section for connection, min. – max.						
stranded wire without ferrule		mm ²	1 – 2.5	2.5 – 6	6 – 16	
stranded wire with ferrule DIN 46228		mm ²	1 – 2.5	2.5 – 6	6 – 16	



■ CEE plugs and receptacles for camp sites, mobile consumers, trailers and mobile homes

**Construction
regulations and
standards**

Page 294 and 295



**Built-in plugs,
CaraCONTACT,
16A,
IP 44**

Page 296



**Angled connectors,
16A,
IP 44**

Page 296



**Wall mounted inlets,
16A,
IP 44**

Page 296



**Plugs and connectors,
16A,
IP 44**

Page 296 and 297



**Wall mounted and
panel mounted
receptacles,
16A,
IP 44**

Page 297



**Receptacle
combinations
and stainless steel
weather shields
for camp sites**

Page 298 and 299



■ Plugs and receptacles for camp sites and mobile consumers

Safe and reliable in everyday use.



Plugs and receptacles for camp sites and caravans, docksides and boats, trailers and mobile homes.

Built-in plug CaraCONTACT.

A smart concept produced by the MENNEKES development division.

The horizontal fit of the CaraCONTACT plug relieves strain on the cable and protects it from damage. Smooth insertion of lid and connector. The test label of TÜV Rheinland is testimony to its suitability for purpose. National and international test labels demonstrate electrical safety.



Example of a typical combination for camp site and dockside use: 6 receptacles, 6 over-current and 2 residual current protection devices.



Angled connector with integrated SCHUKO® receptacle for operating electrical appliances outside the caravan; e.g. external lighting, lawnmowers, radios, etc.



Panel mounted receptacle equipped with an eyelet for a padlock. Protects against unauthorised use.



Versatile applications.



MENNEKES CombiTOWER® suitable for fitting with combinations 260 x 225 mm, 390 x 225 mm and 520 x 225 mm.

MENNEKES CombiTOWER® is available with a bright stainless steel or a signal yellow finish.

All CombiTOWER® are fitted with two apertures which may be used for compressed air pipes or water hoses at your discretion.

CombiTOWER®
On request with lockable door.

15

Stainless steel weather shields.



The modular system of weather shields and columns enables wall mounted and ground fixed installations to be combined.



For more information on material properties and recommendations, please see the product information pages in chapter 9.

■ CEE-plugs and receptacles

for electrical installations

for caravans and camp sites, boats and dockside power supplies, market and fairground booths, trailers and mobile homes

Construction regulations and standards

Electrical installations on camp sites and in caravans

DIN VDE 0100 part 708:2006/02 applies to construction. This regulation applies to the power supply to parking spaces allotted in camp sites and the connection of caravans.

For the power supply to each parking space at least one receptacle with an earth contact conforming to EN 60309 must be installed. The rated current of the receptacle must be at least 16A.

For a 230V, 16A AC power supply a 230V, 16A, 2p+E receptacle conforming to EN 60309-2:1999, standard sheet 2-I must be used.

The point of origin of the power supply to the caravan place must not be more than 20 m away. The receptacles at the point of origin must be provided at a height of 0.8 to 1.5 m. Each receptacle must have its own overcurrent protection device. The receptacles must be protected separately by residual current protection devices with a rated residual current that must not exceed 30 mA.

Extension cables must be fitted with earthed connectors and plugs conforming to EN 60309-2. The extension cable must conform to type H07RN-F3 G2.5 and must be no more than 25m in length.

Electrical connection for caravans

DIN VDE 0100 part 754:2006-02 applies to construction. This regulation applies to the connection of caravans.

Connections for caravans must be made with an earthed inlet conforming to EN 60309. The connection point must be on the outside of the caravan and must be covered by a lid. The rated inlet current must be at least 16A. For a 230V, 16A AC power supply, a 230V, 16A, 2p+E inlet conforming to EN 60309-2:1999, standard sheet 2-II must be used.

Plugs and receptacles on caravans must comply with protection class IP 55 due to special conditions or must be accommodated in such a manner that this rating is achieved.

Electrical installations for boats, yachts and dockside power supply (marinas)

DIN VDE 0100 part 721/1984-04 applies to construction. For each berth an earthed receptacle conforming to EN 60309-2:1992, standard sheet 2-I, must be provided: 230V, 16A, 2p+E, IP X4.

The point of origin of the power supply to the berths must not be more than 20 m away. The receptacles of the point of origin must be provided at a min. height of 1.0 m if they are accommodated on floating equipment or on moles. Each receptacle must be fused with its own overcurrent protection device of max. 16A. Each group of receptacles must be protected by a residual current protection device with a rated residual current that must not exceed 30 mA. One residual current protection device must not serve more than six receptacles.

Extension cables must be fitted with earthed connectors and plugs conforming to EN 60309. They must be fitted with an earthed plug conforming to EN 60309-2, standard sheet 2-II, and with an earthed connector conforming to EN 60309-2:1992, standard sheet 2-I, data as above.

The extension cable must conform to type H07RN-F3G2.5 and must be no more than 25m in length.

On-board connections must be made with an earthed inlet conforming to EN 60309. For a 230V, 16A AC power supply, a 230V, 16A, 1p+E inlet conforming to EN 60309-2:1992, standard sheet 2-II, must be used.

The plugs and receptacles must conform to enclosure protection type IP X4 at the least.

Electrical installations for market and fairground booths, trailers and mobile homes

DIN VDE 0100 part 722/1984-05 applies to construction. For supply to a power circuit direct from origin, earthed receptacles conforming to EN 60309-2:1992, standard sheet 2-I, 220 to 240V, 16A, 2p+E, IP X4 are to be provided. Residual current protection devices with a rated residual current of $\leq 0.5A$ and an overcurrent protection device with a rated current of max. 16A must be installed upstream of these receptacles. If there is more than one power circuit, a distribution board fitted with plugs and receptacles must be used, in accordance with EN 60439-4 (VDE 0660 part 501).

The vehicles must be fitted with inlets marked with the receptacle data, in accordance with EN 60309-2:1992, standard sheet 2-II.

Connection and extension cables must conform to type H07RN-F at the least and be fitted with an earthed plug conforming to EN 60309-2, standard sheet 2-II, and with an earthed connector conforming to EN 60309-2:1992, standard sheet 2-I, data as above.

In view of the electric power required by market or fairground booths, CEE plugs and receptacles conforming to EN 60309, 380-415V, 3p+N+E, with rated currents of 32A and 63A, IP X4, may also be used (see draft VDE 0100 part 740:1998-10).

MENNEKES CEE-plugs and receptacles

for electric appliances on camp sites, in caravans, for docksides and boats

to DIN VDE 0623, EN 60309-2, colour: electric grey and/or colour code.

Enclosure and insert made of **AMAPLAST**.

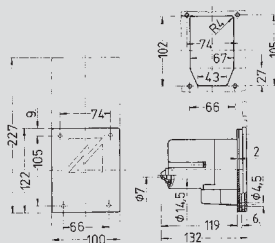
Other versions on request.



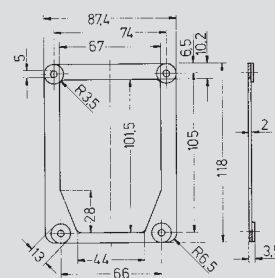
Built-in plug CaraCONTACT
with nickel plated contacts
16A, 3P, 230V
⚠ IP 44

Lid: electric grey
Part no. 8001

Lid: black
Part no. 8008



Counter frame
for built-in plug
CaraCONTACT
no. 8001, 8008
Part no. 40744



Angled connector
16A, 3P, 230V
with integral
SCHUKO® receptacle
16A, 230V
with grommet

⚠ IP 44
Part no. 1566



Angled connector
16A, 3P, 230V
with grommet

⚠ IP 44
Part no. 1438



Connector ProTOP
with screw terminals,
cable gland and sealing,
strain relief and protection
against kinking, enclosure with
thread lock and safety slide
16A, 3P, 230V

⚠ IP 44
Part no. 180AC



Wall mounted inlet
for internal or
external fixing
16A, 3P, 230V
⚠ IP 44
Part no. 844

Hinged lid for retrofitting
wall mounted inlet
Part no. 41482

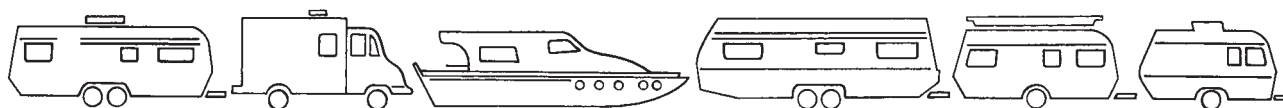


Wall mounted inlet
with hinged lid
for internal or
external fixing
16A, 3P, 230V

⚠ IP 44
Part no. 847



Wall mounted inlet
16A, 3P, 230V
⚠ IP 44
Part no. 332



ProTOP plug
with screw terminals,
cable gland and sealing,
strain relief and protection
against kinking, enclosure with
thread lock and safety slide
16A, 3P, 230V

⚠ IP 44

Part no. 148



Angled plug
with grommet
16A, 3P, 230V

⚠ IP 44

Part no. 1411



**Panel mounted receptacle
with TwinCONTACT**
screwless spring terminal,
suitable for through wiring,
straight
flange: 55 x 55 mm
fixing hole spacing: 45 x 45 mm
16A, 3p, 230V

⚠ IP 44

Part no. 1619



**Panel mounted receptacle
with TwinCONTACT**
screwless spring terminal,
suitable for through wiring,
straight
flange: 62 x 62 mm
fixing hole spacing: 47 x 47 mm
16A, 3p, 230V

⚠ IP 44

Part no. 1350



**Panel mounted receptacle
with TwinCONTACT**
screwless spring terminal,
suitable for through wiring,
20° inclination
flange: 73,5 x 64 mm
fixing hole spacing: 60 x 52 mm
16A, 3p, 230V

⚠ IP 44

Part no. 1632



**Panel mounted receptacle
with TwinCONTACT**
screwless spring terminal,
suitable for through wiring,
straight
flange: 75 x 75 mm
fixing hole spacing: 60 x 60 mm
16A, 3p, 230V

⚠ IP 44

Bestell-Nr. 1668



Panel mounted receptacle
equipped with an eyelet for
a padlock, 20° inclination,
flange: 68 x 62mm
fixing hole spacing: 47 x 47mm
16A, 3P, 230V

⚠ IP 44

Part no. 851



Plug with eyelet
16A, 3P, 230V

⚠ IP 44

Part no. 852

(matching panel mounted
receptacle 851 on the left)



**Receptacle
with TwinCONTACT**
screwless spring terminal,
external fixing,
cable entry from top
16A, 3p, 230V

⚠ IP 44

Part no. 1341



Adapter cable
3-core rubber sheathed
cable 1.5 m long
with CEE connector
16A, 3P, 230V
and SCHUKO® plug
16A, 230V

Part no. 8004



Adapter cable
3-core rubber sheathed
cable 1.5 m long
with SCHUKO® connector
16A, 230V
and CEE plug
16A, 3P, 230V

Part no. 8005

MENNEKES AMAXX® receptacle combinations for camp sites

pre-wired for installation. Enclosure and insert made of **AMAPLAST**. Other variations on request!

Protection type  IP 44




AMAXX® receptacle combination

Enclosure size: 260 x 225 mm

black case, upper part electric grey RAL 7035,
hinged to the side,
fusing under a transparent cover

Fitted with:

3 CEE receptacles 16A, 3p, 230V (with eyelet)

3 RCD's  25A, 2p, $I_{\Delta N} = 0.03A$

3 MCB's 16A, 1p, B

Cable entry:

2 M 32 at top (on open, on closed)

2 M 32 at bottom (closed)

additionally:

2 M 20 at top (closed)

2 M 20 at bottom (closed)

Connection:

for 1 cable up to 5 x 10 mm²

Part no. 920031

Part no. 920031SI *




AMAXX® receptacle combination

Enclosure size: 520 x 225 mm

black case, upper part electric grey RAL 7035,
hinged to the side,
fusing under a transparent cover

Fitted with:

6 CEE receptacles 16A, 3p, 230V (with eyelet)

6 RCD's  25A, 2p, $I_{\Delta N} = 0.03A$

6 MCB's 16A, 1p, B

Cable entry:

2 M 40 at top (on open, on closed)

2 M 40 at bottom (closed)

additionally:

2 M 20 at top (closed)

2 M 20 at bottom (closed)

Connection:

for 2 cables up to 5 x 25 mm²

Part no. 940011

Part no. 940011SI *

* SI = Upper part are silver (special colour)

**MENNEKES AMAXX® receptacle combinations for camp sites
already comply to the standard and regulations which came
into force 01.07.2007 according to DIN VDE 0100-708:2006-02
and DIN VDE 0100-754:2006-02.**

MENNEKES stainless steel CombiTOWER® and weather shields for wall mounting or with column

made from stainless steel (material 1.4301), suitable for outdoor installation

Outdoor electric appliances, e.g. on camp sites, may be exposed to unfavourable climatic conditions and UV radiance. Weather shields provide the protection that is needed.

The ideal energy filling station for camp sites.

Matches combinations with receptacles 16A to 63A.



Our modular system of weather shields and columns enables individual combination of installations fixed on the wall and on the ground.

For more information see chapter 9.



CombiTOWER
stainless steel
with removable cover,
and front plate,
painted **signal yellow** (RAL 1003),
dimensions (H x W x D):
1043 x 254 x 249 mm,
1043 x 254 x 415 mm (with door)
matching for the AMAXX®
receptacle combinations 920031
and 940011 on the left
or similar

Part no. 15679

Part no. 15681 (with door)

High safety due to signal yellow colour. Special RAL colours available on request.



CombiTOWER
stainless steel
with removable cover,
and front plate,
stainless steel finish,
dimensions (H x W x D):
1043 x 254 x 249 mm,
1043 x 254 x 415 mm (with door)
matching for the AMAXX®
receptacle combinations 920031
and 940011 on the left
or similar

Part no. 15678

Part no. 15680 (with door)



Weather shield
made from stainless steel
(material 1.4301)
dimensions (H x W x D):
498 x 254 x 250 mm
matching for the AMAXX®
receptacle combination
920031 or similar

Part no. 15682



Weather shield
made from stainless steel
(material 1.4301)
dimensions (H x W x D):
628 x 254 x 280 mm
matching for the AMAXX®
receptacle combination
940011 or similar

Part no. 15683



Column
from stainless steel
(material 1.4301)
Surface: stainless steel,
bright finish
(basic column for the two
shields shown on the left),
height approx. 1300 mm

Part no. 15530



■ Plugs and receptacles, 200A to 400A

**Receptacles,
panel mounted
receptacles,
200A to 400A,
IP 67**

Page 304 and 305



**Plugs,
inlets and
panel mounted inlets,
200A to 400A,
IP 67**

Page 306 and 307



**Connectors,
200A to 400A,
IP 67**

Page 308 and 309



**Receptacles,
switched and
interlocked,
200A to 400A,
IP 55**

Page 310 and 311



**Protective caps
for plugs and inlets,
200A to 400A,
Page 308 and 309**



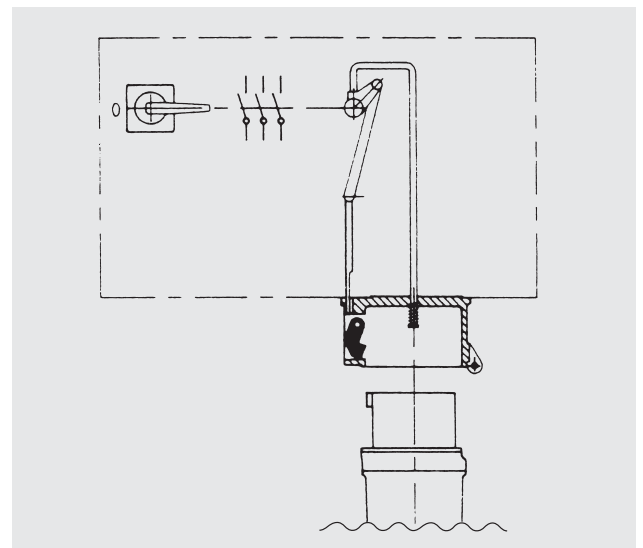
■ Plugs and receptacles, 200A to 400A

Heavy duty versions for industry.



The heavy duty range supplements the plugs and receptacles currently covered by EN 60309-2, making available rated currents of 200A, 250A and 400A and rated voltages of up to 1000V.

Their design is based on the following standards: IEC 309-1, EN 60309-1, DIN VDE 0623, part 1.



Mechanical lock.

For mobile consumers of rated current > 125A we have included a heavy duty range with 200A, 250A and 400A in our programme. This can be supplied for rated voltages of 230V to 1000V and seawater resistant.

The heavy duty range is suitable for use in very harsh conditions, e.g. building sites:

- drilling rigs
- tunnel construction
- gravel pits
- strip mining
- container terminals and crane connections in harbours; seawater resistant
- for versatile power supply at large-scale indoor and outdoor events
- power supply to market places
- airports
- quarries

Permissible rated current depending on the conductor cross section.

Rated dimension	Rated current I_n	Flexible conductors with single or multiple strands
200A	200A	70 mm ²
	250A	150 mm ²
250A	250A	120 mm ²
	315A	150 mm ²
400A	400A	185 mm ²
	450A	240 mm ²



Testing of these combinations demonstrated that these plugs, connectors and receptacles may be operated in mines at a rated voltage of 1000V.

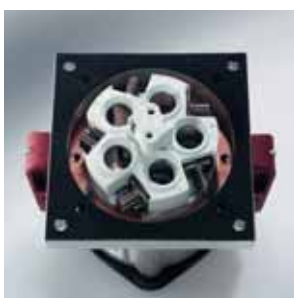
Shock hazard protected using contact covers.

Contact bushings on receptacles and connectors are fitted with covers which positively prevent getting into contact with live bushings. Shock hazard protected in accordance with IEC 309-1/ EN 60309-1.

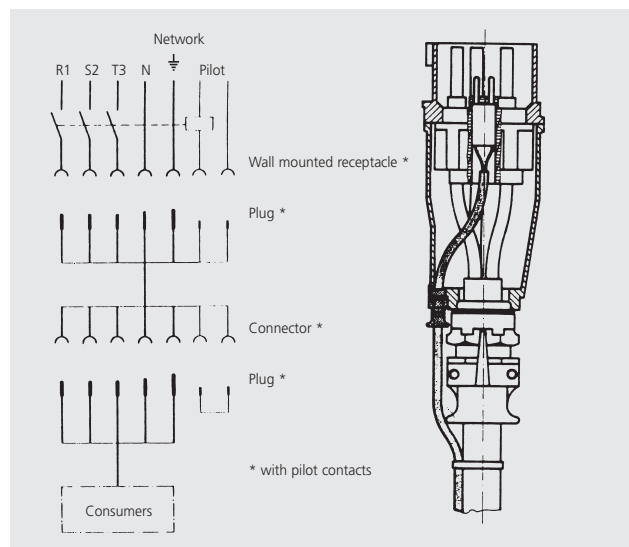


Surface protection for contacts.

Contacts 200A to 400A are protected against corrosive atmosphere by silver plating. Contacts (250A and 400A) are accessible from the front side so that there is no need to undo the connection cable when exchanging damaged parts.



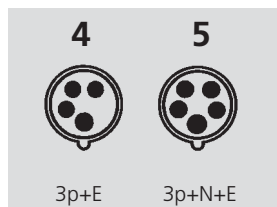
Connection terminals in plugs and receptacles 200A for conductor cross sections of 70 to 150 mm², 250A and 400A for conductor cross sections of 70 to 185 mm² or with flexible conductors, and 70 to 240 mm² with single or multiple strand conductors.



Plugs, connectors, inlets and wall mounted receptacles are supplied with flared bushings for cables of diameter 45 to 65 mm. The outside cable grip facilitates connection.

Two pilot contacts are a standard fitting in all plugs and receptacles. The pilot contacts lag when the plug is inserted and lead when it is withdrawn. If required, plugs and receptacles can be electrically interlocked.





Amp.

Poles

4-pole 5-pole
9h 9h

4-pole 5-pole
6h 6h

4-pole 5-pole
7h 7h

4-pole 5-pole
5h 5h

4-pole 5-pole
1h 1h

Std. Pack.

Weight

Part numbers

Qty. g/each



200	4	75220	75221	75222	75223	75224	1	5580
200	5	75225	75226	75227	75228	75229	1	5780

Pilot cables

If required, pilot cables can be introduced separately into plugs/enclosures, please add „PK“ to the part number.



250	4	75020	75021	75022	75023	75024	1	10510
250	5	75110	75111	75112	75113	75114	1	11020
400	4	75025	75026	75027	75028	75029	1	10510
400	5	75115	75116	75117	75118	75119	1	11020



200	4	75240	75241	75242	75243	75244	1	3200
200	5	75245	75246	75247	75248	75249	1	3450



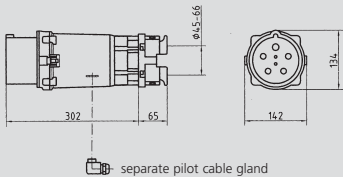
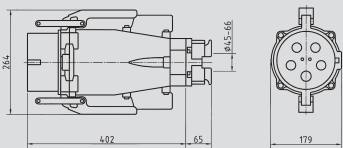
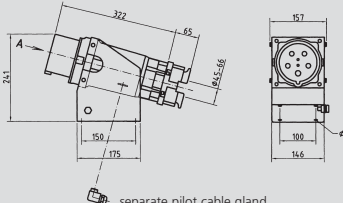
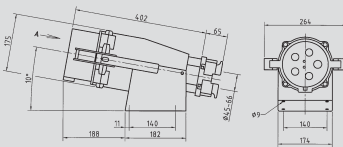
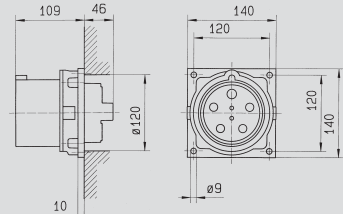
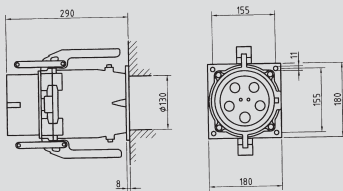
250	4	75040	75041	75042	75043	75044	1	6800
250	5	75130	75131	75132	75133	75134	1	7300
400	4	75045	75046	75047	75048	75049	1	6800
400	5	75135	75136	75137	75138	75139	1	7300

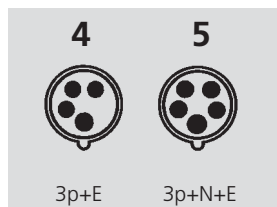
Plugs, inlets and panel mounted inlets

Design based on IEC 309-1, EN 60309-1, DIN VDE 0623 part 1.

Contact carrier made of creep resistant plastic, enclosure made of aluminium and/or plastic.

Other voltages and frequencies as well as larger cable entries available on request.

	<p>Drawing 2 MB 195 Dim. in mm</p>	<p>Plugs with cable gland</p> <p>☼☼ IP 67, seawater resistant Product group 2313, type 75206 shown.</p>
	<p>Drawing 2 MB 198/1 Dim. in mm</p>	<p>Plugs with cable gland</p> <p>☼☼ IP 67, seawater resistant Product group 2313, type 75091 shown.</p>
	<p>Drawing 2 MB 197 Dim. in mm</p>	<p>Inlets with cable gland</p> <p>☼☼ IP 67, seawater resistant Product group 2348, type 75256 shown.</p>
	<p>Drawing 2 MB 200/1 Dim. in mm</p>	<p>Inlets with cable gland</p> <p>☼☼ IP 67, seawater resistant Product group 2348, type 75173 shown.</p>
	<p>Drawing 2 MB 196 Dim. in mm</p>	<p>Panel mounted inlets</p> <p>☼☼ IP 67, seawater resistant Product group 2350, type 75261 shown.</p>
	<p>Drawing 2 MB 199/1 Dim. in mm</p>	<p>Panel mounted inlets</p> <p>☼☼ IP 67, seawater resistant Product group 2350, type 75295 shown.</p>



Amp.
Poles

4-pole 5-pole
9h 9h

4-pole 5-pole
6h 6h

4-pole 5-pole
7h 7h

4-pole 5-pole
5h 5h

4-pole 5-pole
1h 1h

Std. Pack.

Weight

Part numbers

Qty. g/each



200	4	75200	75201	75202	75203	75204	1	3000
200	5	75205	75206	75207	75208	75274	1	3200

Pilot cables

If required, pilot cables can be introduced separately into plugs/enclosures, please add „PK“ to the part number.



250	4	75000	75001	75002	75003	75004	1	8290
250	5	75090	75091	75092	75093	75094	1	8610
400	4	75005	75006	75007	75008	75009	1	8290
400	5	75095	75096	75097	75098	75099	1	8610



200	4	75250	75251	75252	75253	75254	1	4780
200	5	75255	75256	75257	75258	75259	1	4980

Pilot cables

If required, pilot cables can be introduced separately into plugs/enclosures, please add „PK“ to the part number.



250	4		75172	75373	75374		1	9660
250	5		75173	75381	75382		1	9980
400	4		75389	75390	75391		1	9660
400	5		75398	75399	75400		1	9980



200	4	75260	75261	75262	75263	75264	1	2200
200	5	75265	75266	75267	75268	75269	1	2400



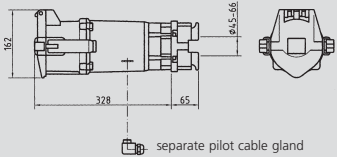
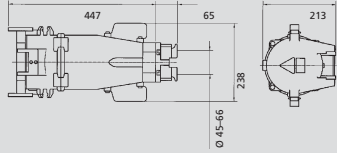
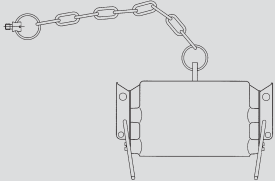
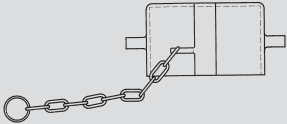
250	4	75283	75284	75285	75170		1	8100
250	5	75286	75287	75288	75289		1	8600
400	4	75290	75291	75292	75293		1	8100
400	5	75294	75295	75296	75297		1	8600

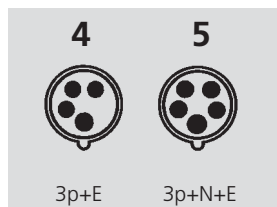
Connectors, protective caps

Design based on IEC 309-1, EN 60309-1, DIN VDE 0623 part 1.

Contact carrier made of creep resistant plastic, enclosure made of aluminium and/or plastic.

Other voltages and frequencies as well as larger cable entries available on request.

 <p>separate pilot cable gland</p>	<p>Drawing 3 MB 53 Dim. in mm</p>	<p>Connectors with cable gland</p> <p>☼☼ IP 67, seawater resistant Product group 3313, type 75216 shown.</p>
	<p>Drawing 3 MB 54/1 Dim. in mm</p>	<p>Connectors with cable gland</p> <p>☼☼ IP 67, seawater resistant Product group 3313, type 75101 shown.</p>
	<p>Drawing 2 MB 205</p>	<p>Protective caps for plug and inlet</p> <p>seawater resistant Product group 8326, type 75280 shown.</p>
	<p>Drawing 2 MB 201</p>	<p>Protective caps for plug and inlet</p> <p>seawater resistant Product group 8326, type 75160 shown.</p>



4-pole 5-pole 4-pole 5-pole 4-pole 5-pole 4-pole 5-pole 4-pole 5-pole
9h 9h 6h 6h 7h 7h 5h 5h 1h 1h

Std. Pack.

Weight

Part numbers

Qty. g/each

200	4	75210	75211	75212	75213	75214	1	3730
200	5	75215	75216	75217	75218	75219	1	3980



Pilot cables

If required, pilot cables can be introduced separately into plugs/enclosures, please add „PK“ to the part number.

250	4	75010	75011	75012	75013	75014	1	9160
250	5	75100	75101	75102	75103	75104	1	9670
400	4	75015	75016	75017	75018	75019	1	9160
400	5	75105	75106	75107	75108	75109	1	9670



for 200A	75280	1	1200
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for 250A	75160	1	1200
for 400A	75160	1	1200



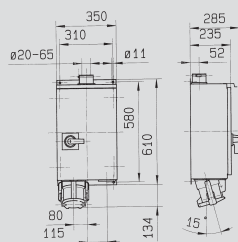
Receptacles, switched and interlocked

Design based on IEC 309-1, EN 60309-1, DIN VDE 0623 part 1.

Contact carrier made of creep resistant plastic, enclosure made of sheet steel, painted in RAL 1021.

Other voltages and frequencies as well as larger cable entries available on request.

Enclosures made of plastic or stainless steel on request.



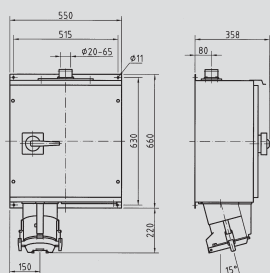
Drawing 1 MB 386
Dim. in mm

Receptacles

switched,
with mechanical interlock,
with cable entry bushing for
cables of up to 65 mm at top
and blind flange at bottom

IP 55

Product group 1374, type 75236.



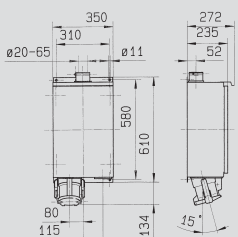
Drawing 1 MB 403/2
Dim. in mm

Receptacles

switched,
with mechanical interlock,
with cable entry bushing for
cables of up to 65 mm at top
and blind flange at bottom

IP 55

Product group 1374, type 75121.



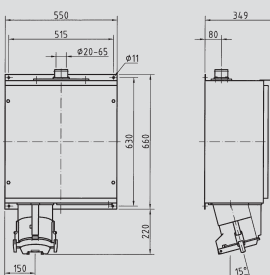
Drawing 1 MB 387
Dim. in mm

Receptacles

electrically interlocked,
with contactor,
with cable entry bushing for
cables of up to 65 mm at top
and blind flange at bottom

IP 55

Product group 1378, type 75276.



Drawing 1 MB 404/2
Dim. in mm

Receptacles

electrically interlocked,
with contactor,
with cable entry bushing for
cables of up to 65 mm at top
and blind flange at bottom

IP 55

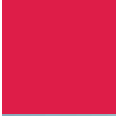
Product group 1378, type 75174.

**Receptacles, switched
and interlocked, 200A,
250A, 400A, either 4p
or 5p, are available in
seawater resistant
design on request.**

<div>4</div> <div>5</div> <div></div> <div>3p+E3p+N+E</div>		Amp.	Poles	230 V 50 a. 60 Hz		400 V 50 a. 60 Hz		500 V 50 a. 60 Hz		690 V 50 a. 60 Hz		1000 V 50 a. 60 Hz		Std. Pack.	Weight
				4-pole 9h	5-pole 9h	4-pole 6h	5-pole 6h	4-pole 7h	5-pole 7h	4-pole 5h	5-pole 5h	4-pole 1h	5-pole 1h		
Part numbers														Qty.	g/each
	200	4		75230	75231	75232	75233	75234						1	25100
	200	5		75235	75236	75237	75238	75279						1	25300
	250	4		75030	75031	75032	75033	75034						1	45000
	250	5		75120	75121	75122	75123	75124						1	46500
	400	4		75035	75036	75037	75038	75039						1	43900
	400	5		75125	75126	75127	75128	75129						1	45400
	200	4		75270	75271	75272	75273							1	25100
	200	5		75275	75276	75277	75278							1	25300
	250	4		75436	75437	75438	75439							1	45600
	250	5		75440	75441	75442	75443							1	47100
	400	4		75444	75174	75445	75446							1	51000
	400	5		75447	75448	75449	75450							1	52500

Entries for other cable diameters (> 65 mm) and other accessories are also available.

Please contact us.



■ Cable connection boxes, hinged windows, enclosures

**Cable connection boxes
AMAPLAST**
Page 316 and 317



**Hinged windows
and accessories**
Page 318 and 319



**AMAPLAST
enclosures**
Page 320 and 321



**EverGUM
solid rubber
enclosures,
signal yellow**
Page 322 and 323




**EverGUM
solid rubber
enclosures,
signal yellow**
Page 322 and 323



■ Cable connection boxes, hinged windows, enclosures

Cable connection boxes for lamp posts.



Protection  IP 44.
Dimensions in accordance
with DIN 43626.
Protection class II.

Shock hazard protected for
finger touch by a latching
cover in accordance with
BGV A2 (formerly VBG4).
Cable connection boxes
may be fitted with either
one or two fuse bases
D 01/E 14 and 5 connection
terminals rated for
 $2 \times 16\text{mm}^2$ or $3 \times 10\text{mm}^2$.
The fuse elements are
factory wired.



Suitable for installation
in lamp posts with an
internal diameter of 82mm
or more and a door
aperture of 75 x 250mm
or more.
The cable connection
boxes are generally
supplied pre-wired,
which results in a
significant reduction
of costs. The transparent
cover of the casing can
be easily removed for
access to the fuses.

AMAPLAST and EverGUM enclosures.



AMAPLAST and EverGUM enclosures are characterized by an excellent stability and the following outstanding features:

- good electrical insulation
- high mechanical strength
- wear resistance
- abrasion resistance
- dimensional stability
- self-extinguishing
- heat resistance
- high cold resistance
- ageing resistance
- seawater resistance

For more information on enclosure materials, please see the product information pages in chapters 7, 8 and 10.

Hinged windows.

Hinged windows are suitable for fitting in enclosures (e.g. MENNEKES enclosures), machines, cable ducts and switchgear cabinets.

Using angle plates and mounting rails, the hinged windows together with built-in modules can be fitted into enclosures or the doors of switchgear cabinets.



Hinged windows with or without protective cover can be supplied to fit module spacing of 2, 5, 6, 8 and 12. Optionally lockable with bracket and padlock.

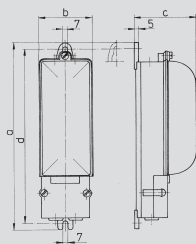


MENNEKES connection boxes made of AMAPLAST

Dimensions to DIN 43628.

Protection type  IP 44.

Other versions, e.g. **4-pole** design, are available on request.



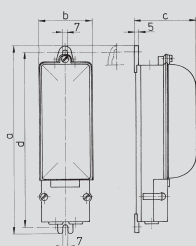
Drawing 8 MB 119

Dim. in mm	a	250
	b	72
	c	75
	d	232

Cable connection box

for lamp posts with an **internal diameter of 82 mm or more**, with smoked glass cover, with cable bushings for 1 or 2 entries of diameter 17 to 24 mm or 3 entries of diameter 15 to 19 mm, 5 sheath terminals of 2 x 16 mm², with 1 open and 1 closed M 20 gland, wired ready for connection

Product group 9812, type 10895 shown.



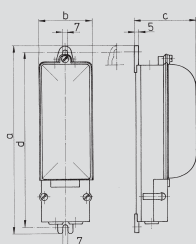
Drawing 8 MB 119

Dim. in mm	a	250
	b	72
	c	75
	d	232

Cable connection box

for lamp posts with an **internal diameter of 82 mm or more**, with smoked glass cover, with cable bushings for 1 or 2 entries of diameter 17 to 24 mm or 3 entries of diameter 15 to 19 mm, 5 sheath terminals of 2 x 16 mm², with 1 open and 1 closed M 20 gland, wired ready for connection

Product group 9812, type 10896 shown.



Drawing 8 MB 119

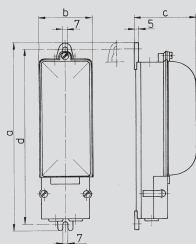
Dim. in mm	a	250
	b	72
	c	75
	d	232

Cable connection box

for lamp posts with an **internal diameter of 82 mm or more**, with smoked glass cover, with cable bushings for 1 or 2 entries of diameter 17 to 24 mm or 3 entries of diameter 15 to 19 mm, 5 sheath terminals of 2 x 16 mm², with 1 open and 1 closed M 20 gland, wired ready for connection

with fuse cartridges 10A

Product group 9812, type 10906 shown.



Drawing 8 MB 119





Dim. in mm	a	250
	b	72
	c	75
	d	232

Cable connection box

for lamp posts with an **internal diameter of 82 mm or more**, with smoked glass cover, with cable bushings for 1 or 2 entries of diameter 17 to 24 mm or 3 entries of diameter 15 to 19 mm, 5 sheath terminals of 2 x 16 mm², with 1 open and 1 closed M 20 gland, wired ready for connection

with fuse cartridges 10A

Product group 9812, type 10907 shown.

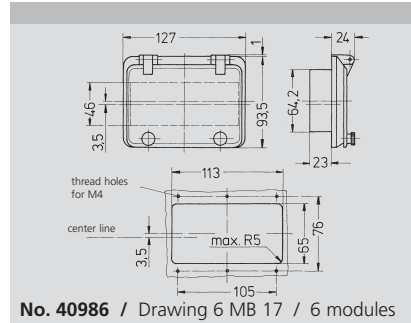
		D-type fuse sockets	Voltage up to	Part numbers	Std. Pack. Qty.	Weight g/each
		1 x D 01 (E 14)	400	10895	15	420
		2 x D 01 (E 14)	400	10896	15	463
		1 x D 01 (E 14)	400	10906	15	435
		2 x D 01 (E 14)	400	10907	15	494

MENNEKES hinged windows made of AMAPLAST and accessories

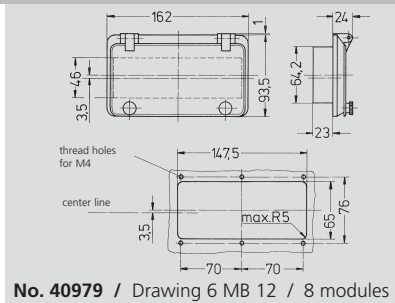
Protection types  IP 44 or  IP 67

Locking mechanism with padlock

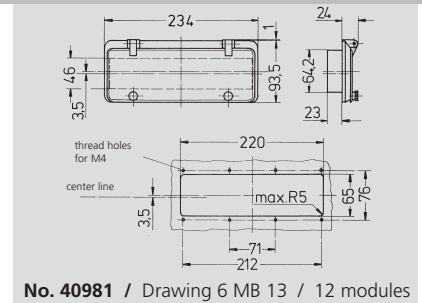
for MENNEKES hinged windows



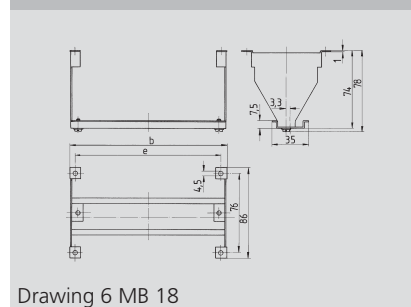
No. 40986 / Drawing 6 MB 17 / 6 modules



No. 40979 / Drawing 6 MB 12 / 8 modules

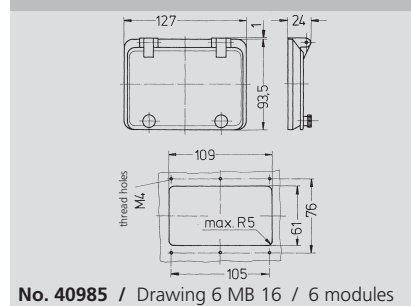


No. 40981 / Drawing 6 MB 13 / 12 modules

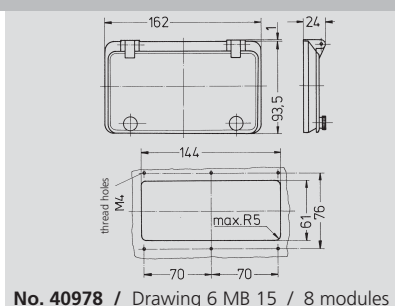


Drawing 6 MB 18

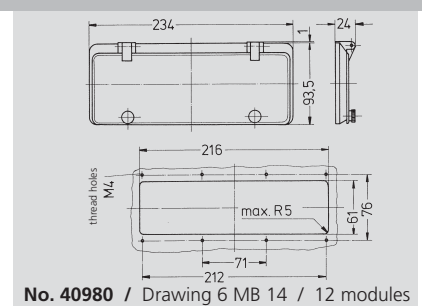
Number of spacing modules	b	e
6	115	105
8	150	140
12	222	212



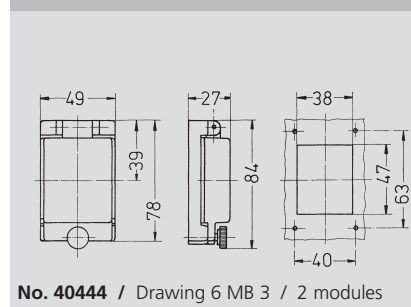
No. 40985 / Drawing 6 MB 16 / 6 modules



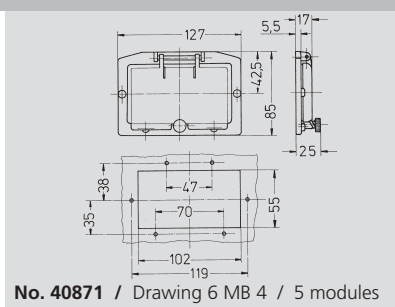
No. 40978 / Drawing 6 MB 15 / 8 modules



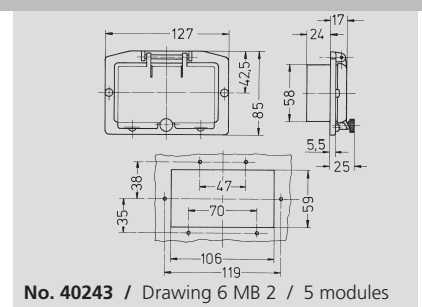
No. 40980 / Drawing 6 MB 14 / 12 modules



No. 40444 / Drawing 6 MB 3 / 2 modules



No. 40871 / Drawing 6 MB 4 / 5 modules



No. 40243 / Drawing 6 MB 2 / 5 modules

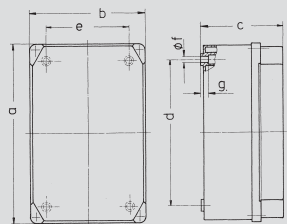
If required, hinged windows may be locked using a padlock as shown on the right.

		Frame colour	Window colour	Part numbers	Std. Pack. Qty.	Weight g/each
	Hinged window with protective cover , with knurled screws					
	for 6 modules	electric grey	smoked glass	40986	as required	128
	for 8 modules	electric grey	smoked glass	40979		169
	for 12 modules	electric grey	smoked glass	40981		225
	☼☼ IP 67					
	Installation kit for hinged window with protective cover , for fitting modules in doors and enclosure covers					
	for 6 modules (for hinged window 40986)			41431	as required	99
	for 8 modules (for hinged window 40979)			41432	as required	111
	for 12 modules (for hinged window 40981)			41433	as required	135
	Hinged window without protective cover , with knurled screws					
	for 6 modules	electric grey	smoked glass	40985	as required	107
	for 8 modules	electric grey	smoked glass	40978		127
	for 12 modules	electric grey	smoked glass	40980		169
	☼☼ IP 67					
	Hinged window with knurled screws					
	for 2 modules	electric grey	smoked glass	40444	as required	42
	without protective cover					
	for 5 modules	electric grey	smoked glass	40871		75
	without protective cover ¹⁾					
	for 5 modules	electric grey	smoked glass	40243	94	
	with protective cover ¹⁾					
	⚠ IP 44			¹⁾ without hinged window spring		
	Locking mechanism with padlock to lock hinged windows					
	Part no. 41501					
						

MENNEKES enclosures made of AMAPLAST

Protection type ▲ IP 44 or ●● IP 67

For information on material properties and resistance, see chapters 9 and 19.



Part Numbers	10176	10178	10179	10181
Dim. in mm				
a	170	170	245	341
(a)	(158)	(158)	(230)	(320)
b	118	118	160	172
(b)	(108)	(108)	(145)	(152)
c	64	96	101	107
(c)	(55)	(85)	(85)	(95)
d	134,5	134,5	*201	272
e	103	103	*133	140
f	6,1	6,1	5,5	8,5
g.	6	6	10	6,5

The dimensions in brackets show the inner dimensions.

*Additional blind fixing holes (can be cut out), spaced 137 x 172 mm

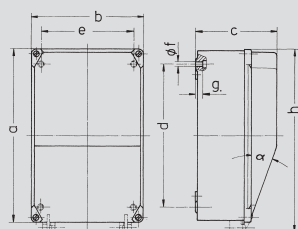
Drawing 5 MB 8

Enclosures

made of AMAPLAST,
mounting plate made of insulating
material

Part no. 10176 and 10178: ●● IP 67

Part no. 10179 and 10181: ▲ IP 44



Part Numbers	10696	10757	10679	10758
Dim. in mm				
a	245	245	341	341
(a)	(230)	(230)	(320)	(320)
b	160	160	172	172
(b)	(145)	(145)	(152)	(152)
c	131	116	149	149
(c)	(137)	(102)	(135)	(135)
d	*201	*201	272	272
e	*133	*133	140	140
f	5,5	5,5	8,5	8,5
g.	10	10	6,5	6,5
h	—	259	—	355
alpha	34°	20°	34°	34°

The dimensions in brackets show the inner dimensions.

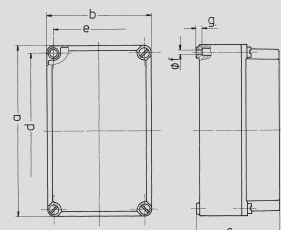
*Additional blind fixing holes (can be cut out), spaced 137 x 172 mm

Drawing 5 MB 6, 5 MB 36

Enclosures

made of AMAPLAST,
mounting plate made of insulating
material

▲ IP 44



Part Numbers	10183	10185
Dim. in mm		
a	264	264
(a)	(250)	(250)
b	163	163
(b)	(150)	(150)
c	126	126
(c)	(110)	(110)
d	240	240
e	140	140
f	8,1	8,1
g.	8	8

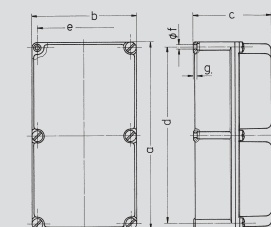
The dimensions in brackets show the inner dimensions.

Drawing 5 MB 31

Enclosures

made of AMAPLAST,
mounting plate made of insulating
material

●● IP 67



Part Numbers	10441/10442	10186/10188	10189
Dim. in mm			
a	460	460	460
(a)	(406)	(441)	(437)
b	180	260	260
(b)	(126)	(195)	(194)
c	148	150	228
(c)	(131)	(128)	(208)
d	440	434	434
e	160	234	234
f	8,1	11	11
g.	8	9.	9.

The dimensions in brackets show the inner dimensions.

Drawing 5 MB 30

Enclosures

made of AMAPLAST,
mounting plate:
Part no. 14443 made of zincd sheet
steel
Part no. 10187 made of insulating
material

●● IP 67

		External box dimensions		Colour		Std. Pack.	Weight		
		mm			Part no.	Qty.	g/each		
	170 x 118 x 64	Box		electric grey	10176	as required	335		
		Baseplate			10177		50		
	170 x 118 x 96	Box		electric grey	10178		383		
		Baseplate			10177		50		
	245 x 160 x 101	Box		electric grey	10179		660		
		Baseplate			10180		80		
341 x 172 x 107	Box		electric grey	10181	920				
	Baseplate			10182	110				
	245 x 160 x 151	Box				as required			
		without hinge		electric grey	10696		740		
	245 x 160 x 116	with hinge		electric grey	10757		750		
		Baseplate			10180		80		
	341 x 172 x 149	Box		electric grey	10679		1035		
		without hinge		electric grey	10758		1045		
341 x 172 x 149	with hinge		electric grey	10758	1045				
	Baseplate			10182	110				
	264 x 163 x 126	Box		electric grey	10183	as required	975		
		Baseplate			10184		125		
	264 x 163 x 126	Box					as required		
		Cover		transparent smoked glass					
		Base		electric grey	10185			975	
		Baseplate			10184			125	
	460 x 180 x 148	Box		electric grey	10441		2080		
		Baseplate		zincd	10443		410		
	460 x 180 x 148	Box							
		Cover		transparent smoked glass					
		Base		electric grey	10442		2080		
		Baseplate		zincd	10443		410		
	460 x 260 x 150	Box		electric grey	10186	as required	2900		
		Baseplate			10187		550		
		460 x 260 x 150	Box						
			Cover		transparent smoked glass				
	Base			electric grey	10188	2900			
	Baseplate				10187	550			
460 x 260 x 228	Box		electric grey	10189		3450			
	Baseplate			10187		550			

On request with holes for cable entries.

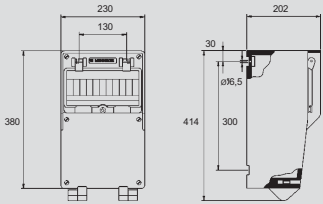

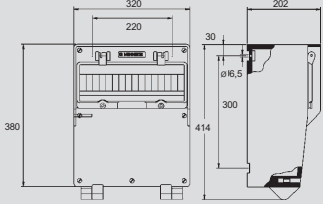

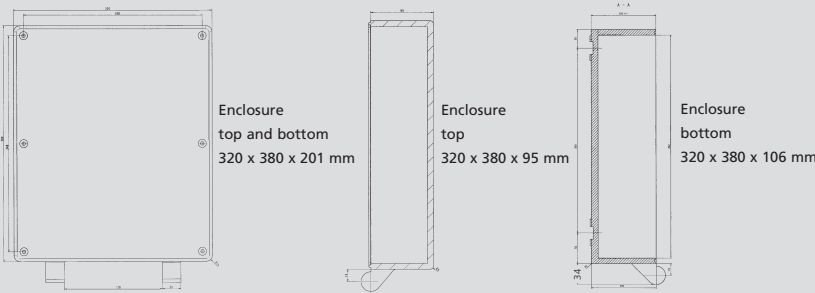

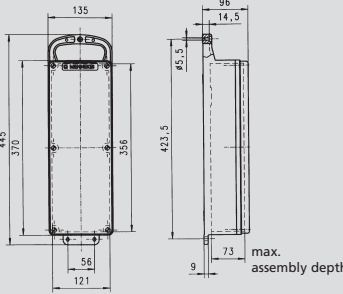

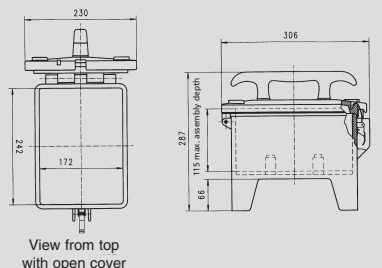

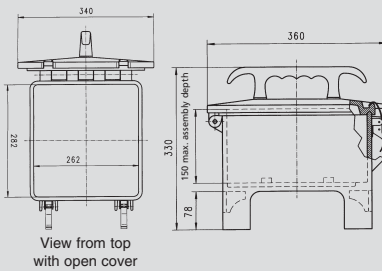

MENNEKES solid rubber enclosures made of EverGUM, signal yellow

Protection type  IP 44.

For information on material properties and resistance, see chapters 10 and 20.

EverGUM solid rubber enclosures are also available in black or other colours.

Please contact us.

	Dim. in mm	Wall mounted enclosures EverGUM with hinged cover, without holes  IP 44 Type 70060 shown.
	Dim. in mm	Wall mounted enclosures EverGUM with hinged cover, without holes  IP 44 Type 70059 shown.
		Wall mounted enclosures EverGUM with hinged cover, without holes  IP 44 Type 70850 shown.
	Drawing 5 MB 44 Dim. in mm	Wall mounted enclosures EverGUM as receptacle strips, portable, with hinged cover without holes  IP 44 Type 70062 and 70117 shown.
 View from top with open cover	Drawing 5 MB 48a Dim. in mm	Enclosures EverGUM compact solid rubber distributors, portable, stackable, with hinged cover, with stainless steel quick release, without holes  IP 44 Type 70385 shown.
 View from top with open cover	Drawing 5 MB 43 Dim. in mm	Enclosures EverGUM maxi solid rubber distributors, portable, stackable, with hinged cover, with stainless steel quick release, without holes  IP 44 Type 70061 shown.

		Components	Colour	Part no.	Std. Pack. Qty.	Weight g/each
		with N+PE terminal	signal yellow	70060	1	6022
		with hinged window and DIN-rail for 12 modules				
		with N+PE terminal	signal yellow	70059	1	8200
		with hinged window and DIN-rail for 16 modules				
		with N+PE terminal	signal yellow	70850	1	
		with N+PE terminal	signal yellow	70062	2	
		with hinged window and DIN-rail for 6 modules	signal yellow	70117	2	
		with 1 DIN-rail for 12 modules, with N+PE terminal	signal yellow	70385	1	4950
		with N+PE terminal	signal yellow	70061	1	
		1 DIN-rail for 12 modules, without N+PE terminal	signal yellow	70061ZA	1	
		2 DIN-rails for 12 modules, with N+PE terminal	signal yellow	70061ZB	1	



■ TM plugs and receptacles for military purpose

**CEE panel mounted
receptacles TM,
16A to 125A,
IP 67**

Page 328 and 329



**Hinged windows TM,
IP 44 and IP 67**

Page 334 und 335



**CEE plugs,
inlets and
connectors TM,
16A to 125A,
IP 67**

Page 330 and 331

**SCHUKO®
plugs and
receptacles TM,
16A,
IP 68**

Page 332 and 333



**SCHUKO®
triple connectors TM,
DELTA-BOXES,
IP 68**

Page 334 and 335



■ Plugs and receptacles for fire brigades and civil protection

**CEE plugs and
receptacles and
combinations,
IP 67 / IP 54**

Page 338 and 339



**SCHUKO® plugs
and receptacles
and DELTA-BOXES,
IP 68 / IP 67**

Page 336, 337 and 339



■ CEE plugs and receptacles made from light weight alloy

**CEE receptacles,
16A to 32A**

**CEE plugs,
32A and 63A**

**CEE connectors,
32A**

Page 340 and 341



**CEE receptacles,
switched, interlocked,
fused,
16A to 63A**

Enclosures

Page 342 and 343

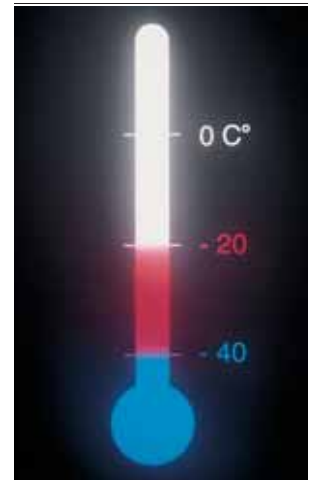


- Plugs and receptacles for military purpose, for fire brigades and civil protection and plugs and receptacles made from light weight alloy



Plugs and receptacles to the German Defence Equipment Standard.

MENNEKES TM plugs and receptacles, colour bronze green RAL 60301-F9, have been designed to stand up to especially tough conditions.



To cope with any conditions.

Nickel-plated contacts, highly heat resistant contact carriers. Enclosure made from impact resistant AMAPLAST so as to be extremely cold resistant.



Plugs and receptacles for fire brigades and civil protection.



Plugs and connectors

PowerTOP:

highly heat resistant contact carrier, frame terminals, cable gland and external cable grip, plugs additional with nickel plated contacts. Protection type IP 67 watertight



Panel mounted receptacle

TwinCONTACT:

with screwless spring terminal, suitable for through wiring. Colour-coded terminals for unmistakable connections. Protection type IP 67 watertight



Marked with the hammer symbol, pressure watertight. Made of AMAPLAST.

Wherever there is a danger of flooding, very high standards have to be met by electrical connections.

MENNEKES pressure watertight SCHUKO® plugs and receptacles conforming to DIN 49442/443 also meet VDE 0620 standard for severe conditions.



Suitable for harsh mechanical conditions and flooding. Ideal for use in civil protection applications.

Plugs and receptacles made from light weight alloy.

Plugs and receptacles made from light weight alloy are particularly suitable for environments involving high thermal stress and flying sparks. The contacts are nickel plated and the contact carriers are made of highly heat resistant material. The devices are painted grey-green with a hammer finish. Special paints, e.g. with decontamination properties, are available on request.

By simply turning the lower part of the enclosure by 180°, the cable entry to the wall mounted receptacle can be provided at the top or at the bottom as needed.

Switched receptacle, with mechanical DUO interlock and two SCHUKO® receptacles. The upper parts of CEE and SCHUKO® receptacles are fused.



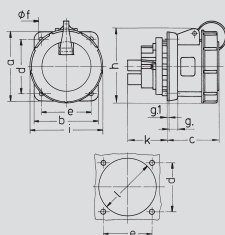
MENNEKES panel mounted receptacles TM and protective covers

to DIN EN 60309-2, colour: bronze-green RAL 6031-F9. Enclosure and insert made of **AMAPLAST**.

Appliances with part numbers in *italics* are approved to VG 96919.

Other voltages and frequencies available on request.

Protection type **IP 67**.



Drawing	Amp.	16		32		63
1 MB 217/1	Poles	3	5	3	5	5
Dim. in mm	a	75	75	85	85	107
	b	75	75	75	75	100
	c	60	60	67	73	82
	d	60	60	60	60	85
	e	60	60	60	60	77
	f	5,5	5,5	5,5	5,5	6,5
	g	8	8	8	8	12
	g.1	2	2	2	2	2
	h	81	95	95	106	115
	i	70	88	94	102	114
	k	26	27	34	34	55
	l	52	57	58	65	88
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25

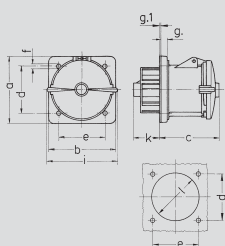
Panel mounted receptacles TM

straight,
with highly heat resistant contact
carrier and nickel plated contacts

IP 67

(form AS)

Product group 1047, type 20458 shown.



Drawing	Amp.	125	
1 MB 258	Poles	4	5
Dim. in mm	a	130	130
	b	130	130
	c	124	124
	d	104	104
	e	104	104
	f	6,5	6,5
	g	18	18
	g.1	2	2
	i	135	135
	k	43	43
	l	95	95
Terminal for cond. cross section (mm²) min.-max.		25 —70	25 —70

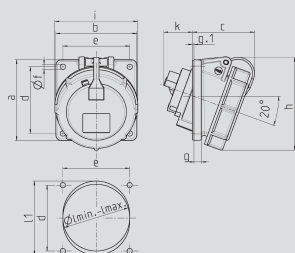
Panel mounted receptacles TM

straight,
with highly heat resistant contact
carrier and nickel plated contacts

IP 67

(form AS)

Product group 1046.



Drawing	Amp.	16		32		63
1 MB 474	Poles	3	5	3	5	5
Dim. in mm	a	73,5	85	85	100	114
	b	64	85	85	92	114
	c	61	65	65	71	98
	d	60	70	70	85	90
	e	52	70	70	77	90
	f	5,5	5,5	5,5	5,5	5,5
	g	7	8	8	8	12
	g.1	2	2	2	2	2
	h	88	98	101	110	135
	i	70	87	94	101	112
	k	43	31	54	48	70
	l min.	57	67	76	76	92
	l max.	60	76	76	76	105
	l1	—	—	—	—	105
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	2,5 —10	2,5 —10	6 —25

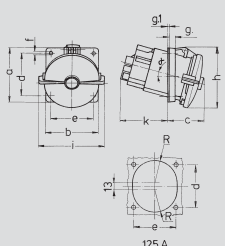
Panel mounted receptacles TM

20° inclination,
with highly heat resistant contact
carrier and nickel plated contacts

IP 67

(form BS)

Product group 1039, type 22188 shown.



Drawing	Amp.	125	
1 MB 339	Poles	4	5
Dim. in mm	a	114	114
	b	110	110
	c	85	85
	d	90	90
	e	90	90
	f	6,2	6,2
	g	13	13
	g.1	2	2
	h	135	135
	i	135	135
	k	103	103
	R	47	47
Terminal for cond. cross section (mm²) min.-max.		15° 25 70	15° 25 70

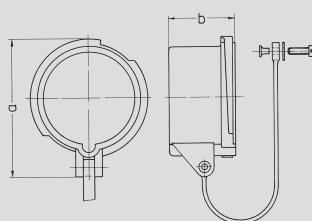
Panel mounted receptacles TM

15° inclination,
with highly heat resistant contact
carrier and nickel plated contacts

IP 67

(form BS)

Product group 1048.



Drawing	Amp.	16			32		
2 MB 146	Poles	3	4	5	3	4	5
Dim. in mm	a	70	79	86	91	91	99
	b	41	41	42	51	51	52

Drawing	Amp.	63			125		
2 MB 146	Poles	3	4	5	3	4	5
Dim. in mm	a	108	108	108	119	119	119
	b	73	73	73	79	79	79

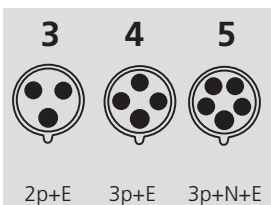
Protective covers TM

for watertight plugs and inlets

for **IP 67**

(form G)

Product group 8226, type 40927 shown.



3-pole 6h 5-pole 9h

5-pole 6h

5-pole 11h

3-pole 2h 5-pole 2h

Std. Pack.

Weight

Qty. g/each



16	3	Part no.	22928				10	168
		VG-norm 96919 -	AS013					
16	5	Part no.	23151	20458	23163	23175	10	221
		VG-norm 96919 -	AS002	AS001	AS003	AS004		
32	3	Part no.	23293				10	260
		VG-norm 96919 -	AS042					
32	5	Part no.	23152	20459	23164	23176	10	331
		VG-norm 96919 -	AS006	AS005	AS007	AS008		
63	5	Part no.	23153	20460	23165	23177	5	745
		VG-norm 96919 -	AS010	AS009	AS011	AS012		
125	5	Part no.		23432			5	1371
		VG-norm 96919 -		AS014				



16	3	Part no.	23311				10	147
		VG-norm 96919 -	BS017					
16	5	Part no.	24641	24640	24642	24643	10	191
		VG-norm 96919 -	BS002	BS001	BS003	BS004		
32	3	Part no.	24730				10	220
		VG-norm 96919 -	BS042					
32	5	Part no.	24741	22188	24742	24743	10	310
		VG-norm 96919 -	BS006	BS005	BS007	BS008		
63	5	Part no.	24841	24840	24842	24843	5	
		VG-norm 96919 -	BS010	BS009	BS011	BS012		
125	5	Part no.		22189			5	1232
		VG-norm 96919 -		BS013				



	for amps	for poles	Part numbers
16		3	40926
16		5	40927
32		3	40928
32		5	40929
63		5	40930
125		5	40931

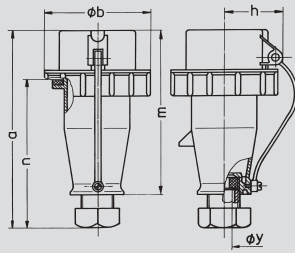
MENNEKES CEE plugs, inlets and connectors TM

to DIN EN 60309-2, colour: bronze-green RAL 6031-F9. Enclosure and insert made of **AMAPLAST**.

Appliances with part numbers in *italics* are approved to VG 96919.

Other voltages and frequencies available on request.

Protection type **IP 67**.



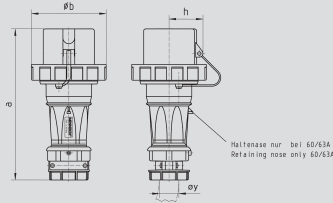
Drawing	Amp.	16		32	
		3	5	3	5
Dim. in mm	a	135	157	173	180
	b	70	87	92	102
	h	40	48	50	54
	m	114	126	152	152
	n	95	116	126	132
	y	15	16	21,5	21,5
Terminal for cond. cross section (mm²) min.-max.		1	1	2,5	2,5
		—2,5	—2,5	—6	—6

Plugs and phase inverters TM
with protective cap,
with highly heat resistant contact
carrier and nickel plated contacts

IP 67

(form CP)

Product group 2072, type 20453 shown.



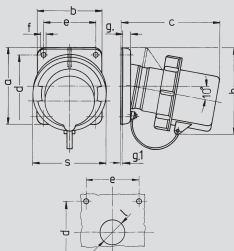
Drawing	Amp.	63			125		
		3	4	5	3	4	5
Dim. in mm	a	245	245	245	300	300	300
	b	114	114	114	131	131	131
	h	59	59	59	65	65	65
	y min.	14,5	14,5	14,5	25	25	25
	y max.	36	36	36	50	50	50
	Terminal for cond. cross section (mm²) min.-max.	6	6	6	25	25	25
		—16	—16	—16	—50	—50	—50

Plugs PowerTOP TM
with protective cap,
with highly heat resistant contact
carrier, frame terminals and
nickel plated contacts,
cable gland and external
cable grip

IP 67

(form CP)

Product group 2073, type 20454 shown.



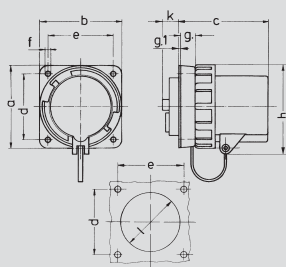
Drawing	Amp.	16		32		63	
		3	5	3	5	3	5
Dim. in mm	a	85	85	85	85	106	106
	b	85	85	85	85	101	101
	c	128	128	129	135	152	152
	d	70	70	70	70	85	85
	e	70	70	70	70	77	77
	f	6,3	6,3	6,3	6,3	6,5	6,5
	g	11	11	11	11	12	12
	h	105	107	108	111	130	130
	s	70	86	92	101,5	114	114
	Terminal for cond. cross section (mm²) min.-max.	1	1	2,5	2,5	4	4
		—2,5	—2,5	—6	—6	—10	—10

Panel mounted inlets TM
with protective cap,
with highly heat resistant contact
carrier and nickel plated contacts

IP 67

(form BP)

Product group 2067, type 20463 shown.



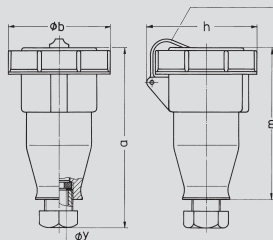
Drawing	Amp.	125	
		3	5
Dim. in mm	a	130	130
	b	130	130
	c	120	120
	d	104	104
	e	104	104
	f	6,5	6,5
	g	18	18
	g1	2	2
	h	131	131
	k	28	28
	l	95	95
	Terminal for cond. cross section (mm²) min.-max.	25	25
		—70	—70

Panel mounted inlets TM
with protective cap,
with highly heat resistant contact
carrier and nickel plated contacts

IP 67

(form BP)

Product group 2077.



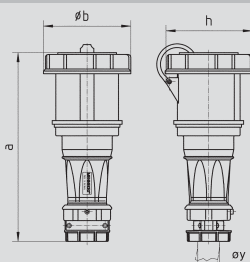
Drawing	Amp.	16		32	
		3	5	3	5
Dim. in mm	a	144	162	188	188
	b	70	87	92	102
	h	78	95	97	104
	m	121	132	155	160
	y	15	16	21,5	21,5
	Terminal for cond. cross section (mm²) min.-max.	1	1	2,5	2,5
		—2,5	—2,5	—6	—6

Connectors TM
with highly heat resistant contact
carrier and nickel plated contacts

IP 67

(form DS)

Product group 3049, type 20456 shown.



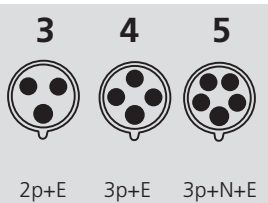
Drawing	Amp.	63			125		
		3	4	5	3	4	5
Dim. in mm	a	260	260	260	320	320	320
	b	113	113	113	135	135	135
	h	115	115	115	124	124	124
	y min.	25	25	25	—	—	—
	y max.	50	50	50	50	50	50
	Terminal for cond. cross section (mm²) min.-max.	6	6	6	25	25	25
		—16	—16	—16	—50	—50	—50

Connectors PowerTOP TM
with highly heat resistant contact
carrier, frame terminals and nickel
plated contacts, cable gland
and external cable grip

IP 67

(form DS)

Product group 3013, type 20457 shown.



3-pole 6h 5-pole 9h

5-pole 6h

5-pole 11h

3-pole 2h 5-pole 2h

Std. Pack.

Weight

Qty. g/each



16	3	Part no.	22848				10	171
		VG-norm 96919 -	CP017					
16	5	Part no.	23155	20452	23167	23179	10	269
		VG-norm 96919 -	CP002	CP001	CP003	CP004		
32	3	Part no.	23279				10	300
		VG-norm 96919 -	CP042					
32	5	Part no.	23156	20453	23168	23180	10	382
		VG-norm 96919 -	CP006	CP005	CP007	CP008		
16	5	Part no. / VG-norm 96919 -	24674 / CP057 (Phase inverter)				10	271
32	5	Part no. / VG-norm 96919 -	24774 / CP058 (Phase inverter)				10	284



63	5	Part no.	23157	20454	23169	23181	5	886
		VG-norm 96919 -	CP010	CP009	CP011	CP012		
125	5	Part no.	23158	22915	23170	23182	5	1496
		VG-norm 96919 -	CP014	CP013	CP015	CP016		



16	3	Part no.	24210				10	212
		VG-norm 96919 -	BP013					
16	5	Part no.		20461			10	290
		VG-norm 96919 -		BP001				
32	3	Part no.	23249				10	314
		VG-norm 96919 -	BP042					
32	5	Part no.		20462			10	400
		VG-norm 96919 -		BP005				
63	5	Part no.		20463			5	710
		VG-norm 96919 -		BP009				
125	5	Part no.		23433			5	1274
		VG-norm 96919 -		BP014				



16	3	Part no.	22831				10	165
		VG-norm 96919 -	DS017					
16	5	Part no.	23159	20455	23171	23183	10	290
		VG-norm 96919 -	DS002	DS001	DS003	DS004		
32	3	Part no.	23215				10	355
		VG-norm 96919 -	DS042					
32	5	Part no.	23160	20456	23172	23184	10	376
		VG-norm 96919 -	DS006	DS005	DS007	DS008		



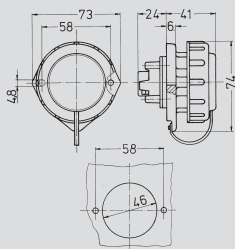


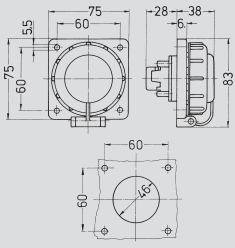


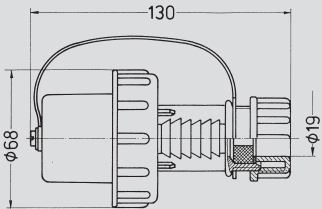



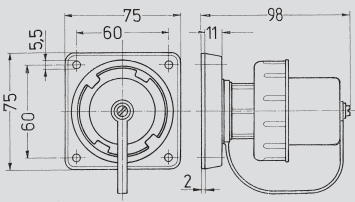


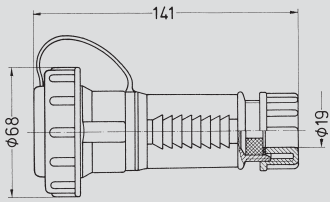



63	5	Part no.	23161	20457	23173	23185	5	890
		VG-norm 96919 -	DS010	DS009	DS011	DS012		
125	5	Part no.	23162	22916	23174	23186	5	1490
		VG-norm 96919 -	DS014	DS013	DS015	DS016		

MENNEKES SCHUKO® plugs and receptacles TM made of AMAPLAST, pressure watertight

to DIN 49442/43 and DIN VDE 0620, colour: bronze green RAL 6031-F9.

Appliances with part numbers in *italics* are approved to VG 96926.

Pressure watertight  IP 68.

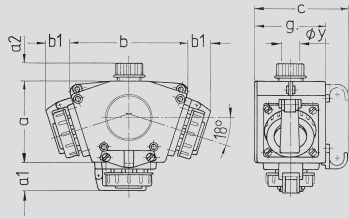
	<p>Drawing 1 MB 301 Dim. in mm</p>	<p>SCHUKO® panel mounted receptacles TM with bayonet lock lid attached by a strap, with oval flange and two fixing holes</p> <p> IP 68  (form BS) Product group 1931, type 10803 shown.</p>
	<p>Drawing 1 MB 300 Dim. in mm</p>	<p>SCHUKO® panel mounted receptacles TM with bayonet lock lid attached by a strap, with square flange and four fixing holes or alternatively two closed cut-outs</p> <p> IP 68  (form AS) Product group 1933, type 10812 shown.</p>
	<p>Drawing 2 MB 163 Dim. in mm</p>	<p>SCHUKO® plugs TM with bayonet ring and protective cap attached by a strap, for cables up to 3 x 2.5 mm² up to H07RN-F</p> <p><small>Design-Innovationen Auszeichnung für hohe Design-Qualität Haus Industrieform Essen</small> </p> <p> IP 68  (form CP) Product group 2930, type 10829 shown.</p>
	<p>Drawing 2 MB 164 Dim. in mm</p>	<p>SCHUKO® panel mounted inlets TM with bayonet ring and protective cap attached by a strap</p> <p> IP 68  (form AP) Product group 2932, type 10853 shown.</p>
	<p>Drawing 3 MB 41 Dim. in mm</p>	<p>SCHUKO® connectors TM with bayonet lid attached by a strap for cables up to 3 x 2.5 mm² up to H07RN-F</p> <p><small>Design-Innovationen Auszeichnung für hohe Design-Qualität Haus Industrieform Essen</small> </p> <p> IP 68  (form DS) Product group 3929, type 10834 shown.</p>

SCHUKO® triple connectors TM
DELTA BOX
see following page

		Colour	Amp.	Volts			Std. Pack.	Weight
							Qty.	g/each
		bronze green	16	230	Part no.	10803	10	96
					VG-norm 96926 - BS001			
		bronze green	16	230	Part no.	10812	10	107
					VG-norm 96926 - AS001			
		bronze green	16	230	Part no.	10829 *)	5	124
					VG-norm 96926 - CP001			
*) The modified plug with double PE-conductor acc. to german and french-belgian standard will be available 1 st . quarter 2007.								
		bronze green	16	230	Part no.	10853 *)	10	130
					VG-norm 96926 - AP001			
*) The modified panel mounted inlet with double PE-conductor acc. to german and french-belgian standard will be available 1 st . quarter 2007.								
		bronze green	16	230	Part no.	10834	5	136
					VG-norm 96926 - DS001			

MENNEKES SCHUKO® plugs and receptacles TM made of AMAPLAST, pressure watertight

to DIN 49442/43 and DIN VDE 0620, colour: bronze green RAL 6031-F9.
Pressure watertight \blacktriangle IP 68.

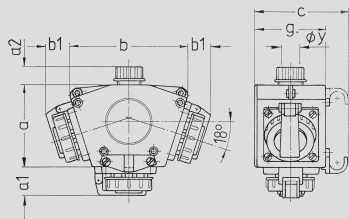


Drawing	Amp.	16
3 MB 45	Poles	3
Dim. in mm	a	114
	a1	38
	a2	30
	b	160
	b1	26
	c	133
	g	97
	y	17
Terminal for cond. cross section (mm²) min.-max.		1,5 —4

SCHUKO® triple connectors TM DELTA BOX
with hanging clip,
3 or 4 panel mounted receptacles
with bayonet lid attached by a strap

\blacktriangle IP 68

Product group 3932, type 10861 shown.



Drawing	Amp.	16
3 MB 45	Poles	3
Dim. in mm	a	114
	a1	38
	a2	30
	b	160
	b1	26
	c	133
	g	97
	y	17
Terminal for cond. cross section (mm²) min.-max.		1,5 —4

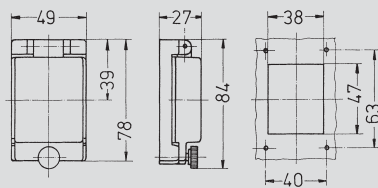
SCHUKO® triple connectors TM DELTA BOX
with hanging clip,
3 panel mounted receptacles with
bayonet lid attached by a strap,
supply cable 1.5m H07RN-F3G2.5
and SCHUKO® plug

\blacktriangle IP 68

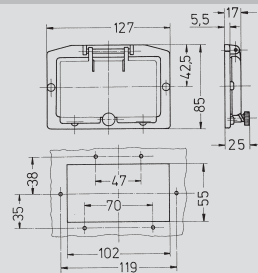
Product group 8003, type 84708 shown.

MENNEKES hinged windows TM made of AMAPLAST

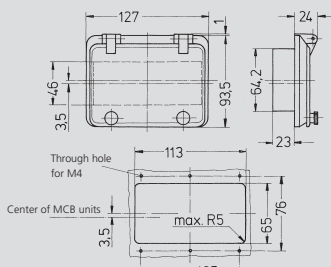
Protection type \triangle IP 44 resp. \blacktriangle IP 67, colour: bronze green RAL 6031-F9



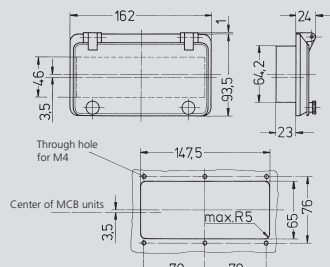
Part no. 21375 / Draw. 6MB3/2 module



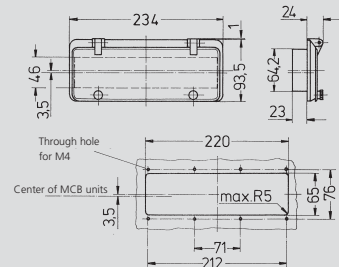
Part no. 21051 / Draw. 6MB4/5 module



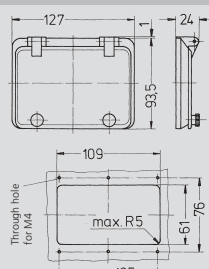
Part no. 24696 / Draw. 6MB17/6 module



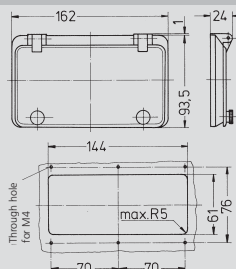
Part no. 24697 / Draw. 6MB12/8 module



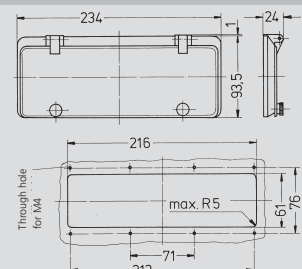
Part no. 24698 / Draw. 6MB13/12 module





Part no. 24796 / Draw. 6MB16/6 module



Part no. 24797 / Draw. 6MB15/8 module



Part no. 24798 / Draw. 6MB14/12 module

	Colour	Accessories	Amp.	Volts	Part numbers	Std. Pack. Qty.	Weight g/each
	Type with 3 receptacles						
	bronze green	Hanging clip	16	230	10861	5	795
	Type with 4 receptacles						
	bronze green	Hanging clip	16	230	83840	5	902
	bronze green	Hanging clip	16	230	84708	1	1430














		Frame colour	Window	Part numbers	Std. Pack. Qty.	Weight g/each
	Hinged windows TM without protective cover , with knurled screws					
	for 2 modules	bronze green	smoked glass	21375	as required	42
	for 5 modules ¹⁾	bronze green	smoked glass	21051		75
	¹⁾ without hinged window spring					
⚠ IP 44						
	Hinged windows TM with protective cover , with knurled screws					
	for 6 modules	bronze green	smoked glass	24696	as required	128
	for 8 modules	bronze green	smoked glass	24697		169
	for 12 modules	bronze green	smoked glass	24698		225
💧 IP 67						
	Hinged windows TM without protective cover , with knurled screws					
	for 6 modules	bronze green	smoked glass	24796	as required	107
	for 8 modules	bronze green	smoked glass	24797		127
	for 12 modules	bronze green	smoked glass	24798		169
💧 IP 67						

MENNEKES SCHUKO® receptacles, pressure watertight, for fire brigades and civil protection

to DIN 49442/43 and DIN VDE 0620.

Enclosure and insert made of **AMAPLAST**.

Protection type **IP 68** pressure watertight.

to DIN 49442/43 and DIN VDE 0620. Enclosure and insert made of AMAPLAST . Protection type  IP 68 pressure watertight.		Colour	Amp.	Volts	Part numbers	Qty.	Std. Pack.	Weight
								g/each
SCHUKO® receptacles with hinged bayonet lock lid, one threaded M 20 cable entry at top and one blind M 20 cable entry (can be cut out) at bottom  IP 68 pressure watertight  hammer tested Product group 1934, type 10863 shown.		blue/ grey	16	230	10863	10	180	
SCHUKO® panel mounted receptacles with bayonet lock lid attached by a strap, with oval flange and two fixing holes  IP 68 pressure watertight  hammer tested Product group 1931, type 10805 shown.		blue/ grey	16	230	10805	10	96	
SCHUKO® panel mounted receptacles with bayonet lock lid attached by a strap, with square flange and four fixing holes or alternatively two closed cut-outs  IP 68 pressure watertight  hammer tested Product group 1933, type 10810 shown.		blue/ grey	16	230	10810	10	107	
SCHUKO® panel mounted receptacles with hinged bayonet lock lid, with square flange and four fixing holes or alternatively two closed cut-outs  IP 68 pressure watertight  hammer tested Product group 1932, type 10808 shown.		blue/ grey	16	230	10808	10	109	
Protective cover for the above panel mounted receptacles, available on request.		Part no. 19027706						

MENNEKES SCHUKO® plugs and connectors, pressure watertight, for fire brigades and civil protection

to DIN 49442/43 and DIN VDE 0620.

Enclosure and insert made of **AMAPLAST**.

Protection type IP66 or  IP 68 pressure watertight.

SCHUKO® plugs

with bayonet ring, with protective cap attached by a strap, for cables of up to 3 x 2.5 mm² up to H07RN-F



 IP 68 pressure watertight

 hammer tested

Product group 2930, type 10828 shown.



Colour

Amp.

Volts

Part numbers

Std. Pack.

Weight

blue/
grey

16

230

10828*)

5

134

*) The modified plug with double PE-conductor acc. to german and french-belgian standard will be available 1st quarter 2007.

SCHUKO® angled plugs

with cable gland, for cables of up to 3 x 2.5 mm² up to H07RN-F

IP 66

Product group 3928, type 10818 shown.



blue

16

230

10818

10

125

SCHUKO® connectors

with bayonet lock lid attached by a strap, for cables of up to 3 x 2.5 mm² up to H07RN-F



 IP 68 pressure watertight

 hammer tested

Product group 3929, type 10833 shown.



blue/
grey

16

230

10833

5

136

SCHUKO® inlets

with bayonet ring, with protective cap attached by a strap, one threaded M 20 cable entry at top and one blind M 20 cable entry (can be cut out) at bottom

 IP 68 pressure watertight

 hammer tested

Product group 2934, type 10864 shown.



blue/
grey

16

230

10864*)

10

200

*) The modified inlet with double PE-conductor acc. to german and french-belgian standard will be available 1st quarter 2007.

SCHUKO® panel mounted inlets

with bayonet ring, with protective cap attached by a strap

 IP 68 pressure watertight

 hammer tested

Product group 2931, type 10852 shown.



blue/
grey

16

230

10852*)

10

130







*) The modified panel mounted inlet with double PE-conductor acc. to german and french-belgian standard will be available 1st quarter 2007.

For drawings and dimensions, please see chapter 11.

MENNEKES CEE plugs and receptacles, watertight, for fire brigades and civil protection

to DIN VDE 0623, A. 60309-2, colour: electric grey and/or colour code. Enclosure and insert made of **AMAPLAST**. Protection type **IP 67** watertight.



Panel mounted receptacles with TwinCONTACT screwless spring terminals, suitable for through wiring, straight				Part numbers	Qty.	g/each
		16	3	1708	10	150
		16	5	1131	10	206
		32	5	1820	10	297
<div>Product group 1136, type 1131 shown.</div>						
Panel mounted receptacles with TwinCONTACT screwless spring terminals, suitable for through wiring, 20° inclination						
		16	3	1701	10	143
		16	5	3485	10	210
		32	5	1808	10	315
<div>Product group 1135, type 3485 shown.</div>						
Plugs PowerTOP with highly heat resistant contact carrier and nickel plated contacts, cable gland and external cable grip						
		16	3	3796	10	205
		16	5	3821	10	295
		32	5	3853	10	410
<div>Product group 2016, type 3821 shown.</div>						
Connectors PowerTOP with highly heat resistant contact carrier, cable gland and external cable grip						
		16	3	3860	10	314
		16	5	3881	10	330
		32	5	3907	10	430
<div>Product group 3016, type 3881 shown.</div>						
Protective covers for watertight plugs				Part numbers		
		voor Amp.	voor Poles			
		16	3	40784		
		16	5	40785		
		32	5	40786		
<div>voor IP 67 Product group 8276, type 40785 shown.</div>						
For drawings and dimensions, please see chapter 1 for panel mounted receptacles chapter 2 for plugs chapter 3 for connectors		Your insurance in the case of blackouts:				
		Emergency power supply 16A up to 125A from MENNEKES.				
		Please ask for our brochure.				

MENNEKES multiple distribution boards for fire brigades and civil protection

Enclosure made of **AMAPLAST** or solid rubber, receptacles enclosure and insert made of **AMAPLAST**.

Protection type IP 54 splash watertight, IP 67 watertight or IP 68 pressure watertight.

Std. Pack.

Weight

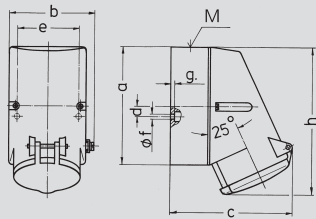
		Fitted with	Colour	Part numbers	Qty.	g/each
Multiple distribution board 230V: SCHUKO® triple connectors DELTA BOX with hanging clip, hinged bayonet lid IP 68 pressure watertight Product group 3932, type 10860 shown.		3 SCHUKO® receptacles 16A, 230V	blue	10860	5	795
Multiple distribution board 230V: SCHUKO® triple connectors DELTA BOX with hanging clip, bayonet lock lid attached by a strap IP 68 pressure watertight Product group 3932, type 10859 shown.		3 SCHUKO® receptacles 16A, 230V	blue	10859	5	789
Multiple distribution board 230V: SCHUKO® triple connectors DELTA BOX with hanging clip, bayonet lock lid attached by a strap, feeder cable 1.5m H07RN-F3G2.5 with SCHUKO® plug, incl. protective cover attached by a strap IP 68 pressure watertight Product group 8003, type 92386 shown.		3 SCHUKO® receptacles 16A, 230V	blue	92386	5	1430
Multiple distribution board 230V/400V: Triple connectors DELTA BOX with hanging clip, hinged bayonet lid, feeder cable 2m H07RN-F5G2.5 with CEE plug 16A, 5p, 400V IP 67 watertight Product group 8003, type 92908 shown.		1 CEE receptacle 16A, 5p, 400V 2 SCHUKO® receptacles 16A, 230V	red blue	92908	1	
Multiple distribution board 400V: Triple connectors DELTA BOX with hanging clip, hinged bayonet lid, feeder cable 2m H07RN-F5G2.5 with CEE plug 16A, 5p, 400V IP 67 watertight Product group 8003, type 92909 shown.		3 CEE receptacles 16A, 5p, 400V	red	92909	1	
Multiple distribution board 230V/400V: EverGUM solid rubber enclosure, compact, portable, stackable, signal yellow, hinged protective cover with stainless steel quick lock, lockable, feeder cable 3m H07RN-F5G2.5 with CEE plug 16A, 5p, 400V IP 54 splash watertight Product group 8010, type 7401729 shown.		1 CEE receptacle IP 67 16A, 5p, 400V 1 RCD 40A, 4p, I _{ΔN} = 0,03A 3 SCHUKO® receptacles IP 68 16A, 230V	red blue	7401729	1	

MENNEKES CEE plugs and receptacles made from light weight alloy

to DIN VDE 0623, colour: grey-green paint with hammer finish.

Insert made of **AMAPLAST**, enclosure made from light weight alloy.

Other voltages and frequencies available on request.



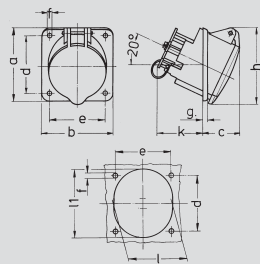
Drawing	Amp.	32	
1 MB 225	Poles	4	5
Dim. in mm	a	126	126
	b	93	93
	c	133	133
	d	11	11
	e	68	68
	f	5,3	5,3
	g	4	4
	h	158	158
	M	25	25
Max. cable diam. (mm)		18	18
Terminal for cond. cross section (mm²) min-max.		2,5 —10	2,5 —10

Receptacles

internal fixing, one cable entry (open) at top, enclosure base can be turned 180°

⚠ IP 44

Product group 1041, type 754 shown.

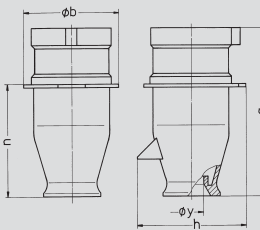


Drawing	Amp.	16		32	
1 MB 222	Poles	5		4	5
Dim. in mm	a	92		92	92
	b	90		90	90
	c	43		48	48
	d	70		70	70
	e	70		70	70
	f	5,5		5,5	5,5
	g	6		6	6
	h	92		95	95
	k	38		65	65
	l	70		74	74
	l1	80		86	86
Terminal for cond. cross section (mm²) min-max.		1,5 —4		2,5 —10	2,5 —10

Panel mounted receptacles

⚠ IP 44

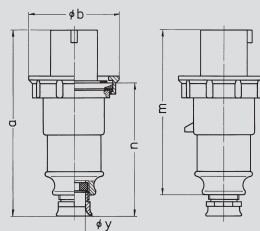
Product group 1044, type 1222 shown.



Drawing	Amp.	32	
2 MB 26	Poles	4	5
Dim. in mm	a	141	141
	b	71	77
	h	79	90
	n	94	94
	y	21,5	21,5
Terminal for cond. cross section (mm²) min-max.		2,5 —6	2,5 —6

Plugs

Product group 2040, type 756 shown.



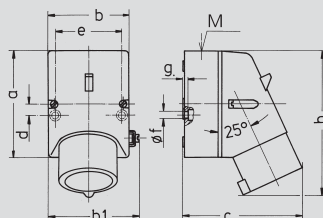
Drawing	Amp.	63	
2 MB 59	Poles	4	5
Dim. in mm	a	233	233
	b	114	114
	m	206	206
	n	166	166
	y	30	30
Terminal for cond. cross section (mm²) min-max.		6 —16	6 —16

Plugs

rear part of enclosure removable

💧 IP X7

Product group 2049, type 2202 shown.

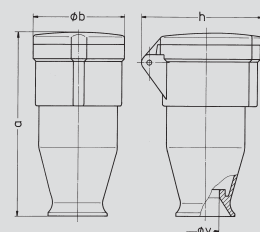


Drawing	Amp.	32	
2 MB 145	Poles	4	5
Dim. in mm	a	127	
	b	84	
	b1	95	
	c	131	
	d	11	
	e	68	
	f	5,3	
	g	4	
	h	164	
	M	25	
Max. cable diam. (mm)		18	
Terminal for cond. cross section (mm²) min-max.		2,5 —6	

Wall-mounted inlets

⚠ IP 44







Product group 2045, type 760 shown.



Drawing	Amp.	32	
3 MB 6	Poles	4	5
Dim. in mm	a	150	150
	b	66	73
	h	89	95
	y	21,5	21,5
Terminal for cond. cross section (mm²) min-max.		2,5 —6	2,5 —6

Connectors

Product group 3040, type 758 shown.

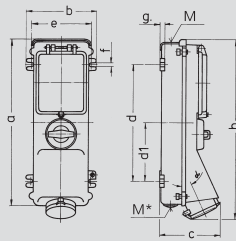
<div> <div>4</div> <div>5</div> </div>				<div> <div>400 V</div> <div>50 a. 60 Hz</div> </div> <div> <div>500 V</div> <div>50 a. 60 Hz</div> </div>					
<div> <div>3p+E</div> <div>3p+N+E</div> </div>		Amp.	Poles	4-pol. 6h	5-pole 6h	4-pol. 7h	5-pole 7h	Std. Pack.	Weight
Part numbers								Qty.	g/each
	32 4			1101		1179		10	750
	32 5			754				10	793
	16 5			1382				10	300
	32 4			1219		1220		10	361
	32 5			1222				10	400
	32 4			1102		1106		10	370
	32 5			756				10	407
	63 4			2200		2201		5	1119
	63 5			2202				5	1162
	32 5			760		2608		10	710
	32 4			1176		3695		10	475
	32 5			758		2609		10	490

MENNEKES CEE receptacles made from light weight alloy, switched, interlocked, fused

to DIN VDE 0623, EN 60309-2, colour: grey-green paint with hammer finish.

Insert made of **AMAPLAST**, enclosure made from light weight alloy.

Other voltages and frequencies available on request.



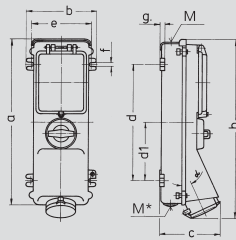
Drawing	Amp.	16		32		63	
1 MB 170	Poles	4	5	4	5	4	5
Dim. in mm	a	406	406	406	406	464	464
	b	173	173	173	173	194	194
	c	145	145	150	150	205	205
	d	287	287	287	287	340	340
	d1	141	141	141	141	167	167
	e	147	147	147	147	170	170
	f	11	11	11	11	11	11
	g	10	10	10	10	12	12
	h	428	430	440	445	525	525
	α	25°	25°	25°	25°	30°	30°
	M	25	25	25	25	32	32
	M*	25	25	25	25	2x32	2x32
Max. cable diam. (mm)		18	18	18	18	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	2,5 — 6	2,5 — 6	6 — 25	6 — 25

Receptacles

switched,
with mechanical interlock and 3 pole
fuse socket DII for 16A and DIII for 32
and 63A

▲ IP 44

Product group 1083, type 5316 shown.



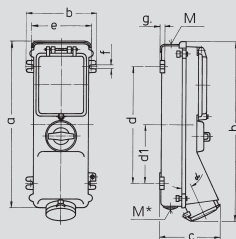
Drawing	Amp.	16		32		63	
1 MB 170	Poles	4	5	4	5	4	5
Dim. in mm	a	406	406	406	406	464	464
	b	173	173	173	173	194	194
	c	145	145	150	150	205	205
	d	287	287	287	287	340	340
	d1	141	141	141	141	167	167
	e	147	147	147	147	170	170
	f	11	11	11	11	11	11
	g	10	10	10	10	12	12
	h	428	430	440	445	525	525
	α	25°	25°	25°	25°	30°	30°
	M	25	25	25	25	32	32
	M*	25	25	25	25	2x32	2x32
Max. cable diam. (mm)		18	18	18	18	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	2,5 — 6	2,5 — 6	6 — 25	6 — 25

Receptacles

switched,
with mechanical interlock and fuse
socket DII as well as 3 pole DIII,
**two SCHUKO® receptacles 16A,
230V installed in the cover**

▲ IP 44

Product group 1083, type 5326 shown.



Drawing	Amp.	16		32		63	
1 MB 170	Poles	4	5	4	5	4	5
Dim. in mm	a	406	406	406	406	464	464
	b	173	173	173	173	194	194
	c	145	145	150	150	205	205
	d	287	287	287	287	340	340
	d 1	141	141	141	141	167	167
	e	147	147	147	147	170	170
	f	11	11	11	11	11	11
	g	10	10	10	10	12	12
	h	428	430	440	445	525	525
	α	25°	25°	25°	25°	30°	30°
	M	25	25	25	25	32	32
	M*	25	25	25	25	2x32	2x32
Max. cable diam. (mm)		18	18	18	18	25	25
Terminal for cond. cross section (mm²) min.-max.		1,5 — 4	1,5 — 4	2,5 — 6	2,5 — 6	— 25	— 25

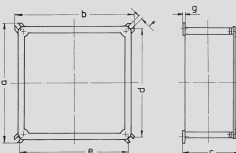
Receptacles

switched,
with mechanical interlock and fuse
socket DII as well as 3 pole DIII,
**one CEE receptacle 16A, 3p, 230V
installed in the cover**

▲ IP 44

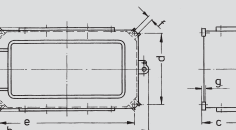
Product group 1083, type 5326 shown.

MENNEKES enclosures made from light weight alloy



Part Numbers	10157	10174	10159
Dim. in mm	a	80	160
	a1	80	132
	b	80	115
	c	58	74
	c1	72	100
	d	72	92
	d1	72	92
	e	72	136
	e1	72	136
	f	4,5	7
	f1	6,5	7
	g	5	8
	g.1	5	8
Drawing			
5 MB 259			




Enclosures





Part Numbers	10162	10164	10166
Dim. in mm	a	125	118
	b	134	203
	c	96	98
	d	88	104
	e	122	168
	f	6	6
	g	6	7
	g.1	6	8
Drawing			
5 MB 257			

Enclosures

with hinged cover

<div>4</div> <div>5</div>				<div>400 V</div> <div>50 a. 60 Hz</div>		<div>500 V</div> <div>50 a. 60 Hz</div>			
<div>3p+E</div> <div>3p+N+E</div>		Amp.	Poles	4-pol. 6h	5-pole 6h	4-pol. 7h	5-pole 7h	Std. Pack.	Weight
Part numbers								Qty.	g/each
	16	4		5853		5849		1	3830
	16	5		5850				1	3960
	32	4		5308		5309		1	4090
	32	5		5311				1	4150
	63	4		5313		5314		1	5895
	63	5		5316				1	6150
	63	4		5324				1	6450
	63	5		5326				1	6582
	63	5		5332				1	6550

	Internal-box dimensions	Box-colour	Part numbers	Std. Pack.	Weight
				Qty.	g/each
	75 x 75 x 50 mm	grey/green paint with hammer-finish effect	10157	as required	250
	105 x 104 x 65 mm	grey/green paint with hammer-finish effect	10174		500
	140 x 140 x 90 mm	grey/green paint with hammer-finish effect	10159		720
	105 x 105 x 85 mm	grey/green paint with hammer-finish effect	10162	as required	550
	168 x 104 x 82 mm	grey/green paint with hammer-finish effect	10164		800
	222 x 132 x 92 mm	grey/green paint with hammer-finish effect	10166		1470

■ References



Containerterminal
Le Havre,
France



SANSIBAR
Sylt, Germany



Winery Schloss Wackerbarth,
Radebeul, Germany



Timesavers Goes,
The Netherlands

Audi
Training center,
Leipzig, Germany



BMW
motorcycle plant,
Berlin, Germany



■ References



Football stadium "Allianz Arena",
Munich, Germany

Football stadium "Veltins Arena",
Gelsenkirchen, Germany





Football stadium
Borussia-Park
Mönchengladbach,
Germany



Formula 1 racing course,
Bahrain



Formula 1 racing course,
Shanghai

■ References



SRK Hannes
Glogner, Husum,
Germany



Norddeutsche Affinerie AG,
Hamburg,
Germany



Water purification plant Berlin/Schönerlinde,
Germany



Deutsche Bahn,
Germany

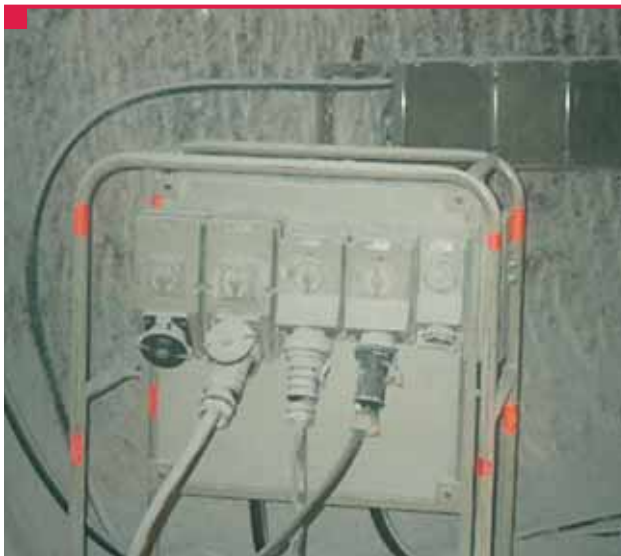


Hobby
Mobile Home plant,
Rendsburg, Germany

■ References



Railway washing plant,
Husum, Germany



Kali + Salz,
Grasleben, Germany



Barbara Erzbergbau, Porta-Westfalica,
Germany

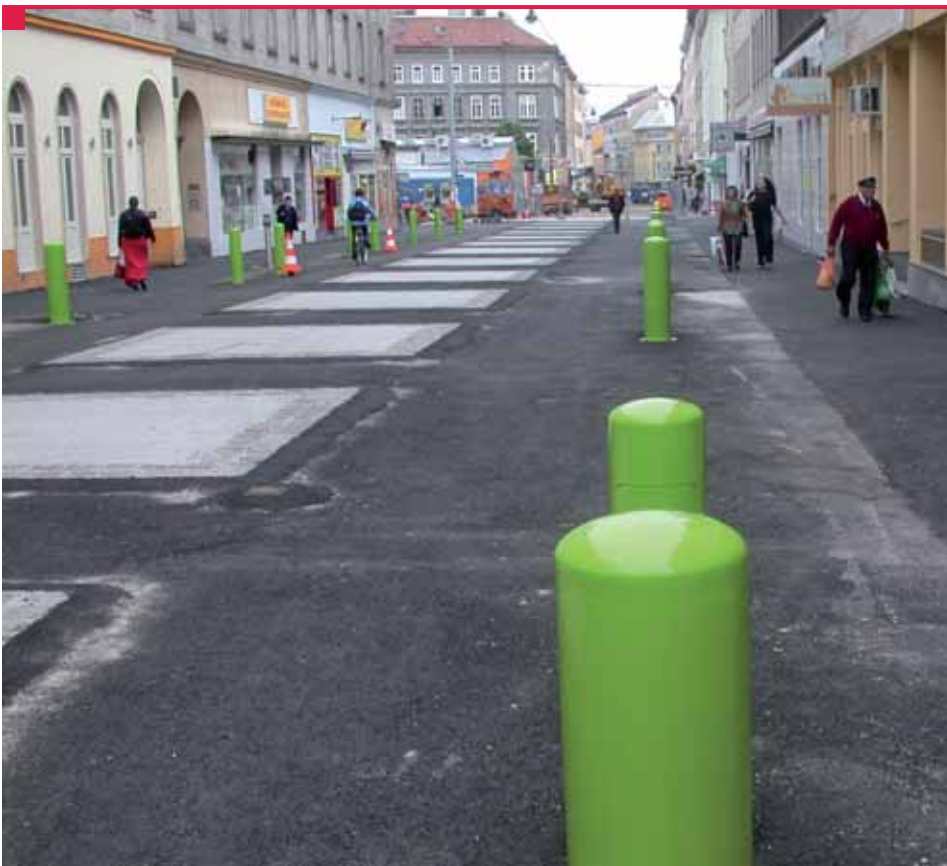
Rex Ceramica,
Maranello, Italy



IKEA Cologne,
Germany



Vienna
Brunnenmarkt,
Austria



■ References



Ski resort Lech, Arlberg,
Austria



Ski resort
Winterberg,
Germany





MWB Motorplant Bremerhaven AG,
Germany



Karstadt
Dortmund,
Germany

■ Using our catalogue

This catalogue is intended exclusively for use by the trade. In this respect we draw attention to the "Joint Declaration on the Use and Installation of Electrical Equipment" published in May 1998 by the Federal Ministry of Labour, the Federal Agency for Occupational Health and Safety, the Electrical Engineering and Precision Fitters Employers' Liability Insurance Association, the German Electrical Engineering Commission at DIN and VDE (DKE), the German Electricity Association (VDEW), the Central Association of German Electricians (ZVEH), the "Safety in the Home" campaign (DSH) and the Central Association of Electrical and Electronics Industries "Zentralverband Elektrotechnik- und Elektronikindustrie (ZVEI)".

While correct to the best of our knowledge, the information we provide with respect to laws and regulations is in no way binding. Such information is provided purely by way of assistance and makes no claim to completeness. You cannot and should not relieve your electrician from his obligation to independently acquire information to enable him to conform to "the state of safety engineering in your country".

Our information is in accordance with the up to date situation on January 15, 2004.

The nature and composition of our appliances are exclusively as quoted in the product description to which the part numbers refer directly.



MENNEKES CEE plugs and receptacles conform to the following standards de normes

IEC 60309-1

IEC 60309-2

EN 60309-1

EN 60309-2

DIN EN 60309-1/VDE 0623 part 1

DIN EN 60309-2/VDE 0623 part 20

Applications

CEE plugs and receptacles can and, under certain circumstances, must be used in industry, in commerce, in agriculture, in parks, in damp and wet environments, outdoors, on building sites, in caravans, on boats and yachts, on camp sites, for dockside power supply installations (marinas), on works premises where there is a fire hazard, at markets and fairground booths and for trailers and mobile homes.

Using CEE plugs and receptacles will usually enable the planners and builders of electrical installations to comply with the "regulations for the construction of low voltage systems as per DIN VDE 0100".

AMAPLAST

This plastic material used by MENNEKES (PA, PC) has the following outstanding characteristics: good electrical insulation, virtually unbreakable, wear resistant, abrasion resistant, dimensionally stable, self-extinguishing, heat resistant, highly resistant to cold temperatures, resistant to ageing, sea-water, oil and gasoline.

AMELAN

This plastic material (PBT) combines outstanding mechanical, thermal and electrical properties with excellent dimensional stability and resistance to chemicals.

Enclosures and inserts

The enclosures and inserts of the currently available CEE plugs and receptacles are moulded from AMAPLAST, a high quality thermoplastic material which is virtually indestructible. The long service life of the inserts means that there is no need to keep a stock of spares. Accordingly, spare inserts have not been included in this catalogue.

In areas where the presence of chemicals or other aggressive substances requires the use of another plastic material, MENNEKES propose a further top quality product line with enclosures moulded from high-grade **AMELAN**.

CEE plugs and receptacles with enclosures made of aluminium alloy are available for use in environments exposed to flying sparks or high thermal or mechanical stress.

Contact material, small parts

Female and male contacts are made of brass; screws, springs, etc. are made of rust-proof material or surface-coated steel.

Characteristics of CEE plugs and receptacles

MENNEKES CEE plugs and receptacles are distinguished by the following features, which facilitate installation and keep maintenance costs to a minimum:

- Easy to install
- Wiring space easily accessible
- Power screwdrivers can be used for installation
- Mostly fitted with Pozidriv screws (size 2)
- High contact pressure
- Low effort required for insertion and withdrawal
- Low transition resistance
- Easy-to-grip plugs

■ CEE plugs and receptacles

Application

CEE plugs and receptacles with operating voltages up to 690 VDC or AC, frequencies up to 500Hz and rated currents up to 250A, including plugs and receptacles for low voltage systems have become the standard all over the world. Basically suitable for indoor and outdoor applications in industry, they are also used on building sites, farms, commercial premises, for caravans, mobile homes, boats, yachts and in households. CEE plugs and receptacles are polarised and non-reversible.

Ambient temperature

CEE plugs and receptacles are suitable for ambient temperatures between -25°C to +40°C.

Chemical resistance of combination units and wall mounted receptacles, switched and interlocked; switched, fused

For the production of combination units and wall mounted receptacles, MENNEKES use a high quality polycarbonate material which has excellent optical and electrical insulating properties. It also has a very good resistance to mechanical and thermal stresses. However, in contact with very aggressive chemical materials, oils, leaches or solvents this polycarbonate material could be adversely affected. Therefore, under very aggressive conditions, we recommend the use of AMELAN, a thermoplastic material with a high resistance to chemicals and aggressive substances. In chapters 6 and 9, you will find a selection of combination units and switched interlocked receptacles made from this material.

Material properties of solid rubber products

Solid rubber blends are preferably used wherever products are exposed to high mechanical and/or chemical loads. Solid rubber excels by its outstanding dimensional stability; it is largely resistant to acid and lye and has a high resistance to breakdown and leakage current.

Products made from solid rubber blends, e.g. MENNEKES EverGUM, are resistant to weather and ageing. Under UV radiation, colour pigments may fade with time. This is inevitable even to the latest state of the art yet it does not compromise the function in any way.

Cable glands

Since January 1, 2000, all PG cable gland sizes to DIN 40430 used so far are replaced by metric sizes to EN 60423 within the framework of European harmonisation. This switchover mainly affects bushings and sealing plugs, which are supplied as accessories with our enclosures. Cable glands with a metric thread comply with DIN EN 50262. Accordingly, MENNEKES is switching all glands over to metric sizes. However some devices with PG cable glands may still be sold by dealers. Users have no obligation to retrofit the new units; therefore devices with PG cable glands may be installed and operated as before. The following table offers information to facilitate conversion.

Please note the information in the dimensional drawings of the various items.

Metric	Typical sealing area	Typical capacity of terminal
M 12	2.5 – 6.5	3.0 – 6.5
M 16	2.5 – 8.0	3.5 – 8.0
M 20	5.0 – 12.0	6.0 – 12.0
M 25	9.0 – 18.0	12.0 – 18.0
M 32	14.0 – 25.0	17.0 – 25.0
M 40	18.0 – 32.0	20.0 – 32.0
M 50	24.0 – 38.0	26.0 – 38.0
M 63	30.0 – 44.0	30.0 – 44.0

Definitions to DIN EN 60309

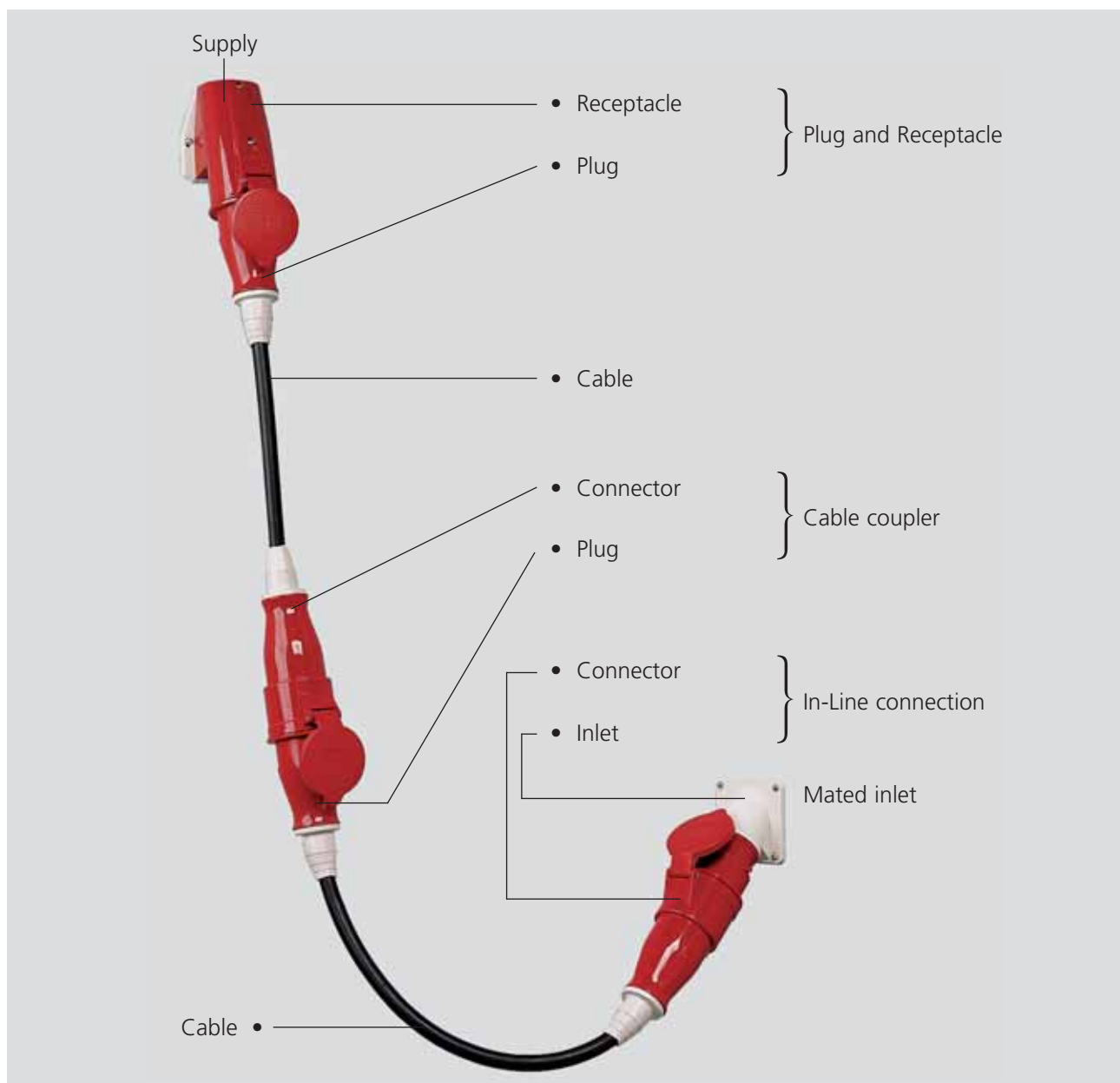
Throughout this catalogue, CEE plugs and receptacles are named as provided for by DIN EN 60309-1 (VDE 0623 part 1):2000-05, paragraph 2.

Rated current is the current intended for the plugs and receptacles by the manufacturer.

Insulation voltage is the voltage intended for the plugs and receptacles by the manufacturer to which voltage testing, creep distance and clearance refer.

Rated operating voltage is the nominal voltage of the power source for which these plugs and receptacles are intended.

The illustration shows how to use CEE plugs and receptacles (DIN EN 60309-1:2000-05).



■ CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

Standards and regulations

IEC

The **I**nternational **E**lectrotechnical **C**ommission is the world organisation for international standardisation of electrical equipment.

IECEE

IEC system for conformity testing for standards for safety of electrical equipment, formerly CEE. Now IECEE.

CEE

Now IECEE.

CENELEC

Comité **E**uropéen de **N**ormalisation
Electrotechnique (European Electrotechnical Standardisation Committee).
CENELEC is made up of the national electrotechnical standards committees of Belgium, Denmark, Germany, Finland, France, Greece, Ireland, Italy, Luxembourg, the Netherlands, Norway, Austria, Portugal, Sweden; Switzerland, Spain, the Czech Republic and the United Kingdom. CENELEC members are obliged to adopt European standards (EN) without change.

CEE plugs and receptacles

The following European standards have been published by CENELEC:

EN 60309-1:1999

EN 60309-2:1999

As all EU members are obliged to adopt European standards without change, the EN standards have been published in Germany as DIN EN standards and VDE regulations:

EN 60309-1 = DIN EN 60309-1
(VDE 0623 part 1):2000-05

EN 60309-2 = DIN EN 60309-2
(VDE 0623 part 20):2000-05

Both EN standards comply with the IEC publications IEC 60309-1:1999 and IEC 60309-2:1999 which were adopted by CENELEC without change.

Development of CEE plugs and receptacles

The system for CEE plugs and receptacles was devised by CEE, which gave the system its name.

CEE publication no. 17 (2nd edition) of April 1966 was the basis for IEC publications IEC 309-1:1988 and IEC 309-2:1992.

CEE publication no. 17 was published in Germany as VDE regulation VDE 0623/03.72, VDE 0623a/03.77 as well as

DIN 49462.....	part 1/02.72
	part 2/02.72
	part 3/02.72
DIN 49463.....	part 1/05.77
	part 2/05.77
DIN 49465.....	part 1/03.72
	part 2/03.72
	part 3/03.72
	part 4/03.72.

These standards are not applicable any longer. They were replaced by DIN EN 60309.

Current MENNEKES CEE plugs and receptacles included in this catalogue comply with the new standards

EN 60309-1:1999

EN 60309-2:1999

Low voltage directive 73/23 EEC

Plugs and receptacles are subject to the EC low voltage directive 73/23 EEC and must therefore be provided with the CE mark to ensure free traffic of goods within the EU.

A manufacturer's declaration is available on request.

VDE test mark, certificates

Current plugs and receptacles have been tested by the VDE Test and Certification Institute in Offenbach, Germany. Furthermore, various other certificates from international inspection authorities have been obtained. A copy of test certificates is available on request.

Hereafter, only the EN standards will be specified.

CEE plugs and receptacles for rated operating voltages above 50V**Position of the earth contact**

Plugs and receptacles with rated voltages above 50V must have an earth contact. To prevent incorrect insertion, a nose on the plug fits into a keyway in the receptacle, thus ensuring that the earth contact pin or tube is correctly positioned in accordance with the required electrical standard.

The earth contact positions for the various frequencies and voltages are assigned a clockface position, in accordance with table 104 taken from EN 60309-2:1999 (see table 104 on the next page).

The diameter of the earth contact pin is larger than that of the phase contact pins, which prevents incorrect insertion.

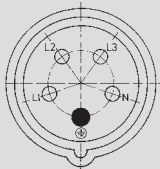
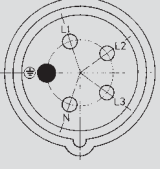
It must be impossible for the user to change the position of the earth contact or of any neutral contacts relative to the keyway of a receptacle or to the nose of a plug.

It also must be impossible to install a plug insert in the casing of a receptacle or connector.

CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

Position of the earth contact sleeve with respect to the polarizing keyway for various voltages and frequencies, identified by clockface positions in accordance with table 104 taken from EN 60309-2:1999.

Type	Frequency Hz	Rated operating voltage V	Position of ground contact ¹⁾		Examples:
			16/20 A 32/30 A	63/60 A 125/100 A	
1P+N+⊕*	50 and 60	100 to 130	4	4	Front view of receptacle
	60	277	5	5	
2P+⊕	50 and 60	100 to 130	4	4	 <p>400V = 6^h</p>
		200 to 250	6	6	
		380 to 415	9	9	
		480 to 500	7	7	
		with isolating transformer	12	12	
	100 to 300	above 50	—	—	
2P+N+⊕*	above 300 to 500	above 50	2	—	 <p>230V = 9^h</p>
	DC	above 50 to 250	3	3	
		above 250	8	8	
3P+⊕	50 and 60	125/250 single phase	12	12	<p>¹⁾ The position of the earth contact is given as a clockface number.</p> <p>²⁾ Mainly for marine installations.</p> <p>³⁾ Only for refrigerated containers (ISO standard)</p> <p>Positions marked with a dash (-) are not standardised.</p>
	50 and 60	100 to 130	4	4	
		200 to 250	9	9	
		380 to 415	6	6	
	60	440 to 460 ²⁾	11	11	
	50 and 60	480 to 500	7	7	
		600 to 690	5	5	
	50	380	3	—	
	60	440 ³⁾	3	—	
	100 to 300	above 50	10	—	
	above 300 to 500	above 50	2	—	
3P+N+⊕	50 and 60	57/100 to 75/130	4	4	
		120/208 to 144/250	9	9	
		200/346 to 240/415	6	6	
		277/480 to 288/500	7	7	
		347/600 to 400/690	5	5	
	60	250/400 to 265/460 ²⁾	11	11	
	50	220/380	3	—	
	60	250/440 ³⁾	3	—	
	100 to 300	above 50	—	—	
All types	above 300 to 500	above 50	2	—	
	All rated voltages and all frequencies not covered by other configurations.		1	1	

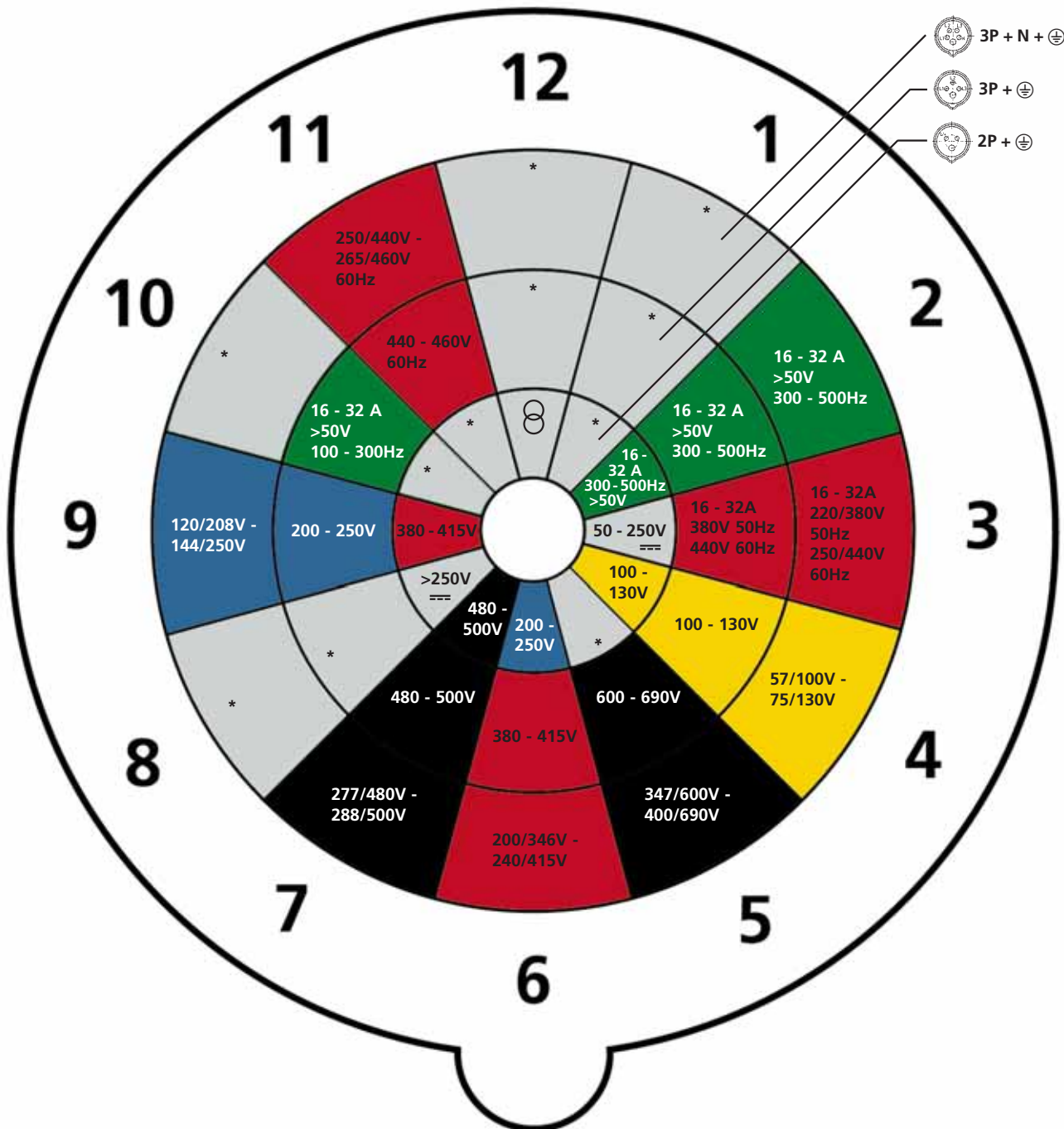
The 230/400V version (6 o'clock position) is specially marked in this catalogue by part numbers in bold.

* Devices of series II are mainly used in the US and in Canada.

Clock positions

acc. to EN 60309-2:1998, Series I (Europe)

Position of ground contact sleeve with respect to major keyway for various voltages and frequencies. The colour codes correspond to the nominal voltage.





* Clock positions not normed and free for use for special applications.

CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

Marking and position of contacts

On rewirable plugs and receptacles the contacts must be marked with symbols as follows:

- Where there are three phase conductors the phase contacts are to be marked L1, L2, L3 or 1, 2, 3; the neutral contact (if present) is to be marked N and the earth contact is to be marked .
- Where there is one phase conductor the live pole L/+ is to be marked with a symbol suitable for both (DC) and (AC) and with symbol  for the earth contact, if applicable.

- For a defined transition period the markings R1, S2, T3 may be used instead of L1, L2, L3.

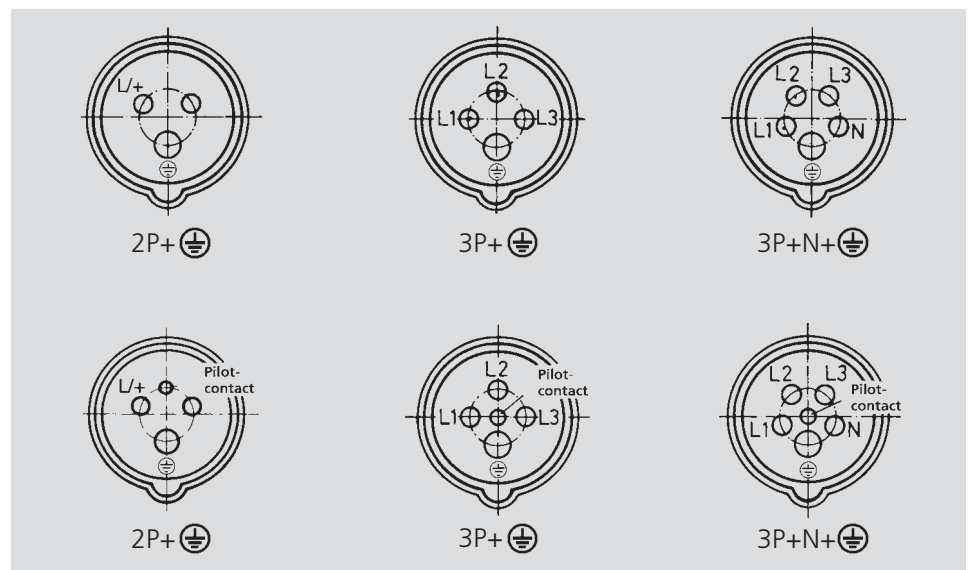
The contact tubes of receptacles and connectors with rated voltages above 50V must be arranged clockwise as viewed from the front.

Receptacles and connectors
U > 50V
(EN 60309-2:1999;
standard sheet 2-I).

16A and 32A

Receptacles and connectors
U > 50V
(EN 60309-2:1999;
standard sheet 2-III a).

63A and 125A



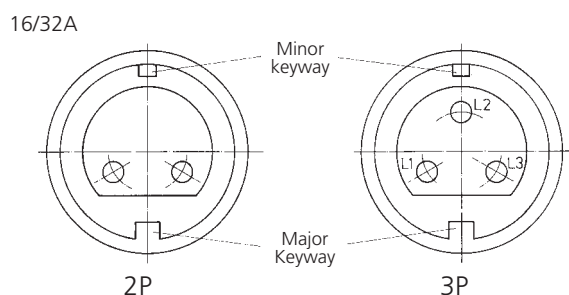
Viewed from the front, the pins of plugs and inlets must be arranged in the opposite way.

CEE plugs and receptacles for rated voltages of up to 50V (low voltage)

Since no earth contact is required in plugs and receptacles of rated voltage up to 50V, two keyways instead of one are provided the collar. They are accordingly termed the major and minor keyways. The major keyway is always in the

6 o'clock position. Depending on voltages and frequencies, the minor keyway is always in accordance with table 103 taken from EN 60309-2:1999, standard sheet 2-VIII (and in the following drawings).

Arrangement of the minor keyway (major keyway 6 o'clock) for various voltages and frequencies using clockface positions in accordance with table 103 taken from EN 60309-2:1999.



Drawing: receptacles and connectors U = 40 to 50V, 50 to 60Hz, minor keyway in 12 o'clock position

Rated operating voltage of plug or receptacle in V	Frequency Hz	Clockface position of keyway (major keyway = 6 o'clock)	Positions 1, 8 and 9 are reserved for future standards.
20 to 25	50 and 60	no minor keyway	For design reasons, positions 5, 6 and 7 are not available for use.
40 to 50	50 and 60	12	
	100–200	4	
20 to 25	300	2	
and	400	3	
40 to 50	> 400–500	11	
	DC	10	

Interlocks and breaking capacity

Plugs and receptacles without an interlock must have an adequate breaking capacity, i.e. it must be possible to insert and withdraw plugs in the manner specified and as often as specified. After testing they must exhibit no damage that would impair further use, and the holes for the plug contacts must not show any significant sign of damage.

Receptacles and connectors that do not meet the test requirements for breaking capacity and service characteristics must be fitted with an interlock.

An interlock is a mechanical or electrical device which ensures that voltage is only applied to the contacts of a plug once they have been inserted into a receptacle or connector as intended, which prevents a plug being withdrawn with the power switched on or which makes contacts voltage-free before disconnecting.

A distinction is made between interlocked plugs and receptacles with

- mechanical interlocks
- electrical interlocks.

■ CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

In the case of receptacles and connectors $\geq 63/60A$, EN 60309-2 requires that a distinction is made between products used with or without interlocks.

As MENNEKES plugs and receptacles have adequate breaking capacity, standard $\geq 63/60A$ versions are fitted with short contact tubes without pilot contact. In the 63A and 125A versions, the short contact tubes meet the finger-touch requirements of BGV A2 (VBG 4).

Receptacles and connectors $\geq 63/60A$ for electrical interlocking (standard part number + index P, e.g. 1454 P) are fitted with long contact tubes and pilot contact for leading and lagging. The interlock makes up for the lack of finger-touch safety.

Plugs and receptacles with mechanical interlocks

Mechanical interlocks for plugs and receptacles with a rated operating voltage greater than 50V must conform to EN 60309-2:1999, standard sheet 2-V. The mechanical switch of a mechanically interlocked receptacle or connector must not be operational until the proper plug has been inserted. Built-in switches for mechanical interlocking of switched AC receptacles must have a breaking capacity conforming at least to DIN EN 60947-3 (VDE 0660 part 107), utilisation category AC 22. The breaking capacity must be suitable for the appliance connected.

Plugs and receptacles with electrical interlocks

In the case of plugs and receptacles $\geq 63/60A$ with a rated operating voltage greater than 50V intended for electrical interlocking (part no. + index "P"), a built-in pilot contact can be used to switch off power to a receptacle or connector. The requisite switch can either be provided in the receptacle or on the corresponding circuit distribution board. In the case of receptacles with an integrated auxiliary switch fitted behind the pilot tube, the switch is triggered by the pilot pin of the plug. The advantage of this solution is that the pilot tube itself is not live (PCS interlock).

Plugs and receptacles for isolating and switching purposes

DIN VDE 0100-460 requires provision to be made for the isolation of any electrical circuit from the live conductors of the power supply system. This also applies to any item of electrical equipment that has to be isolated from the power supply by means of a built-in or assigned switch. The terms "isolate" and "disconnect" are both used in this context. Electrical equipment usually has to be isolated from the main supply whenever mechanical or electrical maintenance is carried out.

According to DIN VDE 0100-537, plugs and receptacles isolating all conductors are suitable for the disconnection of power for maintenance purposes if they are able to switch off the load current in the electrical equipment in question. A plug and receptacle connection is a simple way of satisfying the requirement for "visible isolation".

Shock hazard protection



Shock hazard protection must be achieved in accordance with EN 60309-1:1999 section 9 by designing plugs and receptacles in such a way that, when engaged properly, no live parts of receptacles, couplings, plugs and inlets are exposed so that they may be touched.

It must also be impossible to establish a connection of plugs and connectors while any of the contacts are exposed to touch.

Neutral contact tubes and pilot contacts of receptacles and connectors are deemed to be live parts.

Protection type

Plugs and receptacles used to be classified according to the degree of protection against the entry of moisture:

splashproof	->	drop in a triangle	
watertight	->	2 drops	

Today, complete IP protection according to IEC 60529, EN 60529 is specified for plugs and receptacles, as they are tested in line with this standard.

IP 44 = Protection from solid bodies with a diameter ≥ 1 mm, splashproof

IP 67 = Protection from dust ingress, protection against immersion

Information on IP protection (IP code) can be found in DIN EN 60529:2000-09 (VDE 0470 part 1).

Having been properly installed, receptacles and connectors must provide the degree of protection defined by the rating, whether the plug is inserted or not.

The protection type for plugs and inlets only applies if they are in contact with the matching piece of the connector or with a fixed cover, if applicable.

Plugs and receptacles must be IP 44 or IP 67.
Plugs and receptacles with rated currents of 100/125A must be IP 67.

100/125 A receptacles that are fastened to an enclosure or form a structural unit with the enclosure can be IP 44.

For receptacles IP 67, a bayonet system has been adopted as the standard in order to simplify their use especially under rough working conditions.

IP 44 or IP 67 is indicated on the appliances.


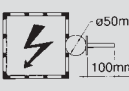

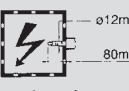

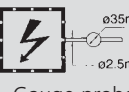

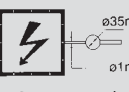


CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

IP protection types for enclosures in accordance with IEC 60529, EN 60529, DIN EN 60529 (VDE 0470 part 1)






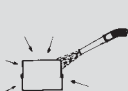
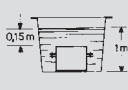
1st number of the code:

Protection against the ingress of foreign bodies and shock hazard protection.

Code	Description			
	Enclosure protected against ingress of:	Test	Protection against contact with:	Test
0				
1	Solid body larger than 50 mm	 Gauge plug diameter 50 mm	Back of hand	 Gauge probe diameter 50 mm
2	Solid body larger than 12 mm	 Gauge plug diameter 12.5 mm	Finger	 Jointed metal finger
3	Solid body larger than 2.5 mm	 Gauge plug diameter 2.5 mm	Tool	 Gauge probe diameter 2.5 mm
4	Solid body larger than 1 mm	 Gauge plug diameter 1 mm	Wire	 Gauge probe diameter 1 mm
5	Dust in harmful quantities	 Talc		
6	Dust overall	 Talc		

2nd number of the code:

Protection against the ingress of moisture.

Code	Description	
	Protection against adverse effects from:	Test
0		
1	Drop of water falling vertically	
2	Drop of water falling vertically on enclosure inclined by up to 15°	
3	Water spray	
4	Splash water	
5	Water jet	
6	Strong water jet	
7	Temporary immersion	
8	Continuous immersion	By arrangement between manufacturer and user. Extra severe test conditions as compared to code 7

Retaining device

A retaining device is a mechanical device which, after a plug or connector has been inserted, holds it in position and prevents inadvertent withdrawal. Plugs and receptacles must be equipped with retaining devices in accordance with table 109 taken from EN 60309-2:1999.

Rated Current (A)	Moisture protection	Receptacles and connectors		Plugs and inlets	
		Retaining device	Standard sheet	Retaining device	Standard sheet
			Rated operating voltage over 50V		Rated operating voltage over 50V
			up 50V		up 50V
16/20 and 32/30	IP 44 (splashproof)	Hinging lid	2-I continuation 1	Nose or groove	2-II continuation 1
	IP 67 (watertight)	Bayonet system	2-I continuation 2	Nose or groove and bayonet ring	2-II continuation 2
63/60	IP 44 (splashproof)	Hinging lid and bayonet system	2-III continuation 1	Nose or groove	2-IV continuation 1
	IP 67 (watertight)	Bayonet system	2-III continuation 2	Bayonet ring	2-IV continuation 2
125/100	IP 67 (watertight) ¹⁾	Bayonet system	2-III continuation 2	Bayonet ring	2-IV continuation 2

¹⁾ 125/100 receptacles that are fastened to an enclosure or form a structural unit with the enclosure can be IP 44.

Markings and symbols in accordance with EN 60309-1:1999, section 7

The following information must be marked on plugs and receptacles:

- Rated current in amperes
- Rated operating voltage(s) or voltage range(s)
- Symbol denoting type of current if the plug or receptacle is not rated for both AC and DC, or if it is rated for AC with frequencies other than 50 or 60Hz, or if voltage is different for AC and DC.
- Rating frequency if greater than 60Hz
- Name or trademark of manufacturer or dealer
- Type reference or part number
- IP protection type
- Symbol indicating the position of the ground contact or keyway, if any
- Optionally, insulating voltage may be indicated

The following symbols are used:

- A Ampere
- V Volts
- Hz Hertz
- ~ Alternating current
- Direct current
- ⊕ Ground
- IP XX Type of protection to EN 60529

On CEE plugs and receptacles these markings are easily visible after installation and connection and when in service as intended.








The marking indicating insulation voltage is on the insert and not visible after installation and connection and when in service as intended.

CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

Colour coding

If the rated operating voltage is indicated by a colour coding in addition to compulsory markings, such colour coding must be in accordance with DIN EN 60309-1:1999, table 2:

Rated operating voltage	Colour code	RAL*
20 to 25 V	violet 	4001
40 to 50 V	white 	7035
100 to 130 V	yellow 	1021
200 to 250 V	blue 	5007
380 to 480 V	red 	3013
500 to 690 V	black 	9005
over 60 to 500 Hz	green 	6010

* RAL determined by MENNEKES, as in EN 60309-1:1999 no specification is provided for.

Over-current protection devices

In accordance with DIN VDE 0100-550:1988-04, over-current protection of circuits with receptacles must account for the permissible load of the cable and the rated current of the receptacle and be based on the lower value. Over-current protection of cables and lines must conform to DIN VDE 0100-430.

Test marks and certificates

VDE test mark

Most plugs and receptacles featured in this catalogue have been tested and certified by VDE-Prüf- und Zertifizierungsinstitut, Offenbach (VDE Test and Certification Institute in Offenbach, Germany). Their marking includes the VDE test symbol to demonstrate that an independent testing and certification board has confirmed that the plug or receptacle concerned meets all the relevant standards.

CCA-CENELEC

The CENELEC Certification Agreement (CCA) obliges its signatories to mutually recognize test reports issued for electrical equipment included in their field of responsibility and in conformity with harmonised standards. After successful testing in Germany, e.g. by VDE Prüf- und Zertifizierungsinstitut, an application for a CCA certificate can be filed, on the basis of which a national test mark of one of the CENELEC member countries can be awarded.

IECEE system

The IECEE system promotes world-wide mutual recognition of test results published by testing and certification boards in the member countries in the interests of simplifying certification internationally. Electrical equipment is tested for conformity with IEC standards, the relevant standard for CEE plugs and receptacles being IEC 60309. The manufacturer is awarded a CB certificate together with a test report.

CE mark

When EC directive 93/68/EEC was published, the EC low voltage directive 73/23/EEC was included in the group of directives that prescribe the CE mark. Since January 1, 1997 the CE mark is compulsory. The CE mark on a low voltage electrical device indicates that the manufacturer has issued a voluntary written declaration to the effect that the product conforms to the low voltage directive. Conformity with all applicable European Community directives is a prerequisite for placing the product on the market within the European Union (EU).

The CE mark is not a substitute for the VDE test mark. The VDE test mark may be used together with the CE mark.

All MENNEKES CEE plugs and receptacles comply with the low voltage directive. The CE mark **CE** is provided on the product and/or on the packaging.

Choice and installation of plugs and receptacles

In accordance with DIN VDE 0100-550:1988-04, only the following plugs and receptacles must be used to connect electrical equipment to the main supply:

- plugs and receptacles conforming to DIN VDE 0620,
- plugs and receptacles conforming to EN 60309,
- plugs and receptacles for special applications.

For three-phase current only plugs and receptacles conforming to EN 60309 must be used. Exemptions are only granted for installations in private households, commercial buildings, hotels, etc.

Five pole CEE plugs and receptacles conforming to EN 60309 are to be used for the connection of unspecified three-phase appliances of up to 32A, 400V; 50Hz, e.g. on building sites, in loading areas, on farms and on other sites serving mobile electrical equipment.

Three-phase extension cables of up to 32A for such sites must be 5 core with 5 pole plugs or receptacles at either end.

■ CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

Operating areas subject to fire hazards

DIN VDE 0100-482:2003-06 applies to selection and construction of electrical installations in operating areas subject to fire hazards. Plugs and receptacles conforming to DIN VDE 0620 and EN 60309-2 may be used. Type of protection:

- Fire hazard due to combustible dust or/and easily inflammable materials (fibres): IP 5X
- Fire hazard due to easily inflammable solid matters other than dust or/and easily inflammable materials: IP 4X

The required protection type IP 4X is complied with using CEE plugs and receptacles IP 44, type IP 5X is complied with using CEE plugs and receptacles IP 67.

Building sites

On building sites, DIN VDE 0100-704:2001-05 expressly recommends the use of plugs and receptacles to DIN EN 60309-2 (VDE 0623 part 20):


All circuits with plugs and receptacles up to 32A must be protected

- using RCDs with a release current of $I_{\Delta N} \leq 30\text{mA}$ or
- be supplied with extra low voltage (SELV)
- be supplied individually using isolating transformers (one winding per receptacle).

Farms and market gardens

DIN VDE 0100-705:1992-10 applies to the installation of electrical equipment.

DIN VDE 0105-15:1986-02 provides information on plugs and receptacles allowed for the operation of such installations.

- 2 pole earthed plugs and receptacles conforming to DIN VDE 0620-1:2002-01, appendix B for severe operating conditions, symbol  in designs as per to DIN 49440, DIN 49441, DIN 49442 and DIN 49443

- CEE plugs and receptacles to EN 60309

The enclosures of these plugs and receptacles must be made of insulating material.

Type of protection at least:

- IP 44, if not exposed to dust,
- IP 54, if exposed to dust

in accordance with EN 60529.

All circuits with plugs and receptacles must be protected using RCDs with a release current of $I_{\Delta N} \leq 30\text{mA}$.

Circuits for receptacles with a rated current $\leq 63\text{A}$ must be protected using a circuit breaker or a combination of RCD/circuit breaker.

Camp sites

DIN VDE 0100-708 applies to the installation of electrical equipment. For power supply to each space a receptacle with earth contact conforming to EN 60309-2 must be installed. The rated current of plugs and receptacles must be at least 16A. For AC voltage supply of 230V, 16A, plugs and receptacles 230V, 16A, 2p + PE according to EN 60309-2, standard sheet 2-I must be used. For each vehicle at least one receptacle must be provided. Each receptacle must have its own overload protection. It must be equipped with a residual current-operated device (RCD) with a rated residual current $I_{\Delta N} \leq 30\text{mA}$ which also switches off the neutral conductor.

Extension cables must be fitted with earthed connections and plugs conforming to EN 60309. In case of a nominal current of 16A, a H07RN-F type electric cable with a minimum cross section of 2.5 mm² must be used.

Caravans

The installation of electrical equipment for caravans must comply with DIN VDE 0100-754. Connections for caravans must be made by means of an earthed inlet conforming to EN 60309. The connection point must be on the outside of the caravan and must be covered by a lid. Plugs and receptacles exposed to weathering must be IP 55, or they must be installed in a place where this type of protection is achieved.

Boats and yachts, dockside power supply (marinas)

DIN VDE 0100-721 applies to the installation of electrical equipment. For power supply to each berth a receptacle with earth contact conforming to EN 60309-2, standard sheet 2-I, i.e. 200 to 250V, 16A, 2p + PE, IP 44 must be provided.

Boats must be fitted with inlets conforming to EN 60309-2, standard sheet 2-II, with receptacle data marked on them. Connection and extension cables must be fitted with an earthed plug as per EN 60309-2, standard sheet 2-II and an earthed connector as per EN 60309-2, standard sheet 2-I with data marked as above.

Market and fairground booths, trailers and mobile homes

DIN VDE 0100-722 applies to the installation of electrical equipment. For power supply to one circuit earthed receptacles conforming to EN 60309-2, standard sheet 2-I, i.e. 200 to 250V, 16A, 2p + PE, IP 44 must be provided.

If there is more than one circuit, a special distribution board as per EN 60439-4 (VDE 0660 part 501) with plugs and receptacles as per EN 60309 must be provided.

Trailers must be fitted with inlets as per EN 60309-2, standard sheet 2-II. Connection and extension cables must be fitted with an earthed plug as per EN 60309-2, standard sheet 2-II and with an earthed coupling as per EN 60309-2, standard sheet 2-I. Due to the required electrical output of trailers and mobile homes, CEE plugs and receptacles as per EN 60309, i.e. 380 to 415 V, 3p + N + PE with a rated current of 32A or 63A, IP 44 may be used.

Damp and wet areas and rooms, outdoor equipment

DIN VDE 0100-737 applies to the installation of electrical equipment. Plugs and receptacles as per DIN VDE 0620 and EN 60309 may be used. The class of protection of plugs and receptacles depends on their application. A minimum protection class of IP 44 is recommended.

■ CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

Applicable law

The European Union (EU), the German Federal Government which is responsible for translating EU directives into national law, the Federal Lands as well as the employers' liability insurance associations place requirements on safety and design of electrical equipment. As part of the information provided by this catalogue it seems appropriate to include excerpts from legal norms containing such safety requirements.

Act on Power and Gas Supply (Energy Management Act) dated Nov. 10, 2001.

Excerpt:

§ 1 Scope

The scope of the act is to achieve secure, value for money and environmentally compatible line-conducted electricity and gas supply in the public interest.

§ 2 Definitions

- (1) Electricity and gas are defined as energies in so far as these are used for line-conducted energy supply.
- (2) Electrical energy equipment is used for the generation, transmission or distribution of energy unless it merely serves for the transmission of signals.

§ 16 Requirements of electrical energy equipment

- (1) Electrical energy equipment must be erected and operated in such a way as to ensure technical safety. In addition to legal provisions, generally accepted rules of engineering practice must be observed.
- (2) Compliance with generally accepted rules of engineering practice is assumed if the technical directions below are complied with:
 1. Equipment for the generation, transmission and distribution of electricity - technical directions of VDE Verband der Elektrotechnik Elektronik Informationstechnik e.V.
 2. Equipment for the generation, transmission and distribution of gas - technical directions of Deutscher Verein des Gas- und Wasserfachs e.V.

Ordinance on the General Terms and Conditions for Electricity Supply to Customers at Fixed Rates (AVBEltV) dated June 21, 1979.

Excerpt:

§ 12

(4) Materials and equipment used must conform to the state of safety engineering applicable in the European Community. The mark of an officially accredited test centre (e.g. VDE mark, GS mark) indicates that this condition has been fulfilled.

First Ordinance on the Equipment Safety Law (Gerätesicherheitsgesetz) dated June 11, 1979, amended as of Sept. 25, 1995

Excerpt:

§ 2

- (1) Electrical equipment may only be placed on the market if
 1. it complies with the state of safety engineering applicable in the European Community.

§ 3

- (1) Placing on the market requires that the electrical equipment is provided with the CE mark by means of which the manufacturer confirms that safety requirements according to § 2 are complied with and that conformity assessment procedures according to appendix IV of directive 73/23 EEC have been carried out.

**EC Low Voltage Directive RL 73/23 EEC
dated Feb. 19, 1973
(amended as of July 22, 1993 – RL 93/68 EC)**

Excerpt:

Article 2:

(1) The member states take all expedient measures to ensure that electrical equipment is only placed on the market if it is manufactured in conformity with the state of safety engineering applicable in the community in such a way as not to put at risk the safety of persons, livestock or property when properly installed, maintained and used as intended.

**Ordinance on health and safety protection
when providing and using working equipment,
on safety in operation of equipment that
needs to be supervised and organisation of
occupational health and safety procedures
(ordinance on occupational safety – BetrSichV)
dated Sept. 27, 2002.**

§ 1 Scope

(1) This ordinance applies to the provision of working equipment by employers and the use of working equipment by employees in their work.

§ 2 Definitions

(1) Working equipment in the sense of this ordinance includes tools, equipment, machines or plants. Plants in the sense of sentence 1 are composed of various interdependent functional units the safe operation of which is considerably determined by their interdependency; e.g. plants that have to be supervised in the sense of § 2 clause 2a of the Equipment Safety Law (Gerätesicherheitsgesetz).

(2) Provision in the sense of this ordinance incorporates all measures that the employer has to take so as to ensure that employees are provided with working equipment in compliance with this ordinance.

The provision in the sense of sentence 1 also comprises installation, e.g. the assembly of working equipment including installation in the manner required for safe operation.

(3) Operation in the sense of this ordinance incorporates all measures concerning working equipment, e.g. testing, putting into operation, shutdown, use, repair and maintenance, testing, safety measures in the case of failure, modification, dismantling, and transportation.

§ 4 Requirements on the provision and use of working equipment

(1) The employer must take all measures required in line with the principles of § 4 of the Labour Protection Law so as to provide employees with working equipment which is suitable for the conditions prevailing at the workplace and for which health and safety protection are ensured when used as intended. If it is impossible to ensure full health and safety protection of employees, the employer shall take appropriate measures to ensure that risks are minimised. Sentences 1 and 2 apply accordingly to installation of working equipment the safety of which is dependant upon assembly.

(3) The employer shall ensure that working equipment is only operated if it is suitable for the intended purpose according to the provisions of this ordinance.

■ CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

Accident Prevention Regulation "Electrical Plant and Equipment" BGV A2 (VBG 4) dated April 01, 1979

Excerpt:

§ 2

(2) Sentence 1 "The rules of electrical engineering in the sense of this accident prevention regulation are the generally accepted rules of electrical engineering practice stipulated in the VDE regulations to which the Employers' Liability Insurance Associations refer in their information bulletin".

§ 3

(1) "The employer must ensure that electrical plant and equipment is installed, modified and maintained in accordance with the rules of electrical engineering practice by a qualified electrician or under the supervision of a qualified electrician. The employer must also ensure that the electrical plant and equipment is operated in accordance with the rules of electrical engineering practice."

The appendix to the instructions for the implementation of these regulation lists, among other things, the following regulations: VDE 0100, VDE 0101, VDE 0105, VDE 0620 and EN 60309 (VDE 0623) etc.

In connection with the Equipment Safety Law, a **"Joint Declaration"** was made on April 25, 1978 by the leading representative bodies in trade and industry. This declaration was replaced by the Product Liability Act of December 15, 1989 and the Product Safety Act of April 22, 1997. Both acts translate EU directives into German law.

Joint Declaration on the Use and Installation of Electrical I Installation Material dated May 1998

Various organisations (BMA, BAuA, BFE, VDE, DKE, VDEW, ZVEH, DSH, ZVEI) have formulated their safety objectives in a joint declaration.

Excerpt:

- Plants for production, transmission and distribution of electricity must comply with the safety engineering standards applicable in the EU. These standards will be met when complying with the VDE regulations.
- Electrical equipment may only be installed, extended, modified and operated by authorised persons. In addition to energy supply companies these are registered electricians.
- The only material and equipment which may be used is that which has been produced according to the standards of safety engineering applicable in the EU.

Persons in positions of responsibility should note:

The laws, ordinances and accident prevention regulations all make reference to the VDE regulations. When action is taken either by public authorities (Labour Inspectorate) or by the Employers' Liability Insurance Association inspectors, they take full account of the VDE regulations.

Disclaimer

While correct to the best of our knowledge as of January 15, 2004, this information is given without commitment.

Please note the information provided on page 1 of this chapter.

References:

IEC publications, EN standards, VDE regulations are available from
VDE-Verlag GmbH
Bismarckstr. 33
D-10625 Berlin

Laws, ordinances and EU directives are available from
Deutsches Informationszentrum für technische Regeln (DITR) im DIN
Burggrafenstr. 6
D-10772 Berlin.

Low-voltage systems - terminology and power supply systems

Terminology

Excerpt from DIN VDE 0100-200:1998-06

Power installations are electrical systems with equipment for the generation, conversion, storage, transmission, distribution and consumption of electrical energy with the aim of doing work, e.g. in the form of mechanical work, the production of heat or light or in electrochemical processes (A 1.1).

The **distribution network** consists of all lines and cables from the electrical power generator to the load (A 1.2).

The **house connection** box is the interface between the distribution network and the load. Over-current protection devices, isolator blades, switches or other connecting and disconnecting devices can be fitted in the house connection box (DIN VDE 0100-732:1995-07, item 2.3).

The **load** is defined as all electrical equipment connected downstream of the house connection box or, in the absence of the latter, downstream of the output terminals of the last distributor, upstream of the outlets (A 1.4).

Main circuits contain equipment for the generation, conversion, distribution, switching and consumption of electrical energy (A 1.5.1).

Auxiliary circuits are circuits for supplementary functions, e.g. control, signalling and measuring circuits (A 1.5.2).

House installations are power systems with a rated voltage of up to 250V for private households or power systems which resemble these in scope and nature (A 1.8).

Electrical equipment. All equipment used for the purpose of generation, conversion, transmission, distribution and application of electrical energy, e.g. machinery, transformers, switching, measuring and protective devices, lines and cables and electrical appliances (2.7.1).

Mobile equipment is equipment that can easily be moved from one place to another while connected to the power supply (2.7.4).

Phase conductors are conductors which connect the power source with the load but do not originate at the centre or star point (A 3.1).

The **neutral conductor N** is connected to the centre or star point and provides assistance in the transmission of electrical energy (2.1.3).

The **protective earth conductor PE** is a conductor providing protection against electric shock which is connected to any of the following parts:

- exposed conductive parts of electrical equipment
- conductive objects which are not a part of the electrical equipment
- main earthing terminal
- earth electrode
- earthing point of power source or artificial star point (2.4.5).

■ CEE plugs and receptacles

Brief particulars on standards, regulations and guidelines

The PEN-conductor is a conductor which combines the functions of the neutral and protective earth conductor (2.4.6).

Live part. Any conductor or conductive part which normally carries voltage. This includes the neutral conductor but not the PEN conductor (2.3.1).

Exposed conductive part. Touchable conductive part of electrical equipment which normally is not live but may become live when equipment is malfunctioning (2.3.2).

Power supply systems

Excerpt from DIN VDE 0100-300:1996-01

Power supply systems are identified by the following abbreviations depending on their type (AC, DC) and the number of live conductors and earth connection:

First letter – earthing of the power source (312.2):

- T direct earthing of one point
- I insulation of all live parts from earth or earthing of one point via a source of impedance.

Second letter – earthing of exposed conductive parts of the electrical installation

- T exposed conductive part with direct earthing, irrespective of whether a point of the electrical installation is earthed
- N exposed conductive part directly connected to the earthed point of the electrical installation (in AC systems the earthed point is generally the star point or, in absence of a star point, a phase conductor).

Other letters that may be used – arrangement of neutral conductor and protective earth conductor

- S protection using a conductor which is separate from the neutral conductor or the earthed phase conductor (in DC systems earthed negative or positive conductor)
- C functions of neutral conductor and protective earth conductor combined in one conductor (PEN conductor).

TN systems (312.2.1)

In TN systems, one point is directly earthed; the exposed conductive parts of the electrical installation are connected with this point via protective earth conductors.

One can differentiate between three types of TN systems according to arrangement of neutral and protective earth conductors:

Networks

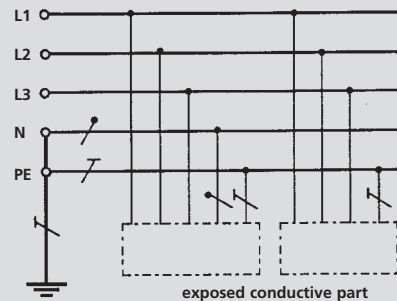


Fig. 6: TN-S network

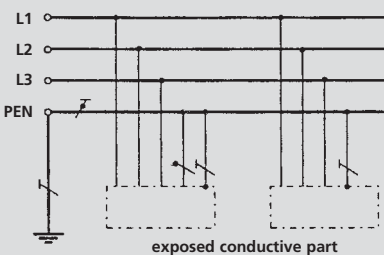


Fig. 7: TN-C network

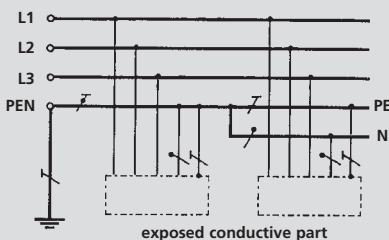


Fig. 8: TN-C-S network

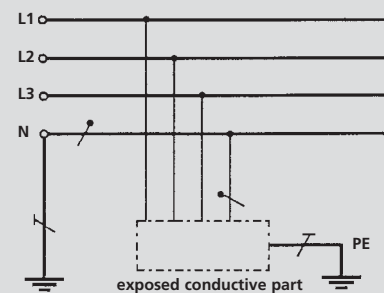


Fig. 9: TT network

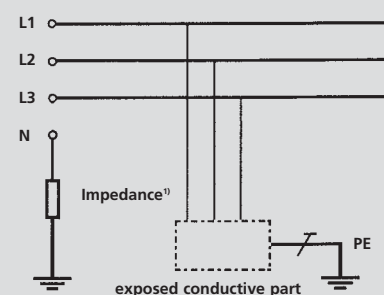


Fig. 10: IT network

■ TN-S system: A separate protective earth conductor throughout the system, figure 6.

■ TN-C system: Functions of neutral and protective earth conductors are combined in one conductor throughout the system, figure 7.

■ TN-C-S system: In part of the system, functions of neutral and protective earth conductors are combined in one conductor, figure 8.

TT system (312.2.2)

In a TT system one point is earthed directly; the exposed conductive parts of the electrical installation are connected to earthing electrodes which are electrically separated from the system earthing electrode, fig. 9.

IT system (312.2.3)

In an IT system all live parts are disconnected from earth, or one point is earthed via a source of impedance; the exposed conductive parts of the electrical installation are either

- earthed separately or
- earthed jointly or
- all connected to the earthing of the system, fig. 10.

N = Neutral conductor

PE = Protective earth conductor

PEN = Protective earth neutral conductor

T = Terre (earthing)

I = Isolation

S = Separated neutral and protective earth conductors

C = Combined neutral and protective earth conductor

Symbols according to IEC 617-11:1993

—/— Neutral conductor (N)

—T— Protective earth conductor (PE)

—T— PEN conductor:
combines the functions of neutral and protection-earth conductor (PEN)

¹⁾ The system may be disconnected from earth. The neutral conductor may be, but must not be, spreaded.

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70030	186	75011	309	75132	305	75270	311	92893	172	94565 SI	170
70031	186	75012	309	75133	305	75271	311	92894	172	94566 GE	168
70032	186	75013	309	75134	305	75272	311	92895	172	94566 RO	168
70033	186	75014	309	75135	305	75273	311	92896	172	94566 SI	168
70034	186	75015	309	75136	305	75274	307	92897	172	94567 GE	169
70035	182	75016	309	75137	305	75275	311	92898	172	94567 RO	169
70036	182	75017	309	75138	305	75276	311	92908	173, 339	94567 SI	169
70039	182	75018	309	75139	305	75277	311	92909	173, 339	94568 GE	170
70042	182	75019	309	75160	309	75278	311	92910	171	94568 RO	170
70049	189	75020	305	75170	307	75279	311	92911	171	94568 SI	170
70059	323	75021	305	75172	307	75280	309	92912	171	94569 GE	170
70060	323	75022	305	75173	307	75283	307	92913	173	94569 RO	170
70061	323	75023	305	75174	311	75284	307	92914	173	94569 SI	170
70061 ZA	323	75024	305	75200	307	75285	307	92915	171	94570 GE	170
70061 ZB	323	75025	305	75201	307	75286	307	92916	171	94570 RO	170
70062	323	75026	305	75202	307	75287	307	92917	171	94570 SI	170
70106	186	75027	305	75203	307	75288	307	94350 GE	166	95470	175
70117	323	75028	305	75204	307	75289	307	94350 RO	166	95471	175
70276	187	75029	305	75205	307	75290	307	94350 SI	166	95472	175
70349	187	75030	311	75206	307	75291	307	94351 GE	166	95499	176
70350	187	75031	311	75207	307	75292	307	94351 RO	166	95937	174
70351	187	75032	311	75208	307	75293	307	94351 SI	166	95996	175, 237
70352	187	75033	311	75210	309	75294	307	94352 GE	166	96227	174
70385	323	75034	311	75211	309	75295	307	94352 RO	166	96438	174

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[illegible]

GENERAL CONDITIONS OF SALE AND DELIVERY

1. Validity of the Conditions

Supplies, services and quotations are exclusively subject to the conditions set forth herein. They apply to any future business relationship, even if they are not expressly agreed at the time of transaction.

The general business conditions of the purchaser shall only be binding if they have been expressly accepted in writing.

2. Quotations and signing of contracts

Our quotations are submitted without commitment. The sales contract will only become valid by our order confirmation or by the execution of the order. Supplements, amendments or additional agreements shall only be binding if they have been expressly accepted in writing.

3. Drawings, illustrations, dimensions, weights, rights of third parties

Drawings, illustrations, dimensions, data on weights and other performance data shall only be binding upon us when this has been expressly declared in writing. We reserve our unlimited proprietary rights and our copyright with respect to quotations, drawings and other documents. They shall only be disclosed to third parties with our prior consent, and they shall be returned at our request if the order is not placed with us. The same shall apply to the Buyer's documents which may be disclosed to third parties with whom we are permitted to place orders related to the supply of goods. In the case of delivery of parts as per drawing or sample, the Buyer shall release us from any claims third parties may assert against us arising from an infringement of protective rights. If a third party orders us not to manufacture or supply because of a protective right held by him, we are entitled to stop work without checking the legal situation and to request reimbursement of the expenses incurred.

4. Prices, price changes

The prices are quoted in EURO and do not include VAT. VAT will be charged additionally at the rate applicable on the date of delivery. Prices quoted in price lists for resale are recommended prices excluding VAT, given without commitment. We reserve the right to invoice the prices applicable on the date of delivery.

In the case of follow-up orders, we are not bound to the prices quoted for previous orders.

5. Price basis

The prices apply to deliveries ex our works, without packaging. Packaging is invoiced at cost price. For reusable packaging, a rental based on the cost price will be charged. Reusable packaging remains our property and must be immediately returned freight prepaid.

6. Terms of payment, no setting off

Our invoices are payable within 10 days following receipt of our invoice or our statement of account less 2% cash discount, within 30 days following the date of the invoice net cash or, at the latest, 30 days following the due date and receipt of the supplies or services. Payments must be made nett, free D-Kirchhundem. Cheques will only be accepted under the usual reservations, and payment by bill requires our prior consent and the bill must comply with the purchasing conditions of the German Federal Bank. Discount charges and tax on the bill are at the Buyer's charge and shall be refunded to us when the bill is negotiated. For all payments, the date of fulfillment is the date on which we can dispose of the sum. Non-compliance with our terms of payment shall constitute default without a reminder. In case of default, we may charge interest from the date upon which the payment falls due at a rate of 8% per annum above the applicable basic rate, in accordance with § 247 BGB (*German Civil Code*), with the reservation of asserting any other rights we may have. If the Buyer is a consumer in the sense of § 13 BGB, the rate of interest is 5% per annum above the applicable basic rate, in accordance with § 247 BGB. The right to claim higher damages is reserved.

In the event that the Buyer shall fail to fulfill the terms of payment in respect of any invoice and a deadline for payment has expired without result, we are entitled to withdraw from the contract, to request return of the goods and to claim damages. The Buyer shall not be entitled to set off payment for goods delivered by virtue of any debt claim, unless the claim is undisputed, final and absolute.

7. Subsequent provision of securities, right to decline to make further deliveries

The Buyer's credit worthiness is a precondition to our obligation to provide supplies and services. If following the signing of a contract we learn that the Buyer's financial circumstances are such that payment of the amount which will become due appears doubtful, that his financial position is getting significantly worse or that a petition in insolvency or judicial execution has been filed, that payments have ceased, payments are in default, that the business is dissolved or transferred, that goods or stock or outstanding debts etc. are pawned or subsequently assigned by way of security, we may decline to make further deliveries except upon receipt of cash or a satisfactory form of security. We may also grant the Buyer a reasonable period of time for making a payment or providing security, and we may withdraw from the contract on expiry of this period should the Buyer fail to comply with our request.

8. Delivery periods, impossibility

Meeting delivery times presupposes that all documents and releases to be provided by the Buyer have been received, that he has observed the agreed terms of payment and that he has fulfilled all his other obligations. If the Buyer fails to meet these obligations in time, the delivery periods will be extended as necessary. This shall not apply if the Buyer is not responsible for the delay.

We shall not be held responsible for delays in deliveries and services due to Acts of God or to events which significantly affect deliveries or make them impossible (strikes, lock-outs, lack of means of transport, orders of the authorities etc., which also apply if they occur at the premises of our subcontractors or their subcontractors), even when the delivery periods and dates are binding upon us. We shall be entitled to extend the delivery periods by the duration of the hold-up plus an adequate lead time or to withdraw from the non-fulfilled contract in whole or in part. If despatch or delivery is postponed at the Buyer's request by more than one month from the notification of readiness for transport, we are entitled to charge a storage fee for each commenced month at the rate of 0.5 % of the price of the delivery concerned, the maximum amount being 5%. Both parties may provide proof of higher or lower storage fees.

9. Withdrawal from the contract by the Buyer, limitation of liability

If we are responsible for the non-observance of binding delivery periods and dates, or if we are in delay, the Buyer may request compensation of 0.5% for the delay for each full week of delay up to a maximum amount of 5% of the value invoiced for the delivery affected by the delay, provided that he can furnish proof that he has suffered damage from the delay. This only applies to that part of the delivery which could not be used as intended as a result of the delay. Any claims for damages put forward by the Buyer arising from delayed delivery or a delivery beyond the above limits are excluded in all cases of delayed delivery, even after expiration of a legal period which may have been set. This does not apply to our obligatory liability or in cases of intent, gross misconduct, injury to life, body or health. This does not imply a shift of the onus of proof to the Buyer's disadvantage. Within the framework of legal regulations, the Buyer can only withdraw from the contract if we are responsible for the delay.

In the event of a delay, the Buyer must declare at our request, within an adequate period of time, whether he will withdraw from the contract and/or claim damages instead of the delivery or insist on delivery.

10. Shipment, transfer of risk

The risk in the goods shall pass to the Buyer when the goods are despatched or collected. Parcels are generally delivered prepaid, and the postal charges incurred plus VAT are invoiced. If the despatch or collection is delayed at the Buyer's request or impossible for reasons beyond our control, the purchase price is nevertheless due for payment, and the risk shall be transferred to the Buyer on the date when the goods are ready for despatch. If the goods are returned for reasons beyond our control, the Buyer shall bear the risk until their receipt at our premises.

11. Refusal to accept

The Buyer shall not be entitled to refuse deliveries because of minor imperfections.

12. Material defects

We are liable for material defects as described below: All goods or services supplied which reveal a material defect within the limitation period, without consideration of the operation time, will be repaired, replaced by new goods or rendered again at our discretion, provided that the cause of the material defect was already existing at the time of transfer of risk.

Claims for material defects will come under the statute of limitation after 12 months. This does not apply if longer limitation periods are provided for by law (§§ 438 BGB paragraph 1, no. 2 (Buildings and related things), 479 BGB paragraph 1 (Right to recourse) and 634a BGB paragraph 1, no. 2 (Building defects)). The Buyer should complain about material defects without any delay.

In the case of complaints the Buyer shall be entitled to hold back payment to a reasonable proportion to the material defects which have occurred. The Buyer shall only be entitled to withhold payment when a complaint is beyond any doubt. If it turns out that a complaint is unjustified, we are entitled to seek reimbursement of expenses incurred.

In the case of a complaint the Buyer shall grant us an adequate period of time to effect an improvement. If such improvement fails after the second trial, the Buyer may withdraw from the contract without prejudice to any claim for damages or a reduction in the purchase price. Claims for damages are subject to the following limitations of liability:

Claims for damages will not be accepted when there is an insignificant deviation from the agreed quality or when the usability is impaired to an insignificant extent, or when the fault is caused by natural wear, faulty or negligent treatment, excessive use, unsuitable working tools, imperfect constructions or inappropriate foundation following transfer of the risk, or due to particular external influences not provided for in the contract and to unreplicable software faults. If improper modifications or repairs are carried out by the Buyer or by third parties, such modifications or repairs and the consequences resulting thereof shall not be the subject of claims for damages.

Claims by the Buyer for compensation for expenses involved in subsequent activity, in particular expenses for transport, travel, labour and materials will not be permitted, if the item delivered has subsequently been moved from the Buyer's premises to another place, unless such move meets with its intended purpose. The Buyer shall have legal recourse against us only insofar as any agreements made by the Buyer with his customer are limited to claims for damages as provided for in law. The extent of the Buyer's right of recourse against us is subject to the statement in the foregoing paragraph. In all other respects, clause 17 (Other claims for damages) shall apply.

Claims of the Buyer outside the above limits or claims other than those defined in clause 12 against us and our agents due to a material defect will not be permitted, unless we or our agents are accused of gross fault. Furthermore, any claims for compensation shall be limited to damages foreseeable at the time of signing of the contract.

The above shall not apply in the case of malice, or if we have undertaken to specifically guarantee the quality and nature of the item.

13. Deficiency in title

Save as otherwise agreed, we undertake to make deliveries free from industrial protective rights and copyrights of third parties only in the country of the place of delivery. If a third party asserts justified claims against the Buyer arising from an infringement of these rights by products supplied by us and used as provided for in the contract, we will be liable to the Buyer within the period stated in clause 12, paragraph 2 as follows:

We will at our discretion and at our expense either obtain a right to use the goods supplied or replace them. If this is not possible for us to achieve under reasonable conditions, the Buyer is entitled to withdraw from the contract or to reduce the price, as provided for by law.

Our obligation to compensate for damages is subject to clauses 12 and 15.

The above obligations shall only be binding upon us if the Buyer notifies us immediately in writing of any claims made by third parties, if he does not acknowledge an infringement of rights and if all defensive measures and agreements for a settlement are reserved for us. If the Buyer ceases to use the products supplied in order to limit the damage or for any other well-founded reason, he must inform the third party that such cessation does not imply acknowledgement of an infringement of industrial protective rights and copyrights.

Claims of the Buyer will not be considered if he is himself answerable for the infringement of industrial protective rights and copyrights.

Claims by the Buyer will also not be considered if the infringement of industrial protective rights and copyrights arises from Buyer's special instructions, an application which we could not possibly foresee or the fact that our products have either been modified by the Buyer or combined with products from another source. In any case of infringement of industrial protective rights and copyrights, the Buyer's rights as specified in clause 13, paragraph 2 and the provisions of clause 12, paragraphs 4, 5 and 9 shall apply.

In the case of other deficiencies in title, the provisions of clause 12 shall apply.

Claims by the Buyer made against us and our agents other than or beyond those defined in this clause covering deficiency in title will not be considered.

14. Contractor's recourse as per § 478 et. seq. BGB (*German civil Code*)

In the case of recourse by the contractor as per § 478 BGB we may offer the creditor pursuing recourse compensation equivalent to the claims for damages which shall be limited to 10% of the value of the claim for damages is subject to the provisions of clauses 12, 13 and 15 of these Conditions. § 377 HGB (*German commercial Code*) will not be affected.

15. Failure to deliver

If we are unable to deliver the goods, the Buyer will be entitled to claim damages, unless we are not responsible for the problem. The Buyer's claim for damages shall be limited to 10% of the value of that part of the delivery which cannot be put into operation due to such failure. This limitation does not apply to our compulsory liability in cases of intent, gross misconduct, loss of life, injuries or damage to health. This does not imply a shift of the onus of proof to the Buyer's disadvantage. The Buyer's right to withdraw from the contract is not affected by this.

16. Variation of the contract

In the event that unforeseeable circumstances in the sense of clause 8, paragraph 2 result in a considerable change in the economic situation or in the contents of the supply or influence significantly the Supplier's operations so that it is unreasonable to

expect him to fulfil the contract, each party to the contract may request that the contract is amended in good faith. If such a variation is not justifiable from an economic point of view, the parties to the contract shall be entitled to withdraw from the contract or, in the case of permanent debt, to terminate it. If either party intends to exercise such right to withdraw or terminate, it shall notify the other party immediately following occurrence of the reasons for withdrawal or termination. This also applies if an extended delivery period has previously been agreed by the parties to the contract.

17. Other claims for damages

Other claims for damages and for reimbursement of expenses (hereinafter referred to as claims for damages) made by the buyer shall not be considered, irrespective of the legal justification. This applies especially to any infringement of duties under the obligation relationship and to illicit acts.

This does not apply in the case of compulsory liability, e.g. under the product liability act, in cases of intent, gross misconduct, injury to life, body or health, or in case of an infringement of essential contractual obligations. The claim for damages in case of an infringement of essential contractual obligations, however, is limited to foreseeable damage typical for the contract, unless liability is compulsory in cases of intent, gross misconduct, injury to life, body or health. This does not imply a shift of the onus of proof to the Buyer's disadvantage. Insofar as the Buyer is entitled to claims for damages according to this clause, all such claims shall come under the statute of limitations following expiry of the limitation period applicable to claims for material defects stated in clause 12, paragraph 3.

18. Reservation of proprietary rights

All goods supplied shall remain our property until all claims, secondary claims, claims for damages and future claims have been paid in full and all cheques and bills have been cashed.

The Buyer is entitled to process and resell the purchased goods subject to the following conditions:

a) The Buyer's right to process the purchased goods in the ordinary course of business will cease if payments are suspended, or if an application for an insolvency procedure concerning his assets is filed, notwithstanding our right to revoke such right at any time. When reselling the goods, the Buyer shall mention the reservation of proprietary rights, and he shall transfer to us his claims against third parties resulting from the resale of our goods (as per b) and c) below. Any use of the goods for carrying out work contracts and contracts for work and materials is also considered as resale.

The Buyer is not entitled to pawn or transfer the goods by way of security. In the event of seizure by third parties, the Buyer shall inform us immediately in writing, giving details of the creditor concerned.

The Buyer is not entitled to cede claims resulting from a transfer of our goods, unless such transfer is made within the framework of factoring, where the factoring profit exceeds the value of the claims. Once the factoring profit has been credited our claim will become due. The Buyer must inform us about such factoring.

b) By processing the purchased goods the Buyer does not acquire any proprietary rights in the new product (§ 950 BGB). If our goods are processed, mixed or combined with goods of third parties, the Buyer is entitled to a co-ownership according to the proportion of the value of our goods.

c) The Buyer hereby transfers to us his claims against third parties and additional rights resulting from the resale of our goods. This also applies if the goods have been processed, mixed or combined with goods of third parties and we are entitled to co-ownership based on the value of the goods. Our proportion of co-ownership corresponds to the proportion of the value invoiced for our goods and the value invoiced for the new goods. If the transfer is made within the framework of factoring, he hereby transfers to us his claims against the factoring partner.

d) As long as the Buyer complies with his payment obligations, we shall not collect any claims transferred to us. However, the Buyer shall at our request present an exact statement of all claims we are entitled to, including the names and addresses of his customers, the amounts of the claims, the dates of the invoices, etc. and give us any information which may be required for collecting the claims transferred to us.

The Buyer shall be entitled to collect the claims until they are revoked by us. If he is in default of payment or if his financial circumstances deteriorate, he shall authorise us to inform his customers of the transfer of claims and permit us to collect the claims ourselves.

In the case, we may request him to allow us to examine the claims transferred to us through a person nominated by us by means of an inspection of the Buyer's accounts. Sums which are received from claims transferred to us shall be remitted separately.

e) Reservation of proprietary rights shall also remain valid if we encode part of the claims in a regular invoice, draw up the balance and have it acknowledged. The reservation of proprietary rights not only applies to the acknowledged abstract balance but also to the causal balance.

f) We hereby undertake to release fully paid deliveries if the value of the security under the reservation of proprietary rights exceeds our claims by more than 20%.

g) If the Buyer suspends payment, he shall send us, immediately following announcement of such suspension, a list of all existing goods which are subject to our proprietary rights, including processed goods, and a list of all claims he may have against his customers including copies of the associated invoices.

h) The Buyer shall hold the goods as a fiduciary for us. He shall insure them against fire, theft and water. The Buyer hereby transfers to us his claims for any damages he may have against insurance companies or other entities responsible for compensation up to the sum of our claims.

i) If we have withdrawn from the contract we are entitled to request return of the goods which are subject to our proprietary rights.

j) The rights resulting from the reservation of proprietary rights and all special rights thereto as stipulated in these provisions shall be valid as contingent liabilities which we have entered into in the Buyer's interest, until they are released in full.

19. Validity of the Conditions of sale and delivery, binding character of the contract

If any provision in these Conditions of sale and delivery or any agreement in the delivery contract is invalid, such provision or agreement shall not affect the validity of the remaining provisions or agreements. The invalid provision or agreement shall be replaced by a valid provision or agreement which shall meet as closely as possible and as legally permissible the economic purpose of the original one.

If the Buyer is not a fully qualified merchant as specified in the HGB (*German commercial code*), a legal entity under public law or a special fund under public law, only the provisions of clause 18 "Reservation of proprietary rights" shall apply.

20. Place of fulfillment, Place of jurisdiction, Governing law

The place of fulfillment for delivery and payment is Kirchhundem. Any lawsuits resulting from the contractual relationship between the parties shall be brought before the court competent in the area of Kirchhundem.

The relationship between our company and the Buyer shall be exclusively governed by the law of the Federal Republic of Germany.

The Vienna convention of the United Nations for the international sale of goods shall not apply.

- Service is our commitment.





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