

Plugs for the world



UK / IRL



MENNEKES



International approvals.

MENNEKES plugs and receptacles conform to relevant national and international standards. Plugs and receptacles are tested by independent organisations like 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, in particular countries whose national test marks are given below. Due to special national regulations not every device can receive a general worldwide approval.

For plugs and receptacles for USA und Canada please contact us.



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

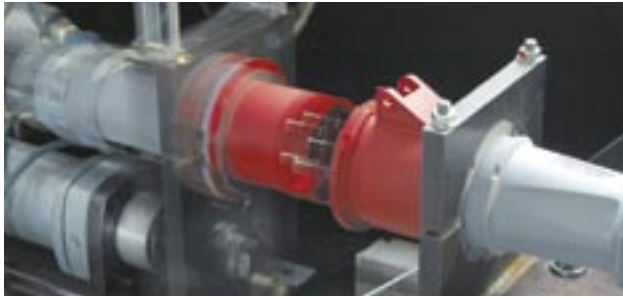


USA


 People's Republic
of China


Only products bearing the MENNEKES® brand deserve it.

Maintaining connection i

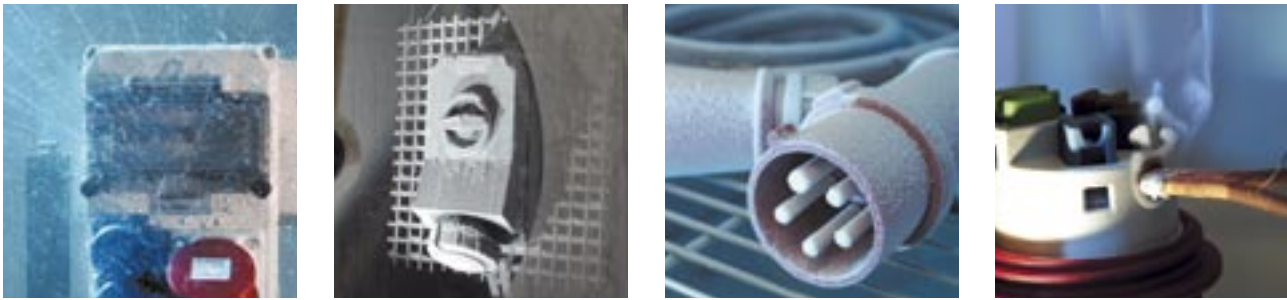


Only our products that pass the MENNEKES vigourous testing will bear the name.



Extremes of cold, heat, dust and water are tested in our laboratories again and again. After this, the products are certified by accredited institutions. According to international standards.

in extreme environments.



DMT

To reach the goal of high level quality, a quality management system conforming to DIN EN ISO 9001:2000 has been installed and certified. As an export orientated business, MENNEKES has also acquired the product certifications of international institutions in several relevant fields.

Approved
and
certified.

Your direct connection to products, information and service.



Service and safety world-wide: information and product overview at any time. And any place.



www.MENNEKES.co.uk

www.MENNEKES.co.uk incorporates our products and services in one site with 3.000 plus products listed. Further product information on UK and world-wide products is available on www.MENNEKES.de. Literature, promotional and contact details are easily accessible via these two sites.





Detailed information for professionals: exact dimensions and specifications of each product can be recalled via internet. This makes planning easier.



Around the clock. Around the globe.





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TwinCONTACT. Quick. Double. Safe.



Colour coded and marked terminals for faultless connection. Insert the conductor – and that's it. For a guaranteed safe contact. Vibration-proof. Wear-resistant contacts, maintenance-free. For further information ask for our leaflet. For products see pages 24 and 25.

Quick:
Spring terminal.
Double:
Connecting terminal.
Safe:
TwinCONTACT.



RAPIDO. Express installation of panel mounted CEE-devices



RAPIDO threaded receptacles and inlets. Simple panel installation with one central fixing hole. No screw fixing points required enables installation space to be maximised. Save time and material – no need at all for fastening screws. Installation without tools. Fixings not accessible from outside, for maximum safety. Perfect design, also when fitted in groups. Suitable for walls from 2 to 9 mm (RAPIDO with 70 mm dia.) resp. from 2 to 5 mm (RAPIDO with dia. 61 mm). For further information ask for our leaflet. For products see pages 24, 25, 31 and 33.



Panel mounted receptacles and auxiliary switches.



Identical mounting dimensions for all sockets from 16A, 3p up to 32A, 5p. Uniform flange dimension of 85 x 85 mm. Uniform mounting dimension of 70 x 70 mm for easier drilling and punching. Torsion proof flange with integral fixed sealing. Professional design of the finished installation. For further information ask for our leaflet. For products see pages 22 and 23.



**One dimension,
for greater
flexibility.**

Retro-fit of auxiliary switch.

An auxiliary switch, designed as a two way contact, may be connected as a NO or a NC contact for additional functions such as control, monitoring, signalling, electrical interlocking etc. Optional auxiliary switch is also available for surface mounted receptacles. For products see page 23.



Amelan. High resistance to chemicals.



Receptacles and combinations made of Amelan for use in corrosive atmosphere.

Amelan is the plastic used by MENNEKES for plugs and receptacles destined for use in environments where they will be 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. For products see page 41.

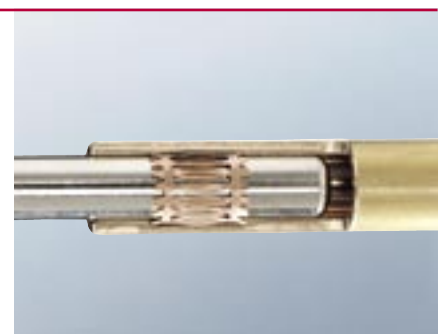


SoftCONTACT and TorsionSpringCONTACT.



SoftCONTACT in 63A connectors and TorsionSpringCONTACTs in 125A connectors reduce friction during plugging and unplugging. Another advantage is: the contacts are self-cleaning during inserting and withdrawing. This provides improved electrical connection.

For products see pages 22, 23, 26, 35, 36, 39-41.



3KRAFT. The compact distributing panel.



3KRAFT comes equipped to suit your requirements: up to three sockets plus a compressed air connection. For installation or ready for use, with supply cable and plug. The design incorporates three integral handles that may also be used as tool holders, e.g. for compressed air guns etc. Available in three colours: signal yellow, red or silver.

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

For further information ask for our leaflet.



AirKRAFT®. Function. Shape. Colour.

5 functions
3 colours
1 shape

The choice is yours.

For further information ask for our leaflet.

You need power, data, compressed air, light and electrical safety. In one place. AirKRAFT® provides all in one device. Hung from the ceiling, installed on the wall or mobile on the floor. The AirKRAFT®-unit was granted the "Design-Plus" award. Available in three colours: signal yellow, red or silver.



CEEplus. The multiple contacters.



CEEplus.
For perfect
power supply
and safe data
transmission.

Just one socket for electrical power and signals. Perfect compatibility: CEEplus plugs, couplers and sockets may be combined with any traditional CEE products 16A, 3p, 230V. Wherever work processes need to be controlled or monitored: e.g. monitored heating and air conditioning systems, feeders / pumps with level control, systems with limit switches or charging stations for electric cars, for camping sites and marinas. For further information ask for our leaflet.



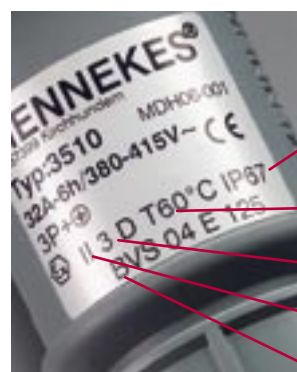
Plugs and receptacles for zone 22 hazardous areas.



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. MENNEKES switched and interlocked sockets as well as the corresponding plugs meet all requirements.



For further information ask for our leaflet.



All information at a glance

- IP 67** protection
- T60°C** maximum outside temperature of enclosure in service
- 3D** protection against dust explosions, zone 22
- II** not for underground use

Approval no. of test authority

Stainless steel receptacle combinations.

Protects from unauthorised access also during operation.



High protection factor and attractive design. MENNEKES stainless steel receptacle combinations are recommended for all applications where equipment must be protected from unauthorised access when current on as well as when switched off, at the same time visual appearance is important. The rigid construction and timeless elegance of flat finished stainless steel can meet these requirements.

Also available as flush mounted combination with frost proof gate valve for water supply. Please contact us for further information.

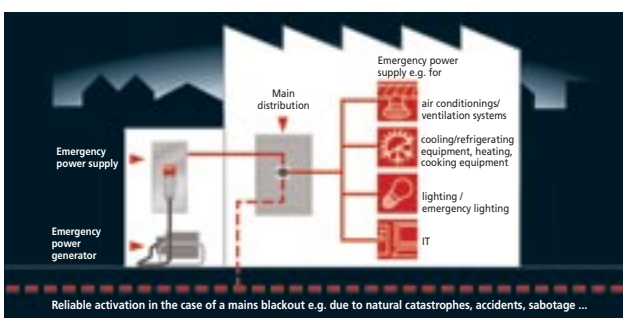


Emergency power supply.

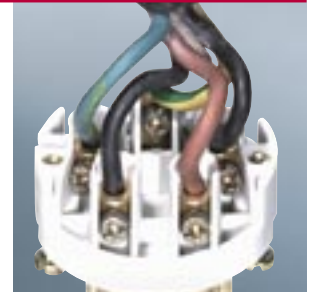
Your insurance in the case of power failure. Operational interruptions are reduced to the minimum.

Ideal for agriculture, craft, industry and private households. Indoor and outdoor application. Plastic and stainless steel housing for locations with aggressive atmosphere or tough mechanical conditions. For further information ask for our leaflet.

Safe and firm installation instead of insecure provisional arrangements.



AM-TOP®. With screw terminal system.



Well designed and field-proven, AM-TOP® offers solutions for highest specifications, and makes fast, professional work possible with ease. Through tightening the cable gland, the cable grip works automatically and the gasket seals simultaneously. Nickel plated contacts are also available with high heat resistant contact carriers for higher corrosion resistance in aggressive environments.

Good contact.
Open terminal screws, all facing the same way, make the installation simple.

For products see pages 28, 29, 33, 35 and 36.

ProTOP. With time saving enclosure.



Many practical details. For example the self-finding thread for tight and stable connection of enclosure with integrated strain relief and automatic sealing in one step.

Cable grip.
Single action cable restrain. For easy connection.

Lid lift.
Single hand control for holding the connector and opening the lid.

For products see pages 28, 32, 33, and 35.

VarioTOP. Angled plug with rotating housing.



VarioTOP's housing can be twisted up to 60° to the right or to the left side. Cables are guided along the wall and safety is increased by guiding the supply cables off the working space.

For products see pages 27 and 33.



StarTOP®. Quick, safe and secure. With SafeCONTACT.

Safety made visible.

StarTOP® with SafeCONTACT saving maximum installation time and providing maximum safety. In one step insulation is cut, contact is made and the wire is clamped securely. Colour-coded, maintenance-free contacts.

No tools needed for assembling the enclosure.

For products see pages 28 and 35.



Push lock for safety.



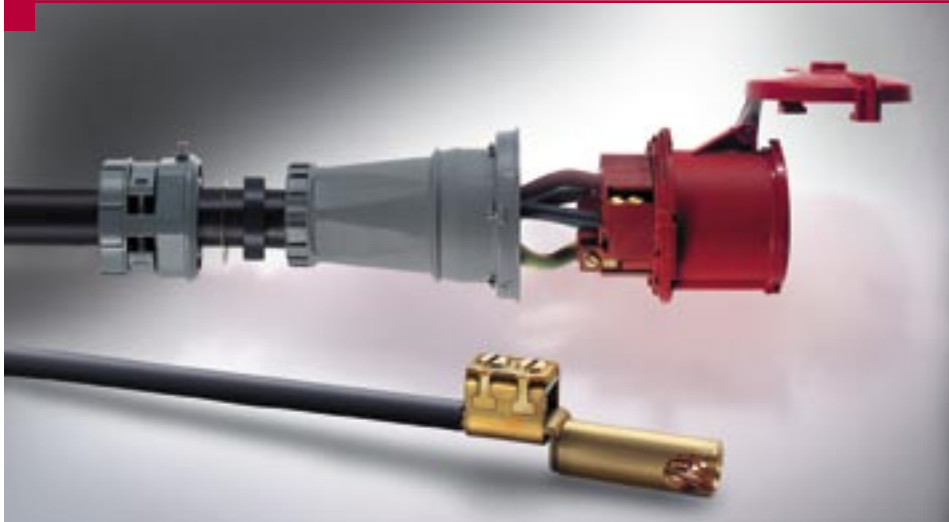
70%
time saving.

100%
safety.

Many practical details and robustness make StarTOP® a top-solution for highest requirements.



PowerTOP. Safe. Strong. Versatile.



Plugs and connectors from 16A to 125A.

PowerTOP design gives improved handling for connection and disconnection. The external cable grip protects the gasket. A simple visual check at the outside of the plug is sufficient to prove cable grip integrity. For products see pages 28, 29, 35 and 36.



PowerTOP plugs and connectors with extra earth terminal.

PowerTOP plugs and connectors are also available with extra earth terminal for terminating braid.

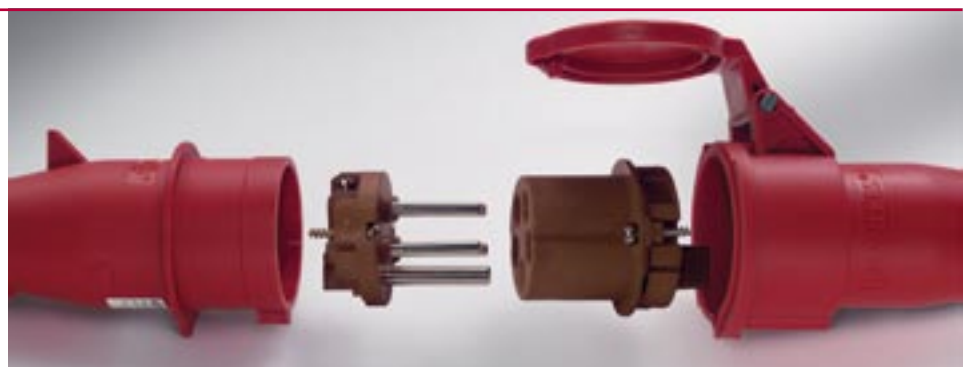
Available in 16A, 32A and 63A, in 110V, 230V and 415V.

For products see pages 29 resp. 36. To order, just add **SY** to the article number.



For severe conditions.

These connectors guarantee better resistance in aggressive environments. They withstand high humidity, salt- and acid-containing air, aggressive gases and vapours. Preferably used in chemical plants, salt mines, breweries, agriculture, market gardens, harbours and other industrial premises near the seaside. For products see pages 37, 38 and 41. Further products listed in the MENNEKES Master-Catalogue.



Combinations covering every conceivable need.

MENNEKES receptacle combinations are available tailor made in size and equipment to your individual specification. Robust cases, fitted with CEE receptacles, capable of withstanding the stresses imposed during insertion and withdrawal of the plugs. For products see pages 44-49.



EverGUM. Suitable for use in aggressive environments.

Solid rubber.
Signal yellow.

With the EverGUM range MENNEKES provides a solid rubber alternative to enclosures in AMAPLAST or Amelan. 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.

- Resistant to weather and ageing
- High dimensional stability and precision
- Good resistance to acids and alkalis
- High breakdown and creepage resistance

For products see page 47.



Brief description of features and terms used in this catalogue



AMAPLAST

Most MENNEKES products are made of the plastic AMAPLAST. This material has the following outstanding characteristics: good electrical insulation, virtually unbreakable, resistant to abrasion, wear, heat, cold, ageing, sea water, oil and gasoline. Dimensionally stable, self-extinguishing.

For products shown left see pages 50 and 51.



Amelan

This plastic combines high grade mechanical, thermal and electrical properties with excellent dimensional stability and resistance to chemicals.

For more information see page 12.
For products see page 41.



EverGUM

Solid rubber receptacle combinations and receptacle strips for wall mounting or portable. Suitable for the most diverse environments, especially when there is likely to be exposure to rough handling or aggressive cleaning agents.

For more information see page 19.
For products see page 47.



AM-TOP®

Heavy duty case with many practical details for fast and easy assembly. Standard installation with screw terminals.

For more information see page 16.
For products see pages 28, 29, 33, 35 and 36.



Cepex

With surface, flush and cable duct mounting the Cepex range is extremely versatile and suitable and convinces with perfect technique and design.

For products see page 27.



DUO mechanical interlock

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.

For products see pages 38-41.



High heat resistant contact carriers

High temperature resistant contact carriers for severe conditions, standard in 63A and 125A.

For more information see page 18.
For products see pages 37, 38 and 41.



Nickel plated contacts

Used together with high heat resistant contact carriers. Appliances with nickel plated contacts and high heat resistant contact carriers are resistant to corrosive environments.

For more information see page 18.
For products see pages 37, 38 and 41.



Phase inverter

If three phase equipment rotates in the wrong direction the MENNEKES® phase inverter plug solves the problem quickly and safe.

For products see pages 33 and 34.



Phase sequence test plug

Indicates the rotating direction of three phase current.

For products see page 34.

**PowerTOP**

PowerTOP 63A and 125A: safe, strong and versatile. Top design for better handling. Easy to plug in and withdraw. External cable grip. High heat resistant contact carriers and nickel plated contacts.

For more information see page 18.
For products see pages 28, 29, 35 and 36.

**ProTOP**

Heavy duty case with many practical details for fast and easy assembly. Standard installation with screw terminals.

For more information see page 16.
For products see pages 28, 32, 33 and 35.

**RAPIDO**

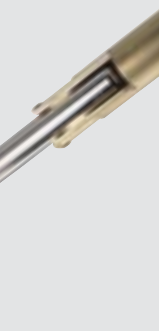
Express mounted receptacles and inlets. No screws. Central fixing for fast and easy assembly.

For more information see page 10.
For products see pages 24, 25, and 31.

**SafeCONTACT**

Insulation piercing connecting technology. No stripping of conductors and no use of cable sleeves.

For more information see page 17.
For products see pages 28 and 35.

**SoftCONTACT**

SoftCONTACT for 63A and connectors and receptacles. Less effort needed, easy to plug in, easy to pull out.

For more information see page 12.
For products see pages 22, 23, 26, 35, 36, 39 and 41.

**StarTOP®**

Quick, safe, secure. Super fast installation: saves up to 70% on each assembly. No stripping, no cable sleeves, SafeCONTACT technology for fast and safe electrical connection.

For more information see page 17.
For products see pages 28 and 35.

**SY-Terminal**

PowerTOP plugs and connectors are also available with extra earth terminal for terminating braid. Available in 16A and 32A, in 110V, 230V and 415V.

For more information see page 18.
For products see pages 29 and 36.

**TorsionSpringCONTACT**

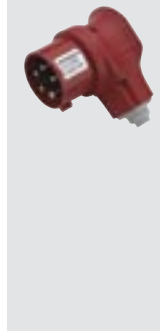
TorsionSpringCONTACT for 125A connectors and receptacles. Less effort needed, easy to plug in, easy to pull out.

For more information see page 12.
For products see pages 23, 36 and 40.

**TwinCONTACT**

Colour coded and marked terminals for faultless connection. Insert the conductor – and that's it.

For more information see page 10.
For products see pages 24 and 25.

**VarioTOP**

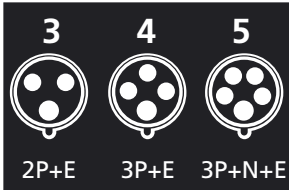
Angled plug with rotating housing. Inlet can be rotated up to 60° to the left and to the right.

For more information see page 16.
For products see pages 27 and 33.

MENNEKES CEE panel mounted receptacles

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300-500 Hz			STD. PACK. QTY.	WEIGHT G/EA.
		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		



△ IP 44 Flange 73.5 x 64 mm (16A, 3-pole), 100 x 92 mm, 20° inclination		Dimensions: page 54																		
16	3	1462	1463	1464		3186	3187	10	132											
16	4	1465	1466	1467	1468	1469	1470	10	183											
16	5	1471	1472	1473	3188	3189	3190	10	204											
16	7	Please see page 37																		
32	3	1491	1492	1493		3201	3202	10	236											
32	4	1494	1495	1496	1497	1486	1487	10	250											
32	5	1498	1499	1500	3191	3192	3193	10	288											
32	7	Please see page 37																		



△ IP 44 SoftCONTACT, Flange 110 x 106 mm, 20° inclination		Dimensions: page 54																		
63	3	1146A	1147A	1148A				5	526											
63	4	1149A	1150A	1151A	1152A			5	569											
63	5	1153A	1154A	1155A				5	624											

Products with pilot contacts: article number + index **P** (instead of **A**)



△ IP 44 Flange 75 x 75 mm, straight		Dimensions: page 54																		
16	3	1365	1366	1367		3054	3055	10	137											
16	4	1388	1389	1390	1391	1392	1393	10	161											
16	5	1384	1386	1385	3057	3059	3060	10	185											
16	7	Please see page 37																		
32	3	1394	1395	1396				10	199											
32	4	1397	1398	1399	1400	1401	1402	10	212											
32	5	3449	3454	3451	3452	3455	3447	10	252											
32	7	Please see page 37																		



△ IP 44 SoftCONTACT, Flange 107 x 100 mm, straight		Dimensions: page 54																		
63	3	1260A	1261A	1262A				5	523											
63	4	1246A	1247A	1248A	1249A			5	559											
63	5	1250A	1251A	1252A				5	620											

Products with pilot contacts: article number + index **P** (instead of **A**)



△ IP 44 Mini Flange 55 x 55 mm, straight		Dimensions: page 54																		
16	3	1628	1629					10	121											



△ IP 44 Small Flange 62 x 62 mm, straight		Dimensions: page 54																		
16	3	1362	1363	1364				10	127											

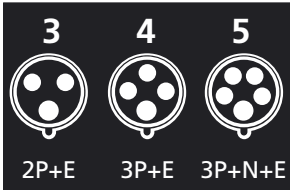
△ IP 44 Small Flange 72 x 65 mm, straight		Dimensions: page 54																		
16	4	1431	1432	1387	1433	1434	1435	10	147											
16	5	1429	1430	1383				10	180											

△ IP 44 Flange 85 x 85 mm, 20° inclination		Dimensions: page 54/55																		
16	3	3031	3036					10	148											
16	4			3072	3074			10	166											
16	5			3093				10	191											
32	3	3110	3112					10	222											
32	4			3136	3137			10	238											
32	5			3153				10	276											

MENNEKES CEE panel mounted receptacles

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300- 500 Hz	STD. PACK. QTY.	WEIGHT G/EA.
		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		



♦♦ IP 67 Flange 73.5 x 64 mm (16A), 3-pole, 100 x 92 mm, 20° inclination Dimensions: page 54/55

16	3	1474	1475	1476				10	151	
16	4	1477	1478	1479	1480	1481	1482	10	203	
16	5	1483	1484	1485				10	237	
16	7	Please see page 38								
32	3	1501	1502	1503				10	281	
32	4	1504	1505	1506	1507	1567	1568	10	291	
32	5	1489	1490	1551				10	334	
32	7	Please see page 38								



♦♦ IP 67 SoftCONTACT, Flange 110 x 106 mm, 20° inclination Dimensions: page 54/55

63	3	2179A	2180A	2181A				5	520
63	4	203A	204A	205A	206A			5	607
63	5	207A	208A	209A	3507			5	668

♦♦ IP 67 TorsionSpringCONTACT, Flange 114 x 110 mm, 15° inclination Dimensions: page 54/55

125	3		3575					5	840
125	4	210A	211A	212A	213A			5	940
125	5	214A	215A	216A				5	1171

Products with pilot contacts: article number + index **P** (instead of **A**)



♦♦ IP 67 Flange 75 x 75 mm (16A), 85 x 75 mm (32A), straight Dimensions: page 54/55

16	3	217A	218A	219A				10	160	
16	4	220A	221A	222A	223A	224A	225A	10	183	
16	5	226A	227A	228A				10	221	
16	7	Please see page 38								
32	3	229A	230A	231A				10	266	
32	4	232A	233A	234A	235A	236A	237A	10	293	
32	5	238A	239A	240A				10	314	
32	7	Please see page 38								



♦♦ IP 67 SoftCONTACT, Flange 107 x 100 mm, straight Dimensions: page 54/55

63	3	1263A	1264A	1265A				5	567
63	4	1122A	1123A	1124A	1125A			5	604
63	5	1126A	1127A	1128A				5	664

♦♦ IP 67 TorsionSpringCONTACT, Flange 130 x 130 mm, straight Dimensions: page 54/55

125	3		3380					5	1001
125	4	1455	1456	1457	1458			5	1135
125	5	1459	1460	1461	3283			5	1256

Products with pilot contacts: article number + index **P** (instead of **A**)



♦♦ IP 67 Flange 85 x 85 mm, 20° inclination Dimensions: page 54/55

16	3	903	905					10	158
16	4			1081	1082			10	
16	5			1103				10	224
32	3	3197	3200					10	260
32	4			3254	3256			10	282
32	5			3524				10	326

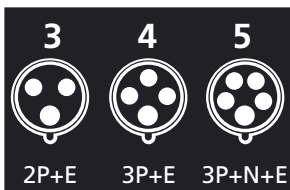


Auxiliary contact switch for panel mounted receptacles IP44 and IP67, with flange 85 x 85 mm
 for additional functions such as control, monitoring, signalling, electrical interlocking etc.
 10A/400V, 16A/230V
 Function: two way contact = make/break contact
Article number 41000

MENNEKES CEE panel mounted receptacles with TwinCONTACT

MENNEKES CEE panel mounted receptacles RAPIDO with TwinCONTACT

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300-500 Hz			STD. PACK. QTY.	WEIGHT G/EA.
		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		



▲ IP 44 CEE panel mounted receptacle with TwinCONTACT, 20° inclination Dimensions: page 54

16	3	1631 *	1632 *	1633 *		1634 *	1635 *	10	132
16	4	1636 **	1637 **	1638 **	1639 **	1640 **	1641 **	10	183
16	5	1642	1643	3473	1644	1645	1646	10	204

*available 1st quarter 2005
**available 2nd quarter 2005



▲ IP 44 CEE panel mounted receptacle with TwinCONTACT, straight Dimensions: page 54

16	3	1667 *	1668 *	1669 *		1670 *	1671 *	10	137
16	4	1672 **	1673 **	1674 **	1675 **	1676 **	1677 **	10	161
16	5	1678	1679	3385	1680	1681	1682	10	185

*available 1st quarter 2005
**available 2nd quarter 2005



▲ IP 67 CEE panel mounted receptacle with TwinCONTACT, 20° inclination Dim.: page 54/55

16	3	1700 *	1701 *	1702 *				10	151
16	4		1703 **	1704 **	1705 **	1706 **		10	203
16	5			3485				10	237

*available 1st quarter 2005
**available 2nd quarter 2005



▲ IP 67 CEE panel mounted receptacle with TwinCONTACT, straight Dimensions: page 54/55

16	3	1707 *	1708 *	1709 *				10	160
16	4	1710 **	1711 **	1712 **	1713 **	1714 **	1715 **	10	183
16	5	1716	1717	1131				10	221

*available 1st quarter 2005
**available 2nd quarter 2005



▲ IP 44 CEE panel mounted receptacle RAPIDO with TwinCONTACT round flange for central fixing, dia. 61 mm Dimensions: page 55

16	3	1132 *	977 *					10	158
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*available 1st quarter 2005



▲ IP 44 CEE panel mounted receptacle RAPIDO with TwinCONTACT round flange for central fixing, dia. 70 mm Dimensions: page 55

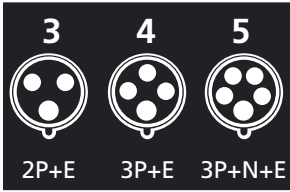
16	4		1133 **	998 **	1134 **			10	
16	5			907				10	187

**available 2nd quarter 2005

MENNEKES CEE wall mounted receptacles with TwinCONTACT

MENNEKES CEE panel mounted receptacles RAPIDO w. screw terminals

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300-500 Hz			STD. PACK. QTY.	WEIGHT G/EA.
		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		



⚠ IP 44 CEE receptacle with TwinCONTACT, top entry											Dimensions: page 55						
16	3		1340 **		1341 **											10	
16	4				1342 **		1343 **		1344 **							10	
16	5						31									10	233

**available 2nd quarter 2005



⚠ IP 44 CEE receptacle with TwinCONTACT, top and bottom entry											Dimensions: page 55						
16	3		1719 *		1720 *		1721 *									10	
16	4				1723 **		1724 **		1725 **							10	236
16	5				1730		3331									10	256

*available 1st quarter 2005

**available 2nd quarter 2005



⚠ IP 44 CEE receptacle with TwinCONTACT, top and bottom entry											Dimensions: page 55						
16	4		1750 **		1751 **		418 **		1752 **							10	280
16	5		1755		1756		419		1757							10	290

**available 2nd quarter 2005



⚠ IP 67 CEE receptacle with TwinCONTACT, top and bottom entry											Dimensions: page 55						
16	3		1867 *		241 *		1868 *									10	240
16	4		1870 **		1871 **		242 **		1872 **							10	269
16	5		1875		1876		200									10	322

*available 1st quarter 2005

**available 2nd quarter 2005



⚠ IP 44 RAPIDO with screw terminals, round flange for central fixing, dia. 61 mm											Dim.: page 55						
16	3		964		966											10	158
16	4						990									10	178
16	5						985									10	192

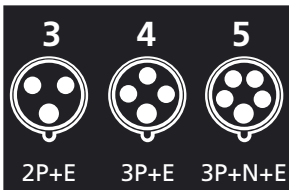


⚠ IP 44 RAPIDO with screw terminals, round flange for central fixing, dia. 70 mm											Dim.: page 55						
16	4				908		968		917							10	200
16	5						969									10	215
32	3		918				995									10	244
32	4						929		999		930					10	262
32	5								976							10	297

MENNEKES CEE wall mounted receptacles

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



STD. PACK. QTY.

WEIGHT G/EA.



AMPERE		POLES		110 V		230 V		400 V		500 V		>50 - 500 V		>50 - 500 V		STD. PACK. QTY.	WEIGHT G/EA.						
16	32	3	4	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		
⚠ IP 44 CEE receptacles, top entry																							
Dimensions: page 56																							
16	3	21077																				10	180
16	4																					10	214
16	5																					10	218
32	3	1368																				10	290
32	4	1371																				10	307
32	5																					10	334



AMPERE		POLES		110 V		230 V		400 V		500 V		>50 - 500 V		>50 - 500 V		STD. PACK. QTY.	WEIGHT G/EA.						
16	32	3	4	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		
⚠ IP 44 CEE receptacles, top and bottom entry																							
Dimensions: page 55																							
16	3	24113																				10	180
16	4	103																				10	236
16	5	109																				10	256
16	7	Please see page 37																					



AMPERE		POLES		110 V		230 V		400 V		500 V		>50 - 500 V		>50 - 500 V		STD. PACK. QTY.	WEIGHT G/EA.						
16	32	3	4	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		
⚠ IP 44 CEE receptacles, top and bottom entry																							
Dimensions: page 55																							
16	4	3030																				10	280
16	5	3041																				10	290
16	7	Please see page 37																					
32	3	1420ZA ²⁾																				10	355
32	4	1423																				10	348
32	5	1555																				10	401
16	7	Please see page 37																					

²⁾with M 25 conduit entries



AMPERE		POLES		110 V		230 V		400 V		500 V		>50 - 500 V		>50 - 500 V		STD. PACK. QTY.	WEIGHT G/EA.						
63	32	3	4	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		
⚠ IP 44 CEE receptacles, SoftCONTACT, top and bottom entry																							
Dimensions: page 56																							
63	3	1136A																				5	857
63	4	1139A																				5	901
63	5	1143A																				5	925

Products with pilot contacts: article number + index **P** (instead of **A**)



AMPERE		POLES		110 V		230 V		400 V		500 V		>50 - 500 V		>50 - 500 V		STD. PACK. QTY.	WEIGHT G/EA.						
16	32	3	4	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		
⚠ IP 67 CEE receptacles, top and bottom entry																							
Dimensions: page 55																							
16	3	1193ZA ¹⁾																				10	240
16	4	1194																				10	269
16	5	1198																				10	322
16	7	Please see page 38																					
32	3	1201ZA ²⁾																				10	376
32	4	1204																				10	396
32	5	1208																				10	450
32	7	Please see page 38																					

²⁾with M 25 conduit entries



AMPERE		POLES		110 V		230 V		400 V		500 V		>50 - 500 V		>50 - 500 V		STD. PACK. QTY.	WEIGHT G/EA.						
63	32	3	4	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		
⚠ IP 67 CEE receptacles, SoftCONTACT, top and bottom entry																							
Dimensions: page 56																							
63	3	856																				5	903
63	4	130A																				5	943
63	5	134A																				5	1004
⚠ IP 67 CEE receptacles, top and bottom entry																							
Dimensions: page 56																							
125	3	on request																					
125	4	137																				3	1973
125	5	141																				3	2102

Products with pilot contacts: article number + index **P** (instead of **A**)

MENNEKES CEE receptacles Cepex

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300- 500 Hz
		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. QTY.
WEIGHT G/EA.



⚠ IP 44 CEE wall mounted receptacles **Cepex**, grey RAL 7035 Dimensions: page 56

16	3	4101YA	4102YA			5	280
16	4		4254YA	4103YA	4104YA	5	291
16	5			4105YA		5	298
32	3	4106YA	4107YA			5	330
32	4			4108YA	4109YA	5	340
32	5			4110YA		5	350

Index **YA** = without rubber gland



⚠ IP 44 CEE panel mounted receptacles **Cepex**, grey RAL 7035 Dimensions: page 56

16	3	4227ZA	4210			5	171
16	5			4211		5	189
32	3	4228ZA	4212			5	221
32	4			4230		5	231
32	5			4213		5	241



⚠ IP 44 CEE wall mounted duplex receptacles **Cepex**, grey RAL 7035 Dimensions: page 56/57

16	3	4218YA	4219YA			5	456
16	4			4220YA		5	536
16	5			4204YA		5	549
32	3	4223YA	4224YA			4	710
32	4			4225YA		4	755
32	5			4226YA		4	800

Index **YA** = without rubber gland

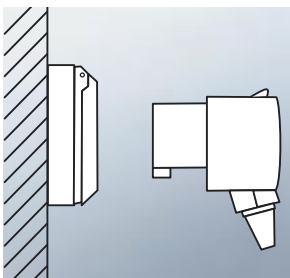


All above mentioned types are available in three designs

- with smooth cover (as shown above)
- with identification plate
- with identification plate and lockable cover

Height correction flange, 12 mm

cat.-no. **4191** 25 35



MENNEKES® **Cepex** receptacles with angled plugs are ideal for use in confined spaces such as floor ducts and false ceilings.

The maximum height of the combination with the plug fitted is 108 mm.

Cepex range panel receptacles rated 16 amps and 32 amps have the same dimensions. It is, therefore, possible to interchange single or 3 phase receptacles on a 2-gang enclosure to suit your own requirements.



⚠ IP 44 CEE angled plug Dimensions: page 56/57

16	3	1410	1411	1412		10	115
16	4	890	891	315		10	138
32	3	3312	3306			10	213
32	4		3646	3987		10	230
32	5		3424	3266		10	249

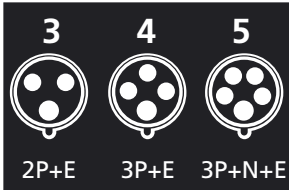
⚠ IP 44 CEE angled plug **VarioTOP** with rotating housing Dimensions: page 56/57

16	5	3981	3980	colour code		10	182
16	5	3983	3982	electric grey		10	185

MENNEKES CEE plugs

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



STD. PACK. QTY.
WEIGHT G/EA.



⚠ IP 44 CEE plug AM-TOP®									
AMPERE	POLES	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 a. 300- 500 Hz	STD. PACK. QTY.	WEIGHT G/EA.
16	3	247	248	249		2168	2271	10	132
16	4	250	251	252	253	254	255	10	150
16	5	256	257	3	2014	2189	2243	10	171
16	7	Please see page 37							
32	3	259	260	261		2195	2341	10	234
32	4	262	263	264	265	266	267	10	275
32	5	268	269	4	2015	2244	2178	10	276
32	7	Please see page 37							



⚠ IP 44 CEE plug ProTOP									
16	3	147A	148A					10	133
16	4		151A	152A	153A			10	166
16	5			13A				10	183
32	3	159	160					10	250
32	4		163	164	165			10	270
32	5			14A				10	298



⚠ IP 44 CEE plug StarTOP® with SafeCONTACT									
16	3	947	948					10	151
16	4		951	952	953	954		10	187
16	5			33				10	204
32	5			34				10	343



⚠ IP 44 CEE plug PowerTOP with external strain relief									
16	3	3918	3919	3920				10	175
16	4	3925	3927	3926	3928	3929	3930	10	198
16	5	3934	3936	3935				10	241
32	3	3942	3943	3944				10	267
32	4	3945	3946	3947	3948	3949	3950	10	284
32	5	3951	3952	3977				10	363



⚠ IP 44 CEE plug PowerTOP with external strain relief									
63	3	1226A	1227A	1228A				5	585
63	4	1229A	1230A	1231A	1232A			5	641
63	5	1233A	1234A	1235A				5	697

MENNEKES CEE plugs

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE

POLES

STD. PACK. QTY.

WEIGHT G/EA.



IP 67 CEE plug AM-TOP®

16	3	277	278	279				10	156
16	4	280	281	282	283	284	285	10	165
16	5	286	287	288				10	206
16	7	Please see page 38							
32	3	289	290	291				10	292
32	4	292	293	294	295	296	297	10	313
32	5	298	299	300				10	329
32	7	Please see page 38							



IP 67 CEE plug PowerTOP with external strain relief

16	3	3794	3796	3799				10	191
16	4	3807	3811	3809	3810	3812	3804	10	221
16	5	3819	3823	3821				10	272
32	3	3829	3830	3832				10	307
32	4	3839	3844	3841	3842	3845	3837	10	324
32	5	3851	3855	3853				10	410

Products with extra earth terminal: article number + index **SY**.

For more information see page 18.



IP 67 CEE plug PowerTOP with external strain relief

63	3	1570A	1571A	1572A				5	664
63	4	1108A	1109A	1110A	1111A			5	724
63	5	1112A	1113A	1114A	2958A			5	779
125	3	3399A	3400A					5	1095
125	4	1441A	1442A	1443A	1444A			5	1227
125	5	1445A	1446A	1447A	3173A			5	1334

Products with extra earth terminal: article number + index **SY** (instead of index **A**).

For more information see page 18.



IP 67 CEE plug economy range

63	4			303				5	634
63	5			307				5	682



Protective cover for IP 67 inlets and plugs

Ampere	poles	cat.-no.		
16	3	40784		50 33
16	4	40778		50 40
16	5+7	40785		50 54
32	3+4	40841		50 57
32	5+7	40786		50 78
63	3, 4+5	40787		50 107
125	3, 4+5	40788		40 115



Plug-Guard

suitable for all CEE plugs and inlets up to 125A except low voltage

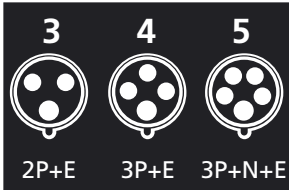
cat.-no. **41416**

40 15

MENNEKES CEE panel mounted inlets

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300-500 Hz			STD. PACK. QTY.	WEIGHT G/EA.
		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		



⚠ IP 44 CEE panel mounted inlet												Dimensions: page 56/57		
16	5											1408	10	117
32	5											1409	10	183

A retaining device to match the hinged lid of the connector must be provided to ensure the latching feature.



⚠ IP 44 CEE panel mounted inlet, Flange 75 x 75 mm, Fixing distance 60 x 60 mm														
16	5											853	10	120

A retaining device to match the hinged lid of the connector must be provided to ensure the latching feature.



⚠ IP 44 CEE panel mounted inlet												Dimensions: page 56/57			
16	3	810										812	10	136	
16	4										837	813	814	10	157
16	5										815		10	172	
32	3	816										817	10	198	
32	4										838	819	820	10	210
32	5										821		10	245	

A retaining device to match the hinged lid of the connector must be provided to ensure the latching feature.



⚠ IP 44 CEE panel mounted inlet												Dimensions: page 56/57			
63	3	822										1981	5	360	
63	4										1984	1982	824	5	480
63	5										1688		5	538	

A retaining device to match the hinged lid of the connector must be provided to ensure the latching feature.



⚠ IP 67 CEE panel mounted inlet												Dimensions: page 57			
16	3	825										826	10	170	
16	4										839	827	828	10	174
16	5										829		10	205	
32	3	830										831	10	239	
32	4										840	832	833	10	256
32	5										834		10	295	

A retaining device to match the hinged lid of the connector must be provided to ensure the latching feature.

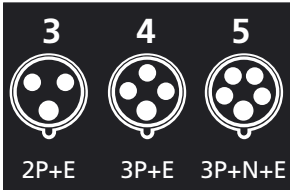


⚠ IP 67 CEE panel mounted inlet												Dimensions: page 57			
63	3	835										836	5	478	
63	4										3704	3656	3657	5	553
63	5										3658		5	590	
125	3										3665		5	890	
125	4										3413	3583	3600	5	1005
125	5										1983		5	1130	

MENNEKES CEE wall and panel mounted inlets

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300- 500 Hz
		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. QTY.
WEIGHT G/EA.



⚠ IP 44 CEE panel mounted inlet RAPIDO with central fixing, dia. 61 mm								Dimensions: page 57	
16	3		919		924			10	113
16	4					931		10	124
16	5					949		10	141



⚠ IP 44 CEE panel mounted inlet RAPIDO with central fixing, dia. 70 mm								Dimensions: page 57	
16	4			932		933	934	10	145
16	5					972		10	161
32	3		935		938			10	
32	4			939		942	944	10	196
32	5					974		10	223



⚠ IP 44 CEE wall/panel mounted inlet with hinged lid for internal and external fixing								Dim.: page 57	
16	3		846		847			10	141
⚠ IP 44 CEE wall/panel mounted inlet without hinged lid for internal and external fixing								Dim.: page 57	
16	3		843		844			10	116



⚠ IP 44 CEE wall/panel mounted inlet for internal and external fixing								Dimensions: page 57	
16	4					800		10	
16	5					801		10	215

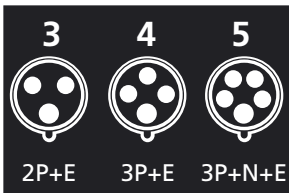


Hinged lid as assembly kit									
for article numbers 843 and 844						41482		10	22
for article numbers 800 and 801						41489		10	25

MENNEKES CEE inlets

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300-500 Hz		
		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. QTY.
WEIGHT G/EA.



▲ IP 44 CEE wall mounted inlet Dimensions: page 58

16	3	331	332	333													10	148
16	4	334	335	336	337				921					922			10	237
16	5	340	341	342	2359				2668					2400			10	246
32	3	343	344	345													10	350
32	4	346	347	348	349												10	353
32	5	352	353	354	2386												10	374



▲▲ IP 67 CEE wall mounted inlet Dimensions: page 58

63	3	1216	1107	1217													5	825
63	4	355	356	357	358												5	884
63	5	359	360	361													5	931
125	4	362	363	364	365												3	2061
125	5	366	367	368													3	2178



▲ IP 44 CEE wall mounted inlet Dimensions: page 58

16	4	371	372	373	374												10	170
16	5	377	378	379													10	182
32	3	380	381	382													10	224
32	4	383	384	385	386												10	245
32	5	389	390	391													10	260



▲ IP 44 CEE wall mounted inlet with hinged lid Dimensions: page 58

16	4	392	393	394	395												10	260
16	5	398	399	400													10	275
32	3	401	402	403													10	323
32	4	404	405	406	407												10	347
32	5	410	411	412													10	365



▲ IP 44 CEE recessed inlet, flush mounted Dimensions: page 58

suitable for use with below mentioned connectors																		
16	3		8001														5	297

▲ IP 44 CEE angled connector Dimensions: page 58

16	3		1438														10	144
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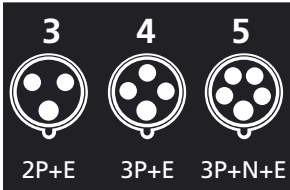
▲ IP 44 CEE connector ProTOP Dimensions: page 58

16	3		180AC														10	175
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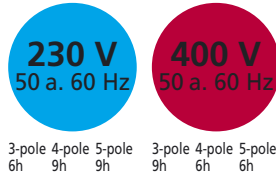
MENNEKES CEE phase inverter plugs and inlets

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE
POLES



STD. PACK. QTY.
WEIGHT G/EA.



⚠ IP 44 CEE phase inverter plug ProTOP				
16	5		3319A	10 163



⚠ IP 44 CEE phase inverter plug AM-TOP®				
16	4	338	339	10 155
16	5	318	319	10 175
32	4	396	397	10 277
32	5	321	322	10 279



⚠⚠ IP 67 CEE phase inverter plug AM-TOP®				
16	4	3338	3339	10 178
16	5		325	10 195
32	4	3340	3341	10 318
32	5	327	328	10 333



⚠ IP 44 CEE angled plug phase inverter VarioTOP				
16	5		859	10 186



⚠ IP 44 CEE panel mounted phase inverter inlet, flange 75 x 75 mm, fixing distance 60 x 60 mm				
16	5		854	10 124

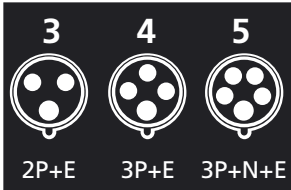


⚠ IP 44 CEE panel mounted phase inverter inlet RAPIDO, dia. 70 mm				Dimensions: page 57
16	5		937	10 160

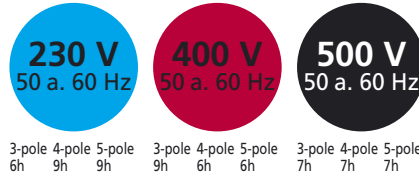
MENNEKES CEE phase inverter inlets, phase sequence test plugs

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE
POLES



STD. PACK. QTY.
WEIGHT G/EA.



⚠ IP 44 CEE wall mounted phase inverter inlet			Dimensions: page 57	
16	5	3517	10	215



⚠ IP 44 CEE wall mounted phase inverter inlet			Dimensions: page 58	
16	4	3342	3343	10 241
16	5		2511	10 250
32	4	3345	3346	10 357
32	5	3347	2478	10 378



⚠ IP 44 CEE panel mounted phase inverter inlet			Dimensions: page 58	
16	4	3357	855	10 174
16	5		329	10 176
32	4	3367	3368	10 248
32	5	913	330	10 258



⚠ IP 44 CEE panel mounted phase inverter inlet with hinged cover			Dimensions: page 58	
16	4	3348	3350	10 264
16	5		20970	10 275
32	4	3355	3356	10 349
32	5	3717	21241	10 362



⚠ IP 44 CEE phase sequence test plug to VDE 0413, part 9				
16	4	3527	3458	3459 5 169
16	5	3231	1414	5 170
32	4	3528	3460	3461 5 212
32	5	3232	1415	5 242
63	4	3420	1436	3917 5 612
63	5		1437	5 671



⚠ IP 44 CEE phase sequence test plug for container, earth-contact in 3h-position				
32	4		3718	5 212

MENNEKES CEE connectors

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



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 a. 300-500 Hz
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. QTY.
WEIGHT G/EA.



⚠ IP 44 CEE connector AM-TOP									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3	509	510	511		2441	2517	10	174
16	4	512	513	514	515	516	517	10	200
16	5	518	519	5	2026	2193	2495	10	240
16	7	Please see page 37							
32	3	521	522	523		2196	2674	10	313
32	4	524	525	526	527	528	529	10	331
32	5	530	531	6	2027	2245	2493	10	380
32	7	Please see page 37							



⚠ IP 44 CEE connector ProTOP									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3	179A	180A	181A				10	175
16	4		193A	194A	195A			10	213
16	5			15A				10	246
32	3	121	122					10	320
32	4		125	126	127			10	332
32	5			16A				10	370



⚠ IP 44 CEE connector StarTOP with SafeCONTACT									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3	979	980					10	186
16	4		993	994	965	996		10	228
16	5			35				10	250
32	5			36				10	387



⚠ IP 44 CEE connector PowerTOP with external strain relief									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3	3953	3954	3955				10	230
16	4	3956	3957	3958	3959	3960	3961	10	235
16	5	3962	3963	3964				10	279
32	3	3965	3966	3967				10	318
32	4	3968	3969	3970	3971	3972	3973	10	344
32	5	3974	3975	3976				10	422



⚠ IP 44 CEE connector PowerTOP with SoftCONTACT , with external strain relief									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
63	3	1236A	1237A	1238				5	701
63	4	1239	1240A	1241A	1242A			5	735
63	5	1243A	1244A	1245A				5	798

Products with pilot contacts: article number + index **P** (instead of **A**)

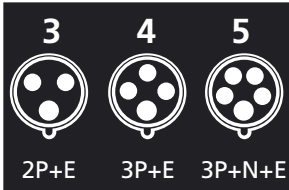


⚠ IP 44 CEE angled connector									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3		1438					10	144

MENNEKES CEE connectors

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



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 a. 300-500 Hz		
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. QTY.
WEIGHT G/EA.



IP 67 CEE connector AM-TOP									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3	539	540	541				10	191
16	4	542	543	544	545	546	547	10	222
16	5	548	549	550				10	269
16	7	Please see page 38							
32	3	551	552	553				10	357
32	4	554	555	556	557	558	559	10	402
32	5	560	561	562				10	434
32	7	Please see page 38							



IP 67 CEE connector PowerTOP , with external strain relief									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3	3859	3860	3862				10	221
16	4	3869	3873	3871	3872	3874	3866	10	262
16	5	3879	3883	3881				10	314
32	3	3887	3888	3891				10	367
32	4	3896	3899	3897	3898	3900	3894	10	379
32	5	3905	3909	3907				10	476

Products with extra earth terminal: article number + index **SY**.
For more information see page 18.



IP 67 CEE connector PowerTOP with SoftCONTACT , with external strain relief									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
63	3	1573A	1574A	1575A				5	748
63	4	1115A	1116A	1117A	1118A			5	781
63	5	1119A	1120A	1121A	3352A			5	847

Products with pilot contacts: article number + index **P** (instead of **A**).
Products with extra earth terminal: article number + index **SY** (instead of index **A**).
For more information see page 18.



IP 67 CEE connector PowerTOP with TorsionSpringCONTACT , with external strain relief									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
125	3	3389A	3390A					5	1240
125	4	1448A	1449A	1450A	1451A			5	1372
125	5	1452A	1453A	1454A	3174A			5	1514

Products with pilot contacts: article number + index **P** (instead of **A**).



IP 67 CEE connector economy range									
AMPERE	POLES	110 V	230 V	400 V	500 V	>50-500 V	>50-500 V	STD. PACK. QTY.	WEIGHT G/EA.
63	4			565				5	714
63	5			569				5	766

MENNEKES CEE plugs and receptacles 7 poles with high heat resistant contact carriers and nickel plated contacts

External dimensions to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request.



230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
7-pole 9h	7-pole 6h	7-pole 7h

STD. PACK. QTY.
WEIGHT G/EA.



⚠ IP 44 CEE wall mounted receptacle					Dimensions: page 58	
16	7	733	734	1035	10	335
32	7	735	736	1040	10	451



⚠ IP 44 CEE panel mounted receptacle					Dimensions: page 58/59	
16	7	737	738	1045	10	216
32	7	739	740	1050	10	300



⚠ IP 44 CEE plug						
16	7	741	742	1055	10	195
32	7	743	744	1060	10	298



⚠ IP 44 CEE wall mounted inlet					Dimensions: page 58/59	
16	7		2166		10	260
32	7		2167		10	430



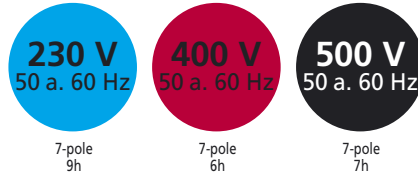
⚠ IP 44 CEE panel mounted inlet					Dimensions: page 58/59	
16	7	749	750	1075	10	204
32	7	751	752	1080	10	282



⚠ IP 44 CEE connector						
16	7	745	746	1065	10	241
32	7	747	748	1070	10	346

MENNEKES CEE plugs and receptacles 7 poles with high heat resistant contact carriers and nickel plated contacts

External dimensions to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request.



AMPERE
POLES

STD. PACK. QTY.
WEIGHT G/EA.



▲▲ IP 67 CEE wall mounted receptacle					Dimensions: page 58/59	
16	7	3240	2746	3262	10	357
32	7	2818	2648	2782	10	480



▲▲ IP 67 CEE panel mounted receptacle					Dimensions: page 58/59	
16	7	2883	2459	2296	10	240
32	7	3775	2317	2212	10	372



▲▲ IP 67 CEE plug						
16	7	3776	3777	3913	10	245
32	7	2405	2324	2213	10	349



▲▲ IP 67 CEE panel mounted inlet with protective cover					Dimensions: page 58/59	
16	7	3779	3914	3780	10	326
32	7	3781	3915	3782	10	436



▲▲ IP 67 CEE connector						
16	7	3783	3916	3784	10	265
32	7	2406	2255	2460	10	355

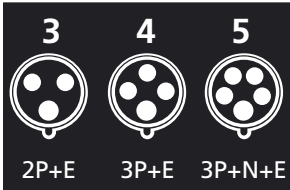


▲▲ IP 67 CEE wall mounted receptacle switched, with mechanical DUO -interlock					Dim.: page 59	
16	7		7306	(5785ZA)	6-pole	1 1360
32	7		7307	(6106ZB)	6-pole	1 1625

MENNEKES CEE receptacles, switched, interlocked

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300- 500 Hz
		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. QTY.
WEIGHT G/EA.



⚠ IP 44 CEE wall mounted receptacle switched, with mechanical DUO-interlock							Dim.: page 59
16	3	7010AA ¹⁾	7002AA ¹⁾				1 994
16	4	5457A	5099A	5100AA ¹⁾	5101A		1 1000
16	5	5459A	5102A	5103AA ¹⁾			1 1026
32	3	5743AA ¹⁾	5696AA ¹⁾				1 1100
32	4	5460A	5104A	5105AA ¹⁾	5106A		1 1144
32	5	5462A	5107A	5108AA ¹⁾			1 1200

¹⁾only 2 x M25 at the top



⚠ IP 44 CEE wall mounted receptacle switched, with mechanical DUO-interlock with SoftCONTACT							Dim.: page 59
63	3	6569	6571				3 2260
63	4		5955A	5956A	5957A		3 2305
63	5			5959A			3 2530



⚠ IP 44 CEE wall mounted receptacle switched, with mechanical DUO-interlock							Dim.: page 59
16	3	7273	7274				5 632
16	4		7380	7275			5 700
16	5			7276			5 750



⚠ IP 44 CEE panel mounted receptacle switched, with mechanical DUO-interlock recessed type							Dim.: page 59
16	3	7265	7266				5 413
16	4		7382	7267			5 493
16	5			7268			5 532



⚠ IP 67 CEE wall mounted receptacle switched, with mechanical DUO-interlock							Dim.: page 59
16	3	7011AA ¹⁾	7012AA ¹⁾				1 1010
16	4		5599A	5600AA ¹⁾	5601A		1 1032
16	5		5602A	5603AA ¹⁾			1 1064
32	3	5924AA ¹⁾	5793AA ¹⁾				1 1150
32	4		5604A	5605AA ¹⁾	5606A		1 1180
32	5		5607A	5608AA ¹⁾			1 1230

¹⁾only 2 x M25 at the top



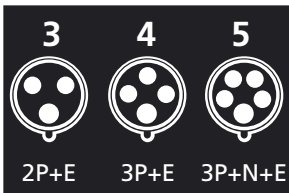
⚠ IP 67 CEE wall mounted receptacle switched, with mechanical DUO-interlock with SoftCONTACT							Dim.: page 60
63	3	5925A	5911A				3 2346
63	4		5109A	5110A	5111A		3 2360
63	5		5112A	5113A	5759A		3 2578

Many of the products shown on this page can be equipped with auxiliary contacts – ask for separate leaflet.

MENNEKES CEE receptacles, switched, interlocked

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	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 a. 300-500 Hz											
	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. QTY.
WEIGHT G/EA.



▲▲ IP 67 CEE wall mounted receptacle switched, with mechanical DUO-interlock with TorsionSpringCONTACT Dim.: page 60

125	3	7060	7000				1	7200
125	4		5887A	5691A	5690A		1	7817
125	5		5888A	5692A			1	8388



▲▲ IP 67 CEE wall mounted receptacle switched, with mechanical DUO-interlock Dim.: page 60

16	3	7277	7278				5	645
16	4		7381	7279			5	673
16	5			7280			5	710



▲▲ IP 67 CEE panel mounted receptacle switched, with mechanical DUO-interlock recessed type Dim.: page 60

16	3	7269	7270				5	557
16	4		7383	7271			5	582
16	5			7272			5	607



Dimensions: page 60

▲▲ IP 67 CEE receptacle switched, interlocked, protected by 1 RCD 30mA

110V 16A 2P+E	52210
230V 16A 2P+E	51392
400V 16A 3P+E	24202
400V 16A 3P+N+E	24203
110V 32A 2P+E	52211
230V 32A 2P+E	24204
400V 32A 3P+E	24205
400V 32A 3P+N+E	24206



Dimensions: page 60

▲▲ IP 67 CEE receptacle switched, interlocked, protected by 1 RCD 30mA / 1 MCB

110V 16A 2P+E	52213
230V 16A 2P+E	51393
400V 16A 3P+E	24242
400V 16A 3P+N+E	24243
110V 32A 2P+E	52214
230V 32A 2P+E	24244
400V 32A 3P+E	24245
400V 32A 3P+N+E	24246



Dimensions: page 60

▲▲ IP 67 CEE receptacle switched, interlocked, protected by 1 RCD 30mA

110V 63A 2P+E	52212
230V 63A 2P+E	24207
400V 63A 3P+E	24208
400V 63A 3P+N+E	24209



Dimensions: page 60

▲▲ IP 67 CEE receptacle switched, interlocked, protected by 1 RCD 30mA / 1 MCB

110V 63A 2P+E	52215
230V 63A 2P+E	24247
400V 63A 3P+E	24248
400V 63A 3P+N+E	24249



Dimensions: page 60

▲▲ IP 67 CEE receptacle switched, interlocked, protected by 1 RCD 30mA

230V 125A 2P+E	52030
400V 125A 3P+E	52031
400V 125A 3P+N+E	52032



Dimensions: page 60

▲▲ IP 67 CEE receptacle switched, interlocked, protected by 1 RCD 100mA

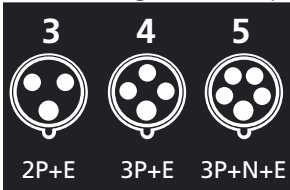
230V 125A 2P+E	52033
400V 125A 3P+E	52034
400V 125A 3P+N+E	52035

MENNEKES CEE receptacles and combinations with high resistance to chemicals

to DIN VDE 0623, EN 60309-2. Colour: Grey RAL 7000 and code colour.

Enclosure made of **Amelan, high heat resistant contact carriers and nickel plated contacts.**

Other voltages and frequencies available on request.



AMPERE

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

STD. PACK. QTY.

WEIGHT G/EA.



IP67 CEE wall mounted receptacle, top and bottom entry Dimensions: page 60

AMPERE	POLES	110 V	230 V	400 V	500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3	3767 (1192VA)				10	245
16	4			3768 (1196VA)		10	298
16	5			3769 (1200VA)		10	342
32	3	3770 (1202VA)				10	380
32	4			3771 (1206VA)		10	390
32	5			3772 (1201VA)		10	450



IP67 CEE wall mounted receptacle, SoftCONTACT, top and bottom entry Dim.: page 60/61

AMPERE	POLES	110 V	230 V	400 V	500 V	STD. PACK. QTY.	WEIGHT G/EA.
63	4			3773 (132VA)		5	920
63	5			3774 (136VA)		5	970

Products with pilot contacts: article number + index P)



IP67 CEE wall mounted receptacle switched, with mechanical DUO-interlock Dim.: page 59

AMPERE	POLES	110 V	230 V	400 V	500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3	7283 (7012VA)				1	1060
16	4			7284 (5600VA)		1	1110
16	5			7285 (5603VA)		1	1150
32	3	7286 (5793VA)				1	1165
32	4			7287 (5605VA)		1	1180
32	5			7288 (5608VA)		1	1230



IP67 CEE wall mounted receptacle switched, with mechanical DUO-interlock with SoftCONTACT Dim.: page 60

AMPERE	POLES	110 V	230 V	400 V	500 V	STD. PACK. QTY.	WEIGHT G/EA.
63	4			7289 (5110VA)		3	2530
63	5			7290 (5113VA)		3	2660



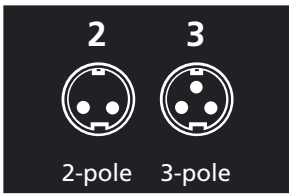
IP67 CEE wall mounted receptacle Dimensions: page 61

AMPERE	POLES	110 V	230 V	400 V	500 V	STD. PACK. QTY.	WEIGHT G/EA.
16	3	52113VA				1	1060
16	4			52114VA		1	1110
16	5			52115VA		1	1150
32	3			52116VA		1	1165
32	4			52117VA		1	1180
32	5			52118VA		1	1230

MENNEKES CEE wall and panel mounted receptacles for low voltage

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	Voltage and Frequency Options						STD. PACK. QTY.	WEIGHT G/EA.
		20-25 V 50 a. 60Hz	40-50 V 50 a. 60Hz	20-25 V 40-50 V 100-200 Hz	20-25 V 40-50 V 300 Hz	20-25 V 40-50 V 400 Hz	20-25 V 40-50 V 400-500 Hz		
-	-	-	12h	4h	2h	3h	11h	10h	



⚠ IP 44 CEE wall mounted receptacle								Dimensions: page 60/61		
16	2	1825	1831					1829	10	189
16	3	1832	1837	1835					10	209
32	2	1838	1844					1842	10	189
32	3	1845	1850	1848					10	209



⚠ IP 44 CEE wall mounted receptacle								Dimensions: page 60/61		
16	2	577	578					583	10	260
16	3	584	585	586					10	275
32	2	590	591					596	10	260
32	3	597	598	599					10	275



⚠ IP 44 CEE panel mounted receptacle								Dimensions: page 60/61		
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



⚠ IP 44 CEE panel mounted receptacle								Dimensions: page 60/61		
16	2	1602	1603					2617A	10	126
16	3	1657	1661	1823					10	147
32	2	1693	3290					2488A	10	128
32	3	1694	1695	1579					10	138

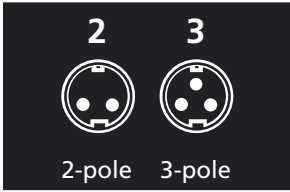


⚠ IP 44 CEE panel mounted receptacle								Dimensions: page 60/61		
16	2	1270	2855					2841	10	125
16	3	2845	1272	2860					10	143
32	2	1271	2864					2869	10	125
32	3	2870	1273	2852					10	143

MENNEKES CEE plugs, connectors and inlets for low voltage

to DIN VDE 0623, EN 60309-2.

Other voltages and frequencies available on request.



AMPERE	POLES	Voltage and Frequency						STD. PACK. QTY.	WEIGHT G/EA.
		20-25 V 50 a. 60Hz	40-50 V 50 a. 60Hz	20-25 V 40-50 V 100-200 Hz	20-25 V 40-50 V 300 Hz	20-25 V 40-50 V 400 Hz	20-25 V 40-50 V 400-500 Hz		
		-	12h	4h	2h	3h	11h	10h	



⚠ IP 44 CEE plug with cable sleeve										
16	2	629A	630A					635A	10	140
16	3	636A	637A	638A					10	153
32	2	642A	643A					648A	10	141
32	3	649A	650A	651A					10	155



⚠ IP 44 CEE plug with cable gland										
16	2	655A	656A					661A	10	163
16	3	662A	663A	664A					10	175
32	2	668A	669A					674A	10	163
32	3	675A	676A	677A					10	177



⚠ IP 44 CEE connector with cable sleeve										
16	2	681A	682A					687A	10	186
16	3	688A	689A	690A					10	205
32	2	694A	695A					700A	10	184
32	3	701A	702A	703A					10	205



⚠ IP 44 CEE connector with cable gland										
16	2	707A	708A					713A	10	208
16	3	714A	715A	716A					10	227
32	2	720A	721A					726A	10	208
32	3	727A	728A	729A					10	227



⚠ IP 44 CEE wall mounted inlet										
16	2	1955	1961					1959	10	144
16	3	1962	1967	1965					10	159
32	2	1968	1974					1972	10	145
32	3	1975	1980	1978					10	166

Dimensions: page 61

MENNEKES® receptacle combinations

MENNEKES® receptacle combinations are available tailor made in size and equipment to your individual specification.

Robust cases, fitted with CEE receptacles, capable of withstanding the stresses imposed during insertion and withdrawal of the plugs.

Wiring looms consisting of cables, of sufficient cross sectional area, either fitted

with end ferrules or cable lugs or the ends are ultrasonically welded.

Combination units incorporating isolators can be equipped with auxiliary contacts to order. Ask for a special leaflet.

The illustration to the right is only one of many possibilities. Please provide us with your specification for a quotation.



MENNEKES RCD combinations included in this catalogue, are fitted, as standard, with residual current devices having a rated tripping current of 30 mA, which will provide

a high degree of protection against electrocution, to a human being, in an accidental shock situation. Residual current devices having a rated tripping current of

100 mA or 300 mA are available to special order. It should be noted that a residual current device having a rated tripping current of 300 mA will not provide protection,

to a human being, against electrocution. Unless otherwise specified 110V 3P sockets will be protected by double pole MCB's and 230V 3P sockets by single pole MCB's.

MENNEKES receptacle combinations, ready wired for installation

All enclosures used in the manufacture of MENNEKES receptacle combinations are moulded from high grade thermoplastic materials which combine excellent insulation properties with strength and durability. They are fire resistant, i.e. self extinguishing, and

dimensionally stable in extremes of temperature. CEE receptacles equipped with fully shrouded terminals, are fitted as stated. Where corrosion resistant metal screws are used to secure these receptacles to the enclosure an insulated metal nut is

utilised to ensure that the screw cannot be made live from within the enclosure. All cables used for the internal wiring are properly sized and ferruled or ultrasonically welded to ensure that the terminal screws do not damage the conductors.

Residual current devices and miniature circuit breakers used to provide earth leakage, short circuit and over-current protection are rated in accordance with the following specification.

Socket-outlet rated current	RCD rated current	Rated tripping current	MCB rating
16 amps	25 amps	30 m/ amps	16 amps
32 amps	40 amps	30 m/ amps	32 amps
63 amps	63 amps	30 m/ amps	63 amps



⚠ IP44 CEE receptacle protected by 1 RCD 30mA
 110V 16A 2P+E **50974**
 230V 16A 2P+E **50975**

Dimensions: page 59



⚠ IP44 CEE receptacle protected by 1 RCD 30mA
 110V 32A 2P+E **50984**
 230V 32A 2P+E **50985**

Dimensions: page 59



Dimensions: Page 61

⚠ IP44 CEE receptacle protected by 1 RCD 30mA
 110V 16A 2P+E **52060**
 230V 16A 2P+E **52061**
 230V 13A 2P+E **52062**
 400V 16A 3P+E **52072**
 400V 16A 3P+N+E **52073**



Dimensions: Page 61

⚠ IP44 CEE receptacle protected by 1 RCD 30mA and 1 MCB
 110V 16A 2P+E **52090**
 230V 16A 2P+E **52091**



Dimensions: Page 61

⚠ IP44 CEE receptacle protected by 1 RCD 30mA
 110V 16A 2P+E **52111**
 230V 16A 2P+E **24193**
 400V 16A 3P+E **24194**
 400V 16A 3P+N+E **24195**
 110V 32A 2P+E **52120**
 230V 32A 2P+E **24196**
 400V 32A 3P+E **24197**
 400V 32A 3P+N+E **24198**



Dimensions: Page 61

⚠ IP44 CEE receptacle protected by 1 RCD 30mA and 1 MCB
 110V 16A 2P+E **52131**
 230V 16A 2P+E **24233**
 400V 16A 3P+E **24234**
 400V 16A 3P+N+E **24235**
 110V 32A 2P+E **52140**
 230V 32A 2P+E **24236**
 400V 32A 3P+E **24237**
 400V 32A 3P+N+E **24238**



Dimensions: Page 61

⚠ IP44 CEE receptacle protected by 1 RCD 30mA
 110V 63A 2P+E **52151**
 230V 63A 2P+E **52152**
 400V 63A 3P+E **52153**
 400V 63A 3P+N+E **52154**

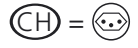
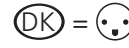
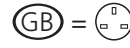
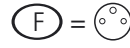


Dimensions: Page 61

⚠ IP44 CEE receptacle protected by 1 RCD 30mA and 1 MCB
 110V 63A 2P+E **52155**
 230V 63A 2P+E **52156**
 400V 63A 3P+E **52157**
 400V 63A 3P+N+E **52158**

MENNEKES receptacle combinations, ready wired for installation

Combinations can also be supplied with SCHUKO® type receptacles 16A, 230V, 2P+E or French/Belgian, British, Danish and Swiss standards:



Dimensions: Page 61

▲▲ IP67 CEE receptacle protected by 1 RCD 30mA	
110V 16A 2P+E	52112
230V 16A 2P+E	52113
400V 16A 3P+E	52114
400V 16A 3P+N+E	52115
110V 32A 2P+E	52121
230V 32A 2P+E	52116
400V 32A 3P+E	52117
400V 32A 3P+N+E	52118



Dimensions: Page 61

▲▲ IP67 CEE receptacle protected by 1 RCD 30mA and 1 MCB	
110V 16A 2P+E	52132
230V 16A 2P+E	52133
400V 16A 3P+E	52134
400V 16A 3P+N+E	52135
110V 32A 2P+E	52141
230V 32A 2P+E	52136
400V 32A 3P+E	52137
400V 32A 3P+N+E	52138



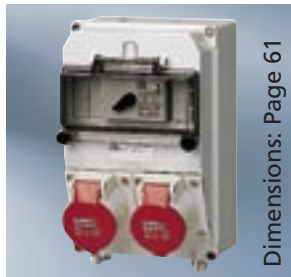
Dimensions: Page 61

▲▲ IP67 CEE receptacle protected by 1 RCD 30mA	
110V 63A 2P+E	52119
230V 63A 2P+E	24199
400V 63A 3P+E	24200
400V 63A 3P+N+E	24201



Dimensions: Page 61

▲▲ IP67 CEE receptacle protected by 1 RCD 30mA and 1 MCB	
110V 63A 2P+E	52139
230V 63A 2P+E	24239
400V 63A 3P+E	24240
400V 63A 3P+N+E	24241



Dimensions: Page 61

▲ IP44 two CEE receptacles protected by 1 RCD 30mA	
110V 16A 2P+E	52063
230V 16A 2P+E	52064
230V 13A 2P+E	52065
400V 16A 3P+E	52076
400V 16A 3P+N+E	52077
110V 32A 2P+E	52078
230V 32A 2P+E	52079
400V 32A 3P+E	52080
400V 32A 3P+N+E	52081



Dimensions: Page 61

▲ IP44 two CEE receptacles protected by 1 RCD 30mA and 1 MCB	
110V 16A 2P+E	52093
230V 16A 2P+E	52094
230V 13A 2P+E	52095
400V 16A 3P+E	52096
400V 16A 3P+N+E	52097
110V 32A 2P+E	52098
230V 32A 2P+E	52099
400V 32A 3P+E	52100
400V 32A 3P+N+E	52101



Dimensions: Page 61

▲ IP44 two CEE receptacles protected by 2 RCD's 30mA	
110V 16A 2P+E	52067
230V 16A 2P+E	52068
230V 13A 2P+E	52069
400V 16A 3P+E	52082
400V 16A 3P+N+E	52083
110V 32A 2P+E	52084
230V 32A 2P+E	52085
400V 32A 3P+E	52086
400V 32A 3P+N+E	52087



Dimensions: Page 61

▲ IP44 two CEE receptacles protected by 1 RCD 30 mA and 2 MCB's	
110V 16A 2P+E	52102
230V 16A 2P+E	52103
230V 13A 2P+E	52104
110V 32A 2P+E	52105
230V 32A 2P+E	52106



Dimensions: Page 61

▲▲ IP67 two CEE receptacles protected by 1 RCD 30mA	
110V 16A 2P+E	52122
230V 16A 2P+E	52123

▲▲ IP67 two CEE receptacles protected by 2 RCD's 30mA	
110V 16A 2P+E	52124
230V 16A 2P+E	52125



Dimensions: Page 61

▲▲ IP67 two CEE receptacles protected by 1 RCD 30 mA and 1 MCB	
110V 16A 2P+E	52142
230V 16A 2P+E	52143

▲▲ IP67 two CEE receptacles protected by 2 RCD's 30 mA and 1 MCB	
110V 16A 2P+E	52144
230V 16A 2P+E	52145



Dimensions: Page 61

▲ IP44 CEE receptacle protected by 1 MCB	
110V 16A 2P+E	52170
230V 16A 2P+E	52171
400V 16A 3P+E	52172
400V 16A 3P+N+E	52173
110V 32A 2P+E	52174
230V 32A 2P+E	52175
400V 32A 3P+E	52176
400V 32A 3P+N+E	52177



Dimensions: Page 61

▲▲ IP67 CEE receptacle protected by 1 MCB	
110V 16A 2P+E	52190
230V 16A 2P+E	52191
400V 16A 3P+E	52192
400V 16A 3P+N+E	52193
110V 32A 2P+E	52194
230V 32A 2P+E	52195
400V 32A 3P+E	52196
400V 32A 3P+N+E	52197

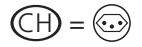
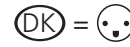
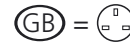
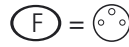
MENNEKES receptacle combinations, ready wired for installation

MENNEKES EverGUM receptacle combinations, wall mounted

MENNEKES EverGUM receptacle combinations, portable

Solid rubber enclosure, **signal yellow**, ready wired for installation.

Combinations can also be supplied with SCHUKO® type receptacles 16A, 230V, 2P+E or French/Belgian, British, Danish and Swiss standards:



Dimensions: page 61

▲ IP44 two CEE receptacles protected by 2 MCB's	
110V 16A 2P+E	52180
230V 16A 2P+E	52181
400V 16A 3P+E	52182
400V 16A 3P+N+E	52183
110V 32A 2P+E	52184
230V 32A 2P+E	52185
400V 32A 3P+E	52186
400V 32A 3P+N+E	52187



Dimensions: page 61

▲ IP67 two CEE receptacles protected by 2 MCB's	
110V 16A 2P+E	52200
230V 16A 2P+E	52201



Dimensions: page 60

▲▲ IP67 CEE receptacle switched, interlocked, protected by 1 RCD 30 mA	
110V 16A 2P+E	52210
230V 16A 2P+E	51392
400V 16A 3P+E	24202
400V 16A 3P+N+E	24203
110V 32A 2P+E	52211
230V 32A 2P+E	24204
400V 32A 3P+E	24205
400V 32A 3P+N+E	24206



Dimensions: page 60

▲▲ IP67 CEE receptacle switched, interlocked, protected by 1 RCD 30 mA and 1 MCB	
110V 16A 2P+E	52213
230V 16A 2P+E	51393
400V 16A 3P+E	24242
400V 16A 3P+N+E	24243
110V 32A 2P+E	52214
230V 32A 2P+E	24244
400V 32A 3P+E	24245
400V 32A 3P+N+E	24246



Dimensions: page 60

▲▲ IP67 CEE receptacle switched, interlocked, protected by 1 RCD 30 mA	
110V 63A 2P+E	52212
230V 63A 2P+E	24207
400V 63A 3P+E	24208
400V 63A 3P+N+E	24209



Dimensions: page 60

▲▲ IP67 CEE receptacle switched, interlocked, protected by 1 RCD 30 mA and 1 MCB	
110V 63A 2P+E	52215
230V 63A 2P+E	24247
400V 63A 3P+E	24248
400V 63A 3P+N+E	24249



Dimensions: page 60

▲▲ IP67 CEE receptacle switched, interlocked, protected by 1 RCD 30 mA	
230V 125A 2P+E	52030
400V 125A 3P+E	52031
400V 125A 3P+N+E	52032



Dimensions: page 60

▲▲ IP67 CEE receptacle switched, interlocked, protected by 1 RCD 100 mA	
230V 125A 2P+E	52033
400V 125A 3P+E	52034
400V 125A 3P+N+E	52035



EverGUM combination, wall mounted
▲ IP44 Enclosure: 380x320x200 mm
2 CEE receptacles 16A, 400V, 5P
2 CEE receptacles 32A, 400V, 5P

Fuse/protection:
2 MCBs 16A, 3P, "C"
2 MCBs 32A, 3P, "C"
1 RCD 63A, I_{ΔN} = 0.03A

70013



EverGUM combination, portable
▲ IP44 Enclosure: 445x135x95 mm
3 CEE receptacles 16A, 400V, 5P
Supply cable 2m H07RN-F5G2,5 with CEE plug 16A, 400V, 5P

70029



EverGUM combination, portable
▲ IP44 Enclosure: 306x230x287 mm
2 CEE receptacles 16A, 400V, 5P
1 CEE receptacle 32A, 400V, 5P
4 SCHUKO® receptacles 16A, 230V, 2P+E
Fuse/protection: 2 Neozed D01, 3P
2 Neozed D01, 1P
Supply cable 2m H07RN-F5G4 with CEE plug 32A, 400V, 5P

70433



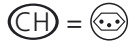
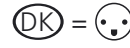
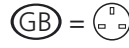
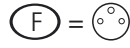
EverGUM combination, portable
▲ IP44 Enclosure: 445x135x95 mm
2 CEE receptacles 16A, 110V, 3P
Fuse/protection:
1 RCD 25A, 2P, I_{ΔN} = 0.03A,

52650

Details of complete EverGUM range available on request.

MENNEKES receptacle strips, ready wired for installation

Combinations can also be supplied with SCHUKO® type receptacles 16A, 230V, 2P+E or French/Belgian, British, Danish and Swiss standards:



⚠ IP44 two CEE receptacles protected by 1 RCD 30mA
 110V 16A 2P+E **52000**
 230V 16A 2P+E **52002**
 230V 13A 2P+E **52004**

Dimensions: Page 61



⚠ IP44 three CEE receptacles protected by 1 RCD 30mA
 110V 16A 2P+E **52001**
 230V 16A 2P+E **52003**
 230V 13A 2P+E **52005**
 400V 16A 3P+N+E **95472**

Dimensions: Page 61



⚠ IP44 two CEE receptacles protected by 2 RCD's 30mA
 110V 16A 2P+E **52007**
 230V 16A 2P+E **52008**
 230V 13A 2P+E **52009**

Dimensions: Page 61



⚠ IP44 three CEE receptacles protected by 1 RCD 30mA fitted c/w 2m cable and 16A plug
 110V 16A 2P+E **52018**
 230V 16A 2P+E **52019**

Dimensions: Page 61



⚠ IP44 two CEE receptacles protected by 1 RCD 30mA and 1 MCB
 110V 16A 2P+E **52011**
 230V 16A 2P+E **52013**

Dimensions: Page 61



⚠ IP44 three CEE receptacles protected by 1 RCD 30mA and 1 MCB
 110V 16A 2P+E **52012**
 230V 16A 2P+E **52014**

Dimensions: Page 61



⚠ IP44 two CEE receptacles protected by 1 MCB
 110V 16A 2P+E **52020**
 230V 16A 2P+E **52021**

Dimensions: Page 61



⚠ IP44 three CEE receptacles protected by 1 MCB
 110V 16A 2P+E **52024**
 230V 16A 2P+E **52025**

Dimensions: Page 61



⚠ IP44 two CEE receptacles protected by 2 MCB's
 110V 16A 2P+E **52022**
 230V 16A 2P+E **52023**

Dimensions: Page 61

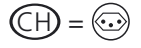
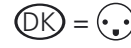
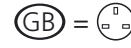
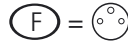


⚠ IP44 three CEE receptacles protected by 3 MCB's
 230V 16A 2P+E **52026**

Dimensions: Page 61

MENNEKES receptacle strips, ready wired for installation

Combinations can also be supplied with SCHUKO® type receptacles 16A, 230V, 2P+E or French/Belgian, British, Danish and Swiss standards:



⚠ IP44 three CEE receptacles with terminal strip 3 x 10mm²
110V 16A 2P+E **96227**
230V 16A 2P+E **96489**

Dimensions: Page 61



⚠ IP44 three CEE receptacles with terminal strip 3 x 10mm²
24V 16A 2P **93286**
24V 16A 3P **92890**

Dimensions: Page 61



⚠ IP44 three CEE receptacles with terminal strip 5 x 10mm²
400V 16A 3P+E **92889**
400V 16A 3P+N+E **96705**

Dimensions: Page 61



⚠ IP44 three SCHUKO® receptacles with terminal strip 3 x 10mm²
230V 16A 2P+E **95996**

Dimensions: Page 61

MENNEKES multiples, ready wired for installation



⚠ IP44 two angled receptacles wired to terminal block
110V 16A 2P+E **52240**
230V 16A 2P+E **52241**

Dimensions: page 60



⚠ IP44 two straight receptacles wired to terminal block
110V 16A 2P+E **52242**
230V 16A 2P+E **52243**
400V 16A 3P+E **52244**
400V 16A 3P+N+E **52245**

Dimensions: page 60

MENNEKES multiples unwired

Supplied with PE terminal and provision for the fixing of a terminal block if required.



⚠ IP44 two angled CEE receptacles unwired
110V 16A 2P+E **94867**
230V 16A 2P+E **94866**

Dimensions: page 60







⚠ IP44 two straight receptacles unwired
110V 16A 2P+E **94865**
230V 16A 2P+E **94864**
400V 16A 3P+E **92463**
400V 16A 3P+N+E **96462**

Dimensions: page 60

MENNEKES AMAPLAST enclosures

Colour: electric grey. On request with holes for cable entries

	EXTERNAL DIMENSIONS mm	INTERNAL DIMENSIONS mm		CAT. NO.	PROTECTION TYPE	PACKING	WEIGHT G/EA.
	AMAPLAST enclosure						
	170x118x64	158x108x55	Box	10176	☹ IP67	as required	335
			Baseplate	10177			50
	170x118x96	158x108x85	Box	10178	☹ IP67	as required	392
			Baseplate	10177			50
	245x161x101	230x145x85	Box	10179	☹ IP44	as required	660
		Baseplate	10180		80		
341x172x107	320x152x95	Box	10181	☹ IP44	as required	920	
		Baseplate	10182			110	
	AMAPLAST enclosure						
	245x161x151	230x145x137	Box without hinge	10696	☹ IP44	as required	839
			Baseplate	10180			80
	245x161x116	230x145x102	Box with hinge	10757	☹ IP44	as required	725
			Baseplate	10180			80
	341x172x149	320x152x135	Box without hinge	10679	☹ IP44	as required	1035
		Base plate	10182		110		
341x172x149	320x152x135	Box with hinge	10758	☹ IP44	as required	1045	
		Baseplate	10182			110	
	AMAPLAST enclosure						
	264x163x126	250x150x110	Box	10183	☹ IP67	as required	1138
			Baseplate	10184			125
	264x163x126	250x150x110	Box cover / base*	10185	☹ IP67	as required	1138
		Baseplate	10184		125		
	AMAPLAST enclosure						
	460x180x148	406x126x131	Box	10441	☹ IP67	as required	2095
			Baseplate**	10443			410
	460x180x148	406x126x131	Box cover / base*	10442	☹ IP67	as required	2095
			Baseplate**	10443			410
	460x260x150	441x195x128	Box	10186	☹ IP67	as required	2900
			Baseplate	10187			550
	460x260x150	441x195x128	Box cover / base*	10188	☹ IP67	as required	2900
		Baseplate	10187		550		
460x260x228	437x194x208	Box	10189	☹ IP67	as required	3450	
		Baseplate	10187			550	

* Colour: Transparent / Electric grey

** Metal zinced

MENNEKES hinged windows AMAPLAST plus accessories

On demand padlockable hinged windows are available. Please contact us.

SIZE	FRAME COLOUR	WINDOW	CAT. NO.	PACKING	WEIGHT G/EA.
Hinged windows with protective cover, with knurled screws ▲▲ IP67					
 6 modules (17.5 mm)	Electric grey	Smoked	40986	as required	139
8 modules (17.5 mm)	Electric grey	Smoked	40979		169
12 modules (17.5 mm)	Electric grey	Smoked	40981		215
▲▲ IP67					
Installation kit for hinged window with protective cover for fitting modules in doors and enclosure covers					
 6 modules (for hinged window 40986)			41431	as required	99
8 modules (for hinged window 40979)			41432		113
12 modules (for hinged window 40981)			41433		141
Hinged windows without protective cover, with knurled screws ▲▲ IP67					
 6 modules	Electric grey	Smoked	40985	as required	108
8 modules	Electric grey	Smoked	40978		119
12 modules	Electric grey	Smoked	40980		158
▲▲ IP67					
Hinged window with knurled screws					
 2 modules without protective cover	Electric grey	Smoked	40444	as required	43
5 modules without protective cover ¹⁾	Electric grey	Smoked	40871		68
5 modules with protective cover ▲ IP44 ¹⁾	Electric grey	Smoked	40243		94
¹⁾ without springs to close window automatically					
▲ IP44					
Locking device with padlock for padlocking of the hinged window on MENNEKES receptacle combination units with small and middle enclosure sizes.					
	article number	41501			

MENNEKES SCHUKO® receptacles, plugs, connectors and receptacle strips, AMAPLAST

to DIN 49440-1, 16A, 230V~, 2P+E

	COLOUR	CURRENT	VOLTAGE AC	ARTICLE. NO.	STD. PACK. QTY.	WEIGHT G/EA.
	SCHUKO® panel mounted receptacle with plug in terminals			Dimensions: page 61		
	Grey	16	230	11010	100	41
	Blue	16	230	11011	20	41
	Black	16	230	11012	100	41
	Red	16	230	11013	100	41
	Panel mounted receptacle, French/Belgian norm with plug in terminals			Dimensions: page 61		
	Grey	16	230	11110	100	41
	Blue	16	230	11111	100	44
	Panel mounted receptacle, Danish norm with plug in terminals			Dimensions: page 61		
	Grey	16	230	11200	100	41
	SCHUKO® receptacle wall mounted with plug in terminals			Dimensions: page 61		
	Grey	16	230	10081	10	86
	Blue	16	230	10082	10	86
	Black	16	230	10083	10	86
	SCHUKO® plug					
	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
	SCHUKO® connector					
	Grey	16	230	10751	10	83
	Black	16	230	10755	10	83
	Orange	16	230	10842	10	83
	Blue	16	230	10843	10	83
	Red	16	230	10844	10	83
	Yellow	16	230	10845	10	83
	Green	16	230	10846	20	83
	SCHUKO® receptacle strip c/w terminal and strain relief, ready wired, supplied with hanging clip			length 331 mm, width 80 mm, height 68 mm		
	with 3 SCHUKO® receptacles	16	230V	96700	1	439
	with 4 SCHUKO® receptacles	16	230V	88678	1	503

MENNEKES CEE plugs and receptacles for containers with high heat resistant contact carriers and nickel plated contacts

Ground contact at 3 o'clock position conforming to DIN VDE 0623, EN 60309-2. Other versions available on request.



CURRENT
POLES
STD. PACK. QTY.
WEIGHT G/EA.

400 V
50 a. 60 Hz

3h



▲▲ IP67 CEE wall mounted receptacle
32 4 2644 10 396

Dimensions page 60



▲▲ IP67 CEE wall mounted receptacle switched, mechanical **DUO**-interlock
32 4 5792A 1 1180

Dimensions page 59



▲▲ IP67 CEE wall mounted receptacle switched, mechanical **DUO**-interlock with DIN rail
32 4 5946A 2 2070

Dimensions page 60



▲▲ IP67 CEE panel mounted receptacle
32 4 2123A 10 293

Dimensions page 54/55



▲▲ IP67 CEE plug **AM-TOP**[®]
32 4 2175A 10 313



▲▲ IP67 CEE connector **AM-TOP**[®]
32 4 2177A 10 302



On site planning and consultation means that container receptacle combinations can be tailored to individual applications with regard to size and fittings.

The pictures above present only two variations of the large number of combinations available. Please do not hesitate to call us for information and advice.



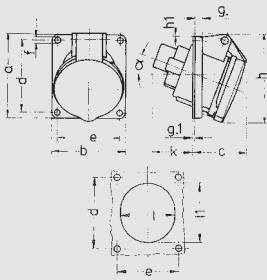
▲▲ IP67 CEE plug **PowerTOP** with cable gland and external cable grip and grommet. Contact pins sealed with gaskets.
32 4 2600 10 324



No water ingress even after extended immersion.

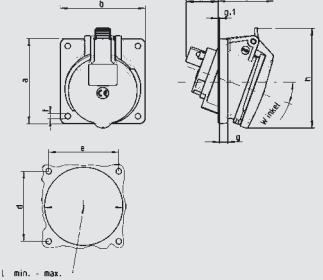
Drawings and dimensions

Page 22 Fig. 1, Page 24 Fig. 1

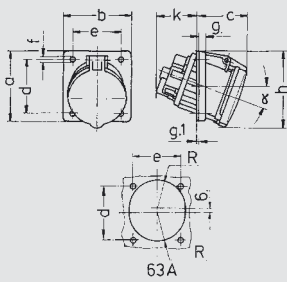


Drawing	Amp. Pole	16			32		
		3	4	5	3	4	5
Dim. in mm	a	73,5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	58	58	62	62	62
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5,3	5,3	5,3	5,3	5,3	5,3
	g	7	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	79	105	105	107	107	112
	h1	1	—	—	—	—	—
	k	41	41	41	51	51	52
	l	52	60	65	70	70	73
	l1	60	65	72	82	82	85
α	20°	20°	20°	20°	20°	20°	
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

Page 22 Fig. 6

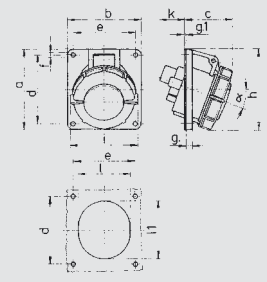


Page 22 Fig. 2

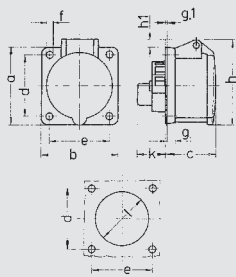


Drawing	Amp. Pole	63		
		3	4	5
Dim. in mm	a	110	110	110
	b	106	106	106
	c	85	85	85
	d	85	85	85
	e	77	77	77
	f	6,2	6,2	6,2
	g	12	12	12
	g.1	2	2	2
	h	122	122	122
	k	69	69	69
	R	46	46	46
	α	20°	20°	20°
	Cond. cross section (mm ²) min. - max.		6	6
		-25	-25	-25

Page 23 Fig. 1, Page 24 Fig. 3

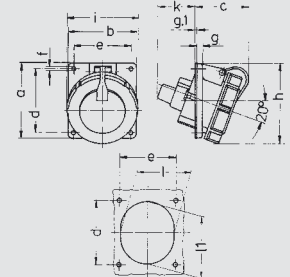


Page 22 Fig. 3, Page 24 Fig. 2

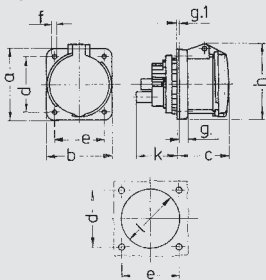


Drawing	Amp. Pole	16			32		
		3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	54	54	54	64	64	64
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	68	77	85	89	89	95
	h1	1	5	9	12	12	12
	k	28	28	28	32	32	32
	l	50	54	57	62	62	65
	Cond. cross section (mm ²) min. - max.		1,5	1,5	1,5	2,5	2,5
		-4	-4	-4	-10	-10	-10

Page 23 Fig. 2

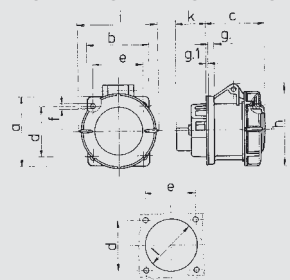


Page 22 Fig. 4

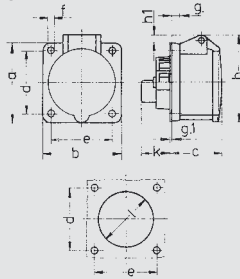


Drawing	Amp. Pole	63			
		3	4	5	
Dim. in mm	a	107	107	107	
	b	100	100	100	
	c	80	80	80	
	d	85	85	85	
	e	77	77	77	
	f	6	6	6	
	g	12	12	12	
	g.1	2	2	2	
	h	113	113	113	
	k	55	55	55	
	l	88	88	88	
	Cond. cross section (mm ²) min. - max.		6	6	6
			-25	-25	-25

Page 23 Fig. 3, Page 24 Fig. 4, Page 53 Fig. 4

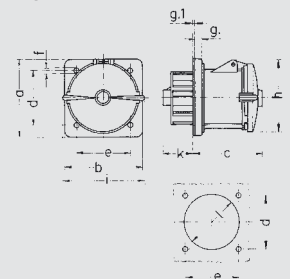


Page 22 Fig. 5a

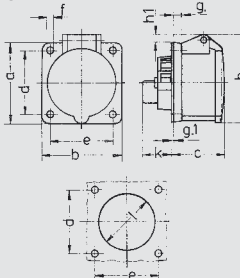


Drawing	Amp. Pole	16			Mini flange socket
		3	4	5	
Dim. in mm	a	55	—	—	
	b	55	—	—	
	c	54	—	—	
	d	45	—	—	
	e	45	—	—	
	f	5,5	—	—	
	g	8	—	—	
	g.1	2	—	—	
	h	70	—	—	
	h1	12	—	—	
	k	28	—	—	
	l	47	—	—	
	Cond. cross section (mm ²) min. - max.		1,5	—	
		-4	—	—	

Page 23 Fig. 4

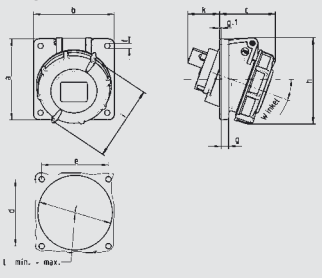


Page 22 Fig. 5b+c



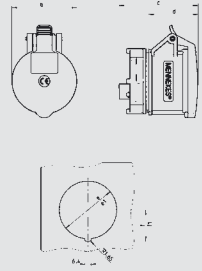
Drawing	Amp. Pole	16			different flange dimensions
		3	4	5	
Dim. in mm	a	62	72	72	
	b	62	65	65	
	c	54	54	54	
	d	47	52	52	
	e	47	52	52	
	f	5,5	5,5	5,5	
	g	8	8	8	
	g.1	2	2	2	
	h	68	77	85	
	h1	7	7	11	
	k	28	28	28	
	l	50	52	57	
	Cond. cross section (mm ²) min. - max.		1,5	1,5	
		-4	-4	-4	

Page 23 Fig. 5



Drawing	Pole	Amp.			16		
		3	4	5	3	4	5
1 MB 453							
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
	g.1	1,5	1,5	1,5	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
Cond. cross section (mm ²) min. - max.		1,5 1,5 1,5			2,5 2,5 2,5		

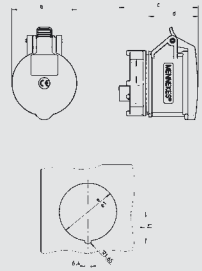
Page 24 Fig. 5, page 25 Fig. 5



Drawing	Pole	Amp.			16		
		3	4	5	3	4	5
1 MB 455							
Dim. in mm	a	84	92	98			
	b	57	66	69			
	c	84	86,5	84			
	d	55	57,5	55			
	e	Ø61	Ø61	Ø61			
	f	33,25	33,25	33,25			
	e1	—	—	—			
	f1	—	—	—			
Cond. cross section (mm ²) min. - max.		1,5 1,5 1,5			—4 —4 —4		

Drawing	Pole	Amp.			32		
		3	4	5	3	4	5
1 MB 251							
Dim. in mm	a	73,5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	59	62	64	64	66
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5,3	5,3	5,3	5,3	5,3	5,3
	g	7	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	84	103	105	109	109	113
	i	78	85	96	103	103	110
	k	41	41	41	51	51	52
	l	52	60	65	70	70	73
	l1	60	65	72	82	82	85
	α	20°	20°	20°	20°	20°	20°
Cond. cross section (mm ²) min. - max.		1,5 1,5 1,5			2,5 2,5 2,5		

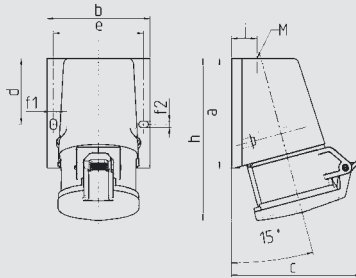
Page 24 Fig. 6, page 25 Fig. 6



Drawing	Pole	Amp.			16		
		4	5	3	4	5	
1 MB 455							
Dim. in mm	a	92	98	94	94	108	
	b	66	69	75	75	80	
	c	86,5	84	105	105	105	
	d	57,5	55	65	65	65	
	e	—	—	—	—	—	
	f	—	—	—	—	—	
	e1	Ø70	Ø70	Ø70	Ø70	Ø70	
	f1	37,75	37,75	37,75	37,75	37,75	
Cond. cross section (mm ²) min. - max.		1,5 1,5			—4 —4 —4		

Drawing	Pole	Amp.			125		
		3	4	5	3	4	5
1 MB 298							
1 MB 339							
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°
Cond. cross section (mm ²) min. - max.		6 6 6			25 25 25		

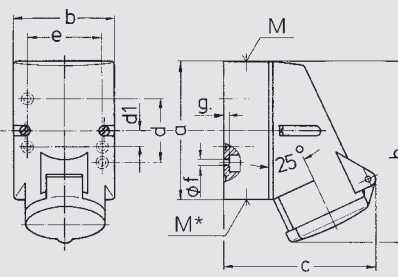
Page 25 Fig. 1



Drawing	Pole	Amp.			16		
		4	5	3	4	5	
1 MB 463							
Dim. in mm	a	92,5					
	b	87					
	c	110					
	d	55,5					
	e	76					
	f1	5,3					
	f2	5,3					
	h	136,5					
	i	21,5					
	M	M25					
Max. cable dia. (mm)		18					
Cond. cross section (mm ²) min. - max.		1,5			—4		

Drawing	Pole	Amp.			32		
		3	4	5	3	4	5
1 MB 141							
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
Cond. cross section (mm ²) min. - max.		1,5 1,5 1,5			2,5 2,5 2,5		

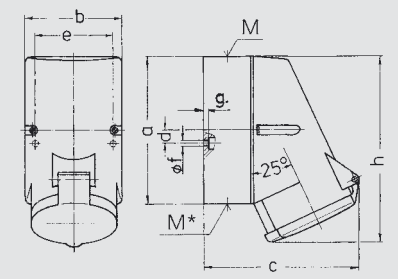
Page 25 Fig. 2, Page 26 Fig. 2



Drawing	Pole	Amp.			16		
		3	4	5	3	4	5
1 MB 209							
Dim. in mm	a	87	100	100			
	b	64	75	75			
	c	99	110	113			
	d	—	—	—			
	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*	for M20 (blind) to be cut out					
Max. cable dia. (mm)		13	13	13			
Cond. cross section (mm ²) min. - max.		1,5 1,5 1,5			—4 —4 —4		

Drawing	Pole	Amp.			125		
		3	4	5	3	4	5
1 MB 212							
1 MB 258							
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
Cond. cross section (mm ²) min. - max.		6 6 6			25 25 25		

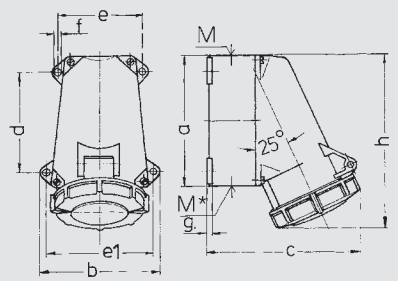
Page 25 Fig. 3, Page 26 Fig. 3



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

Drawing	Pole	Amp.			32		
		3	4	5	3	4	5
1 MB 452							
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	1,5	1,5	1,5	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
Cond. cross section (mm ²) min. - max.		1,5 1,5 1,5			2,5 2,5 2,5		

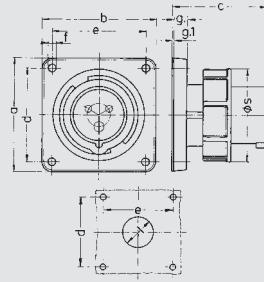
Page 25 Fig. 4, Page 26 Fig. 5



Drawing	Pole	Amp.			32		
		3	4	5	3	4	5

Drawing	Amp.	16		
		3	4	5
1 MB 350	Pole			
Dim. in mm				
Cond. cross section (mm ²) min. - max.		1,5 -4	1,5 -4	1,5 -4

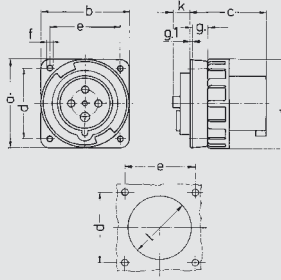
Page 30 Fig. 5



Drawing	Amp.	16			32		
		3	4	5	3	4	5
2 MB 187/2	Pole						
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
l		32	36	47	47	47	47
s		71	79	89	94	94	102
Cond. cross section (mm ²) min. - max.		1,5 -4	1,5 -4	1,5 -4	2,5 -10	2,5 -10	2,5 -10

Drawing	Amp.	16			32		
		3	4	5	3	4	5
2 MB 69	Pole						
2 MB 45							
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
α		15°	—		8°	8°	—
Cond. cross section (mm ²) min. - max.		1 -2,5	1 -2,5		2,5 -6	2,5 -6	2,5 -6

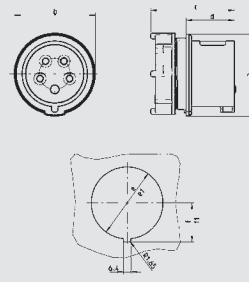
Page 30 Fig. 6



Drawing	Amp.	63			125		
		3	4	5	3	4	5
2 MB 166	Pole						
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		11	11	11	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
Cond. cross section (mm ²) min. - max.		6 -16	6 -16	6 -16	25 -70	25 -70	25 -70

Drawing	Amp.	16		
2 MB 208	Pole	3	4	5
Dim. in mm				

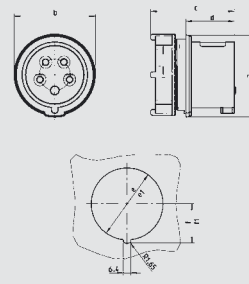
Page 31 Fig. 1



Drawing	Amp.	16		
		3	4	5
2 MB 216	Pole			
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		—	—	—
Cond. cross section (mm ²) min. - max.		1,5 -4	1,5 -4	1,5 -4

Drawing	Amp.	16			32		
		3	4	5	3	4	5
2 MB 68	Pole						
Dim. in mm							
a				66			72
a1				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
Cond. cross section (mm ²) min. - max.				1 -2,5			2,5 -6

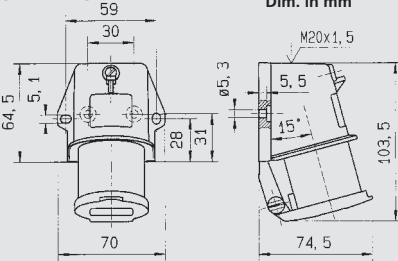
Page 31 Fig. 2, Page 33 Fig. 6



Drawing	Amp.	32			16		
		4	5	3	4	5	
2 MB 216	Pole						
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
Cond. cross section (mm ²) min. - max.		1,5 -4	1,5 -4		2,5 -10	2,5 -10	2,5 -10

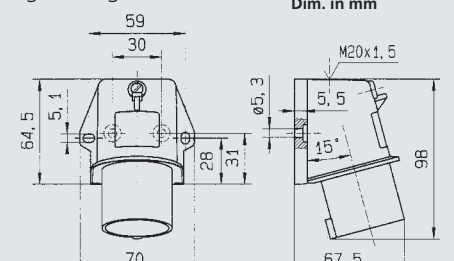
Drawing	Amp.	16			32		
		3	4	5	3	4	5
2 MB 173/2	Pole						
Dim. in mm							
a		85,7	85,7	85,7	85,7	85,7	85,7
b		85,7	85,7	85,7	85,7	85,7	85,7
c		72	72	72	90	90	90
d		69,5	69,5	69,5	69,5	69,5	69,5
e		69,5	69,5	69,5	69,5	69,5	69,5
f		5,5	5,5	5,5	5,5	5,5	5,5
g		11	11	11	11	11	11
g.1		2	2	2	2	2	2
l		32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

Page 31 Fig. 3a



Drawing 2 MB 212
Dim. in mm

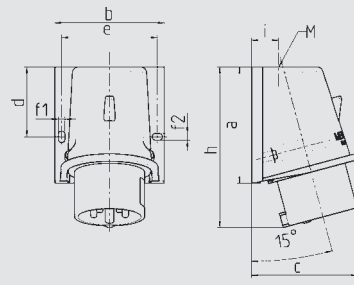
Page 31 Fig. 3b



Drawing 2 MB 213
Dim. in mm

Drawing	Amp.	63		
		3	4	5
2 MB 155	Pole			
Dim. in mm				
a		110	110	110
b		106	106	106
c		85	85	85
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
Cond. cross section (mm ²) min. - max.		6 -16	6 -16	6 -16

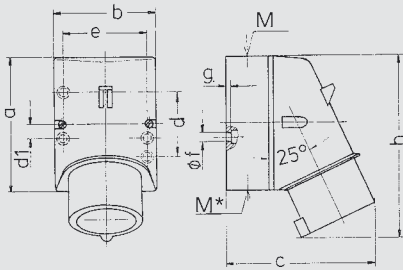
Page 31 Fig. 4, Page 34 Fig. 1



Drawing	Amp.	16	
		4	5
2 MB 221	Pole		
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

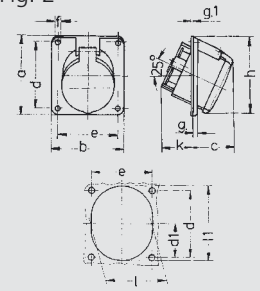
Drawings and dimensions

Page 32 Fig. 1, Page 34 Fig. 2

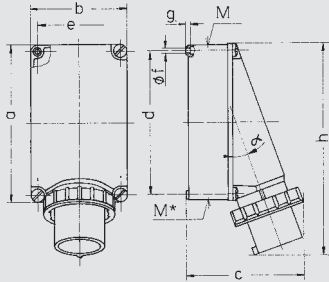


Drawing	Amp.	16			32		
		Pole			Pole		
2 MB 32		3	4	5	3	4	5
Dim. in mm	a	87	100	100	128	128	128
	b	64	75	75	84	84	84
	c	93	106	110	128	128	130
	d	40	—	—	—	—	—
	d1	—	10,5	10,5	11	11	11
	e	50,5	59	59	68	68	68
	f	4,5	5	5	5,3	5,3	5,3
	g	4	4	4	4	4	4
	h	122	133	135	169	169	170
	M	20	25	25	32	32	32
	M*	(blind)			for M 32 (blind)		
Max. cable dia. (mm)		to be cut out			to be cut out		
Cond. cross section (mm ²) min. - max.		13	18	18	25	25	25
		1	1	1	2,5	2,5	2,5
		-2,5	-2,5	-2,5	-6	-6	-6

Page 37 Fig. 2

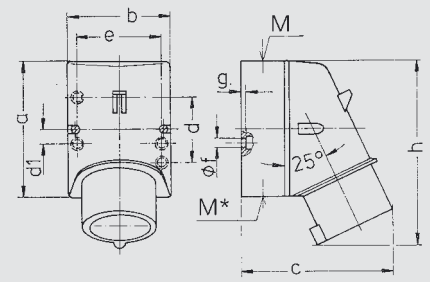


Page 32 Fig. 2

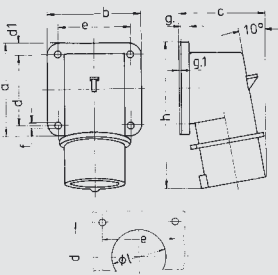


Drawing	Amp.	63			125	
		Pole			Pole	
2 MB 36		3	4	5	4	5
Dim. in mm	a	170	170	170	264	264
	b	118	118	118	163	163
	c	171	171	171	205	205
	d	136	136	136	240	240
	e	104	104	104	140	140
	f	6,1	6,1	6,1	8,1	8,1
	g	6	6	6	8	8
	h	250	250	250	355	355
	M	40	40	40	50	50
	M*	2x40	2x40	2x40	50	50
	α	25°	25°	25°	20°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

Page 37 Fig. 4

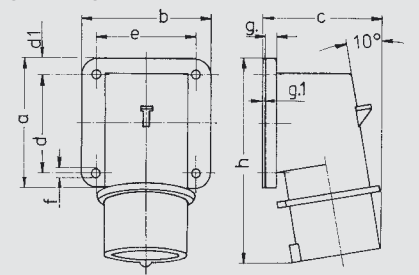


Page 32 Fig. 3, Page 34 Fig. 3

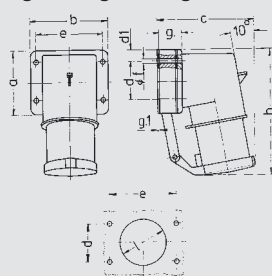


Drawing	Amp.	16		32		
		Pole		Pole		
2 MB 73		4	5	3	4	5
Dim. in mm	a	85	85	75	75	75
	b	85	85	90	90	90
	c	75	79	87	87	90
	d	64	64	45	45	45
	d1	10	10	13	13	13
	e	64	64	78	78	78
	f	5,5	5,5	5,5	5,5	5,5
	g	6	6	6	6	6
	g.1	2	2	2	2	2
	h	129	129	137	137	138
	l	50	50	55	55	55
Cond. cross section (mm ²) min. -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

Page 37 Fig. 5

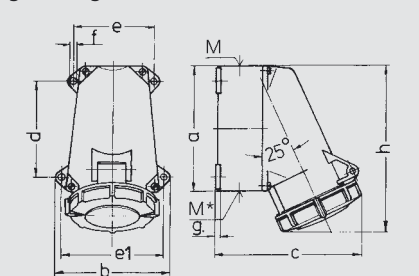


Page 32 Fig. 4, Page 34 Fig. 4

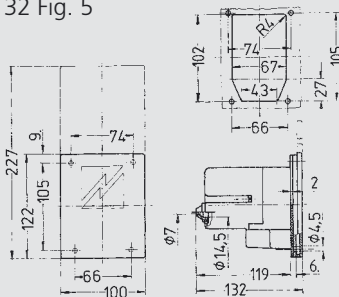


Drawing	Amp.	16		32		
		Pole		Pole		
2 MB 43		4	5	3	4	5
Dim. in mm	a	85	85	75	75	75
	b	85	85	90	90	90
	c	104	106	115	115	117
	d	64	64	45	45	45
	d1	10	10	13	13	13
	e	64	64	78	78	78
	f	5,5	5,5	5,5	5,5	5,5
	g	27	27	27	27	27
	g.1	2	2	2	2	2
	h	140	140	150	150	150
	l	50	50	55	55	55
Cond. cross section (mm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

Page 38 Fig. 1

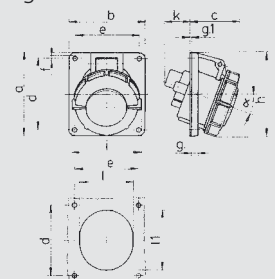


Page 32 Fig. 5

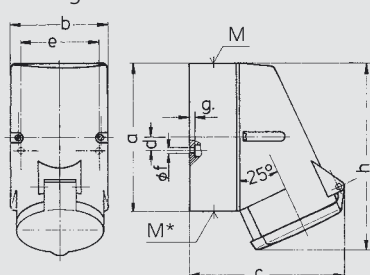


Drawing	Amp.	16		32	
212-Z		Pole		Pole	
Dim. in mm					
	a	128	128	128	128
	b	84	84	84	84
	c	119	119	133	133
	d	11	11	11	11
	e	68	68	68	68
	f	5,3	5,3	5,3	5,3
	g	4	4	4	4
	h	145	145	160	160
	M	32	32	32	32
	M*	for 2x32 (blind)		for 2x32 (blind)	
Max. cable dia. (mm)		to be cut out		to be cut out	
Cond. cross section (mm ²) min. - max.		25		25	
		1,5		2,5	
		-4		-10	

Page 38 Fig. 2

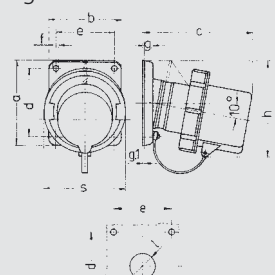


Page 37 Fig. 1



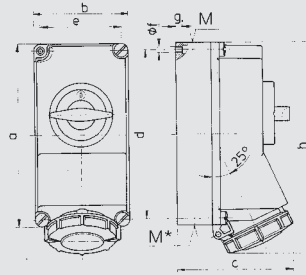
Drawing	Amp.	16		32	
1 MB 257		Pole		Pole	
Dim. in mm	a	128	128	128	128
	b	84	84	84	84
	c	119	119	133	133
	d	11	11	11	11
	e	68	68	68	68
	f	5,3	5,3	5,3	5,3
	g	4	4	4	4
	h	145	145	160	160
	M	32	32	32	32
	M*	for 2x32 (blind)		for 2x32 (blind)	
Max. cable dia. (mm)		to be cut out		to be cut out	
Cond. cross section (mm ²) min. - max.		25		25	
		1,5		2,5	
		-4		-10	

Page 38 Fig. 4



Drawing	Amp.	16		32	
1 MB 256	Pole	7		7	
Dim. in mm	a	100		100	
	b	92		92	
	c	48		51	
	d	85		85	
	d1	42,5		45,5	
	e	77		77	
	f	5,1		5,1	
	g	6		6	
	g.1	2		2	
	h	100		102	
	k	39		58	
	l	78		78	
	l1	78		87	
Cond. cross section (mm ²) min. - max.		1,5		2,5	
		-4		-10	

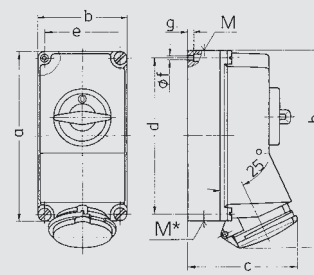
Page 38 Fig. 6



Drawing	Amp.	16			32		
1 MB 382	Pole	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	2x32			2x32		
	M*	2x25			2x25		
Max. cable dia. (mm)		25			25		
Cond. cross section (mm ²) min. - max.		1,5			2,5		
		-4			-10		

Drawing	Amp.	16		32	
2 MB 147	Pole	7		7	
Dim. in mm	a	100		128	
	b	75		84	
	c	110		130	
	d	—		—	
	d1	10,5		11	
	e	59		68	
	f	5		5,3	
	g	4		4	
	h	135		170	
	M	25		32	
	M*	for M 25 (blind) to be cut out		for M 32 (blind) to be cut out	
Max. cable dia. (mm)		18		25	
Cond. cross section (mm ²) min. - max.		1		2,5	
		-2,5		-4	

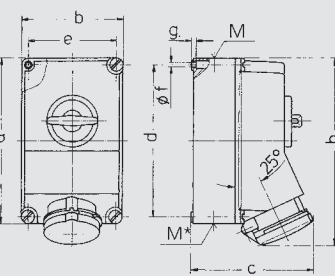
Page 39 Fig. 1



Drawing	Amp.	16			32		
1 MB 174	Pole	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	2x32	2x32	2x32	2x32	2x32	2x32
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable dia. (mm)		25	25	25	25	25	25
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

Drawing	Amp.	16		32	
2 MB 71	Pole	7		7	
Dim. in mm	a	85		75	
	b	85		90	
	c	79		90	
	d	64		45	
	d1	10		13	
	e	64		78	
	f	5,5		5,5	
	g	6		6	
	g.1	2		2	
	h	129		138	
Cond. cross section (mm ²) min. - max.		1		2,5	
		-2,5		-6	

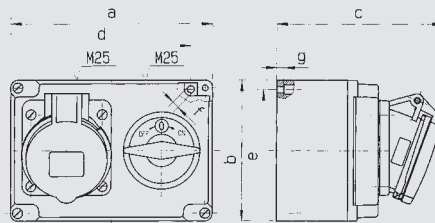
Page 39 Fig. 2



Drawing	Amp.	63		
1 MB 234	Pole	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 dia. (mm)		32	32	32
Cond. cross section (mm ²) min. - max.		6	6	6
		-25	-25	-25

Drawing	Amp.	16		32	
1 MB 406	Pole	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*	for M 25 (blind) to be cut out		for M 32 (blind) to be cut out	
Max. cable dia. (mm)		18		25	
Cond. cross section (mm ²) min. - max.		1,5		2,5	
		-4		-10	

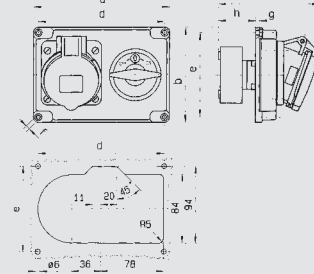
Page 39 Fig. 3, page 45 Fig. 1 + 1a



Drawing	Amp.	16		
1 MB 398	Pole	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
	M*	18	18	18
Max. cable dia. (mm)		1,5	1,5	1,5
Cond. cross section (mm ²) min. - max.		-4	-4	-4

Drawing	Amp.	16		32	
1 MB 405	Pole	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	
	g.1	2		2	
	h	105		113	
	i	96		110	
	k	41		52	
	l	65		73	
	l1	72		85	
	α	20°		20°	
Cond. cross section (mm ²) min. - max.		1,5		2,5	
		-4		-10	

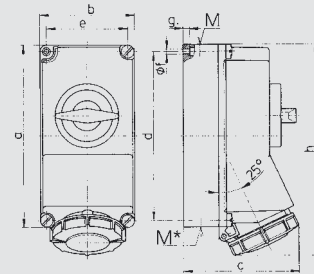
Page 39 Fig. 4



Drawing	Amp.	16		
1 MB 397	Pole	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
Cond. cross section (mm ²) min. - max.		1,5	1,5	1,5
		-4	-4	-4

Drawing	Amp.	16		32	
2 MB 203	Pole	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	
	g.1	2		2	
	h	107		111	
	s	86		102	
	t	30		30	
Cond. cross section (mm ²) min. - max.		1		2,5	
		-2,5		-6	

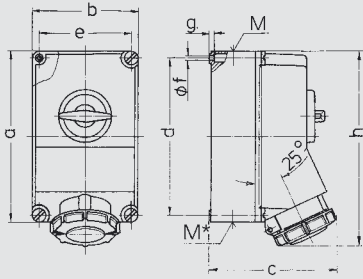
Page 39 Fig. 5, Page 41 Fig. 3, Page 53 Fig. 2



Drawing	Amp.	16			32		
1 MB 207	Pole	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	2x32	2x32	2x32	2x32	2x32	2x32
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable dia. (mm)		25	25	25	25	25	25
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

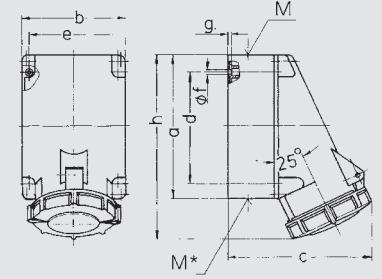
Drawings and dimensions

Page 39 Fig. 6, Page 41 Fig. 4

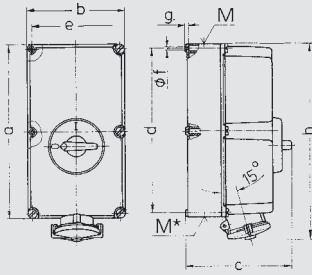


Drawing	Amp.	63		
1 MB 180	Pole	3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	196	196	196
	d	240	240	240
	e	140	140	140
	f	8,1	8,1	8,1
	g	8	8	8
	h	300	300	300
	M	40	40	40
	M*	2x40	2x40	2x40
Max. cable dia. (mm)		32	32	32
Cond. cross section (mm ²) min. - max.		6 - 25	6 - 25	6 - 25

Page 41 Fig. 2

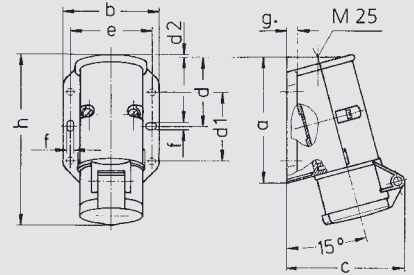


Page 40 Fig. 1 + 6 + 6a, Page 47 Fig. 4 + 4a

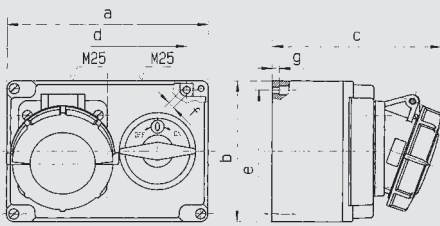


Drawing	Amp.	125	
1 MB 177	Pole	4	5
Dim. in mm	a	460	460
	b	260	260
	c	283	283
	d	434	434
	e	234	234
	f	11	11
	g	9	9
	h	525	525
	M	63	63
	M*	2x63	2x63
Max. cable dia. (mm)		44	44
Cond. cross section (mm ²) min. - max.		25 - 70	25 - 70

Page 42 Fig. 1

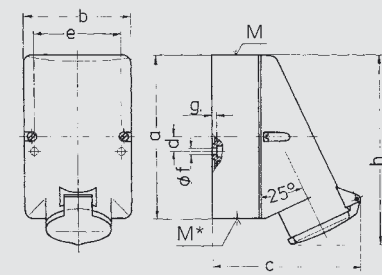


Page 40 Fig. 2
Page 49 Fig. 3 + 3a + 4 + 4a

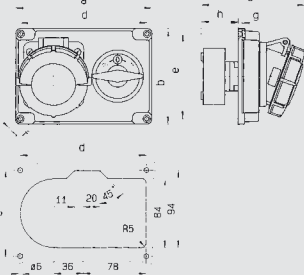


Drawing	Amp.	16		
1 MB 396	Pole	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	136	139	143
	d	136	136	136
	e	104	104	104
	f	6,1	6,1	6,1
	g	6	6	6
	M	25	25	25
Max. cable dia. (mm)		18	18	18
Cond. cross section (mm ²) min. - max.		1,5 - 4	1,5 - 4	1,5 - 4

Page 42 Fig. 2

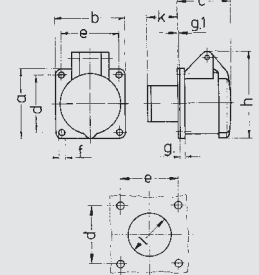


Page 40 Fig. 3

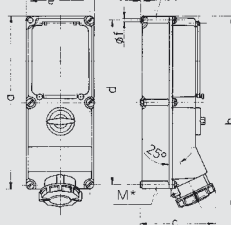


Drawing	Amp.	16		
1 MB 395	Pole	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	136	139	143
	d	136	136	136
	e	104	104	104
	f	6,1	6,1	6,1
	g	6	6	6
	M	25	25	25
Max. cable dia. (mm)		18	18	18
Cond. cross section (mm ²) min. - max.		1,5 - 4	1,5 - 4	1,5 - 4

Page 42 Fig. 3

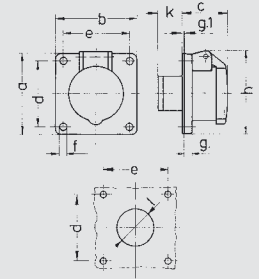


Page 40 Fig. 4 - 5a
Page 47 Fig. 2 - 3a
Page 53 Fig. 3

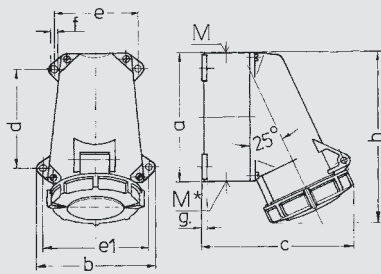


Drawing	Amp.	16			32		63	
1 MB 181	Pole	3	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460
	b	134	134	134	134	134	180	180
	c	160	162	163	168	168	209	209
	d	347	347	347	347	347	440	440
	e	117	117	117	117	117	160	160
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1
	g	8	8	8	8	8	8	8
	h	391	395	398	408	411	525	525
	M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

Page 42 Fig. 4

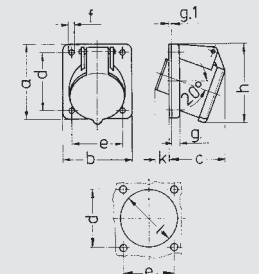


Page 41 Fig. 1, Page 53 Fig. 1



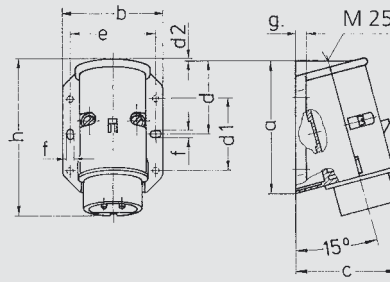
Drawing	Amp.	16	
1 MB 219	Pole		5
Dim. in mm	a		95
	b		102
	c		129
	d		64,2
	e		77,5
	e1		88
	f		5,5
	g		5
	h		132
	M		25
	M*		for M 25 (blind) to be cut out
Max. cable dia. (mm)			18
Cond. cross section (mm ²) min. - max.			1,5 - 4

Page 42 Fig. 5



Drawing	Amp.	63	
1 MB 112	Pole	4	5
Dim. in mm	a	170	170
	b	118	118
	c	171	171
	d	134,5	134,5
	e	103	103
	f	6,1	6,1
	g	6	6
	h	216	216
	M	40	40
	M*	for 2 x M40 (blind) to be cut out	
Max. cable dia. (mm)		27	27
Cond. cross section (mm ²) min. - max.		6 - 6	6 - 25

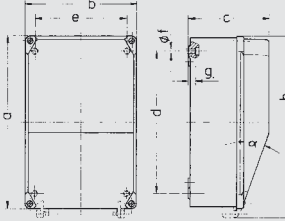
Page 43 Fig. 5



Drawing	Amp.	16		32	
2 MB 160	Pole	2	3	2	3
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
Cond. cross section (mm ²) min. - max.		4 - 4	4 - 10	4 - 10	4 - 10

Drawing	Amp.	16		32	
1 MB 294	Pole	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
Cond. cross section (mm ²) min. - max.		4 - 4	4 - 10	4 - 4	4 - 10

Page 41 Fig. 5, Page 45 Fig. 2 - 3a
Page 46 Fig. 1 + 1a + 3 - 6a
Page 47 Fig. 1 + 1a

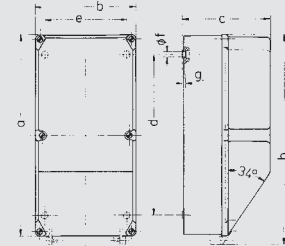


Dim. in mm		
a		245
b		160
c		116
d		201
e		133
f		5,5
g		10
h		259

Cable inlet:
Top: 1 x M 32 open,
1 x M 32 with sealing plug
Bottom: 2 x M 32 with sealing plug

Drawing	Amp.	16		32	
1 MB 137	Pole	2	3	2	3
Dim. in mm	a	128	128	128	128
	b	84	84	84	84
	c	115	115	115	115
	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 (blind)		2x25 2x25 (blind)	
		to be cut out		to be cut out	
Max. cable dia. (mm)		18	18	25	25
Cond. cross section (mm ²) min. - max.		4 - 4	4 - 10	4 - 4	4 - 10

Page 45 Fig. 4 + 4a
Page 46 Fig. 2 + 2a

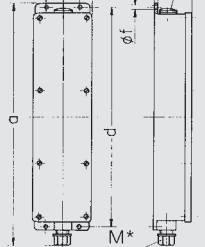


Dim. in mm		
a		341
b		172
c		149
d		272
e		140
f		8,5
g		6,5
h		355

Cable inlet:
Top: 1 x M 40 open,
1 x M 40 with sealing plug
Bottom: 2 x M 40 with sealing plug

Drawing	Amp.	16		32	
1 MB 136	Pole	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
Cond. cross section (mm ²) min. - max.		4 - 4	4 - 10	4 - 4	4 - 10

Page 48 Fig. 1 - 5a
Page 49 Fig. 1 - 2a

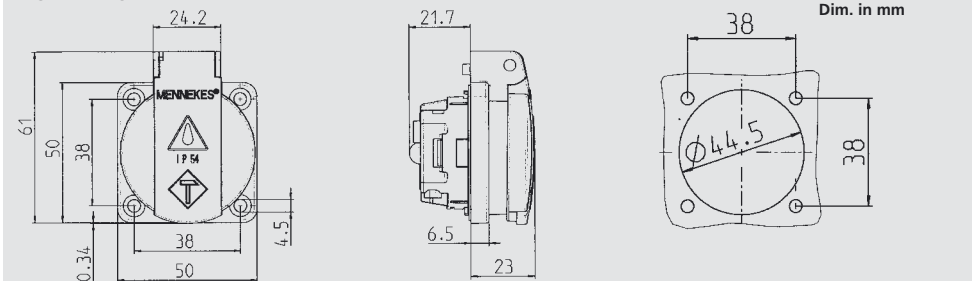


Dim. in mm		
a		401
b		97
c		63
d		364
e		56
f		5,5
g		4
h		259
M		20
M*		20

Cable inlet:
Top: 1 x M 20 with sealing plug
Bottom: 1 x M 20 with cable gland

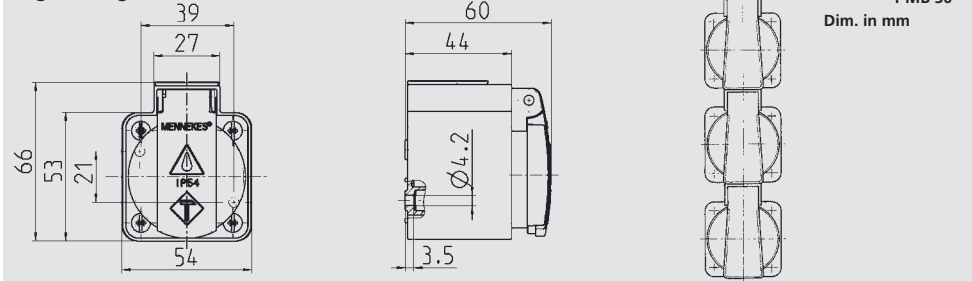
Drawing	Amp.	16		32	
1 MB 292	Pole	2	3	2	3
Dim. in mm	a	75	75	75	75
	b	75	75	75	75
	c	44	44	44	44
	d	60	60	60	60
	e	60	60	60	60
	f	5,5	5,5	5,5	5,5
	g	8	8	8	8
	g.1	2	2	2	2
	h	77	77	77	77
	k	22	22	22	22
	l	34	34	34	34
Cond. cross section (mm ²) min. - max.		4 - 4	4 - 10	4 - 4	4 - 10

Page 52 Fig. 1 + 2



Drawing	Amp.	16		32	
1 MB 231	Pole	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
Cond. cross section (mm ²) min. - max.		4 - 4	4 - 10	4 - 4	4 - 10

Page 52 Fig. 3



Conversion factors

To convert	Multiply by	To convert	Multiply by
Mils to millimetres (mm) (1000 mils = 1 inch) . . .	0.0254	Kilograms to pounds (lb)	2.205
Inches to centimetres (cm)	2.54	Tons (2240 lb) to kilograms (kg)	1016
Centimetres to inches	0.3937	Kilograms to tons (2240 lb)	0.00098
Feet to metres (m)	0.3048	Ounces (avoirdupois) to grammes	28.35
Metres to feet (ft)	3.2808	Grammes to ounces (avoirdupois)	0.0353
Yards to metres (m)	0.9144	Grains (troy) to grammes	0.0648
Metres to yards (yd)	1.0936	Grammes to grains (troy)	15.432
Miles to kilometres (km)	1.6093	Gallons to litres	4.546
Kilometres to miles	0.6214	Litres to gallons	0.220
Square inches to circular mils (circ mils)	1.273	Horsepower to foot-pounds per minute (ft lb/min) . . .	33.000
Square inches to square millimetres (mm ²)	645.16	Watts to foot-pounds per minute (ft lb/min) . . .	44.24
Square millimetres to square inches (inch ²)	0.00155	Horsepower to kilowatts (kW)	0.746
Square yards to square metres (m ²)	0.8361	Kilowatts to horsepower (hp)	1.34
Square metres to square yards (yd ²)	1.196	Atmospheres to lb per square inch (lb/inch ²)	14.68
Hectares to acres	2.471	Miles per hour to feet per minute (ft/min)	88.0
Acres to hectares	0.4047	Land miles to nautical miles	0.868
Cubic inches to cubic centimeters (cm ³)	16.387	Nautical miles to land miles	1.152
Cubic centimeters to cubic inches (inch ³)	0.061		
Cubic yards to cubic meters (m ³)	0.7646	Temperature:	
Cubic metres to cubic yards (yd ³)	1.308	F to C Subtract 32 and multiply by 0.555r	
Pounds to kilograms (kg)	0.4536	C to F Multiply by 1.8 and add 32	

Comparison of Celsius and Fahrenheit

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Zero	32.0	13	55.4	26	78.8	39	102.2	52	125.6	65	149.0	78	172.4	91	195.8
1	33.8	14	57.2	27	80.6	40	104.0	53	127.4	66	150.8	79	174.2	92	197.6
2	35.6	15	59.0	28	82.4	41	105.8	54	129.2	67	152.6	80	176.0	93	199.4
3	37.4	16	60.8	29	84.2	42	107.6	55	131.0	68	154.4	81	177.8	94	201.2
4	39.2	17	62.6	30	86.0	43	109.4	56	132.8	69	156.2	82	179.6	95	203.0
5	41.0	18	64.4	31	87.8	44	111.2	57	134.6	70	158.0	83	181.4	96	204.8
6	42.8	19	66.2	32	89.6	45	113.0	58	136.4	71	159.8	84	183.2	97	206.6
7	44.6	20	68.0	33	91.4	46	114.8	59	138.2	72	161.6	85	185.0	98	208.4
8	46.4	21	69.8	34	93.2	47	116.6	60	140.0	73	163.4	86	186.8	99	210.2
9	48.2	22	71.6	35	95.0	48	118.4	61	141.8	74	165.2	87	188.6	100	212.0
10	50.0	23	73.4	36	96.8	49	120.2	62	143.6	75	167.0	88	190.4	–	–
11	51.8	24	75.2	37	98.6	50	122.0	63	145.4	76	168.8	89	192.2	–	–
12	53.6	25	77.0	38	100.4	51	123.8	64	147.2	77	170.6	90	194.0	–	–

kW/hp Conversion

When using this table to assist in the selection of capacitors for direct connection to induction motors, the horsepower value obtained should be rounded down to the next lower

figure given in the foregoing motor / capacitor tables e.g. 10kW corresponds to 13.4 hp, therefore the rating for a 12.5 hp motor should be selected.

kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp
1	1.34	15	20.1	29	38.9	43	57.6	57	76.4	71	95.2	85	114.0	99	133.0
2	2.68	16	21.5	30	40.2	44	59.0	58	77.8	72	96.5	86	115.0	100	134.0
3	4.02	17	22.8	31	41.6	45	60.3	59	79.1	73	97.9	87	117.0	101	136.0
4	5.36	18	24.1	32	42.9	46	61.7	60	80.4	74	99.2	88	118.0	102	137.0
5	6.70	19	25.5	33	44.2	47	63.0	61	81.8	75	100.6	89	119.0	103	138.0
6	8.04	20	26.8	34	45.6	48	64.3	62	83.1	76	102.0	90	121.0	104	139.0
7	9.38	21	28.2	35	46.9	49	65.7	63	84.5	77	103.0	91	122.0	105	141.0
8	10.70	22	29.5	36	48.3	50	67.0	64	85.8	78	105.0	92	123.0	106	142.0
9	12.06	23	30.8	37	49.6	51	68.4	65	87.1	79	106.0	93	125.0	107	143.0
10	13.40	24	32.2	38	50.9	52	69.7	66	88.5	80	107.0	94	126.0	108	145.0
11	14.80	25	33.5	39	52.3	53	71.0	67	89.8	81	109.0	95	127.0	109	146.0
12	16.10	26	34.9	40	53.6	54	72.4	68	91.2	82	110.0	96	129.0	110	147.0
13	17.40	27	36.2	41	55.0	55	73.4	69	92.5	83	111.0	97	130.0	–	–
14	18.80	28	37.5	42	56.3	56	75.0	70	93.8	84	113.0	98	131.0	–	–

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10082	52	11110	52	1207	26	1343	25	1430	22	1497	22
10083	52	11111	52	1208	26	1344	25	1431	22	1498	22
10176	50	1111A	29	1209	26	134A	26	1432	22	1499	22
10177	50	1112A	29	121	35	135A	26	1433	22	14A	28
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10180	50	1115A	36	1212	26	1364	22	1436	34	1502	23
10181	50	1116A	36	1213	26	1365	22	1437	34	1503	23
10182	50	1117A	36	1214	26	1366	22	1438	32, 35	1504	23
10183	50	1118A	36	1215	26	1367	22	1441A	29	1505	23
10184	50	1119A	36	1216	32	1368	26	1442A	29	1506	23
10185	50	11200	52	1217	32	1369	26	1443A	29	1507	23
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Brazil

MENNEKES Electric do Brasil Ltda.
 Rua Dr. Paulo Breda Filho, 357
 CEP 18103-297 – Sorocaba – SP
 Brazil
 Phone + 55 (15) 225 1306
 Fax + 55 (15) 225 1306
 E-Mail MENNEKES@MENNEKES.com.br
 Internet: www.MENNEKES.de



Malaysia

MENNEKES
 Elektrotechnik GmbH & Co. KG
 (Malaysia Representative Office)
 Bosch Building
 NO. 8A, Jalan 13/6
 46200 Petaling Jaya,
 Selangor Darul Ehsan
 Phone + 60-3-79 54 27 31
 Fax + 60-3-79 54 27 21
 E-Mail MENNEKES@tm.net.my

MENNEKES Electric Ltd.
 Unit 4, Crayfields Industrial Park
 Main Road, St. Pauls Cray
 Orpington
 Kent BR5 3HP, UK
 Phone + 44 (16 89) 83 35 22
 Fax + 44 (16 89) 83 33 78
 E-Mail sales@MENNEKES.co.uk
 Internet: www.MENNEKES.co.uk



China

NANJING MENNEKES Electric
 Appliances Co., Ltd.
 58 Qinhuai Road
 Jiangning Development Zone
 PRC-211100 Nanjing
 PR China
 Phone + 86 (25) 5212 55 66
 Fax + 86 (25) 5212 55 77
 E-Mail info@MENNEKES.com.cn
 Internet: www.MENNEKES.com.cn



Singapore

MENNEKES
 Electric Singapore Pte. Ltd.
 38C Jalan Pemimpin
 # 06-02B Bosch Building
 SGP-Singapore 577180
 Phone + 65 62 52 58 02
 Fax + 65 62 52 58 06
 E-Mail info@MENNEKES.com.sg



Parent company

MENNEKES
 Elektrotechnik GmbH & Co. KG
 Spezialfabrik für Steckvorrichtungen
 P. O. Box 1364
 D-57343 Lennestadt
 Phone +49 (27 23) 41-1
 Fax +49 (27 23) 41-2 14
 E-Mail info@MENNEKES.de
 Internet www.MENNEKES.de
 Visitor address:
 Aloys-Mennekes-Straße 1
 D-57399 Kirchhundem



France

MENNEKES
 Electrotechnique France SARL
 Z.I. de Leveau – Porte F
 P.C.E 1607
 F-38216 – VIENNE Cédex
 Phone + 33 437 02 24 10
 Fax + 33 474 53 41 39
 E-Mail mef@MENNEKES.fr
 Internet: www.MENNEKES.de



Thailand

MENNEKES
 Elektrotechnik GmbH & Co. KG
 (Thailand Representative Office)
 5/16 SOI AREE 1, Phaholyothin Road
 Phayathai, Bangkok 10400, Thailand
 Phone + 66-(0)2 3 57 20 01
 Fax + 66-(0)2 2 79 61 13
 E-Mail MENNEKES@inet.co.th



Italy

MENNEKES Electric Italia s.r.l.
 Via Ferrero 10
 I-10090 Rivoli-Cascine Vica (TO)
 Phone + 39 (0 11) 959 0295
 Fax + 39 (0 11) 959 0200
 E-Mail info@MENNEKES.it
 Internet: www.MENNEKES.it



USA

MENNEKES Electrical Products
 277, Fairfield Road
 USA-Fairfield, N.J. 07004
 Phone + 1-973-882-83 33
 Fax + 1-973-882-55 85
 E-Mail info@MENNEKES.com
 Internet: www.MENNEKES.com



Plant Neudorf

Technoplast GmbH
 Karlsbader Straße 50a
 D-09465 Neudorf/Erzgebirge
 Phone +49 (3 73 42) 8 62-0
 Fax +49 (3 73 42) 8 62-38
 E-Mail info@tp-neudorf.de

UK / IRL

Further representatives in more than 80 countries around the world.