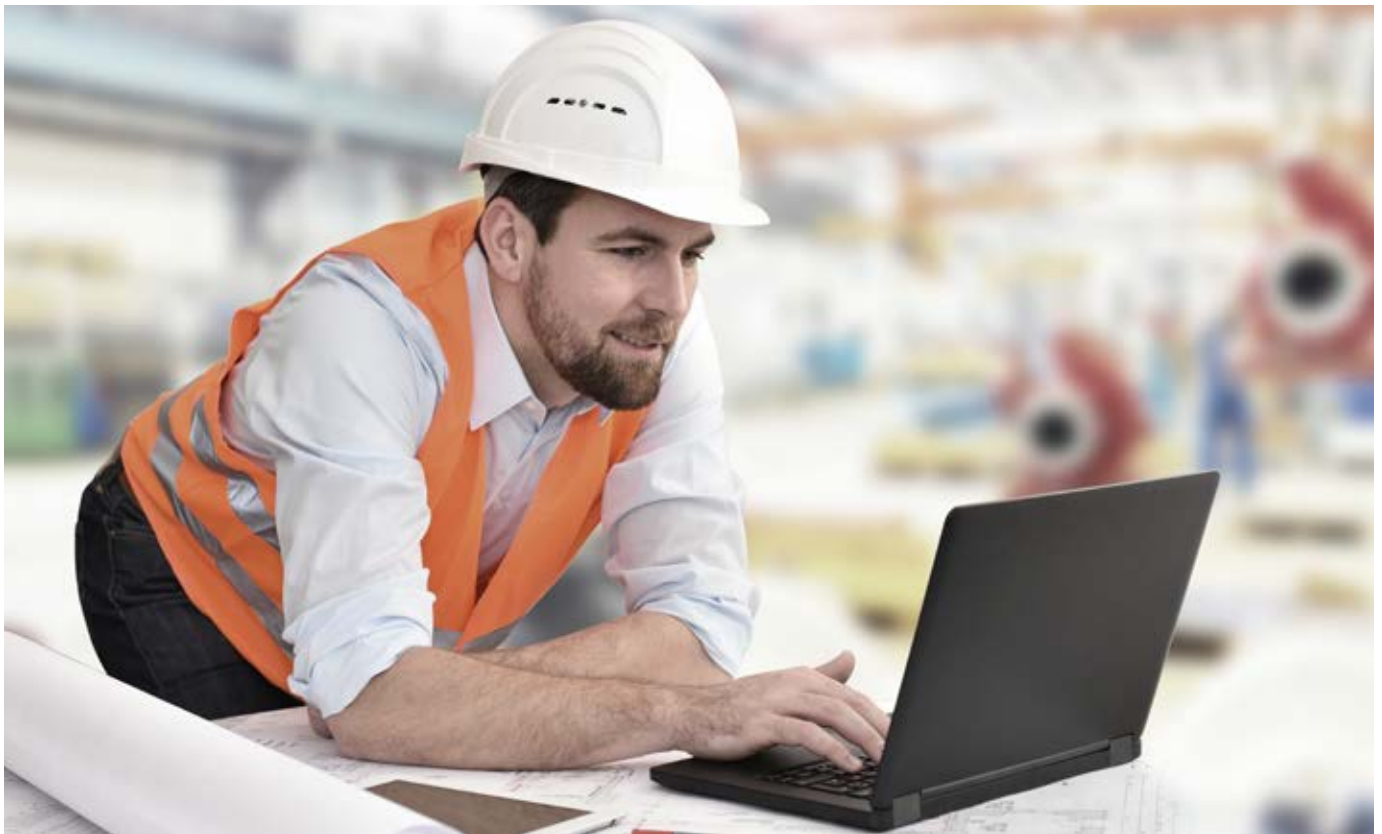


CATALOGUE

INDUSTRIAL PLUGS AND SOCKETS

UK





Power your Business

The right solution for every application.

For many years MENNEKES has collaborated with companies in various fields in order to constantly broaden and optimise our product portfolio. Thanks to our experience we can offer our customers the best product solutions for all areas of application.

Power your
Data Centres



Power your
Food Industry



Power your
Wind Energy



Power your
Logistics Centres



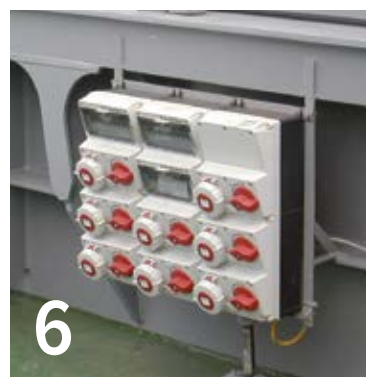
Power your
Automotive Industry



Visit our website here: **MENNEKES**.co.uk/solutions

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„I am proud to be able
to continue this tradition
in the third generation.“

Christopher Mennekes, General Management Director

MENNEKES – The company.

1

When my grandfather, Aloys Mennekes, received his Master Electrician's certificate in 1935, he surely was not aware of what would develop from his commitment to electrical engineering. At that time, he knew only one thing: he wanted to put his ideas into practice and manufacture his own products.

As you leaf through the pages of this catalogue, you get a feeling of how strongly this initial entrepreneurial desire continues to design us today. The variety of the products on display clearly shows that we still have great pleasure in converting our ideas into new products. But marketable ideas are rarely generated behind closed doors. As specialists, we therefore develop individual solutions together with our customers. Hence our product portfolio today consists of more than 10,000 customised products, far more than we can show in this catalogue.

Since it was founded over 80 years ago, MENNEKES has been a wholly owned family business, responsibly managed by members of the owning family throughout. Responsibility for the Company also means responsibility for the people who are at the heart of our thinking and actions at MENNEKES. Through their awareness of the values of diligence, reliability and loyalty, they constitute an important cornerstone of the Company.

I am proud to be able to continue this tradition in the third generation.

These are fascinating times for the preservation of tradition because, due to the digital revolution, many things are going to change in the next decade. In this world flooded with information, MENNEKES wants to be a point of reference on which our customers can rely for quality, safety and functionality. We say with confidence: Our brand is a promise.

Thank you for believing this promise and thus supporting our business philosophy.

Christopher Mennekes
General Management Director



Aloys Mennekes (center) with apprentice and journeymen on their way to work

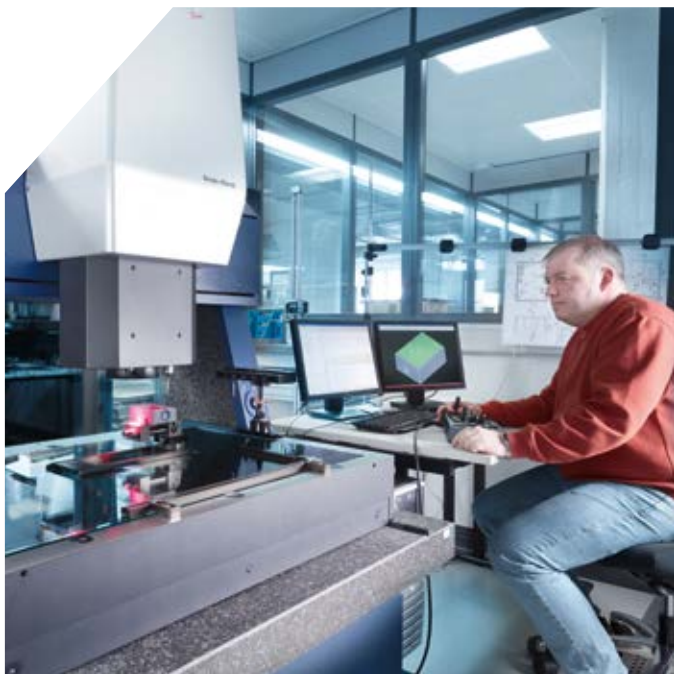


Plugs and sockets for toughest conditions



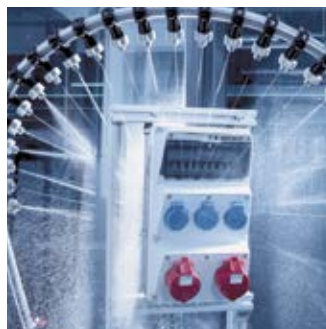
Family Mennekes (from left): Petra and Walter, Daniela and Christopher and Michael and Steffen

1 Quality – Tested under extreme conditions.



When a MENNEKES product leaves our factory, it has already survived the harshest testing. In our test lab it is exposed to cold, heat, dust and water over and over again. Only the products that withstand these tests are worthy of the name MENNEKES. Our products are of course certified to national and international standards by recognised institutions. Like the MENNEKES company itself. Our international quality management system is certified to DIN EN ISO 9001.

Independent test organizations certify that our products offer the highest levels of safety, quality and trouble free use.



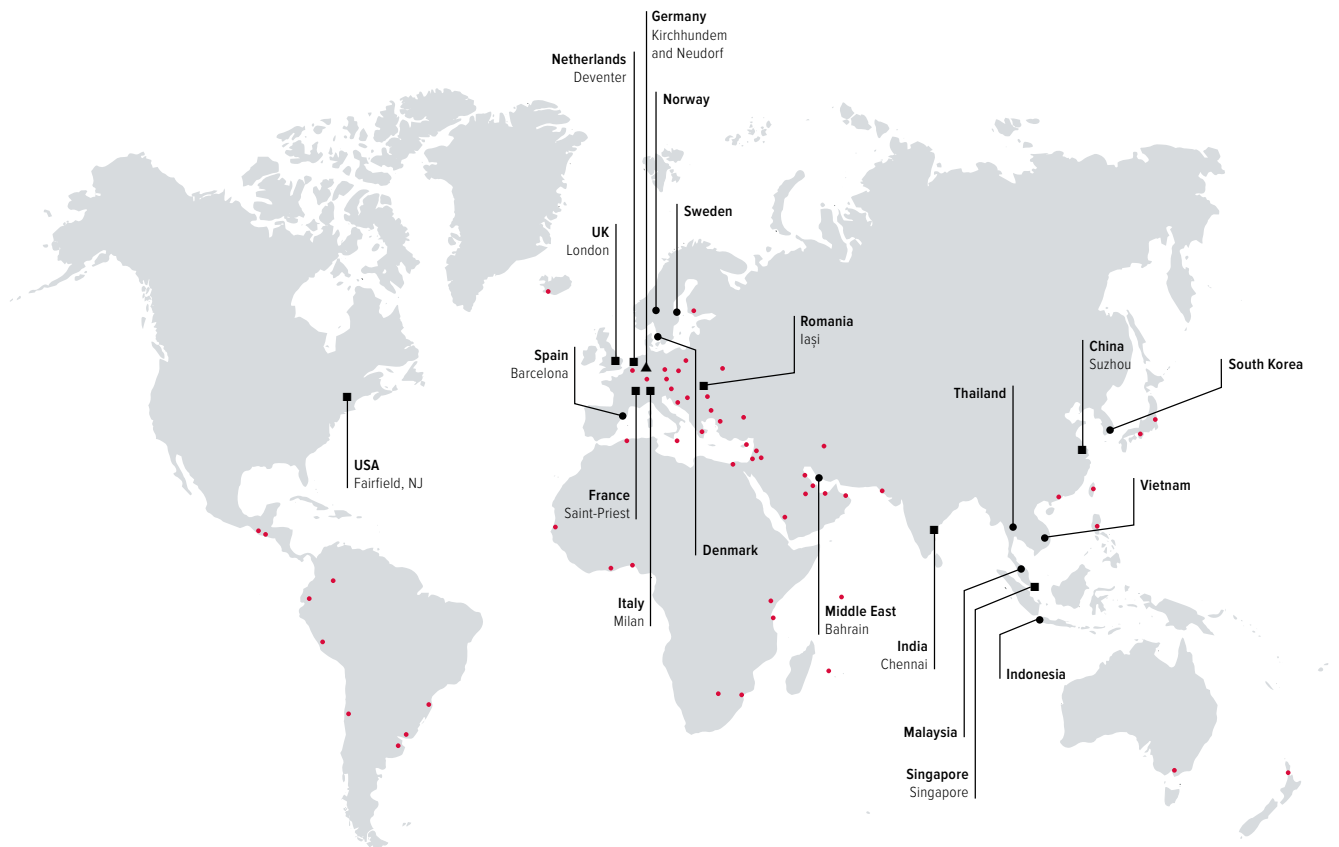
Only the combination of first-class raw materials and advanced manufacturing processes guarantee a premium product. This is why we use only first-grade plastics which are processed by a highly skilled workforce in state-of-the-art production facilities to create certified MENNEKES products.

We guarantee the high quality standard of our products by our own test laboratory. This laboratory is approved and will be used for product tests of our products to get test marks acc. to DIN EN 60309 by approval authorities like the VDE etc.

Based out of Germany at home in the world.

We are close to our customers everywhere. We take care of our German market with an experienced sales team, qualified field teams, and a nationwide network of sales representatives. Our international sales experts, representatives, subsidiaries

and sales offices represent the MENNEKES brand in over 90 countries. 1,600 employees ensure the highest quality and best service every day. You can rely on us.



▲ Head office Germany ■ Subsidiaries ● Sales offices and regional country managers ● Agencies with local partners

Subsidiaries:

- USA
- UK
- France
- Italy
- Netherlands
- Romania
- India
- China
- Singapore

Sales offices and regional country managers:

- Denmark
- Norway
- Sweden
- Netherlands
- Bahrain for the Middle East
- South Korea
- Indonesia
- Malaysia
- Thailand
- Vietnam

Commercial agencies:

- 11 in Germany
- 31 in Europe with local specialist partners (e.g. in Austria, Switzerland, Belgium, Spain and Poland)
- 46 outside of Europe with local specialist partners (e.g. in Japan, Brazil, Peru, Australia and South Africa)

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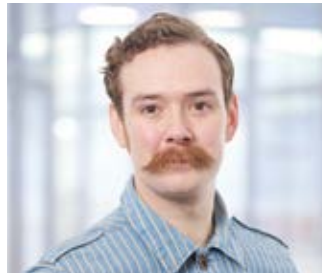
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About us – Regional Sales Areas.

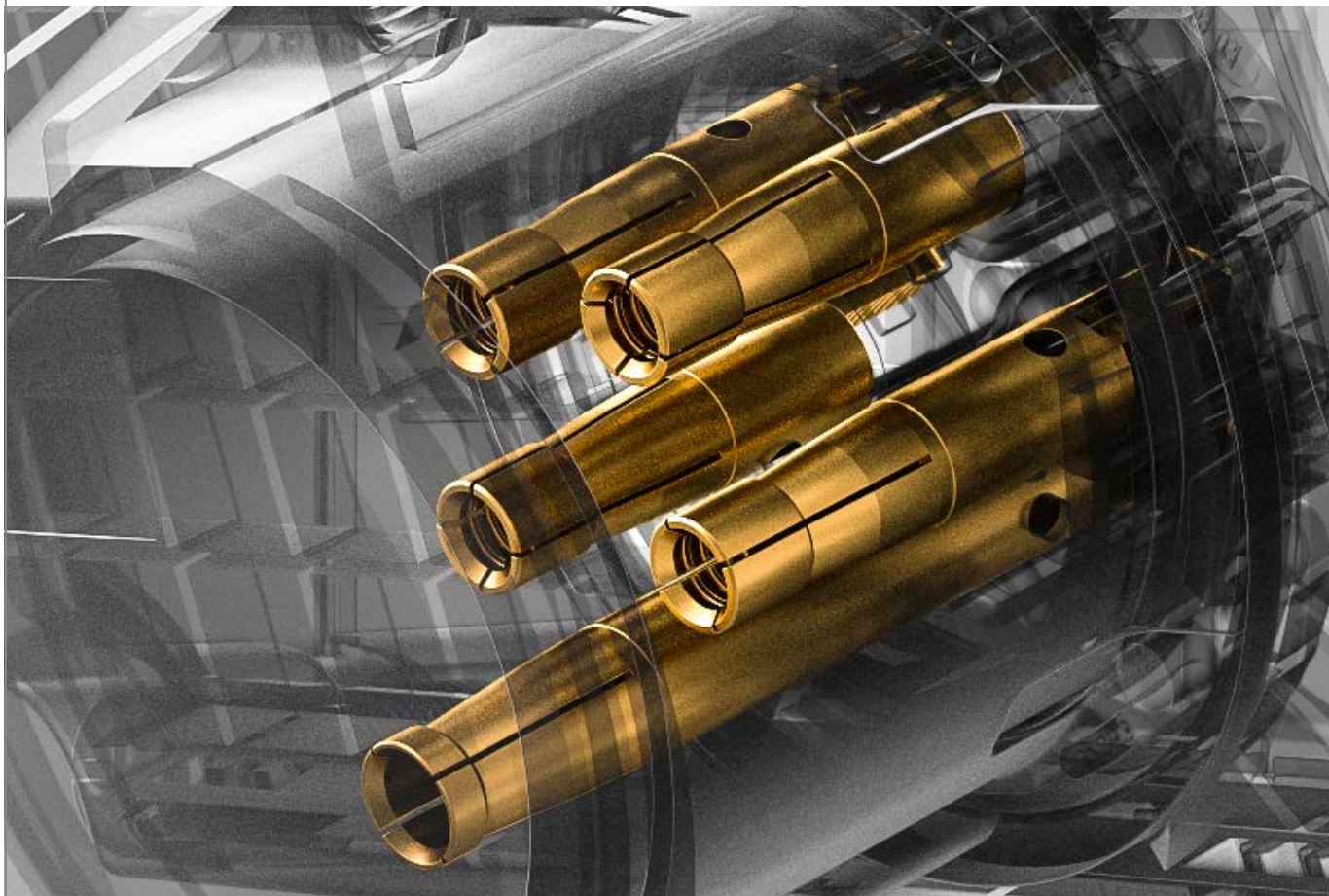
1



X-CONTACT®

The future is now.

The new generation of contact sleeves.



As a specialist for plugs and sockets MENNEKES is known all over the world for setting standards. In the past few years, we dealt intensively with current requirements of the electric mobility and automotive sectors. We used the know-how gained to develop a completely new contact sleeve solution for industrial connectors and sockets: X-CONTACT®

Better contact

In plugs and connectors, the contact sleeves are crucial for the quality of the electrical connection. The goal is to find the best possible balance between a secure electrical contact and ease of handling. We have achieved this with X-CONTACT®. Our smart contact sleeve technology is integrated into all of our DUO wall mounted receptacles in 16 A and 32 A, as well as in our wall mounted and panel mounted receptacles in 63 A and 125 A.

Due to a completely new manufacturing process, the X-CONTACT® sleeve has resilient properties based solely on its material characteristics, without the need to use any additional spring elements. Thanks to the shape of the X-CONTACT® sleeve, a particularly safe contact closure can be achieved.

Less effort

The special design of the X-CONTACT® reduces the effort of insertion and withdrawal by up to 50 %. An advantage that simplifies work processes and improves safety especially with high electrical currents. With X-CONTACT®, MENNEKES creates a safe contact closure and easy handling at a new, equally high level.

But how does X-CONTACT® achieve these benefits even with currents of 63 A or 125 A? A glance into the opening of an X-CONTACT® sleeve reveals the intelligent functional principle: the X-shaped slot and groove in the inner wall provides four advantages of the new design: innovative, simple, durable and safe. We call it the X principle.

X-CONTACT® in wall mounted and panel mounted sockets.

Innovative

Due to the slotted sleeves with their resilient material properties, X-CONTACT® is the simplest possible mechanical solution: the plug pin simply expands the opening of the resilient contact sleeve, which reduces the force needed to connect and disconnect the plug by up to 50 %.

X-CONTACT® – intelligently innovative!

Durable

Even in cases when the plug is connected and disconnected frequently, there are no signs of wear and the sleeve material remains fatigue-proof in the long term even after rough handling. Due to the quality of the new sleeves, contamination and surface corrosion is automatically removed by connecting and disconnecting.

X-CONTACT® – lasting solution!

Simple

In practice, X-CONTACT® simplifies work processes. The connection is easier to handle when compared to conventional contact sleeves.

X-CONTACT® – simply brilliant!

Safe

A higher degree of safety of handling is provided by the easier connection and disconnection. The groove within the inner wall in connection with the resilient material of the contact sleeves provides for a safe contact closure.

X-CONTACT® – double safety!



X-CONTACT®
INSIDE



TwinCONTACT

The swift connection.

Looking for quick and easy connection?

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

2



Suitable for solid conductors and flexible conductors (with end sleeve for strands, crimped so as to be gas-tight or ultrasonically welded).

Cond. cross section:
at 16 A: 1.5 - 4.0 mm²
at 32 A: 2.5 - 10.0 mm²



Sockets

with screw terminals.



Removable cover for easy access to wiring space.



All contact screws face the same way. Open terminals. Terminals visible through slits.

Cepex-sockets

Perfect in detail.



Cepex sockets are universally applicable. The fast movers for daily needs: **16 A, 3-pole, 230 V · 16 A, 5-pole, 400 V · 32 A, 5-pole, 400 V.**

SCHUKO® sockets in Cepex design.



Each goes with each.

Lid designs, current ratings, and colors can be combined as desired: neutral lid, with labeling field, with labeling field and lock, 3- to 5-pole, and SCHUKO®.



The ideal combination: Cepex sockets 16 A, 3- to 5-pole, can be installed in hollow wall or concrete installation boxes (e.g., Kaiser) with a mounting dimension of 67 mm.



One for all. Order No. 41404.

The Cepex modular system for flush-mounted sockets.

Based on the flush-mounted installation socket 41404, all desired Cepex flush-mounted variants can be achieved by connecting with any Cepex panel mounted socket.

Example: Cepex panel mounted socket 16 A, 5-pole, 400 V
with labeling field

Order No. 4145

+ flush mounted installation socket

Order No. 41404

= **flush mounted socket**



Ball rebound.

All Cepex sockets with neutral lids are ball-proof according to DIN 18032, for use in sports facilities and other harsh environments.



In white aluminium, pure white, pearl white and grey the Cepex program can be adapted to the common colors of different channels and installation devices as desired.

DUOi wall mounted socket

The new switched and interlocked wall mounted socket in 16 and 32 A with voltage indicator.

2 Machines and systems operate day and night, conveyor belts run without pause and cranes work nonstop to lift and carry materials weighing tons. Container ports, shipyards, factories, mines, food processing and warehouses are always bustling with activity. Everywhere there's a need for safe reliable power in order to work smoothly and cost-effectively.

This is where our switched and interlocked DUO wall mounted socket come in. They've been popular for years across a wide variety of industries and applications. Now we've completely redesigned and optimised this family of sockets, which come in 16 A and 32 A versions with 3, 4, or 5 poles. The result is the DUOi wall mounted socket with fantastic new features. See for yourself!



Always keeping an eye on the operating status

Our switched and interlocked wall mounted socket DUOi comes with an LED voltage indicator. This is prominently positioned above the switch and shows you the current status of the device in a supply network of up to 3 phases. This way, you always have the operating status of the DUOi socket in front of you: When the outlet is switched on and operating in normal working mode, the indicator lights up green. When the outlet is switched off or an error occurs, the indicator goes out – allowing you to quickly react and promptly address any issues.

Practical aperture with hinged lid

For comfortable use and reliable operation without mishaps: the socket's hinged cap is easy to open and close. It opens upward instead of toward the wall. This prevents collisions with connected cables and cable glands.



NEW



Practical mounting plate

The mounting plate is removable for easy cable installation. The socket and switch disconnecter are on the mounting plate and come prewired. You can also easily remove the mounting plate with the socket and switch as a single unit at any time, for example to place them on a firm surface for maintenance work.

Quick availability of product information via QR code

Product information must be available for electricians and users. By scanning the centrally applied QR code, installation and operating instructions, accessories or spare parts, declarations of conformity and other important documents relating to the product are directly available at any time.



Lockout/tagout padlock for additional protection

Do you need to play it absolutely safe? The selector knob of every DUOi wall mounted socket's switch has a hole for attaching your own lockout/tagout padlock. This gives you added safety by preventing the switch from being unintentionally turned on when a plug is in the socket. The result is complete safety, for example for carrying out maintenance tasks. It's impossible for current to be unintentionally delivered to machines or other equipment – essential for preventing accidents.

Sockets – Wall mounted, with screw terminals

to DIN EN IEC 60309-2 (VDE 0623-2).  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108. Products with pilot contact available on request.



Wall mounted socket
external fixing, cable entry at top

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 463

A	P	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 300-500 Hz	
16	3		27001				
16	4			27002	27003		
16	5			27004			
32	3		27005				
32	4			27006	27007		
32	5			27008			



Wall mounted socket
internal fixing, one cable entry at top and one blind entry (can be cut out) at the bottom, 4 p and 5 p sockets the enclosure can be turned 180°

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 209

A	P	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 300-500 Hz	
16	3	100	101	102		2169	2241
16	4	103	104	105	106	107	
16	5		110	111	2000		2199



Wall mounted socket
internal fixing, one cable entry at top, two blind cable entries (can be cut out) at the bottom, enclosure base can be turned 180°, sockets are designed for adding an auxiliary contact switch

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 43

A	P	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 300-500 Hz	
16	4	3030	3034	1418	3032	3035	3028
16	5		3045	1419	3043	3046	3039
32	3	1420	1421	1422		3139	3134
32	4	1423	1424	1425	1426	1427	
32	5		1556	1557	3152	3154	3149



Wall mounted socket
X-CONTACT®, suitable for through wiring, internal fixing, enclosure base can be turned 180°

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 213

A	P	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 300-500 Hz	
63	3	1136A	1137A				
63	4		1140A	1141A	1142A		
63	5		1144A	1145A			



Wall mounted socket
highly resistant to chemicals, with 2 external fixing points, enclosure base can be turned 180°, sockets are designed for adding an auxiliary contact switch

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 622

A	P	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 300-500 Hz	
16	3	9300	9301	9302			
16	4	9320	9321	9322	9323		
16	5		9341	9342			
32	3	9350	9351	9352			
32	4	9370	9371	9372	9373		
32	5	9380	9381	9382			



Wall mounted socket
X-CONTACT®, internal fixing, enclosure base can be turned 180°, with 6 fixing points to accommodate special terminals

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 112

A	P	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 300-500 Hz	
63	3	856	128A	129A			
63	4	130A	131A	132A	133A		
63	5	134A	135A	136A	2007A		

Sockets – Wall mounted, with screw terminals

to DIN EN IEC 60309-2 (VDE 0623-2).  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108. Products with pilot contact available on request.



Wall mounted socket
X-CONTACT®, highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, internal fixing, enclosure base can be turned 180°

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 112

A	P	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 300-500 Hz
63	4			3773		
63	5			3774		



Wall mounted socket
X-CONTACT®

IP67
Std. Pack. Qty: 3
Drawing: 1 MB 162

A	P	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 300-500 Hz
125	4	137	138	139	140	
125	5		142	143	2139	

High resistance to chemicals
High quality plastics.

For use in industrial premises or places of work where the use of chemicals or other aggressive substances makes it necessary to use other plastic materials, MENNEKES offers products with increased stability against fuel, oil and grease, diluted acids and alkali, cleaner and the most aqueous salt solutions. These products are marked in the catalogue with . Products made of AMELAN (grey RAL 7000 or light grey RAL 7035) combine high mechanical, thermal and electrical properties with excellent dimensional stability and resistance to chemicals and are fit for action in chemical plants, in refineries, in the food processing industry, in washdown areas and so on.



High resistance to:

- sea water
- detergents
- edible fat
- aqueous soap solution
- caustic soda
- motor oils
- milk
- caustic potash
- fruit juices
- diesel oil
- gasoline
- aqueous ammonia solution



Sockets – Wall mounted, screwless, with TwinCONTACT

to DIN EN IEC 60309-2 (VDE 0623-2).  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108. Products with pilot contact available on request.



Wall mounted socket

screwless, with TwinCONTACT, external fixing

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 463

A	P	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 300-500 Hz
16	3	1340	1341			
16	4		1342	1343	1344	
16	5			31		
32	3	1345	1346			
32	4		1347	1348	1349	
32	5			32		



Wall mounted socket

screwless, with TwinCONTACT, suitable for through wiring, internal fixing, 4 p and 5 p sockets the enclosure base can be turned 180°

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 209

A	P	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 300-500 Hz
16	3	1719	1720	1721		
16	4		1723	1724	1725	1727
16	5		1730	3331		



Wall mounted socket

screwless, with TwinCONTACT, suitable for through wiring, internal fixing, enclosure base can be turned 180°

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 43

A	P	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 300-500 Hz
16	4	1750	1751	418	1752	1753 1754
16	5	1755	1756	419	1757	
32	3	1851	420	1852		
32	4		1856	421	1857	1858 1859
32	5	1860	1861	422	1862	



Wall mounted socket

screwless, with TwinCONTACT, highly resistant to chemicals, suitable for through wiring, with 2 external fixing points, sockets are designed for adding an auxiliary contact switch, enclosure base can be turned 180°

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 622

A	P	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 300-500 Hz
16	3	9104	9105	9106		
16	4	9120	9121	9122	9123	9124
16	5	9140	9141	9142		
32	3	9150	9151	9152		
32	4		9171	9172	9173	
32	5		9181	9182		



Double Box

screwless, with TwinCONTACT, CEE and socket SCHUKO® in one enclosure

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 354

A	P	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 300-500 Hz
16	5			1649		



Double Box

screwless, with TwinCONTACT, CEE and socket SCHUKO® in one enclosure, with fuse holder, max. 10 A H, also available with French/Belgian, Danish and Swiss standards

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 354

A	P	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 300-500 Hz
16	5			1650		
32	5			1651		

Sockets – Wall mounted, switched and interlocked or fused

to DIN EN IEC 60309-2 (VDE 0623-2).  Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 101 - 108. Products with pilot contact available on request.

NEW 	Wall mounted socket DUOi							
	LED voltage indicator, pre-wired for installation, X-CONTACT®, switched, mechanical DUO-interlock, 3 pole switch, sockets can be padlocked							
	IP44							
	Std. Pack. Qty: 1							
	Drawing: 1 MB 715							
	Wall mounted socket DUO							
	pre-wired for installation, X-CONTACT®, switched, mechanical DUO-interlock, 3 pole switch, sockets can be padlocked							
	IP44							
	Std. Pack. Qty: 1							
	Drawing: 1 MB 713							
	Wall mounted socket							
	X-CONTACT®, switched, with mechanical DUO-interlock, sockets can be padlocked							
	IP44							
	Std. Pack. Qty: 3							
	Drawing: 1 MB 234							
	Wall mounted socket							
	screwless spring terminals, switched, with mechanical DUO-interlock, sockets can be padlocked							
	IP44							
	Std. Pack. Qty: 1							
	Drawing: 1 MB 550							
NEW 	Wall mounted socket DUOi							
	LED voltage indicator, pre-wired for installation, X-CONTACT®, switched, mechanical DUO-interlock, sealed against dust, temporary submersion and high-pressure cleaning, 3 pole switch, sockets can be padlocked							
	IP67 / IP69							
	Std. Pack. Qty: 1							
	Drawing: 1 MB 716							
	Wall mounted socket DUO							
	pre-wired for installation, X-CONTACT®, switched, mechanical DUO-interlock, sealed against dust, temporary submersion and high-pressure cleaning, 3 pole switch, sockets can be padlocked							
	IP67 / IP69							
	Std. Pack. Qty: 1							
	Drawing: 1 MB 714							

Sockets – Wall mounted, switched and interlocked or fused

to DIN EN IEC 60309-2 (VDE 0623-2).  Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 101 - 108.

NEW



Wall mounted socket DUOi R

LED voltage indicator, X-CONTACT®, highly resistant to chemicals, switched, mechanical DUO-interlock, highly heat resistant contact carrier, nickel plated contacts, sealed against dust, temporary submersion and high-pressure cleaning
IP67 / IP69
Std. Pack. Qty: 1
Drawing: 1 MB 716

A	P	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 300-500 Hz	
16	3		5812306T				
16	4			5812406T			
16	5			5812506T			
32	3		5814306T				
32	4			5814406T			
32	5			5814506T			



Wall mounted socket DUO R

X-CONTACT®, highly resistant to chemicals, switched, mechanical DUO-interlock, highly heat resistant contact carrier, nickel plated contacts, sealed against dust, temporary submersion and high-pressure cleaning
IP67 / IP69
Std. Pack. Qty: 1
Drawing: 1 MB 714

A	P	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 300-500 Hz	
16	3		5802306G				
16	5			5802506G			
32	5			5804506G			



Wall mounted socket

X-CONTACT®, switched, with mechanical DUO-interlock, sockets can be padlocked

IP67
Std. Pack. Qty: 3
Drawing: 1 MB 180

A	P	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 300-500 Hz	
63	3	5925A	5911A				
63	4		5109A	5110A	5111A		
63	5		5112A	5113A	5759A		



Wall mounted socket

X-CONTACT®, switched, highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, with mechanical DUO-interlock, sockets can be padlocked

IP67
Std. Pack. Qty: 3
Drawing: 1 MB 180

A	P	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 300-500 Hz	
63	4			7289			
63	5			7290			



Wall mounted socket

X-CONTACT®, switched, with mechanical DUO-interlock

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 177

A	P	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 300-500 Hz	
125	3		7000				
125	4		5887A	5691A	5690A		
125	5		5888A	5692A			



Wall mounted socket

screwless spring terminals, switched, with mechanical DUO-interlock, sockets can be padlocked

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 551

A	P	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 300-500 Hz	
16	3	7620	7621				
16	4			7624			
16	5			7626			
32	3		7629				
32	4			7634			
32	5			7636			

Sockets – Wall mounted, switched and interlocked or fused

to DIN EN IEC 60309-2 (VDE 0623-2).  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108. Products with pilot contact available on request.

Wall mounted socket
highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, switched, with mechanical DUO-interlock, DIN-rail, sockets can be padlocked

IP67
Std. Pack. Qty: 2
Drawing: 1 MB 181/620

A	P	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 300-500 Hz
16	3		7394			
16	4			7291ZA		
16	5			7292		
32	5			7294		

Wall mounted socket
X-CONTACT®, highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, switched, with mechanical DUO-interlock, DIN-rail, sockets can be padlocked

IP67
Std. Pack. Qty: 2
Drawing: 1 MB 181/620

A	P	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 300-500 Hz
63	4			7295		
63	5			7296		

Wall mounted socket
protected by 1 RCD 30 mA

IP44
Std. Pack. Qty: 1
Drawing: 1 MB 168

A	P	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 300-500 Hz
16	3	7123	7125			
16	4			7126		
16	5			7312		
32	3		7469			
32	4			7127		
32	5			7313		

Wall mounted socket
protected by 1 RCD 30 mA

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 378

A	P	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 300-500 Hz
16	3		7148			
16	5			7150		
32	5			7152		

Wall mounted socket
protected by 1 RCD 30 mA and 1 "C"-type MCB

IP44
Std. Pack. Qty: 1
Drawing: 1 MB 521

A	P	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 300-500 Hz
32	5			920962		

Sockets – Wall mounted, switched and interlocked or fused

to DIN EN IEC 60309-2 (VDE 0623-2).  Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 101 - 108. Products with pilot contact available on request.



Wall mounted socket
protected by 1 RCD 30 mA

IP44
Std. Pack. Qty: 1
Drawing: 1 MB 531/ 1 MB 521

A	P	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 300-500 Hz
16	3		910244			
16	5			920838		



Wall mounted socket
protected by 1 RCD 30 mA
and 1 "C"-type MCB

IP44
Std. Pack. Qty: 1
Drawing: 1 MB 531/ 1 MB 521

A	P	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 300-500 Hz
16	3	910245	910584			
16	5			920860		
32	4			920863		



Wall mounted socket
switched, with mechanical
DUO-interlock, protected by
1 RCD 30 mA

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 521

A	P	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 300-500 Hz
16	3	921380	922452			
16	4			922517		
16	5			922453		
32	3	922519	921442			
32	4			922518		
32	5			922218		



Wall mounted socket
switched, with mechanical
DUO-interlock, protected by
2 RCD's 30 mA

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 522

A	P	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 300-500 Hz
16	3		931539			
32	3		934285			
32	5			932285		



Wall mounted socket
protected by 1 RCD 30 mA

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 521

A	P	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 300-500 Hz
16	3	920700	920649			
16	4			920791		
16	5			920278		
32	3		921160			



Wall mounted socket
highly resistant to chemicals,
protected by 1 RCD 30 mA

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 521

A	P	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 300-500 Hz
16	3		920821			
16	5			923275		
32	3		923276			
32	4			923297		

Sockets – Wall mounted, switched and interlocked or fused

to DIN EN IEC 60309-2 (VDE 0623-2).  Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 101 - 108. Products with pilot contact available on request.

Wall mounted socket
protected by 1 RCD 30 mA

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 521

A	P	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	300-500 Hz
63	3		920666				
63	4			920668			
63	5			920670			

Wall mounted socket
switched, with mechanical
DUO-interlock, protected by
1 RCD 30 mA

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 181/620

A	P	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	300-500 Hz
16	3	7393UK	7245UK				
16	4			7246UK			
16	5			7247UK			
32	3	7434	7470UK				
32	4			7248UK			
32	5			7249UK			

Wall mounted socket
switched, with mechanical
DUO-interlock, protected by
1 RCD 30 mA and
1 "K"-type MCB

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 181/620

A	P	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	300-500 Hz
16	3		7252				
16	4			7253			
16	5			7254UK			
32	4			7255			
32	5			7256UK			

Wall mounted socket
X-CONTACT®, switched, with
mechanical DUO-interlock, RCD
(0.03A)

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 181/620

A	P	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	300-500 Hz
63	3		7260				
63	4			7250			
63	5			7251			

Wall mounted socket
X-CONTACT®, switched, with
mechanical DUO-interlock,
protected by 1 RCD 30 mA and
1 "K"-type MCB

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 181/620

A	P	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	300-500 Hz
63	4			7257			
63	5			7258			

Wall mounted socket
X-CONTACT®, switched, with
mechanical DUO-interlock,
protected by 1 RCD 30 mA, add-on
equipment is required to install a
padlock

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 177

A	P	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	300-500 Hz
125	5			5692AM			

Sockets – Cepex

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.

2



Wall mounted socket Cepex
grey, amend index YA to part
number for version without rubber
gland

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 312

A	P	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 300-500 Hz	
16	3	4101	4102				
16	4			4103			
16	5			4105			
32	3		4107				
32	4			4108			
32	5			4110			

Wall mounted socket Cepex

grey, with labelling field

IP44

Std. Pack. Qty: 5

Drawing: 1 MB 317

A	P	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	300-500 V
16	3		4132				
16	4			4133			
16	5			4135			
32	3		4137				
32	5			4140			



Panel mounted socket Cepex

pearl white

IP44

Std. Pack. Qty: 5

Drawing: 1 MB 315

A	P	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 300-500 Hz	
16	3		4112				
16	4		4233	4113			
16	5			4115			
32	3		4117				
32	4			4118	4119		
32	5			4120			



Flush mounted socket Cepex
 pearl white, with flush mounted
 installation box

IP44
 Std. Pack. Qty: 5
 Drawing: 1 MB 336

A	P	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 300-500 Hz	
16	3		4122				
16	4			4123			
16	5			4125			
32	3		4127				
32	4			4128			
32	5			4130			

Cepex double socket

grey, amend index YA to part
number for version without rubber
gland

IP44

Std. Pack. Qty: 5/4

Drawing: 1 MB 350

A	P	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	300-500 Hz
16	3		4219				
16	4			4220			
16	5			4204			
32	3		4224				

	N.B.: All above mentioned types are available in three designs and with SCHUKO® insert:							
	– with smooth cover							
	– with labelling field							
	– with labelling field and lockable cover							
	Also available with data port inserts. For products see page 82.							
	Distance frame on request.							
	Cepex range panel sockets rated 16 A and 32 A have the same dimensions. It is, therefore, possible to interchange single or 3 phase sockets on a 2-gang enclosure to suit your own requirements.							

Sockets – Panel mounted, with screw terminals

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.
Products with pilot contact available on request.

	Panel mounted socket flange 75 x 75 mm, straight		A	P	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 300-500 Hz	
			16	3	1365	1366	1367			3055
			16	4	1388	1389	1390	1391	1392	1393
			16	5	1384	1386	1385	3057	3059	3060
			32	3	1394	1395	1396			
			32	4		1398	1399	1400	1401	1402
			32	5		3454	3451	3452		3447

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 247

	Panel mounted socket X-CONTACT®, flange 107 x 110 mm, straight		A	P	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 300-500 Hz	
			63	3	1260A	1261A				
			63	4		1247A	1248A	1249A		
			63	5			1252A			

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 211

	Panel mounted socket flange 16 A, 3 p: 73.5 x 64 mm, 16 A, 4 + 5 p, 32 A: 100 x 92 mm, inclination 20°, 32 A: sockets optional fitted with auxiliary contact		A	P	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 300-500 Hz	
			16	3	1462	1463	1464		3186	3187
			16	4	1465	1466	1467	1468	1469	1470
			16	5	1471	1472	1473	3188	3189	3190
			32	3	1491	1492	1493		3201	3202
			32	4	1494	1495	1496	1497	1486	
			32	5	1498	1499	1500	3191	3192	3193

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 260

	Panel mounted socket X-CONTACT®, highly heat resistant contact carrier, flange 110 x 106 mm, inclination 20°		A	P	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 300-500 Hz	
			63	3		1147A				
			63	4		1150A	1151A	1152A		
			63	5		1154A	1155A			

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 297

	Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination		A	P	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 300-500 Hz	
			16	3	3031	3036				
			16	4			3072	3074		
			16	5			3093			
			32	3	3110	3112				
			32	4		3140	3136	3114		
			32	5			3153			

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 453

	Panel mounted socket miniflange: 68 x 62 mm, inclination 20°		A	P	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 300-500 Hz	
			16	3	858	857				

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 472

Sockets – Panel mounted, with screw terminals

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108. Products with pilot contact available on request.

	Panel mounted socket flange 16 A: 75 x 75 mm, 32 A: 85 x 75 mm, straight IP67 Std. Pack. Qty: 10 Drawing: 1 MB 141	A	P	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 300-500 Hz	
		16	3	217A	218A	219A			
		16	4		221A	222A	223A		
		16	5	226A	227A	228A			
		32	3	229A	230A	231A			
		32	4	232A	233A	234A	235A		
		32	5		239A	240A			

	Panel mounted socket flange 16 A, 3 p: 73.5 x 64 mm, 16 A, 4 + 5 p, 32 A: 100 x 92 mm, inclination 20°, 32 A sockets optional fitted with auxiliary contact IP67 Std. Pack. Qty: 10 Drawing: 1 MB 251	A	P	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 300-500 Hz	
		16	3	1474	1475	1476			
		16	4	1477	1478	1479	1480		
		16	5		1484	1485			
		32	3	1501	1502	1503			
		32	4	1504	1505	1506	1507		
		32	5		1490	1551			

	Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact IP67 Std. Pack. Qty: 10 Drawing: 1 MB 452	A	P	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 300-500 Hz	
		16	3	903	905				
		16	4			1081	1082		
		16	5			1103			
		32	3	3197	3200				
		32	4			3254	3256		
		32	5			3524			

	Panel mounted socket X-CONTACT®, flange 63 A: 107 x 100 mm, 125 A: 130 x 130 mm, straight IP67 Std. Pack. Qty: 5 Drawing: 1 MB 212/258	A	P	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 300-500 Hz	
		63	3	1263A	1264A	1265A			
		63	4		1123A	1124A	1125A		
		63	5		1127A	1128A			
		125	3		3380				
		125	4	1455	1456	1457	1458		
		125	5		1460	1461	3283		

	Panel mounted socket X-CONTACT®, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601	A	P	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 300-500 Hz	
		63	3	2179A	2180A	2181A			
		63	4		204A	205A	206A		
		63	5		208A	209A	3507		
		125	3		3575				
		125	4		211A	212A	213A		
		125	5		215A	216A			

	Auxiliary contact for standard sockets and panel mounted sockets 16 A and 32 A Std. Pack. Qty: 10	Part no.							
		41000							

Sockets – Panel mounted, screwless, with TwinCONTACT

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.

 Panel mounted socket screwless, with TwinCONTACT, flange 75 x 75 mm, straight IP44 Std. Pack. Qty: 10 Drawing: 1 MB 464	A	P	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 300-500 Hz	
	16	3	1667	1668	1669			1671
	16	4	1672	1673	1674	1675	1676	1677
	16	5	1678	1679	3385	1680		1682
	32	3	1786	1787	1788			
	32	4		1790	1791	1792	1793	
	32	5	1795	1796	1797	1798		1800

 Panel mounted socket screwless, with TwinCONTACT, flange 16 A, 3 p: 73.5 x 64 mm, 16 A, 4 + 5 p, 32 A: 100 x 92 mm, inclination 20°, 32 A: optional fitted with auxiliary contact IP44 Std. Pack. Qty: 10 Drawing: 1 MB 465	A	P	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 300-500 Hz	
	16	3	1631	1632	1633			1635
	16	4		1637	1638	1639	1640	1641
	16	5	1642	1643	3473	1644		1646
	32	3	1733	1734	1735			
	32	4		1739	1740	1741	1742	1743
	32	5		1745	1746	1747		

 Panel mounted socket screwless, with TwinCONTACT, standard flange dimensions 85 x 85 mm, 20° inclination, optional fitted with auxiliary contact IP44 Std. Pack. Qty: 10 Drawing: 1 MB 519	A	P	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 300-500 Hz	
	16	3		3008				
	16	4			3048	3049		
	16	5			3070			
	32	3		3126				
	32	4			3155	3157		
	32	5			3171			

 Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP44 Std. Pack. Qty: 10 Drawing: 1 MB 648	A	P	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 300-500 Hz	
	16	3	1618	1619				

Sockets – Panel mounted sockets, screwless, with TwinCONTACT

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.



Panel mounted socket
screwless, with TwinCONTACT,
flange: 16 A: 75 x 75 mm,
32 A: 85 x 75 mm, straight

IP67
Std. Pack. Qty: 10
Drawing: 1 MB 467

A	P	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 300-500 Hz
16	3	1707	1708	1709		
16	4	1710	1711	1712	1713	1714
16	5	1716	1717	1131		
32	3	1809	1810			
32	4		1813	1814	1815	
32	5			1820		



Panel mounted socket
screwless, with TwinCONTACT,
flange: 16 A, 3 p: 73.5 x 64 mm,
16 A, 4 + 5 p, 32 A: 100 x 92 mm,
inclination 20°, 32 A: optionally fitted
with auxiliary contact

IP67
Std. Pack. Qty: 10
Drawing: 1 MB 466

A	P	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 300-500 Hz
16	3	1700	1701	1702		
16	4		1703	1704		
16	5			3485		
32	3		1802	1803		
32	4		1804	1805	1806	
32	5			1808		



Panel mounted socket
screwless, with TwinCONTACT,
standard flange dimensions
85 x 85 mm, inclination 20°,
optionally fitted with auxiliary contact

IP67
Std. Pack. Qty: 10
Drawing: 1 MB 520

A	P	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 300-500 Hz
16	3		1168			
16	4			1169		
16	5			1173		
32	3	3566	3573			
32	4			3581		
32	5			3590		



Auxiliary contact
for sockets and panel mounted
sockets 16 A and 32 A of product
groups 1018, 1019, 1041, 1049,
1132, 1141, 1146 and 1148 as well
as 32 A of product groups 1044,
1048, 1133 and 1135

Std. Pack. Qty: 10

Part no.
41000

Auxiliary contact.



Function: Change-over contact = NC/NO
Connected load: 16 A (4 A)*/ ~ 250 V
10 A (3 A)*/ ~ 400 V
* for inductive or motor load

Sockets – Panel mounted sockets, switched and interlocked

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.

Panel mounted socket
switched, with mechanical
DUO-interlock, sockets can be
padlocked

IP44
Std. Pack. Qty: 5
Drawing: 5 MB 59

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	3		7503				
16	5			7507			
32	3		7512				
32	5			7516			

Panel mounted socket
switched, with mechanical
DUO-interlock, sockets can be
padlocked

IP67
Std. Pack. Qty: 5
Drawing: 5 MB 57

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	3	7520	7521				
16	4		7523	7524	7525		
16	5			7526			
32	3	7530	7531				
32	4			7534	7535		
32	5			7536			

Our PowerTOP® Xtra Family from 16 to 125 A. Plugs and connectors for all applications.

In industrial applications, in mining, in railway and transport companies, in ports, harbors, shipyards and campgrounds: in all of these situations and many more, it's imperative to safely and reliably distribute electricity in challenging or harsh conditions. As specialists for plugs and sockets, we've packed our formidable CEE know-how into a top-notch product family for you. The PowerTOP® Xtra plugs and connectors are available

in 16, 32, 63, and 125 A versions. Many of them have been proving themselves in practice in a wide variety of work environments worldwide for years. All PowerTOP® Xtra connectors feature our ingenious X-CONTACT® contact sleeve technology.

PowerTOP® Xtra: plugs and connectors for professional electricians!



PowerTOP® Xtra is a complete product family with solutions for every application area. In this regard plugs and connectors in 16 A and 32 A have been completely reworked and optimised in every detail!



PowerTOP® Xtra IP67 / IP69

The waterproof plugs and connectors from our PowerTOP® Xtra series, featuring the proven ErgoCONTACT screw connection technology and ergonomic enclosure design, have been expanded with a new feature. In addition to protection against temporary submersion, they also provide additional protection against water with particularly high pressure and high temperatures. This makes them suitable for long-term use in environments with frequent high-pressure cleaning. Thanks to sealing with a screw cap and a bayonet ring, no water can penetrate the plugs and connectors with IP67 / IP69 protection.

Ergonomically optimised design – secure handling and a long life

16 to 32 A

A special design and robust materials make sure that you can safely and easily use our PowerTOP® Xtra plugs and connectors under even the most demanding conditions and that they will have an extra-long life. Thanks to an ergonomically optimised design, nubbed grip zones, and nubbed rubberised cable gland, our CEE plugs and connectors rest securely in the hand without slipping, also in wet and moist conditions, and can be connected and disconnected several thousand times. The PowerTOP® Xtra models with IP67 / IP69 protection are completely waterproof and additionally sealed during high-pressure cleaning.



3

The members of the PowerTOP® Xtra family bring four success factors from professionals for professionals:



Ergonomically optimised design



Easier and safer connection



Simplified assembly



**Effortless connecting and disconnecting
with X-CONTACT®**

63 to 125 A

Our plugs and connectors feature an integrated opening aid on the connector that makes it easy for you to open the hinged lid and hold it in that position. There's also a rotating lock between the front and the strain relief that can be quickly and securely closed without requiring you to tighten any screws. In the 63 and 125 A versions, the cable gland fits flush to the enclosure, making it especially easy for you to keep the surfaces of the plug and connector clean. In the plugs and connectors of the 63 and 125 A versions (with IP67 protection class), the seals on the connector hinged lid and front of the plug are molded on and therefore impossible to lose.

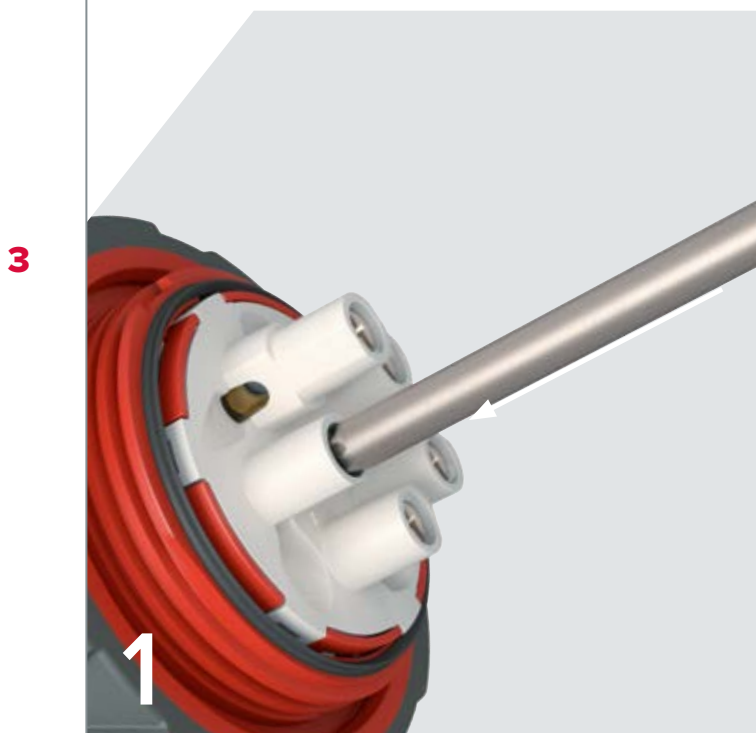


Easier and safer connection with ErgoCONTACT.



All products of the PowerTOP® Xtra family are available with screw terminals. We've developed them further to create our easy-to-use ErgoCONTACT connection technology for

16 and 32 A plugs and connectors. They enable easy, secure and time-saving installation.

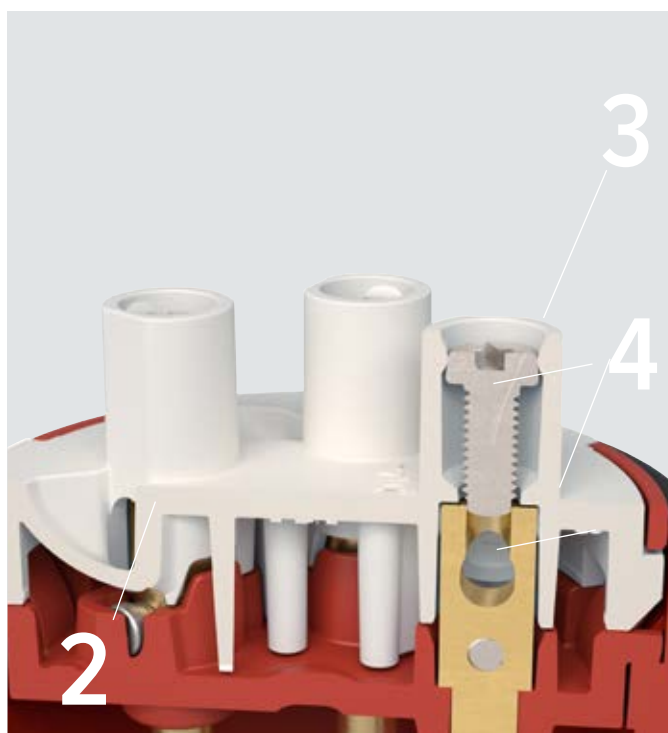


1 Ergonomically effective installation

With ErgoCONTACT, you insert the screwdriver from the top instead of from the side. This makes it easier to achieve the required torque and the pressure is applied directly from the grip. All of the screws point in the same direction. This saves time, because it's no longer necessary to rotate the front part in your hand in order to tighten the contact screws of the individual poles one after the other.

2 Conductor insertion

Curved conductor guidance channels easily and securely move the conductor ends into the contacts.



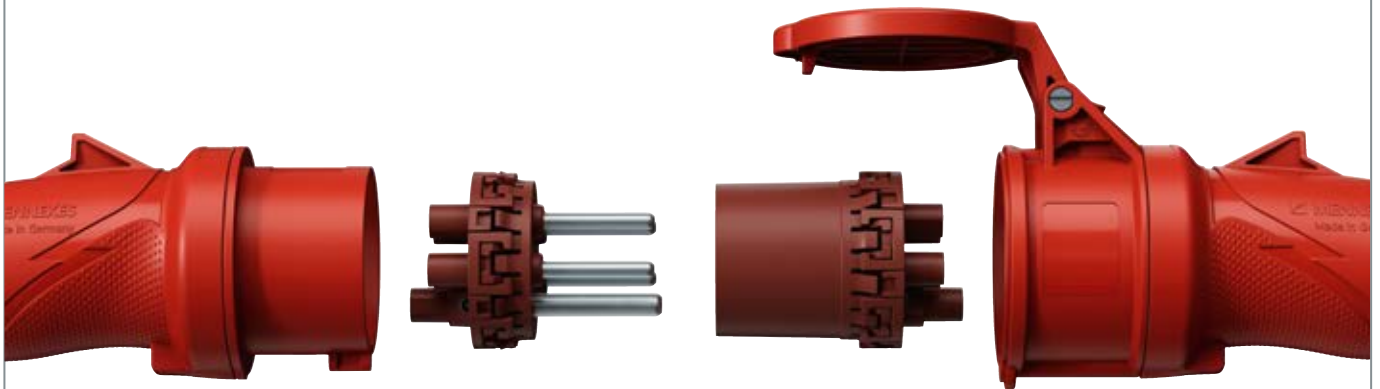
3 Guide collar

The screw trajectory is additionally supported by a guide collar which prevents slide-off and minimises the danger of injury.

4 Captive combination head screw

Each contact has only one screw: a captive combination head screw that is permanently integrated in the guide collar in the factory and can be turned using either a Phillips or a flathead screwdriver. Since only one screw has to be set for each contact, installation is easy and time-saving.

PowerTOP® Xtra R for use in corrosive environments.



Highly heat resistant contact carrier and nickel plated contacts. These appliances are guaranteed to be resistant to corrosive environments: High humidity, salt or acidic air, corrosive gases and vapours. Accordingly, they are mainly used in the food processing industry, in breweries, dairies, farms and market gardens, wineries.

3



AM-TOP® Phase inverter plug 16 A and 32 A.

If three phase equipment rotates in the wrong direction the phase inverter plug solves the problem rapidly and safely. Release the lock with a screw-driver and turn the insulating element in which the two phase pins are fitted. Done - the motor will rotate in the correct direction. Two outer conductors rotatable through 180°.



Angled plug VarioTOP Ergonomic. Practical. Safe.

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

X-CONTACT®

X-CONTACT® 

The new generation of contact sleeves.

Better contact

Due to a completely new manufacturing process, the X-CONTACT® sleeve has resilient properties based solely on its material characteristics, without the need to use any additional spring elements. Thanks to the shape of the X-CONTACT® sleeve, a particularly safe contact closure can be achieved.



Less effort!

The special design of the X-CONTACT® reduces the effort of insertion and withdrawal by up to 50%. An advantage that simplifies work processes and improves safety especially with high electrical currents. With X-CONTACT®, MENNEKES creates a safe contact closure and easy handling at a new, equally high level.

Learn more about the new generation of contact sleeves at:

www.mennekes.co.uk/x-contact



The X principle

Easy handling meets safe connections.

Innovative

Slotted sleeves with their resilient material properties reduces the force needed to connect and disconnect the plug by up to 50 %.

X-CONTACT® – intelligently innovative!

Simple

The connection is easier to handle when compared to conventional contact sleeves.

X-CONTACT® – simply brilliant!

Durable

No signs of wear, permanently fatigue-proof and self-cleaning by connecting and disconnecting.

X-CONTACT® – lasting solution!

Safe

A higher degree of safety of handling – for a safe contact closure.

X-CONTACT® – double safety!



3

NEW



A	P	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 300-500 Hz	
63	3	13101	13102				
63	4		13105	13106	13107		
63	5		13111	13112			

PowerTOP® Xtra

Watertight in extreme conditions.

NEW



3

PowerTOP® Xtra plugs and connectors with IP67 / IP69 protection

For use in areas with special environmental conditions, such as the food industry, the plugs and connectors with IP67 / IP69 protection are particularly well-suited. Our plugs and connectors with protection class IP67 / IP69 are protected against temporary submersion and are also resistant to high-pressure water and high temperatures. This ensures that they remain waterproof even after repeated high-pressure cleaning and can be safely and easily operated thanks to their nubbed grip zones, even in wet and damp conditions. When plugged, the rubberised bayonet ring keeps the plug tightly connected with the connector or socket.

Plugs and connectors – Plugs

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

	Plug PowerTOP® Xtra R		rubberised grip area, highly heat resistant contact carrier, frame terminals, nickel plated contacts, cable gland and sealing, strain relief and protection against kinking					
	IP67							
	Std. Pack. Qty: 5							
	A	P	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 300-500 Hz	
	63	3	13201	13202	13203			
	63	4	13204	13205	13206	13207	13208	13209
	63	5	13210	13211	13212	13213		13214
	125	3	13215	13216				
	125	4	13217	13218	13219	13220		
	125	5	13223	13224	13225	13226		13227
	A	P	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 300-500 Hz	
	16	5			3980			
	16	5		3983	3982			
	Angled plug with grommet		cable entry hood rotating up to 60° to the left or the right, 3981 and 3980: in colour code 3983 and 3982: in electric grey					
	IP44							
	Std. Pack. Qty: 10							
	A	P	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 300-500 Hz	
	16	3	1410	1411				
	16	4		891	315			
	32	3		3306				
	32	4		3646	3987			
	32	5		3424	3266			

Plugs and connectors – Wall mounted inlets

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.



Wall mounted inlet
for internal and external fixing,
for hinged lids for retrofit see
part no. 41482 and 41489

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 213

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	3	843	844				



Wall mounted inlet
with hinged lid, for internal
and external fixing

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 212

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	3	846	847				



Wall mounted inlet
for external fixing,
for hinged lids for retrofit see
part no. 41482 and 41489

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 221

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	4			800			
16	5			801			
32	3		802				
32	4			803			
32	5			804			



Wall mounted inlet
enclosure base with stamped recess
for quick cutting out

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 32

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	3	331	332	333			
16	4	334	335	336	337	921	
16	5	340	341	342	2359	2668	2400
32	3	343	344	345			
32	4		347	348	349		
32	5	352	353	354	2386		



Wall mounted inlet
for a suitable watertight protective
cover for 63 A see part no. 40434

IP67
Std. Pack. Qty: 5/1
Drawing: 2 MB 36

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
63	3	1216	1107	1217			
63	4		356	357	358		
63	5		360	361			
125	4		363	364	365		
125	5		367	368			



Hinged lid
for retrofitting for wall mounted inlets

Std. Pack. Qty: 10

Description	Part no.
for part no. 843 and 844	41482
for part no. 800, 801 and 3517	41489

Plugs and connectors – Panel mounted inlets

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.



Panel mounted inlet

16 A: flange 66 x 66 mm, fixing distance 52 x 52 mm, 32 A: flange 72 x 72 mm, fixing distance 60 x 60 mm, a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 68

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	5			1408			
32	5			1409			



Panel mounted inlet

flange 75 x 75 mm, fixing distance: 60 x 60 mm, a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 68

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	5			853			



Panel mounted inlet

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

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 173/2

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	3		812				
16	4		837	813	814		
16	5			815			
32	3		817				
32	4		838	819	820		
32	5			821			



Panel mounted inlet

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

IP44
Std. Pack. Qty: 5
Drawing: 2 MB 155

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
63	3		1981				
63	4		1984	1982	824		
63	5			1688			



Panel mounted inlet

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

IP67
Std. Pack. Qty: 10
Drawing: 2 MB 187/2

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	3	825	826				
16	4		839	827	828		
16	5			829			
32	3	830	831				
32	4		840	832	833		
32	5			834			



Panel mounted inlet

highly heat resistant contact carrier, nickel plated contacts, 63 A: a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking

IP67
Std. Pack. Qty: 5
Drawing: 2 MB 166

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
63	3	835	836				
63	4		3704	3656	3657		
63	5			3658			
125	3		3665				
125	4		3413	3583	3600		
125	5			1983			

Plugs and connectors – Panel mounted inlets, phase sequence test plugs

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.

	Panel mounted inlet		A	P	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 300-500 Hz	
	16	4				372	373			
	16	5					379			
	32	3			380	381				
	32	4			383	384	385			
	32	5				390	391			
IP44 Std. Pack. Qty: 10 Drawing: 2 MB 73										

	Panel mounted inlet with hinged lid		A	P	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 300-500 Hz	
	16	4			392	393	394	395		
	16	5			398	399	400			
	32	3			401	402	403			
	32	4				405	406	407		
	32	5			410	411	412			
IP44 Std. Pack. Qty: 10 Drawing: 2 MB 43										

	Phase sequence test plug to VDE 0413, part 7, DIN-EN 61557-7		A	P	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 300-500 Hz	
	16	5				3231	1414			
	32	4				3528	3460	3461		
	32	5				3232	1415			
	63	4				3420	1436	3917		
	63	5					1437			
IP44 Std. Pack. Qty: 5										

3

Phase sequence test plug
Enables safe control of the direction of the rotating field for CEE sockets.

According to VDE 0100-550 part 4.7 rotary current sockets must be connected such that a right-hand rotating field is achieved - the sockets seen from front in clockwise direction.

The test plug differs from a standard plug by its transparent enclosure indicating a right-hand or left-hand rotating field or a missing phase by means of two control lamps.

Correct rotating field: Green lamp lights up.

Incorrect rotating field: Red lamp lights up.

Phase missing: Both lamps light up.

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



Plugs and connectors – Phase inverter plugs, accessories for plugs

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



Phase inverter plug AM-TOP®
single part body, cable gland and sealing, strain relief and protection against kinking

IP44
Std. Pack. Qty: 10

A	P	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 300-500 Hz	
16	4		338	339			
16	5		318	319			
32	4		396	397			
32	5			322			



Phase inverter plug AM-TOP®
single part body, cable gland and sealing, strain relief and protection against kinking

IP67
Std. Pack. Qty: 10

A	P	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 300-500 Hz	
16	4		3338	3339			
16	5			325			
32	4		3340	3341			
32	5		327	328			

3



Protective cover
for IP67 inlets and plugs

Std. Pack. Qty: 50

Description	Part no.
16 A, 3 p	40784
16 A, 4 p	40778
16 A, 5 + 7 p	40785
32 A, 3 + 4 p	40841
32 A, 5 + 7 p	40786
63 A, 3, 4 + 5 p	40787
125 A, 3, 4 + 5 p	40788



Plug guard
prevents insertion of the plug that unauthorised persons cannot use appliances or installations

Std. Pack. Qty: 40

Part no.
41416



Plug guard.

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

Plugs and connectors – Phase inverter inlets

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.

 IP44 Std. Pack. Qty: 10 Drawing: 2 MB 32	Wall mounted phase inverter inlet						
	A	P	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 300-500 Hz
	16	4			3343		
	16	5			2511		
	32	4		3345	3346		
	32	5			2478		
 IP44 Std. Pack. Qty: 10 Drawing: 2 MB 73	Panel mounted phase inverter inlet						
	A	P	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 300-500 Hz
	16	5			329		
	32	4			3368		
	32	5		913	330		

X-CONTACT®

The new generation of contact sleeves.

X-CONTACT®
INSIDE





Video:
X-CONTACT®

Get more information on the new generation of contact sleeves:
on pages 10/11 or at
www.mennekes.co.uk/x-contact



Plugs and connectors – Connectors

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. Products with pilot contact available on request.

	Connector PowerTOP® Xtra S with SafeCONTACT							
	X-CONTACT®, screwless, with insulation displacement technology, ergonomic enclosure design with nubbed grip zones, rubberised cable gland with sealing, strain relief and protection against kinking							
	IP54							
	Std. Pack. Qty: 10							
	A	P	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 300-500 Hz	
	16	3		14521				
	16	5			14522			
	32	5			14523			

	Connector PowerTOP® Xtra with ErgoCONTACT							
	X-CONTACT®, ergonomic enclosure design with nubbed grip zones, rubberised cable gland with sealing, strain relief and protection against kinking, thread lock and safety slide, area for self-adhesive labels							
	IP54							
	Std. Pack. Qty: 10							
	A	P	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 300-500 Hz	
	16	3	14501	14502	14503			
	16	4	14504	14505	14506	14507	14508	
	16	5		14509	14510	14511		
	32	3	14512	14513	14514			
	32	4		14515	14516	14517	14518	
	32	5		14519	14520			

3

	Connector PowerTOP® Xtra R with ErgoCONTACT							
	X-CONTACT®, ergonomic enclosure design with nubbed grip zones, highly heat resistant contact carrier, nickel plated contacts, rubberised cable gland with sealing, strain relief and protection against kinking							
	IP54							
	Std. Pack. Qty: 10							
	A	P	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 300-500 Hz	
	16	3	14550	14551		14553	14554	14555
	16	4	14556	14557	14558	14559		14560
	16	5	14561	14562	14563		14565	14567
	32	3	14572	14573	14574		14575	14576
	32	4	14577	14578	14579	14580		14581
	32	5	14582		14584	14585	14586	14587

NEW

	Connector PowerTOP® Xtra with ErgoCONTACT							
	X-CONTACT®, ergonomic enclosure design with nubbed grip zones, rubberised cable gland with sealing, rubberised bayonet ring, sealed against dust, temporary submersion and high pressure cleaning							
	IP67 / IP69							
	Std. Pack. Qty: 10							
	A	P	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 300-500 Hz	
	16	3	14619	14620				
	16	4		14621	14622	14623		
	16	5			14624			
	32	3		14625				
	32	4		14626	14627	14628		
	32	5			14629			

NEW

	Connector PowerTOP® Xtra R with ErgoCONTACT							
	X-CONTACT®, ergonomic enclosure design with nubbed grip zones, highly heat resistant contact carrier, nickel plated contacts, rubberised bayonet ring, sealed against dust, temporary submersion and high pressure cleaning							
	IP67 / IP69, Std. Pack. Qty: 10							
	A	P	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 300-500 Hz	
	16	3	14630	14631	14632	14633	14634	
	16	4	14635	14636	14637	14638	14639	14640
	16	5	14641	14642	14643	14644	14645	
	32	3	14649	14650	14651			
	32	4	14652	14653	14654	14655	14656	14657
	32	5	14658	14659	14660	14661		

	Connector PowerTOP® Xtra							
	X-CONTACT®, rubberised grip area, frame terminals, cable gland and sealing, highly heat resistant contact carrier, strain relief and protection against kinking							
	IP54							
	Std. Pack. Qty: 5							
	A	P	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 300-500 Hz	
	63	3	14101	14102				
	63	4		14105	14106	14107		
	63	5		14111	14112			

Plugs and connectors – Connectors

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. Products with pilot contact available on request.



Connector PowerTOP® Xtra

X-CONTACT®, rubberised grip area, highly heat resistant contact carrier, frame terminals, cable gland and sealing, strain relief and protection against kinking

IP67

Std. Pack. Qty: 5

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
63	3	14201	14202	14203			
63	4	14204	14205	14206	14207	14208	14209
63	5	14210	14211	14212	14213		14214
125	3	14215	14216				
125	4	14217	14218	14219	14220		
125	5	14223	14224	14225	14226		14227



Angled Connector with grommet

IP44

Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	3		1438				



Hanging clip

for PowerTOP® plugs and connectors

Std. Pack. Qty: 100

Description	Part no.
for 16 A, 3 to 5 p and 32 A, 3 + 4 p	15453000
for 32 A, 5 p	15452000

Success in series.

A new approach to combination units. Extensively configurable combination units in six different sizes – the AMAXX® range by MENNEKES. With an appealing and unique design in many variations for almost all applications.

The AMAXX® combination with five segments completes the program. We also feature largescale combination units with all known AMAXX® advantages.

AMAXX® Supporter – AMAXX® combination and mounting unit

Our mounting unit AMAXX® Supporter allows you to use our wall mounted AMAXX® receptacle combinations as a hanging combination unit. This way you effectively reach more areas of your factory or plant. The mounting unit has appropriate drill holes for front and back mounting of AMAXX® combinations in 260 x 225 mm or 390 x 225 mm. The Supporter can selectively be fitted with a pressurised air outlet and the respective maintenance unit, making it an individually equipped supply station and a cost-efficient solution.



AMAXX® s is the combination unit for restricted installation in widths and depths. It can be optionally attached on the side or swivel-mounted.



The smallest AMAXX® combination unit with one segment rounds off the program. It is available in protection type IP44 and IP67 as well as from 16 A, 3-pole up to 32 A, 5-pole and as AMAXX® DUO switched and interlocked.



The space-saver AMAXX® s

AMAXX® s is the optimum solution for restricted spaces. Besides mounting on the rear, you can also mount it on the right or the left thanks to the optionally available attachment set. Or you opt for the variant that can be swivelled by 90 degrees on the left or the right for even more comfortable application.



4

AMAXX® combination units by MENNEKES combine energy and data in one product family and have been highly successful for many years.

MENNEKES offers the right combination for each requirement: from the smallest AMAXX® combination unit with one segment, through the largest with five segments to the suspended combination unit. Fully configurable in six different enclosure dimensions and as always in an attractive design. AMAXX® by MENNEKES provides the electrician with almost infinite combination possibilities.

Variety of versions.

- Protection type: IP44 and IP67.
- Enclosure made of high-quality plastic or AMELAN in aggressive atmospheres with high resistance to chemicals as well as highly heat resistant contact carrier and nickel plated contacts.
- Colours: bottom part black, top part grey (grey RAL 7035 (IP44) or yellow RAL 1021 available on request).
- Equipped with: CEE sockets from 16 A, 3 p up to 63 A, 5 p, grounding-type sockets in acc. with many national standards, DUO sockets switched and interlocked from 16 A, 3 p up to 32 A, 5 p as well as fuse elements.



4

You can rely on it.

MENNEKES quality: tested and certified.

Like all other MENNEKES combinations, the AMAXX® products are also subject to the extensive MENNEKES quality control. Each AMAXX® combination unit is thoroughly tested and certified prior to delivery.

ZERTIFIKAT

CERTIFICATE

**für stückgeprüfte Qualität
nach DIN EN 61439.**

for individually tested quality
according to IEC 61439.



Hiermit bestätigen wir, dass diese Steckdosen-Kombination
einer Stückprüfung unterzogen wurde.
Herewith we confirm that this receptacle combination has
passed a routine test.

Der MENNEKES-Sicherheitstest berücksichtigt nicht nur
die elektrischen Prüfanforderungen nach DIN EN 61439,
sondern beinhaltet darüber hinaus auch eine allpolige
Hochspannungsprüfung.

The MENNEKES safety test not just include the requirements
for electrical tests acc. to IEC 61439 but also a high voltage
test for all poles.

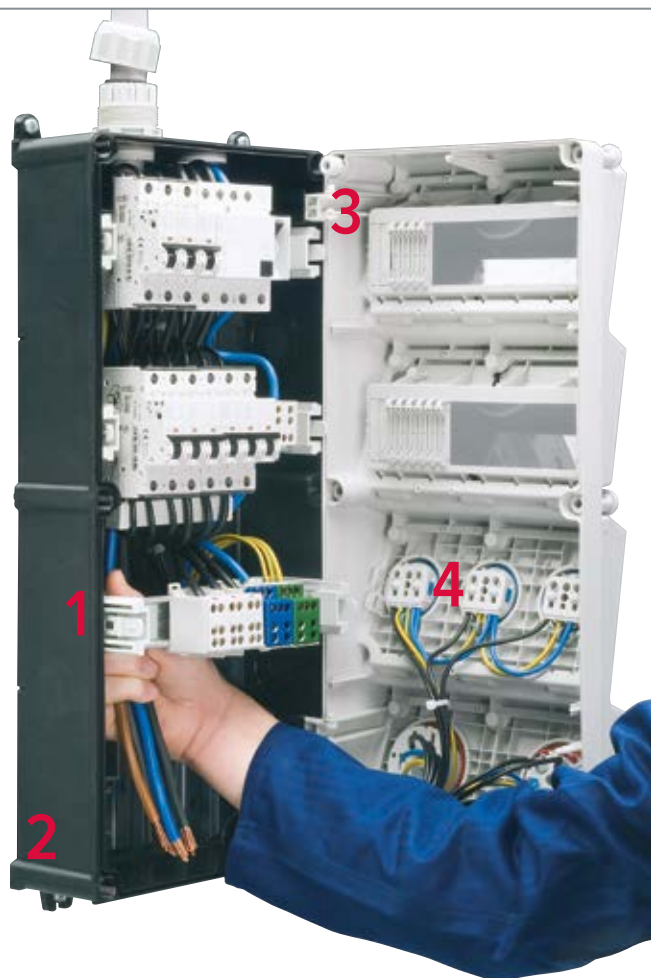
Dietmar Löcker
Bereichsleiter Qualität / Division Manager Quality

MENNEKES
Elektrotechnik GmbH & Co. KG
Alloys-Mennekes-Straße 1
57399 KIRCH-UND-DEM / GERMANY

MENNEKES
MY POWER CONNECTION

Phone: +49 2723 41-1
Fax: +49 2723 41-214
www.MENNEKES.de





Sophisticated details.

- 1 Lifiable DIN rails.**
Lifiable DIN rails and a large, smooth wiring space significantly ease the insertion as well as connection of large cables.
- 2 One-man installation.**
Shorter installation times with the new, user-friendly external fixing.
- 3 Hinged cover.**
The hinged cover, which opens to one side, eases connection work.
- 4 Ready for application.**
All combinations are pre-wired for installation and tested for electric safety and quality.



- Generally angled insertion direction, also with sockets SCHUKO®



- Keeps both hands free because inspection windows fold downwards



- Especially fast opening and closing of the enclosure due to captive double-threaded cover screws



- Window can be locked with a padlock, enclosure can be lead sealed

Combination units – Wall mounted, AMAXX®

Pre-wired for installation (except part no. 910214 and 910394), IP44, enclosure front cover light grey RAL 7035, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 109 - 110.



CEE sockets
CEE sockets
Sockets British standard
3 x 13 A, 2 p+E, 230 V
Fusing
1 RCD 40 A, 4 p, 0.03 A 3 MCB's 13 A, 1 p, C
Connection
For 1 cable up to 3 x 10 mm ²
Connection and load values
Enclosure size
260 x 225 mm (H x W)
Part no.
921015



CEE sockets
2 CEE 16 A, 3 p, 110 V
CEE sockets
Sockets British standard
Fusing
Connection
For 2 cables up to 3 x 4 mm ²
Connection and load values
Enclosure size
130 x 225 mm (H x W)
Part no.
910214



CEE sockets
CEE sockets
2 CEE 16 A, 3 p, 230 V
Sockets British standard
Fusing
Connection
For 2 cables up to 3 x 4 mm ²
Connection and load values
Enclosure size
130 x 225 mm (H x W)
Part no.
910394

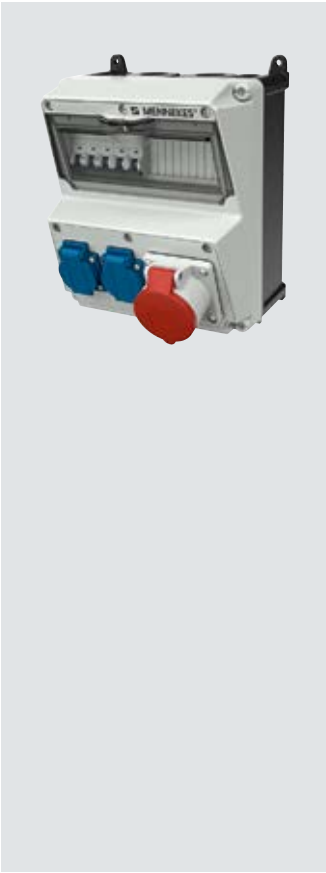


CEE sockets
1 CEE 16 A, 5 p, 400 V
CEE sockets
Sockets British standard
2 x 13 A, 2 p+E, 230 V
Fusing
1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 2 MCB's 13 A, 1 p, C
Connection
For 1 cable up to 5 x 10 mm ²
Connection and load values
Pre-fuse max. 63 A InA 28 A RDF 0.95
Enclosure size
260 x 225 mm (H x W)
Part no.
920286

Combination units – Wall mounted, AMAXX®

Pre-wired for installation, IP44, enclosure front cover light grey RAL 7035, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 109 - 110.

4



CEE sockets
1 CEE 16 A, 5 p, 400 V
CEE sockets
Sockets British standard
2 x 13 A, 2 p+E, 230 V
Fusing
1 MCB 16 A, 3 p, C 2 MCB's 13 A, 1 p, C
Connection
For 1 cable up to 5 x 10 mm²
Connection and load values
Pre-fuse max. 63 A InA 29 A RDF 1
Enclosure size
260 x 225 mm (H x W)
Part no.
920464



CEE sockets
2 CEE 16 A, 5 p, 400 V Sockets, switched, with mechanical DUO-interlock
CEE sockets
Sockets British standard
Fusing
2 MCB's 16 A, 3 p, C
Connection
For 2 cables up to 5 x 25 mm²
Connection and load values
Pre-fuse max. 100 A InA 32 A RDF 1
Enclosure size
390 x 225 mm (H x W)
Part no.
930031



CEE sockets
2 CEE 16 A, 5 p, 400 V
CEE sockets
Sockets British standard
Fusing
1 RCD 40 A, 4 p, 0.03 A 2 MCB's 16 A, 3 p, C
Connection
For 1 cable up to 5 x 10 mm²
Connection and load values
Pre-fuse max. 63 A InA 29 A RDF 0.9
Enclosure size
260 x 225 mm (H x W)
Part no.
920019



CEE sockets
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
CEE sockets
Sockets British standard
2 x 13 A, 2 p+E, 230 V
Fusing
1 RCD 40 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 2 MCB's 13 A, 1 p, C
Connection
For 1 cable up to 5 x 16 mm²
Connection and load values
Pre-fuse max. 40 A InA 40 A RDF 0.85
Enclosure size
390 x 225 mm (H x W)
Part no.
931234

Combination units – Wall mounted, AMAXX®

Pre-wired for installation, IP44, enclosure front cover light grey RAL 7035, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 109 - 110.

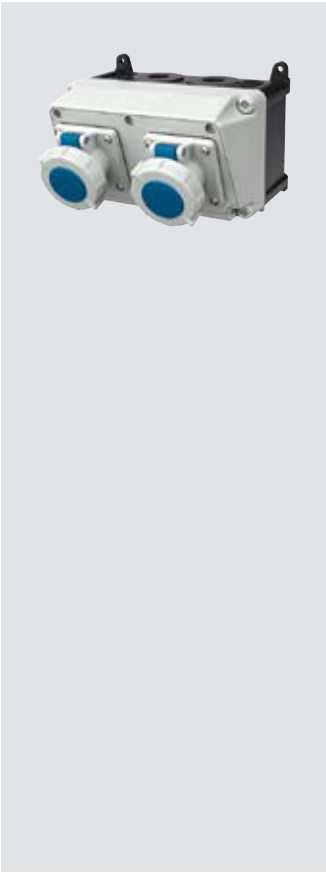


CEE sockets
1 CEE 63 A, 5 p, 400 V 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
CEE sockets
Sockets British standard
2 x 13 A, 2 p+E, 230 V
Fusing
1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 2 MCB's 13 A, 1 p, C
Connection
For 1 cable up to 5 x 16 mm ²
Connection and load values
Pre-fuse max. 63 A InA 63 A RDF 0.65
Enclosure size
520 x 225 mm (H x W)
Part no.
941137

Combination units – Wall mounted, AMAXX®

Pre-wired for installation, IP67, enclosure front cover light grey RAL 7035, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 109 - 110.

4



CEE sockets
CEE sockets
2 CEE 16 A, 3 p, 230 V
Sockets British standard
Fusing
Connection
For 2 cables up to 3 x 10 mm ²
Connection and load values
Enclosure size
130 x 225 mm (H x W)
Part no.
910355



CEE sockets
2 CEE 16 A, 3 p, 110 V
CEE sockets
Sockets British standard
Fusing
1 RCD 25 A, 2 p, 0.03 A
Connection
For 1 cable up to 3 x 10 mm ²
Connection and load values
Enclosure size
260 x 225 mm (H x W)
Part no.
920700



CEE sockets
CEE sockets
2 CEE 16 A, 3 p, 230 V
Sockets British standard
Fusing
1 RCD 25 A, 2 p, 0.03 A
Connection
For 1 cable up to 3 x 10 mm ²
Connection and load values
Pre-fuse max. 16 A InA 25 A RDF 1
Enclosure size
260 x 225 mm (H x W)
Part no.
920649



CEE sockets
2 CEE 32 A, 5 p, 400 V Sockets, switched, with mechanical DUO-interlock 2 CEE 16 A, 5 p, 400 V
CEE sockets
Sockets British standard
Fusing
1 RCD 63 A, 4 p, 0.03 A 2 MCB's 32 A, 3 p, C 2 MCB's 16 A, 3 p, C
Connection
For 1 cable up to 5 x 16 mm ²
Connection and load values
Pre-fuse max. 63 A InA 58 A RDF 0.6
Enclosure size
260 x 225 mm (H x W)
Part no.
900946

Combination units – Accessories, wall mounted

Accessories for AMAXX® combination units.

			
AMAXX® standard cable glands	AMAXX® screw set	AMAXX® attachment set	AMAXX® support/carrier frame
deep black RAL 9005 M 20 - for cable from 6-13 mm IP44: Part no. 990607 IP67: Part no. 990611 M 25 - for cable from 9-17 mm IP44: Part no. 990610 M 32 - for cable from 13-21 mm IP44: Part no. 990608 IP67: Part no. 990612 M 40 - for cable from 14-28 mm IP67: Part no. 990609	consisting of 4 screws 6 x 70 mm Pozidrive size 3, steel galvanized and 4 dowels 8 x 50 mm, for concrete, porous concrete, solid brick, perforated brick Part no. 990606	for lateral installation of AMAXX® s combinations, for mounting either on the left or right hand side (set of 2 for 1 combination) Part no. 990620	signal yellow RAL 1003, suitable for AMAXX® combination units with the sizes: 260 x 225 mm, 390 x 225 mm and 520 x 225 mm for wall mounting in protection type IP67 or as mobile combination units with carrying handle and with feeder cable in protection type IP44 and IP67 Part no. 15696


AMAXX® membrane cable glands
deep black RAL 9005, incl. blanking plug M 25 - for cable from 9-17 mm Part no. 990623 M 32 - for cable from 13-21 mm Part no. 990625 M 40 - for cable from 16-28 mm Part no. 990627

Selection chart for membrane cable glands			
AMAXX® combination units	Standard cable entries	Recommendation of usage membrane cable gland*	
with 1 segment Enclosure: 130 x 225 mm (H x W)	top: 2 x M 25 2 x M 20 bottom: 2 x M 25 2 x M 20	1 x M 25	alternative: 1 x M 20
with 2 segments Enclosure: 230 x 225 mm (H x W)	top: 2 x M 32 2 x M 20 bottom: 2 x M 32 2 x M 20	1 x M 32	alternative: 2 x M 20
with 3 segments Enclosure: 390 x 225 mm (H x W)	top: 2 x M 40 2 x M 20 bottom: 2 x M 40 2 x M 20	1 x M 40	alternative: 2 x M 20
with 4 segments Enclosure: 520 x 225 mm (H x W)	top: 2 x M 40 2 x M 20 bottom: 2 x M 40 2 x M 20	1 x M 40 and 1 x M 20	alternative: 3 x M 20
with 5 segments Enclosure: 650 x 225 mm (H x W)	top: 2 x M 40 2 x M 20 bottom: 2 x M 40 2 x M 20	1 x M 40 and 2 x M 20	alternative: 4 x M 20
* At least required for the following ambient conditions: Reduction of the ambient temperature by 45 °C through 10-minutes of heavy rain (enclosure, e.g heated to 60 °C through sunlight, subsequent cloudburst with water temperature of 15 °C). If temperature differentials are greater/less, accordingly more or fewer membrane cable glands must be used.			

Combination units – Wall mounted, AMAXX®

Highly resistant to chemicals made of AMELAN, pre-wired for installation, IP44 and IP67, enclosure front cover grey RAL 7000, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm).
Fusing behind a transparent cover. For drawings and dimensions see page 109 - 110.



4

CEE sockets
CEE sockets
2 CEE 16 A, 3 p, 230 V
Sockets British standard
Fusing
1 RCD 25 A, 2 p, 0.03 A
Connection
For 1 cable up to 3 x 10 mm²
Connection and load values
Pre-fuse max. 16 A InA 25 A RDF 1
Enclosure size
260 x 225 mm (H x W)
Part no.
920821

Combination units – Suspended, Supporter

Mounting unit made from light metal.
Installation according to ingress protection classes IP44 and IP67 available.



Mounting unit

Hangable mounting unit, made from light metal, with holes for front and rear installation of sockets and combination units
2 enclosures 260 x 225 mm
2 enclosures 390 x 225 mm
dimensions (H x D x W):
535 x 233 x 348 mm
colour:
grey (RAL 9006)

Part no. 18444



Pneumatic maintenance unit

¼" pre-assembled inlet pressure max. 16 bar,
1 oil mist lubricator,
water separator 0 - 10 bar,
pressure reducer with pressure gauge,
1 quick coupling ¼",
connection: 1 threaded nozzle of 9 mm

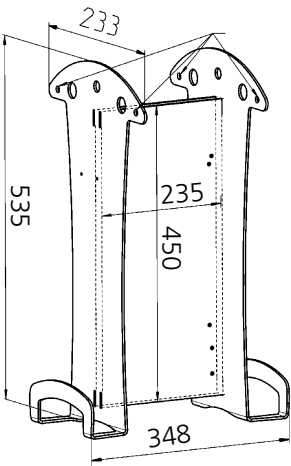
Part no. 18431



Pneumatic connection

single,
1 quick coupling ¼",
connection: 1 threaded nozzle of 9 mm

Part no. 18430



Drilled holes to accommodate the 4 round steel chains which are held together with a 6 mm karabiner.
With holes for front and rear installation for AMAXX® combination units 260 x 225 mm or 390 x 225 mm.

1 MB 451

Power distributor for electricity and pressurised air. A fast and cost-efficient solution with individual configuration with combination units and compressed air equipment.

Includes a 350 mm chain set for ceiling installation.



Combination units – DELTA-BOX

Pre-wired for installation, IP44. With cable grip and installed hanging hook. Other combination units on request. Dimensions page 111.



Fitted with
3 CEE 16 A, 5 p, 400 V
Fusing
Connection
For 1 cable up to 5 x 6 mm²
Connection and load values
Protection type
IP44
Part no.
92917



Fitted with
3 CEE 32 A, 5 p, 400 V
Fusing
Connection
For 1 cable up to 5 x 6 mm²
Connection and load values
Protection type
IP44
Part no.
90839



Fitted with
1 CEE 16 A, 5 p, 400 V 3 SCHUKO® 16 A, 230 V
Fusing
Connection
For 1 cable up to 5 x 6 mm²
Connection and load values
Protection type
IP44
Part no.
92658



Fitted with
2 CEE 16 A, 5 p, 400 V 1 CEE 16 A, 3 p, 230 V
Fusing
Connection
For 1 cable up to 5 x 6 mm²
Connection and load values
Protection type
IP44
Part no.
92893

4

DELTA-BOX
the classic unit.

With cable grip. Each DELTA-BOX comes with a suspension bracket.
Available in IP44, IP67 and IP68.



Combination units – Wall mounted combination units

Pre-wired for installation, IP44 / 45, enclosure front cover light grey RAL 7035, Fusing behind a transparent cover. For drawings and dimensions see page 109 - 110.



CEE sockets
1 CEE 63 A, 5 p, 400 V 1 CEE 32 A, 5 p, 400 V
CEE sockets
1 CEE 32 A, 3 p, 230 V
CEE sockets
1 CEE 16 A, 3 p, 100-130 V
Fusing
1 RCD 63 A, 4 p, 0.03 A 1 RCD 40 A, 4 p, 0.03 A 1 RCD/MCB 32 A, 1 p+N, C, 0.03 A 1 RCD 25 A, 2 p, 0.03 A 1 MCB 63 A, 3 p, C 1 MCB 32 A, 3 p, C 1 MCB 10 A, 1 p, D 1 MCB 10 A, 2 p, C 1 Single-Phase Transformer 230V/110V (55-0-55V) 1.8KVA
Connection
For 1 cable up to 5 x 35 mm ²
Connection and load values
Enclosure size
460 x 260 mm (H x W)
Part no.
8063261



CEE sockets
1 CEE 32 A, 5 p, 400 V
CEE sockets
1 CEE 16 A, 3 p, 230 V
CEE sockets
1 CEE 16 A, 3 p, 100-130 V
Fusing
1 RCD 40 A, 4 p, 0.03 A 1 RCD 25 A, 2 p, 0.03 A 1 RCD 25 A, 2 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 2 p, C 1 MCB 16 A, 1 p, C 1 MCB 10 A, 1 p, D 1 connector 63 A, 3 p 1 Single-Phase Transformer 230V/110V (55-0-55V) 1.8KVA
Connection
For 1 cable up to 5 x 16 mm ²
Connection and load values
Pre-fuse max. 63 A InA 42 A RDF 0.75
Enclosure size
460 x 260 mm (H x W)
Part no.
8067864

Combination units – Socket strips

Pre-wired for installation, IP44. Other combinations on request. For drawings and dimensions see page 111.



Fitted with
3 CEE 16 A, 5 p, 400 V
Fusing
1 RCD 40 A, 4 p, 0.03 A
Connection
For 1 cable up to 5 x 10 mm²
Connection and load values
Protection type
IP44
Part no.
95472



Fitted with
2 CEE 16 A, 5 p, 400 V 1 SCHUKO® 16 A, 230 V
Fusing
Connection
For 1 cable up to 5 x 6 mm²
Connection and load values
Protection type
IP44
Part no.
96703



Fitted with
3 CEE 16 A, 3 p, 110 V
Fusing
Connection
For 1 cable up to 3 x 6 mm²
Connection and load values
Protection type
IP44
Part no.
96227



Fitted with
3 CEE 16 A, 3 p, 230 V
Fusing
Connection
For 1 cable up to 3 x 6 mm²
Connection and load values
Protection type
IP44
Part no.
96489

4



Socket strips

the versatile units.

Suspendable, portable or for wall mounting. Pre-wired for installation. With cable gland. Available in IP44.

EverGUM

Flexible safety.



With the EverGUM range MENNEKES provide a solid rubber alternative to enclosures in plastics and sheet steel. This is an alternative which is suitable for the most diverse environments, especially when there is likely to be exposure to rough handling or aggressive cleaning agents. These products can also be supplied to conform to the standards of other European countries.

The outstanding advantages:

- Resistant to weather and ageing
- High dimensional stability and precision
- Good resistance to acids and alkalis
- High dielectric strength and creep resistance

The allround power-packages for mobile use in industry, craft and trade. They can accept quite a knock – neither their design nor their function will be impaired. Additional benefit: they are stackable which allows space-saving storage.

Tested safety, EverGUM details.

The closed lower side of the enclosure with a ground clearance of 77 mm prevents ingress of water. The panel mounted sockets can be replaced from outside. Hinged cover provided with stainless steel quick release clips. MCB's and in RCD's are immediately accessible after opening the lid. All energised parts even with the lid open are covered so that they are contact safe – in accordance with BGV A3. Screw or padlock offers additional safety.



Socket strip EverGUM.

Window size for six or eight modules for vertical installation.



Combination units – EverGUM

Pre-wired for installation, IP44. Fusing behind a transparent cover. Colour: signal yellow. Other variations with CEE sockets 3, 4 or 5 pole and with grounding-type sockets of French/Belgian, British, Swiss and US-standards on request. Dimensions page 111.



Fitted with
3 CEE 16 A, 5 p, 400 V
Fusing
Connection
2 m H07RN-F5G2.5 with CEE-plug 16 A, 5 p, 400 V
Connection and load values
Protection type
IP44
Part no.
70029

4



Fitted with
1 CEE 32 A, 3 p, 230 V 4 CEE 16 A, 3 p, 230 V
Fusing
1 RCD/MCB 32 A, 1 p+N, C, 0.03 A 4 MCB's 16 A, 1 p, C
Connection
1 Inlet 32 A, 3 p, 230 V
Connection and load values
Pre-fuse max. 32 A InA 32 A RDF 1
Protection type
IP44
Part no.
7420224



Stainless steel surface mounted and flush mounted combination units.

Safe. Practical. Timelessly elegant.

- Protection type IP43 or IP44 with closed door, even when plugs are inserted
- The cable guard aperture is sufficiently dimensioned for leading through cables
- Safety lock protects against unauthorised access



CombiTOWER® Outdoors and indoors.

Short routes to your energy source for industry, workshops, assembly shops, loading platforms, etc.

4



Power posts Rugged. Vandalism-proof.

Steel power posts provide a safe means of energy supply, protection against car-crossing. Hot-dip galvanised and powder coated. Available in various sizes.

Combination units – Stainless steel

CombiTOWER® from stainless steel (material 1.4301), material 1.4571 on request.



CombiTOWER® – the short path to the power source.

The ideal energy supply station for industry, workshops, assembly halls and loading ramps. Suitable for combinations with sockets from 16 A to 63 A. Custom colours according to RAL available upon request.

Practical handling.

Enclosure dimensions:

1043 x 254.5 x 250 mm

Easy installation thanks to removable cover.

The side-hinged upper housing parts of the AMAXX® combinations can be opened without obstruction.

CombiTOWER® is also available with a lockable door.

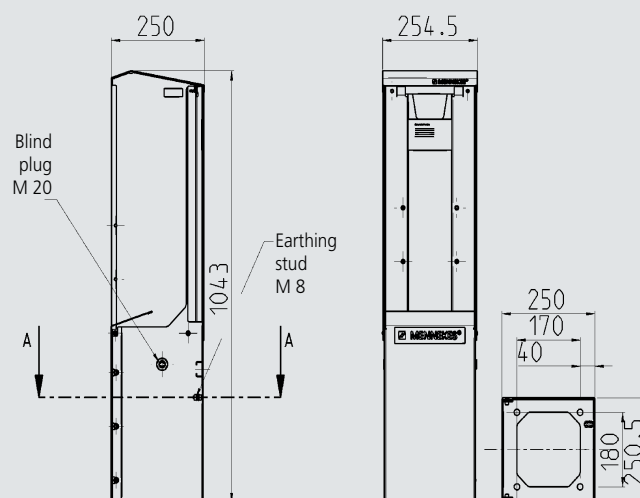
When using 63 A sockets with a plugged-in connector, the door cannot be locked.

Outdoor electrical installations made easy.

The short path: All required energy connections (electricity, compressed air, water) are directly available at the workstation.

Convenient installation: Built-in standard rails for cable strain relief and openings for M 20 compressed air connections are provided. M 8 grounding bolt is integrated into the enclosure. Depending on the enclosure size, the front panel can be mounted in an offset position, either upwards or downwards.

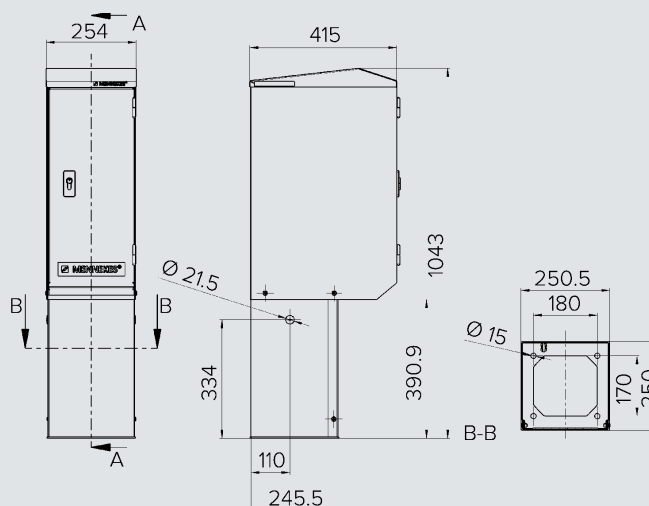
Easy to order: Select the desired combination size with the appropriate configuration or socket, determine the CombiTOWER® according to the enclosure size, and specify both order numbers.



1 MB 517

valid for part no.
15678 and 15679

For order numbers 15738 and 15739, only the dimensions of the front panel differ.



1 MB 518

valid for part no.
15680 and 15681

Measurements for the unit enclosure and door vary for part no. 15740 and 15741.

Combination units – Stainless steel

CombiTOWER® from stainless steel (material 1.4301), material 1.4571 on request.



Title
CombiTOWER®
Fitted with
with removable cover, painted signal yellow (RAL 1003) or bright finish.
Part no. for AMAXX® enclosures 260 x 225 mm, 390 x 225 mm and 520 x 225 mm
* Part no. for AMAXX® enclosures 650 x 225 mm
Enclosure size
1043 x 254.5 x 250 mm (H x W x D)
Part no.
15679 / * 15739 yellow
15678 / * 15738 bright finish



Title
CombiTOWER®
Fitted with
with lockable door and removable cover, painted signal yellow (RAL 1003) or bright finish
Part no. for AMAXX® enclosures 260 x 225 mm, 390 x 225 mm and 520 x 225 mm
* Part no. for AMAXX® enclosures 650 x 225 mm
Enclosure size
1043 x 254 x 415 mm (H x W x D)
Part no.
15681 / * 15741 yellow
15680 / * 15740 bright finish

Special plugs and sockets – SCHUKO® and grounding-type

SCHUKO® sockets to DIN 49440, DIN VDE 0620, 2 p+E, 230 V. Other versions available on request. For drawings and dimensions see page 101 - 108.



Panel mounted socket SCHUKO®
with hinged lid, 3 plug-in terminals
or 3 screw terminals as connecting
terminals for 1.5 - 2.5 mm²

IP54
Std. Pack. Qty: 100
Drawing: 1 MB 410

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
grey	16	230		11010	11030
blue	16	230		11011	11031
black	16	230		11012	11032
red	16	230		11013	11033
grey	16	230	•	11060	
blue	16	230	•	11061	11081



**Panel mounted socket SCHUKO®
with front gasket**
with hinged lid, 3 plug-in terminals
or 3 screw terminals as connecting
terminals for 1.5 - 2.5 mm²

IP54
Std. Pack. Qty: 100
Drawing: 1 MB 586

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
grey	16	230		11310	11330
blue	16	230		11311	11331
black	16	230		11312	11332
red	16	230		11313	11333



Panel mounted socket SCHUKO®
without hinged lid, 3 plug-in
terminals or 3 screw terminals as
connecting terminals for
1.5 - 2.5 mm²

IP20
Std. Pack. Qty: 100
Drawing: 1 MB 450

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
blue	16	230		11511	11531
black	16	230		11512	11532
blue	16	230	•	11561	11581



Wall mounted socket SCHUKO®
with hinged lid, 3 plug-in terminals
as connecting terminals for 1.5 - 2.5
mm², sockets can be linked in a row
vertically. Slide on top, slot on bottom
of enclosure

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 27/30

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
grey	16	230		10081	
blue	16	230		10082	
black	16	230		10083	



**Wall mounted socket
grounding-type**
French/Belgian system (NF) with
hinged lid, 3 plug-in terminals as
connecting terminals for 1.5 - 2.5
mm², sockets can be linked in a row
vertically. Slide on top, slot on bottom
of enclosure

IP44
Std. Pack. Qty: 50
Drawing: 1 MB 27/30

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
blue	16	230	•	10092	



**Panel mounted socket
grounding-type**
French/Belgian system (NF), with
hinged lid, 3 plug-in terminals or
3 screw terminals as connecting
terminals for 1.5 - 2.5 mm²

IP44
Std. Pack. Qty: 100/20
Drawing: 1 MB 410

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
grey	16	230		11110	
blue	16	230		11111	11131
grey	16	230	•	11160	11180
blue	16	230	•	11161	11181
black	16	230	•	11162	

Special plugs and sockets – SCHUKO® and grounding-type

SCHUKO® sockets to DIN 49440, SCHUKO® plugs to DIN 49441, DIN VDE 0620, 2 p+E, 230 V. Other versions available on request. For drawings and dimensions see page 101 - 108.

	Panel mounted socket grounding-type	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
	French/Belgian system (NF), without hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm²	blue	16	230	•	11611	11681
		blue	16	230		11661	
IP20 Std. Pack. Qty: 100/20 Drawing: 1 MB 450							

	Panel mounted socket grounding-type	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
	British standard, with hinged lid and seal; flange 50 x 50 mm, fixing holes 38 x 38 mm	blue	13	230	•		10718
IP44 Std. Pack. Qty: 100 Drawing: 1 MB 584							

	Panel mounted socket grounding-type	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
	British standard, matching cover frame, with hinged lid and seal	black	13	230	•		10713
IP44 Std. Pack. Qty: 10 Drawing: 1 MB 422							

	Panel mounted socket NEMA	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
	USA and Canada, with hinged lid	blue	15	125			10087
IP44 Std. Pack. Qty: 20 Drawing: 1 MB 421							

	Plug SCHUKO®	Colour	Ampere	Voltage	Part no.	
	with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm² up to H07RN-F	grey	16	230	10749	
		black	16	230	10754	
		orange	16	230	10837	
		blue	16	230	10838	
		red	16	230	10839	
		yellow	16	230	10840	
		green	16	230	10841	
IP44 Std. Pack. Qty: 20						

	Connector SCHUKO®	Colour	Ampere	Voltage	Part no.	
	with grommet and lid for cables up to 3 x 2.5 mm² up to H07RN-F	grey	16	230	10751	
		black	16	230	10755	
		orange	16	230	10842	
		blue	16	230	10843	
		red	16	230	10844	
		yellow	16	230	10845	
		green	16	230	10846	
IP44 Std. Pack. Qty: 10						

Special plugs and sockets – SCHUKO® and grounding-type

to DIN 49442/43 and DIN VDE 0620. Other versions available on request. For drawings and dimensions see page 101 - 108.



Wall mounted socket SCHUKO®
with hinged bayonet lock lid

IP68
Std. Pack. Qty: 10
Drawing: 1 MB 347

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
blue / grey	16	230			10863



Panel mounted socket SCHUKO® or NF
with hinged bayonet lock lid, rectangular flange, four fixing holes or two stamped recesses for quick perforation

IP68
Std. Pack. Qty: 10
Drawing: 1 MB 627

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
blue / grey	16	230		17002	17006
blue / grey	16	230	•		17014



Plug SCHUKO®
combined PE-conductor acc. to German and French/Belgian standards, with bayonet ring, with protective cap attached by a strap, for cables up to 3 x 2.5 mm², up to H07RN-F

IP68
Std. Pack. Qty: 5

Colour	Ampere	Voltage	plug-in terminals	screw terminals
blue / grey	16	230		10828



Connector SCHUKO®
with bayonet lock lid attached by a strap, for cables up to 3 x 2.5 mm², up to H07RN-F

IP68
Std. Pack. Qty: 5

Colour	Ampere	Voltage	plug-in terminals	screw terminals
blue / grey	16	230		10833

7 pole

For multifunctional applications.



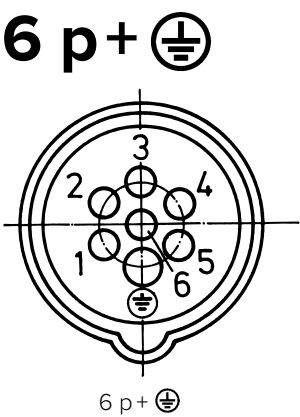
These 7 pole plugs and sockets provide solutions where there are multifunctional requirements in industry, farming and commerce.

This number of poles provides solutions in the following fields:

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

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

Frequency Hz	Rated operating voltage V	Position of ground contact
100 to 300	above 50	10
above 300 to 500	above 50	2
50	110	4
	230	9
	400	6
	500	7
50	220 to 240 downstream from isolating transformer	12



Special plugs and sockets – 7 pole

to DIN EN IEC 60309-1 (VDE 0623-1). Colour: light grey and/or colour code.  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.



Wall mounted socket
with highly heat resistant contact carrier, nickel plated contacts, internal fixing, enclosure base can be turned 180°

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 257

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	733	734	1035
32	7	735	736	1040



Wall mounted socket
highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, 2 external fixings, enclosure can be turned 180°

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 622

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	9530	9531	9532
32	7		9591	



Wall mounted socket
switched, mechanical DUO-interlock, highly heat resistant contact carrier, nickel plated contacts, 6 pole switch with 2 auxiliary contacts (1 NO and 1 NC), sockets can be padlocked

IP67
Std. Pack. Qty: 1
Drawing: 1 MB 382

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7		7306	
32	7		7307	



Panel mounted socket
highly heat resistant contact carrier, nickel plated contacts, 20° inclination

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 260

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	737	738	1045
32	7		740	1050



Panel mounted socket
highly heat resistant contact carrier, nickel plated contacts, 20° inclination

IP67
Std. Pack. Qty: 10
Drawing: 1 MB 251

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	2883	2459	2296
32	7		2317	2212



Plug AM-TOP®
highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking

IP44
Std. Pack. Qty: 10

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	741	742	1055
32	7	743	744	1060

Special plugs and sockets – 7 pole

to DIN EN IEC 60309-1 (VDE 0623-1). Colour: light grey and/or colour code. Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.



Plug AM-TOP®

highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking

IP67

Std. Pack. Qty: 10

A	P	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 300-500 Hz
16	7		3776	3777	3913	
32	7			2324	2213	



Wall mounted inlet

highly heat resistant contact carrier, nickel plated contacts

IP44

Std. Pack. Qty: 10

Drawing: 2 MB 147

A	P	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 300-500 Hz
16	7			2166		
32	7			2167		



Panel mounted inlet

highly heat resistant contact carrier, nickel plated contacts

IP44

Std. Pack. Qty: 10

Drawing: 2 MB 73

A	P	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 300-500 Hz
16	7		749	750	1075	
32	7			752	1080	



Panel mounted inlet

highly heat resistant contact carrier, nickel plated contacts, with protective cap

IP67

Std. Pack. Qty: 10

Drawing: 2 MB 203

A	P	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 300-500 Hz
16	7			3914		
32	7			3915		



Connector AM-TOP®

with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking

IP44

Std. Pack. Qty: 10

A	P	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 300-500 Hz
16	7		745	746	1065	
32	7		747	748	1070	



Connector AM-TOP®

highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking

IP67

Std. Pack. Qty: 10

A	P	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 300-500 Hz
16	7		3783	3916	3784	
32	7			2255	2460	

Special plugs and sockets – 600 V to 690 V

to DIN EN IEC 60309-2 (VDE 0623-2). Colour: grey

	Plug PowerTOP® Xtra R with ErgoCONTACT screw terminals ErgoCONTACT, highly heat resistant contact carrier, nickel plated contacts, ergonomic enclosure design with nubbed grip areas, rubberised cable gland with sealing, thread lock and safety slide IP54 Std. Pack. Qty: 10	<table><tr><th>A</th><th>P</th><th>600 - 690 V 50 a. 60 Hz</th></tr><tr><td>16</td><td>5</td><td>13599</td></tr><tr><td>32</td><td>5</td><td>13610</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	600 - 690 V 50 a. 60 Hz	16	5	13599	32	5	13610									
A	P	600 - 690 V 50 a. 60 Hz																		
16	5	13599																		
32	5	13610																		
	Connector PowerTOP® Xtra R with ErgoCONTACT screw terminals ErgoCONTACT, X-CONTACT®, highly heat resistant contact carrier, nickel plated contacts, ergonomic enclosure design with nubbed grip areas, rubberised cable gland with sealing IP54 Std. Pack. Qty: 10	<table><tr><th>A</th><th>P</th><th>600 - 690 V 50 a. 60 Hz</th></tr><tr><td>16</td><td>5</td><td>14599</td></tr><tr><td>32</td><td>5</td><td>14610</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	600 - 690 V 50 a. 60 Hz	16	5	14599	32	5	14610									
A	P	600 - 690 V 50 a. 60 Hz																		
16	5	14599																		
32	5	14610																		
	Plug PowerTOP® Xtra R highly heat resistant contact carrier, nickel plated contacts, rubberised grip area, cable gland and sealing, enclosure with thread lock and safety slide, strain relief and protection against kinking IP67 Std. Pack. Qty: 10	<table><tr><th>A</th><th>P</th><th>600 - 690 V 50 a. 60 Hz</th></tr><tr><td>63</td><td>4</td><td>13236</td></tr><tr><td>63</td><td>5</td><td>13237</td></tr><tr><td>125</td><td>4</td><td>13238</td></tr><tr><td>125</td><td>5</td><td>13239</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	600 - 690 V 50 a. 60 Hz	63	4	13236	63	5	13237	125	4	13238	125	5	13239			
A	P	600 - 690 V 50 a. 60 Hz																		
63	4	13236																		
63	5	13237																		
125	4	13238																		
125	5	13239																		

Special plugs and sockets – Special 1 h clock position

to DIN EN IEC 60309-2 (VDE 0623-2). Colour: grey

	Plug PowerTOP® Xtra R with ErgoCONTACT		50 - 500 V	
	Connector PowerTOP® Xtra R with ErgoCONTACT		50 - 500 V	
	Plug PowerTOP® Xtra R with ErgoCONTACT		50 - 500 V	
	Connector PowerTOP® Xtra R with ErgoCONTACT		50 - 500 V	

Special plugs and sockets – For low voltage

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.

Low voltages.

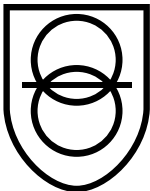
When portable electric appliances are used in environments where conductive materials are present and where movement is restricted, they must be operated at low voltage or they must be electrically isolated, e.g. in or on boilers, containers, pipework systems, steel scaffolding or similar installations. The same applies to rooms containing exposed conductive materials. Portable lamps must be operated at low voltage.

Stationary appliances may be operated at a safe low voltage or they may be electrically isolated, e.g. lamps installed temporarily for maintenance purposes, cleaning or other types of work, which are connected to the power supply by means of movable cables. Only use tools of protection type II or III. Also, lamps for barrels and movable lamps for ovens must be operated at low voltage.

Furthermore, low voltage 25 V AC should be used for all mobile appliances without insulation which are used on animals, e.g. shears, milking machines, etc.

Requirements on plugs and sockets for low voltages.

Plugs and sockets must be different from those used at other voltages and must not be provided with an earth contact (VDE 0100 part 410:1997-01).



Wall mounted socket
external fixing

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 294

A	P	20 - 25 V	40 - 50 V	20 - 25 V 40 - 50 V	20 - 25 V 40 - 50 V
		50 a. 60 Hz	50 a. 60 Hz	100-200 Hz	===
16	2	1825	1831		1829
16	3	1832	1837	1835	
32	2	1838	1844		1842
32	3	1845	1850	1848	



Wall mounted socket
internal fixing

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 137

A	P	20 - 25 V	40 - 50 V	20 - 25 V 40 - 50 V	20 - 25 V 40 - 50 V
		50 a. 60 Hz	50 a. 60 Hz	100-200 Hz	===
16	2	577	578		583
16	3	584	585		
32	2		591		596
32	3	597	598	599	

Special plugs and sockets – For low voltage

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.



Panel mounted socket
flange 55 x 55 mm, straight

IP44

Std. Pack. Qty: 10

Drawing: 1 MB 136

A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V ==
16	2	603	604		609
16	3	610	611	612	
32	2	616	617		622
32	3	623	624	625	



Panel mounted socket
flange 75 x 75 mm, straight

IP44

Std. Pack. Qty: 10

Drawing: 1 MB 247/1 MB 292

A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V ==
16	2	1602	1603		2617A
16	3	1657	1661		
32	2				2488A
32	3			1579	



Panel mounted socket
flange 68 x 62 mm, 20° inclination

IP44

Std. Pack. Qty: 10

Drawing: 1 MB 231

A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V ==
16	2	1270	2855		2841
16	3	2845	1272		
32	2	1271	2864		2869
32	3	2870	1273	2852	



Panel mounted socket
20° inclination

IP44

Std. Pack. Qty: 10

Drawing: 1 MB 236

A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V ==
32	3			2837	

Special plugs and sockets – For low voltage

to DIN EN IEC 60309-2 (VDE 0623-2). Other voltages and frequencies available on request. For drawings and dimensions see page 101 - 108.



Plug
with cable gland

IP44
Std. Pack. Qty: 10

A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V = = =
16	2	655A	656A		661A
16	3	662A	663A	664A	
32	2	668A	669A		674A
32	3	675A	676A	677A	



Wall mounted inlet
external fixing

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 160

A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V = = =
16	2	1955	1961		1959
16	3	1962	1967		
32	2	1968			1972
32	3	1975	1980	1978	



Connector
with cable gland

IP44
Std. Pack. Qty: 10

A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V = = =
16	2	707A	708A		713A
16	3	714A	715A	716A	
32	2		721A		
32	3		728A	729A	

Special plugs and sockets – Isolating transformer 12 h

Color: grey. Other voltages and frequencies on request.

	Plug PowerTOP® Xtra R with ErgoCONTACT		Isolating transformer	
	Connector PowerTOP® Xtra R with ErgoCONTACT		Isolating transformer	
	Plug PowerTOP® Xtra R with ErgoCONTACT		50 - 500 V	
	Connector PowerTOP® Xtra R with ErgoCONTACT		50 - 500 V	



160 A - 600 A

Heavy duty versions for industry.

The heavy duty range supplements the plugs and sockets currently covered by EN 60309-2, making available rated currents of 160 A - 600 A and rated voltages of up to 1000 V. Their design is based on the following standard: EN 60309-1.

- Shock hazard protected using contact covers on sockets and connectors
- Surface protection against corrosive environment for contacts
- Mechanical lock and electrical lock with fuse protection for specific heavy duty sockets

Visit our website to explore our entire range of heavy duty products for 160 A - 600 A.



You can find our heavy duty versions on our website:
www.MENNEKES.co.uk/heavydutyversions

Special plugs and sockets – Energy and data

Protection type IP44.
The right choice for control stations, storage areas, laboratories, airports, production lines, etc. Cepex data port sockets are operated with standard patch cables and can be combined with Cepex sockets CEE and/or SCHUKO®. For wall-/panel mounting or installation in cable ducts.

Cepex data port sockets.

1 The bottom part of the enclosure can be turned by 180 degrees, which allows cable insertion from above or below without additional work.

2 Protection type IP44 with closed cover or with plug inserted.

3 Suitable for double RJ45 ports, Cat. 3 to Cat. 7 and manufacturerindependent RJ45 Keystones. Openings according to IEC 60603-7.

4 Lockable even with connected cables. The safety lock prevents unauthorized access.

5 Visible labeling field.

Simple:
All types are equipped with a membrane gland fitting M 25 for two cables 3-9 mm. Simply push in the cable – done!

Extra:
A metric cable gland M 25 / 2 x 8 is optionally available.

Title
Network enclosure AMAXX®
Fitted with
2 Cepex enclosures (part no.: 4345G) prepared for 4 RJ45 connection modules, type E-DAT module or OpDAT module LC or ST (brand METZ Connect - Not in scope of supply)
Cable entry: 2 x M 25 at the top (closed), 2 x M 25 at the bottom (closed) and 2 x M 20 top and bottom (closed)
Network enclosure AMAXX® also available with 1 Cepex enclosure (part no.: 25104, 25104GE)
Enclosure size
130 x 225 mm (H x W)
Part no.
25102 light grey

Special plugs and sockets – Energy and data

Colours: light grey (RAL 7035), pure white (RAL 9010), grey (RAL 9006), deep black (RAL 9005). For drawings and dimensions see page 101 - 108.

	Cepex enclosure, light grey as wall mounted socket, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index "G" IP44 Std. Pack. Qty: 5 Drawing: 1 MB 564	Brand	Type	Data module	Part no.
		Commscope	Twist	—	4350 ¹⁾
		Commscope	Jack	2 x 41457	4360
		Commscope	CO Plus	—	4370 *
		METZ Connect	E-DAT module	2 x 41455	4340 ³⁾
		Rutenbeck	iso-8/8 Up0S	1 x 41492	4320
		TKM	KDMF	1 x 41452	4300 ¹⁾
	Cepex enclosure, light grey as panel mounted socket, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index "G" IP44 Std. Pack. Qty: 5 Drawing: 1 MB 563	Brand	Type	Data module	Part no.
		Commscope	Twist	—	4352 ¹⁾
		Commscope	Jack	2 x 41457	4362
		Commscope	CO Plus	—	4372 *
		METZ Connect	E-DAT module	2 x 41455	4342 ³⁾
		Rutenbeck	iso-8/8 Up0S	1 x 41492	4322
		TKM	KDMF	1 x 41452	4302 ¹⁾
	Cepex enclosure, pure white as panel mounted socket, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index "G" IP44 Std. Pack. Qty: 5 Drawing: 1 MB 563	Brand	Type	Data module	Part no.
		Commscope	Twist	—	4354 ¹⁾
		Commscope	Jack	2 x 41457	4364
		Commscope	CO Plus	—	4374 *
		Rutenbeck	iso-8/8 Up0S	1 x 41492	4324
		TKM	KDMF	1 x 41452	4304 ¹⁾
	Cepex enclosure, grey as panel mounted socket, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index "G" IP44 Std. Pack. Qty: 5 Drawing: 1 MB 563	Brand	Type	Data module	Part no.
		Rutenbeck	iso-8/8 Up0S		4326
	Cepex enclosure, deep black as panel mounted socket, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index "G" IP44 Std. Pack. Qty: 5 Drawing: 1 MB 563	Brand	Type	Data module	Part no.
		METZ Connect	Module E-DAT	2 x 41455	4345 ³⁾
		Rutenbeck	iso-8/8 Up0S	1 x 41492	4367
		Reichle & De-Massari	Module Real 10	2 x 25056	4378 ²⁾

¹⁾ Cepex enclosures also suited for data modules of Telegärtner (AMJ 45 Up/O, cat.6a) and Nexans (LANmark-6 Snap-in Connector with fixing ring Modular Outlet 50).

²⁾ Cepex enclosures also suited for the connection modules Telegärtner (AMJ/UMJ cat.6+, Setec (XKJ), Corning (FutureCOM S10TENE Keystone), Dätwyler (KS-T6A, MS-K, PS-GG45), Rutenbeck (UM real cat.6a, A), LEONI MegaLine, Keystone.

³⁾ Cepex enclosures also suited for LEONI MegaLine.

* The data inserts/modules Commscope CO Plus are not part of the MENNEKES delivery program!

Overview of mounting options for RJ45 modules in empty Cepex enclosures.

RJ45 modules and Keystones			Cepex panel mounted socket																Cepex surface-mounted socket							
Brand	Type	Part no. data module	Part no. enclosure Light grey (RAL 7035)							Part no. enclosure Pure white (RAL 9010)							Part no. enclosure Deep black (RAL 9005)	Part no. enclosure Grey (RAL 9006)	Part no. enclosure Light grey (RAL 7035)							
			4302	4322	4342	4352	4362	4372	4377*	4304	4324	4344	4354	4364	4374	4345	4367	4378*	4326	4300	4320	4340	4350	4360	4370	4375*
Commscope	Jack	41557					●							●										●		
Commscope	CO Plus							●							●										●	
Telegärtner	AMJ 45 Up/O		●			●				●										●			●			
Telegärtner	AMJ/UMJ module								●									●								●
Nexans	LANmark connector		●			●				●			●							●			●			
METZ Connect	E-DAT module	41455			●							●				●						●				
Rutenbeck	iso-8/8 UP0S	41492		●							●						●		●		●					
Rutenbeck	UM real								●									●								●
TKM	KDMF	41452	●							●										●						
Reichle & De-Massari	Module Real 10	25056							●									●								●
Setec	XKJ								●									●								●
Corning	FutureCom								●									●								●
Dätwyler	KS-T6A								●									●								●
LEONI	MegaLine				●				●			●				●		●				●				●

* Keystones

Our keystone-variations can be fitted with **supplier independent** modules. Beside RJ45 modules a large variety of electrical and optical connections for data transmission can be fitted.



Data module
METZ Connect, type: RJ45 connection module 270° (type E-DAT module 8(8) jack cat.6), suitable for Cepex data port sockets, part no. 4340, 4342, 4344, 4355, strain relief per locking clip directly on the stuffer cap

Std. Pack. Qty: 60

Part no.
41455



Data module
Reichle & De-Massari, type: data port sockets insert Real 10, Cat.6, screened, including frame for snap-in, suitable for Cepex data port sockets, Part no. 4375 and versions

Std. Pack. Qty: 10

Part no.
25056



Data module
Rutenbeck, type: data port insert 2 x RJ45, Cat.6a, (type UPOS), suitable for Cepex data port sockets, Part no. 4320 and versions

Std. Pack. Qty: 10

Part no.
41492



Data module
TKM, type: data port insert 2 x RJ45, Cat.6, (type KDMF), suitable for Cepex data port sockets, Part no. 4300 and versions

Std. Pack. Qty: 5

Part no.
41452



Data module
RJ45 connection module, type E-DAT module, connector 8(8) 90°, Cat.6 (recommended for improved cable routing), for Cepex data port sockets

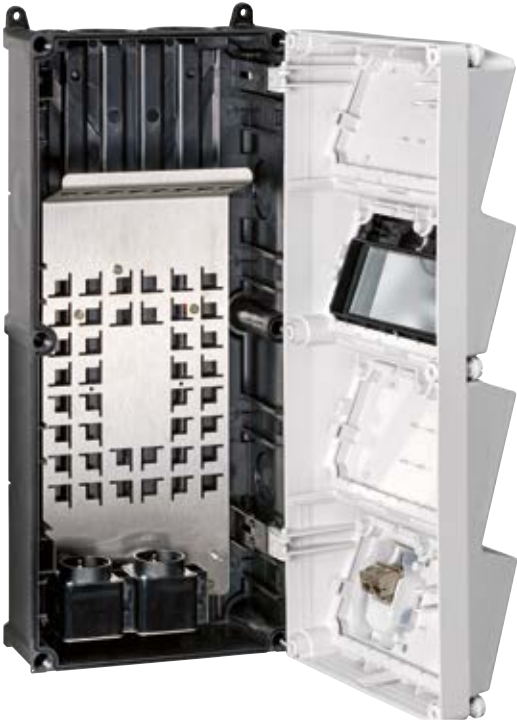
Std. Pack. Qty: 50

Part no.
25042

Special plugs and sockets – Energy and data

Protection type IP44.
Pre-wired for installation, enclosure front cover light grey RAL 7035, yellow (GE) RAL 1021 also available on request. Enclosure hinged to the side.

MENNEKES network distributor.



With the new industrial network distributor from the AMAXX® family, MENNEKES offers a product for the expansion of network solutions.

By using a robust plastic enclosure, the installation of standard network components is possible in more demanding environments, such as those that prevail in trade and industry, with regard to protection class, mechanical influences or similar factors.

Existing networks can thus be quickly expanded, while smaller networks can easily be rebuilt. The user can act freely in the selection of active network components and Keystones. Hence the preferred switches or routers can be easily and safely attached to the integrated mounting plate. The patch panel for mounting up to eight Keystones can be equipped with RJ45 sockets or other inserts.

Two SCHUKO® sockets integrated into the enclosure are used for the power supply of the active network components. Another advantage for the user: After the power supply has been connected by the qualified electrician, the further equipping and manipulation of the enclosure can be performed by laymen in the field of electrical technology.



Fitted with

Patch and mounting panel with threaded ground bolt M 6 for the optional connection of an external ground conductor

2 SCHUKO® sockets for the power supply of active network components

1 Cepex data port socket (deep black RAL 9005) with 2 RJ45 right angle connector modules for direct connection of patch cables

4 Velcro connectors for fastening installed components on the base plate

2 screw fittings M 40 with multiple seal, 6 openings for a cable diameter of 6-9 mm including 5 each blanking plugs

1 screw fitting M 20

1 screw set

Enclosure size

520 x 225 mm (H x W)

Part no.

25405



AMAXX® cable gland set

enclosed with each media distributor

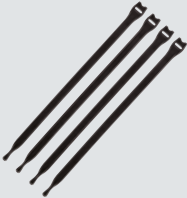
Deep black RAL 9005,

2 screw fittings M 40

2 multiple seals with 6 openings for a cable diameter of 6-9 mm

including each 5 blind plugs

1 screw fitting M 20



Velcro connector

enclosed with each media distributor

Set of 4 Velcro connectors for fastening installed components on the base plate

Plugs and sockets for reefer containers

On ships and in terminals.



AM-TOP® plugs and connectors.

Stable enclosure consisting of one part. The teeth on the cable gland secure a safe grip and protect against loosening. The cable gland serves as an anti-bend protection for the cables at the same time.



Wall mounted sockets, switched and interlocked.

Sockets with the patented, mechanical DUO-interlocking ensure that the socket can only be switched when inserting a plug.

Combination units with sockets, switched and interlocked.

**380-
440V**

32 A

3 h

3 p+ ⊕

Special plugs and sockets – For reefer containers

Ground contact at 3 o'clock position conforming to DIN EN IEC 60309-2 (VDE 0623-2).  Highly resistant to chemicals.
Other versions available on request. For drawings and dimensions see page 101 - 108.

 	Wall mounted socket highly resistant to chemicals, with highly heat resistant contact carrier and nickel plated contacts IP67 Std. Pack. Qty: 5 Drawing: 1 MB 622	<table><tr><th>A</th><th>P</th><th>380 - 440 V 50 a. 60 Hz</th></tr><tr><td>32</td><td>4</td><td>9562</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	9562			
A	P	380 - 440 V 50 a. 60 Hz									
32	4	9562									
	Wall mounted socket DUO R X-CONTACT®, with highly heat resistant contact carrier and nickel plated contacts, switched, with mechanical DUO-interlock, sealed against dust, temporary submersion and high pressure cleaning IP67 / IP69 Std. Pack. Qty: 1 Drawing: 1 MB 714	<table><tr><th>A</th><th>P</th><th>380 - 440 V 50 a. 60 Hz</th></tr><tr><td>32</td><td>4</td><td>5704403G</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	5704403G			
A	P	380 - 440 V 50 a. 60 Hz									
32	4	5704403G									
	Wall mounted socket with highly heat resistant contact carrier and nickel plated contacts, switched, with mechanical DUO-interlock and DIN rail, protected by 1 RCD 30 mA IP67 Std. Pack. Qty: 2 Drawing: 1 MB 181/620	<table><tr><th>A</th><th>P</th><th>380 - 440 V 50 a. 60 Hz</th></tr><tr><td>32</td><td>4</td><td>5946AN</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	5946AN			
A	P	380 - 440 V 50 a. 60 Hz									
32	4	5946AN									
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP67 Std. Pack. Qty: 10 Drawing: 1 MB 141	<table><tr><th>A</th><th>P</th><th>380 - 440 V 50 a. 60 Hz</th></tr><tr><td>32</td><td>4</td><td>2123A</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	2123A			
A	P	380 - 440 V 50 a. 60 Hz									
32	4	2123A									
	Plug AM-TOP® with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP67 Std. Pack. Qty: 10	<table><tr><th>A</th><th>P</th><th>380 - 440 V 50 a. 60 Hz</th></tr><tr><td>32</td><td>4</td><td>2175B</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	2175B			
A	P	380 - 440 V 50 a. 60 Hz									
32	4	2175B									
	Phase sequence test plug earthing contact in the 3 o'clock position, conforming to VDE 0413 part 7 IP44 Std. Pack. Qty: 5	<table><tr><th>A</th><th>P</th><th>380 - 440 V 50 a. 60 Hz</th></tr><tr><td>32</td><td>4</td><td>3718</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	3718			
A	P	380 - 440 V 50 a. 60 Hz									
32	4	3718									

Special plugs and sockets – For reefer containers

Ground contact at 3 o'clock position conforming to DIN EN IEC 60309-2 (VDE 0623-2). Other versions available on request. For drawings and dimensions see page 101 - 108.

	Panel mounted inlet with highly heat resistant contact carrier and nickel plated contacts, with hinged lid IP67 Std. Pack. Qty: 10 Drawing: 2 MB 40	<table><tr><th>A</th><th>P</th><th>380 - 440 V 50 a. 60 Hz</th></tr><tr><td>32</td><td>4</td><td>2692</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	2692			
A	P	380 - 440 V 50 a. 60 Hz									
32	4	2692									
	Connector AM-TOP® with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP67 Std. Pack. Qty: 10	<table><tr><th>A</th><th>P</th><th>380 - 440 V 50 a. 60 Hz</th></tr><tr><td>32</td><td>4</td><td>2177A</td></tr><tr><td></td><td></td><td></td></tr></table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	2177A			
A	P	380 - 440 V 50 a. 60 Hz									
32	4	2177A									
	Protective cap for watertight plugs, wall mounted and panel mounted inlets 32 A, 3 p + 4 p, not suitable for PowerTOP® Xtra plugs 32 A – please inquire if required Std. Pack. Qty: 50	<table><tr><th>Part no.</th></tr><tr><td>40841</td></tr><tr><td></td></tr></table>	Part no.	40841							
Part no.											
40841											
	Houlder for plugs 32 A, 4 p Std. Pack. Qty: 10	<table><tr><th>Part no.</th></tr><tr><td>41342</td></tr><tr><td></td></tr></table>	Part no.	41342							
Part no.											
41342											

Special plugs and sockets – For reefer containers

Protection type IP67.
Ground contact at 3 o'clock position conforming to DIN EN IEC 60309-2 (VDE 0623-2). Other versions available on request. Sockets switched, with mechanical DUO-interlock with highly heat resistant contact carrier and nickel plated contacts. For drawings and dimensions see page 109 - 110.
It is self-evident for us to offer customized solutions which are especially made for your demand. Please contact us!



CEE sockets
3 CEE 32 A, 4 p, 380-440 V, 3 h For reefer containers, switched, with mechanical DUO-interlock
CEE sockets
Sockets British standard
Fusing
3 MCB's 32 A, 3 p, C 1 earth bolt M 10, V2A
Connection
For 1 cable up to 5 x 25 mm ²
Connection and load values
Pre-fuse max. 100 A InA 58 A RDF 0.6
Enclosure size
520 x 225 mm (H x W)
Part no.
940027



Jos. L. Meyer-Werft, Papenburg, Germany

Special plugs and sockets – TM for military purpose

to DIN EN IEC 60309-2 (VDE 0623-2), colour: bronze-green RAL 6031-F9. Other voltages and frequencies available on request.
For drawings and dimensions see page 101 - 108.

Defence Equipment Standard 96919 and 96926.



MENNEKES TM plugs and sockets, colour bronze-green RAL 60301, have been designed to stand up to especially tough conditions. TM plugs and sockets in accordance with VG 96919 or VG 96926 are suitable for use at ambient temperatures from -35 °C to +60 °C. At ambient temperatures over +40 °C the rated current must be reduced.



Panel mounted socket TM

highly heat resistant contact carrier, nickel plated contacts, straight, (form AS)
63 A: X-CONTACT®

IP67
Std. Pack. Qty: 10/5
Drawing: 1 MB 217/1

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
16	3	22928 AS013			
16	5		20458 AS001		23175 AS004
32	3	23293A AS042			
32	5		20459 AS005		23176 AS008
63	5		20460 AS009		23177 AS012



Panel mounted socket TM

X-CONTACT®, highly heat resistant contact carrier, nickel plated contacts, straight, (form AS)

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 258

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
125	5		23432 AS014		



Panel mounted socket TM

highly heat resistant contact carrier, nickel plated contacts, 20° inclination, (form BS)
63 A: X-CONTACT®

IP67
Std. Pack. Qty: 10/5
Drawing: 1 MB 474

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
16	3	24630 BS017			
16	5		24640 BS001		
32	3	24730 BS042			
32	5		24740 BS005		
63	5		24840 BS009		



Panel mounted socket TM

X-CONTACT®, highly heat resistant contact carrier, nickel plated contacts, 15° inclination, (form BS)

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 601

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
125	5		22189A BS013		

Special plugs and sockets – TM for military purpose

to DIN EN IEC 60309-2 (VDE 0623-2), colour: bronze-green RAL 6031-F9. Other voltages and frequencies available on request.
For drawings and dimensions see page 101 - 108.

 Plug TM highly heat resistant contact carrier, nickel plated contacts, with protective cap, (form CP) IP67 Std. Pack. Qty: 10	A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
	16	3	24660 CP017			
	16	5	24671 CP002	24670 CP001	24672 CP003	
	32	3	24760 CP042			
	32	5		24770 CP005	24772 CP007	24773 CP008
 Plug PowerTOP® Xtra TM rubberised grip area, frame terminals, highly heat resistant contact carrier, nickel plated contacts, cable gland and external cable grip, with protective cap, (form CP) IP67 Std. Pack. Qty: 5	A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
	63	5		24870 CP009		24873 CP012
	125	5		24970 CP013		24973 CP016
 Panel mounted inlet TM highly heat resistant contact carrier, nickel plated contacts, with protective cap, (form BP) IP67 Std. Pack. Qty: 10/5 Drawing: 2 MB 62/1	A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
	16	3	24210 BP013			
	16	5		20461 BP001		
	32	3	23249 BP042			
	32	5		20462 BP005		
	63	5		20463 BP009		
 Panel mounted inlet TM highly heat resistant contact carrier, nickel plated contacts, with protective cap, (form AP) IP67 Std. Pack. Qty: 5 Drawing: 2 MB 206	A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
	125	5		23433		
 Connector TM highly heat resistant contact carrier, nickel plated contacts, with protective cap, (form DS) IP67 Std. Pack. Qty: 10	A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
	16	3	24675 DS017			
	16	5	24686 DS002	24685 DS001	24687 DS003	
	32	3	24775 DS042			
	32	5		24785 DS005	24787 DS007	24788 DS008
 Connector PowerTOP® Xtra TM X-CONTACT®, rubberised grip area, frame terminals, highly heat resistant contact carrier, nickel plated contacts, cable gland and external cable grip, strain relief and protection against kinking, enclosure with thread lock, two safety slides, (form DS) IP67 Std. Pack. Qty: 5	A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
	63	5		24885 DS009		24888 DS012
	125	5		24985 DS013		24988 DS016

Special plugs and sockets – Camping

For drawings and dimensions see page 101 - 108.

	Wall mounted socket with TwinCONTACT screwless spring terminal, external fixing IP44 Std. Pack. Qty: 10 Drawing: 1 MB 463	Description	Part no.
		16 A, 3 p, 230 V	1341

	Panel mounted socket with eyelet, 20° inclination, flange: 68 x 62 mm, fixing hole spacing: 47 x 47 mm IP44 Std. Pack. Qty: 10 Drawing: 1 MB 456	Description	Part no.
		16 A, 3 p, 230 V	851
		Plug with eyelet 16 A, 3 p, 230 V, for panel mounted socket 851	852

	Plug PowerTOP® Xtra with ErgoCONTACT ergonomic enclosure design with nubbed grip zones, rubberised cable gland with sealing, strain relief and protection against kinking, thread lock and safety slide IP54 Std. Pack. Qty: 10	Description	Part no.
		16 A, 3 p, 230 V	13502

	Built-in Plug nickel plated contacts IP44 Std. Pack. Qty: 5 Drawing: 2 MB 70	Description	Part no.
		16 A, 3 p, 230 V, Lid: electric grey	8001
		16 A, 3 p, 230 V, Lid: black	8008
		Counter frame for built-in plugs CaraCONTACT 8001 and 8008	40744

	Connector PowerTOP® Xtra with ErgoCONTACT X-CONTACT®, ergonomic enclosure design with nubbed grip zones, rubberised cable gland with sealing, strain relief and protection against kinking, thread lock and safety slide IP54 Std. Pack. Qty: 10	Description	Part no.
		16 A, 3 p, 230 V	14502

	Angled connector with grommet IP44 Std. Pack. Qty: 10	Description	Part no.
		16 A, 3 p, 230 V	1438

Special plugs and sockets – Hinged windows

	Hinged window without protective cover, with knurled screws, frame colour electric grey, window smoked glass IP44 Std. Pack. Qty: 100	<table><tr><th>Description</th><th>Part no.</th></tr><tr><td>2 modules</td><td>40444</td></tr><tr><td>5 modules 40871 without springs to close window automatically</td><td>40871</td></tr><tr><td></td><td></td></tr></table>	Description	Part no.	2 modules	40444	5 modules 40871 without springs to close window automatically	40871		
Description	Part no.									
2 modules	40444									
5 modules 40871 without springs to close window automatically	40871									
	Hinged window without protective cover, with knurled screws, frame colour electric grey, window smoked glass IP44 Std. Pack. Qty: 50	<table><tr><th>Description</th><th>Part no.</th></tr><tr><td>5 modules without springs to close window automatically</td><td>40243</td></tr><tr><td></td><td></td></tr></table>	Description	Part no.	5 modules without springs to close window automatically	40243				
Description	Part no.									
5 modules without springs to close window automatically	40243									
	Hinged window without protective cover, with knurled screws, frame colour electric grey, window smoked glass IP67 Std. Pack. Qty: 50	<table><tr><th>Description</th><th>Part no.</th></tr><tr><td>6 modules</td><td>40985</td></tr><tr><td>8 modules</td><td>40978</td></tr><tr><td>12 modules</td><td>40980</td></tr></table>	Description	Part no.	6 modules	40985	8 modules	40978	12 modules	40980
Description	Part no.									
6 modules	40985									
8 modules	40978									
12 modules	40980									
	Hinged window without protective cover, with knurled screws, frame colour black, window smoked glass IP67 Std. Pack. Qty: 50	<table><tr><th>Description</th><th>Part no.</th></tr><tr><td>6 modules</td><td>40985ZB</td></tr><tr><td>8 modules</td><td>40978ZA</td></tr><tr><td>12 modules</td><td>40980ZC</td></tr></table>	Description	Part no.	6 modules	40985ZB	8 modules	40978ZA	12 modules	40980ZC
Description	Part no.									
6 modules	40985ZB									
8 modules	40978ZA									
12 modules	40980ZC									
	Hinged window without protective cover, with knurled screws, frame colour electric grey, window smoked glass IP67 Std. Pack. Qty: 50	<table><tr><th>Description</th><th>Part no.</th></tr><tr><td>6 modules</td><td>40986</td></tr><tr><td>8 modules</td><td>40979</td></tr><tr><td>12 modules</td><td>40981</td></tr></table>	Description	Part no.	6 modules	40986	8 modules	40979	12 modules	40981
Description	Part no.									
6 modules	40986									
8 modules	40979									
12 modules	40981									
	Installation kit for hinged window with protective cover, for fitting modules in doors and enclosure covers Std. Pack. Qty: 10	<table><tr><th>Description</th><th>Part no.</th></tr><tr><td>for 6 modules for hinged window 40986</td><td>41431</td></tr><tr><td>for 8 modules for hinged window 40979</td><td>41432</td></tr><tr><td>for 12 modules for hinged window 40981</td><td>41433</td></tr></table>	Description	Part no.	for 6 modules for hinged window 40986	41431	for 8 modules for hinged window 40979	41432	for 12 modules for hinged window 40981	41433
Description	Part no.									
for 6 modules for hinged window 40986	41431									
for 8 modules for hinged window 40979	41432									
for 12 modules for hinged window 40981	41433									

Service – References



Container Terminal, Altenwerder – Germany



Yas Marina Circuit, (Formula 1 Race Course), Abu Dhabi – UAE



Shanghai International Circuit, (Formula 1 Race Course), Shanghai – China



Brunnenmarkt, (Market Square), Vienna – Austria



KORDSA GLOBAL A.S., Industrial Yarn and Cord Factory, Izmit – Turkey



Bauernmarkt, (Market Square), Hannover – Germany

Service – Regulations and standards

While correct to the best of our knowledge, the information we provide with respect to laws and regulations is in no way binding. Such information is provided purely by way of assistance and makes no claim to completeness. The nature and composition of our appliances are exclusively as quoted in the product description to which the part numbers refer directly.

Installation guidelines

It is best to proceed carefully with the installation and the use of electrical devices. The valid directives and standards, as well as the legal accident prevention regulations must be complied with. The installer is responsible for compliance with the respective regulations.

MENNEKES CEE plugs and sockets conform to the following standards and regulations:

IEC 60309-1

IEC 60309-2

EN IEC 60309-1

EN IEC 60309-2

DIN EN IEC 60309-1 (VDE 0623-1)

DIN EN IEC 60309-2 (VDE 0623-2)

Applications

CEE plugs and sockets can and, under certain circumstances, must be used in industry, in commerce, in agriculture, in parks, in damp and wet environments, outdoors, on building sites, in caravans, on boats and yachts, on camp sites, for dockside power supply installations (marinas), on works premises where there is a fire hazard, at markets and fairground booths and for trailers and mobile homes.

Using CEE plugs and sockets will usually enable the planners and builders of electrical installations to comply with the „regulations for the construction of low voltage systems as per DIN VDE 0100“.

Enclosure material

Plastic material

MENNEKES generally uses high-grade plastic material with the following excellent properties: Excellent electrical insulation, break-proof, wear-resistant, abrasion-resistant, dimensionally stable, self-extinguishing, heat-resistant, cold-resistant, stabilised against aging, resistant to seawater, oil, and petrol. For use in industrial premises or place of work where the use of chemicals or other aggressive substances makes it necessary to use other plastic materials, MENNEKES offers products with increased stability against fuel, oil and grease, diluted acids and alkali, cleaner and the most aqueous salt solutions. These products are marked in the catalogue with . Products made of this plastic combine high mechanical, thermal and electrical properties with excellent dimensional stability and resistance to chemicals and are fit for action in chemical plants, in refineries, in the food processing industry, in washdown areas and so on.

Solid rubber

Solid rubber blends are preferably used wherever products are exposed to high mechanical and/or chemical loads. Solid rubber excels by its outstanding dimensional stability; it is largely resistant to acid and lye and has a high resistance to breakdown and leakage current. Products made from solid rubber blends, e.g. MENNEKES EverGUM, are resistant to weather and ageing. Under UV radiation, colour pigments may fade with time. This is inevitable even to the latest state of the art yet it does not compromise the function in any way.

Stainless steel

Our high-quality stainless steel products are ideally suited for continuous use in buildings and outdoors. There is a potential risk of corrosion in open air and indoor swimming pools, in coastal regions, offshore and in industrial areas with high air pollution. Subject to location and climatic conditions discoloration and corrosion can arise. Through specific cleaning and maintenance procedures, impairments of the surface can be reduced or avoided. In particularly aggressive ambient conditions we recommend the use of special stainless steels or coating the surfaces to further increase corrosion resistance.

Contact material, small parts

Female and male contacts are made of brass; screws, springs, etc. are made of rust-proof material or surface-coated steel.

Characteristics of CEE plugs and sockets

MENNEKES CEE plugs and sockets are distinguished by the following features, which keep maintenance costs to a minimum:

- Easy to install
- Wiring space easily accessible
- Power screwdrivers can be used for installation
- Mostly fitted with Pozidriv screws (size 2)
- High contact pressure
- Low effort required for insertion and withdrawal
- Low transition resistance
- Easy-to-grip plugs

Application

CEE plugs and sockets with operating voltages up to 1000 V DC or AC, frequencies up to 500 Hz and rated currents up to 800 A, including plugs and sockets for low voltage systems have become the standard all over the world. Basically suitable for indoor and outdoor applications in industry, they are also used on building sites, farms, commercial premises, for caravans, mobile homes, boats, yachts and in households. CEE plugs and sockets are polarised and non-reversible.

Ambient temperature

CEE plugs and sockets are suitable for ambient temperatures between -25 °C up to +40 °C.

Low voltage directive 2014/35/EU

CEE plugs and sockets are subject to the EC low voltage directive and must therefore be provided with the CE mark to ensure free traffic of goods within the EU. A manufacturer's declaration is available on request.

Service – Regulations and standards

Declaration of Conformity

Current plugs and sockets have been tested by the VDE Test and Certification Institute in Offenbach, Germany. Furthermore, various other certificates from international inspection authorities have been obtained. A copy of test certificates is available on request.

The CE mark is not a compliance mark. MENNEKES CEE plugs and sockets satisfy the requirements specified in the low voltage directive and the device and/or the packaging bears the „CE“ mark „“.

Cable glands

Metric	Typical sealing area	Typical capacity of terminal
M 12	2.5 - 6.5 mm	3.0 - 6.5 mm
M 16	2.5 - 8.0 mm	3.5 - 8.0 mm
M 20	5.0 - 12.0 mm	6.0 - 12.0 mm
M 25	9.0 - 18.0 mm	12.0 - 18.0 mm
M 32	14.0 - 25.0 mm	17.0 - 25.0 mm
M 40	18.0 - 32.0 mm	20.0 - 32.0 mm
M 50	24.0 - 38.0 mm	26.0 - 38.0 mm
M 63	30.0 - 44.0 mm	30.0 - 44.0 mm

Standard for low voltage switchgear and control gear assemblies - IEC 61439

The standard, IEC 61439, replaces IEC 60439 and describes the design and the test specifications for low voltage switchgear and control gear assemblies. The new standard has influence on the distribution of electrical energy in industry, the domestic electrical installation and on construction sites.

In 2012, the restructuring and revision of the safety requirements for low voltage switchgear was finalized with publication of the standard, IEC 61439-1:2012. The preceding standard, IEC 60439-1 will be replaced by IEC 61439-1:2012. The former Standard IEC 60439 was replaced by IEC 61439-1:2012 in September 2014. For all switchgear assemblies commissioned after this date, planning and documentation must be in accordance with IEC 61439-1: 2012 and its parts.

The purpose of this standard is the harmonisation of most of the general regulations and requirements for low voltage switchgear and control gear assemblies to achieve uniform requirements and verifications for switchgear and control assemblies and to avoid the necessity of verifications in accordance with other standards. All requirements of the different switchgear and control gear assemblies have been combined in this fundamental standard, together with topics of broad interest and application, e.g heating, insulation properties, etc.

In the future two main standards will be required for each design of a low voltage switchgear and control gear assembly:

- The basic standard that is referenced as „Part 1“ in the specific standards;
- The applicable parts 2 to 7 of the switchgear and control gear assembly standard that deals with the particularities of the application.

The IEC 61439 consists of the following parts:

DIN EN IEC ...	
61439-1: General definitions	
61439-2: Power switchgear and control gear assemblies (PSC switchgear combinations)	
61439-3: Installation distributor for operation by laymen (DBO)	
61439-4: Special requirements for construction power distributors (BV)	
61439-5: Switchgear combinations in public power distribution networks	
61439-6: Busbar trunking systems (busways)	
61439-7: Switchgear combinations for specific applications such as marinas, campsites, marketplaces, charging stations for electric vehicles	
IEC TR 61439-0: Guide for the specification of switchgear and controlgear assemblies	

Requirements in this standard, which are object of an agreement between manufacturer of the switchgear and control gear assemblies and user, are summarized on page 97 - 99. This listing facilitates provision of information concerning basic conditions and supplemental user definitions.

Design verification

Additionally to the type verification, the producer has to provide an article proof which guarantees a correct set-up acc. to the norm, excludes material failures and the compliance with electrical safety requirements.

Definition – „original manufacturer“ and „manufacturer of the switchgear and control gear assembly“

Original manufacturer

Organisation / enterSockets that executed the original design and the associated verifications in accordance with the standard.

Manufacturer of the switchgear and control gear assembly

Organisation that completes a device and assembles it into a functional unit. The manufacturer is responsible for piece verification and thus for the product (Declaration of Conformity).

6

Significance for MENNEKES products:

For pre-wired devices MENNEKES is simultaneously the original manufacturer and the manufacturer. The responsibility and provision of verifications rest with us. We cannot declare partially wired devices that we manufacture as standard compliant. In this case the „finishing entity“ becomes the manufacturer and must declare conformity. It is required to forward information to this organisation so that the device ultimately can get a „Declaration of Conformity“.Heating

Service – Regulations and standards

Heating

The max. ambient temperature is +40 °C.

The average value of the ambient temperature over a period of 24 hours must not be higher than +35 °C.

The verification of heating can be provided through various methods. Through testing of the switchgear and control gear combination, or through derivation of a known reference, and through an expert assessment, e.g. in accordance with applicable design rules. Regardless of the method that is selected to determine the heat and thus the maximum current load of the combination, compliance with the appropriate temperature limit values must be ensured.

The switchgear and control gear assembly and its electrical circuits must be capable of bearing their rated currents under defined conditions and the rated values of the components, their suitability and application must be taken into account, without exceeding limit values specified in IEC 61439-1 Table 6, Part 1. The limit temperatures in table 6 apply for the average ambient temperature of +35 °C.

► The limit temperatures of the installed equipment must be taken into account!

Heating – replacement of components

A device/component may only be replaced through a similar, identically constructed device of a series other than the series used in the verification, if the power loss, and thus the heating of the connections is less than or equal to that of the device that is being replaced.

Load of the largest electric circuit and of all outgoing circuits individually with rated current

The requirement of DIN EN IEC 61439-X is, that all electric circuits must be individually capable to carry their rated current, without exceeding temperature limit values in the process. If additional power circuits are added, a rated load factor can be set.

Rated values I_{nA} , I_{nc} , RDF

• Rated current of a switchgear and controlgear assembly I_{nA}

Rated current that can be distributed by a switchgear and controlgear assembly without exceeding the specified excess temperatures of the various

• Rated current of a main circuit I_{nc}

Rated current that a main circuit can carry if it is the only circuit in a bay of a switchgear assembly that carries a current.

• Rated load factor RDF

Value calculated by dividing the rated operational current of the outgoing main circuit I_{ng} by the rated current I_{nc} of the same outgoing main circuit. main circuit, where I_{ng} and I_{nc} are determined from tests.

Table 101 from DIN EN IEC 61439-3 Values for assumed load

Number of outgoing circuits	Assumed load factor
2 and 3	0.8
4 and 5	0.7
6, up to and including 9	0.6
10 (and more)	0.5

This table provides guide values, if in doubt the manufacturer's specification always applies.

MENNEKES standard values in accordance with Table C of DIN EN IEC 61439-3

The information below represents specified standard values for MENNEKES catalogue assemblies. If there are deviations from this standard or in the case of special project planning, appropriate coordination must take place beforehand between user and manufacturer. These agreements must be arranged between MENNEKES and the user / customer during the quotation phase (prior to production and prior to sale).

The table below is a „blank“ that is applicable for approximately 98 % of the MENNEKES devices. Special project planning is not covered by the specifications, and must be separately disclosed by the user prior to project planning. In these special cases, it is required that additional details be considered with the aid of the standards cited and their product sub-standards (see Section 7.2, in Part 1).

Characteristic	Standard value	Normative option	MENNEKES standard
System according to type of earth connection	Design in accordance with the local requirements	TT / TN-C / TN-C-S / IT / TN-S	TN / TT
Rated voltage	In accordance with local installation conditions	max. 1000 V AC or 1500 V DC	400 V AC
Transient overvoltages	determined through the electrical system	Overvoltage category I / II / III / IV	Kat. III / plugs and sockets Kat. II
Occasional overvoltages	min. rated voltage + 1200 V	See Table 8 + 9 or 10 for the values	1890 V (AC)
Rated frequency	In accordance with local installation conditions	DC / 50 Hz / 60 Hz	50 Hz
Short circuit resistance	determined through the system	N + PE max 60 % of the outer conductor values	I_{sc} max. ≤ 10 kA
SCPD in the supply	In accordance with local installation conditions	yes / no	no
Coordination between shortcircuit protection devices inside or outside of the switchgear and control gear assembly	In accordance with local installation conditions	present / install / integrate	Item-dependent

Service – Regulations and standards

Characteristic	Standard value	Normative option	MENNEKES standard
Information of loads that could possibly contribute to short-circuit current	No loads are permitted that could possibly contribute to the shortcircuit current	none	none
Type of protection against electric shock – basic protection	Basic protection	Comply with local requirements	Basic protection
Type of protection against electric shock – earth fault protection	Protection against indirect contact / comply with local requirements	Automatic disconnection of the power supply / protective separation / Double or reinforced insulation	Item-dependent
Installation site	Execution of the manufacturer	Indoors / outdoors	Item-dependent
Protection type	Indoors min. IP 2x / outdoors min. IP23	IP xx (A-D)	IP44
Protection against mechanical effects		if necessary specification of the IK code (IEC 62208)	Information on request
Resistance to UV radiation		Required for enclosures in outdoor installation	Information on request
Resistance to corrosion	For indoor and outdoor installation	yes / no	Item-dependent
Ambient temperature limit values	Indoors: min. -5 °C Outdoors: min. -25 °C High limit (both): +40 °C max. average value (24 h): +35 °C	none	Standard values! see product for deviations
Maximum relative humidity	indoor: 95 % at -5 °C to +30 °C 70 % at +35 °C 57 % at +40 °C Outdoor: 100 % at -25 °C to +27 °C 60 % at 35 °C 46 % at 40 °C	indoor: 95 % at -5 °C to +30 °C 70 % at +35 °C 57 % at +40 °C Outdoor: 100 % at -25 °C to +27 °C 60 % at 35 °C 46 % at 40 °C	Standard values! see product for deviations
Pollution degree	Industrial environment 3	1, 2, 3, 4	3
Altitude	≤ 2000 m	Pay attention to the factors	≤ 2000 m
EMC environment	A or B	A / B	B
Special operating conditions (vibration, Ex-area, strong magnetic fields or contamination)	No particular conditions	none	Not defined!
External structural design	in accordance with manufacturer's specifications	Open / closed / standing / in-wall installation & on-wall installation / console	closed
Mobile or stationary	stationary	yes / no	Item-dependent
Dimensions and masses	in accordance with manufacturer's specifications	none	Item-dependent
Type of conductors introduced from outside	in accordance with manufacturer's specifications	Cables / busbar trunking systems	Cables
Materials of the conductors introduced from the outside	Copper	Copper / Aluminium	Copper
Cross-sections of the outer conductors, PE, N & PEN conductors	As specified in the standard	none	none
Special requirements imposed on the marking of connections	in accordance with manufacturer's specifications	none	Manufacturer execution
Requirements imposed on storage & transport (type of transport, deviating ambient conditions, max. dimensions, packaging requirements)	Standard of the manufacturer	none	Information on request
Operability (access, activation rights, disconnect)	Easy reachability	Authorized persons, ordinary persons, etc.	Item-dependent
Requirements imposed on accessibility for operation, inspection, maintenance or extension	Inspection, component replacement, extension, maintenance, etc. only by specialized persons (requirement)	none	Inspection, replacement, extension, maintenance, etc. only through specialized persons
Separation of the outgoing electric circuits	in accordance with manufacturer's specifications	Individually / in groups / all	Item-dependent
Type of interior subdivision	in accordance with manufacturer's specifications	Form 1, 2, 3, 4	none

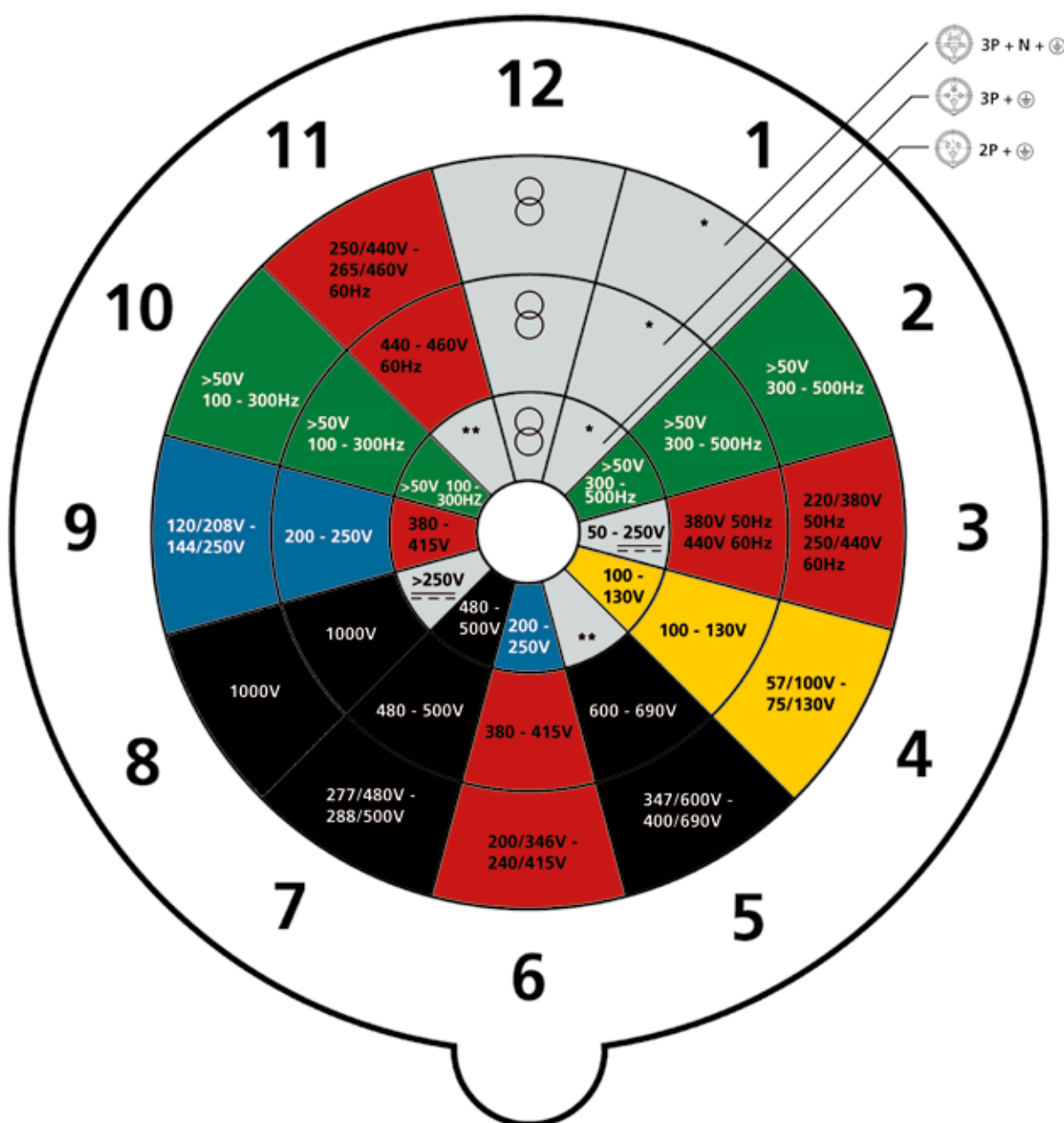
Service – Regulations and standards

Characteristic	Standard value	Normative option	MENNEKES standard
Maximum total load current to be supplied by the assembly (from which the rated current of the assembly $I_n(A)$ will be determined)	Manufacturers standard; in accordance with the application	none	Item-dependent
Cross-section ratio between outer conductor and N*	$\varnothing \leq 16 \text{ mm}^2 = 100 \%$ $\varnothing > 16 \text{ mm}^2 = 50 \%$ (min. 16 mm^2)	For currents in N to 50 % of the outer conductors, otherwise a special agreement is necessary!	Outer conductor = neutral conductor cross-section

* MENNEKES designs the size of the Neutral conductor accordingly to the max. allowed current for the phases. For special operating conditions (see IEC 61439, section 7.2 and IEC 61439-1 supplement 1, section 13.5) which relate to the ratio of neutral conductor to outer conductor (alternating current consumption with very low and different $\cos\phi$ or excessive harmonics in the supply voltage or load current) can lead to a different size relation between neutral conductor to external conductor. This must be announced by the user.

Clock positions acc. to DIN EN IEC 60309-2 (VDE 0623-2):2023, Table 210, Series I

Position of ground contact sleeve with respect to major keyway for various voltages and frequencies. The colour codes correspond to the nominal voltage.



* For nominal operating voltages and/or frequencies not covered otherwise and for special applications

** Clock positions not used.

Colour coding

If the rated operating voltage is indicated by a colour coding in addition to compulsory markings, such colour coding must be in accordance with DIN EN IEC 60309-1 (VDE 0623-1):2023, Table 2:

Rated operating voltage and frequency	Colour code	RAL*
100 to 130 V	yellow	1021
200 to 250 V	blue	5007
380 to 480 V	red	3013
500 to 1.000 V	black	9005
above 60 to 500 Hz	green	6010

* RAL determined by MENNEKES, as in DIN EN IEC 60309-1 (VDE 0623-1):2023

CEE plugs and sockets for rated operating voltages above 50 V

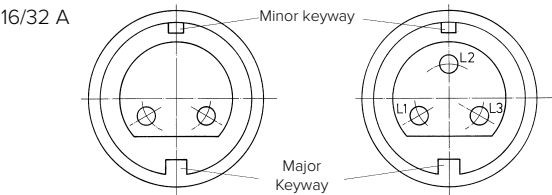
Position of the earth contact

Plugs and sockets with rated voltages above 50 V must have an earth contact. To prevent incorrect insertion, a nose on the plug fits into a keyway in the socket, thus ensuring that the earth contact pin or tube is correctly positioned in accordance with the required electrical standard. The earth contact positions for the various frequencies and voltages are assigned a clockface position, in accordance with table 104 taken from EN 60309-2:1999 + A1:2007 + A2:2012.

CEE plugs and sockets for rated voltages of up to 50 V (low voltage)

Since no earth contact is required in plugs and sockets of rated voltage up to 50 V, two keyways instead of one are provided the collar. They are accordingly termed the major and minor keyways. The major keyway is always in the 6 o'clock position. Depending on voltages and frequencies, the minor keyway is always in accordance with table 208 and 209 taken from DIN EN IEC 60309-2 (VDE 0623-2:2023), standard sheet 2-VIII (and in the following drawings).

Drawing: sockets and connectors U
= 40 to 50 V, 50 to
60 Hz, minor keyway in 12 o'clock
position



Arrangement of the minor keyway (major keyway 6 o'clock) for various voltages and frequencies using clockface positions in accordance with table 208 taken from DIN EN IEC 60309-2 (VDE 0623-2)

Rated operating voltage V	Frequency Hz	Clockface position of keyway (major keyway = 6 o'clock)
20 to 25	50 and 60	no minor keyway
40 to 50	50 and 60	12
20 to 25 and 40 to 50	100 to 200	4
	300	2
	400	3
	> 400 to 500	11
	DC	10
25	DC*	8 *for portable electrical incubators – use with 12 V or 24 V direct-current voltage in ambulances or helicopters.

Positions 1 and 9 are reserved for future standards. For design reasons, positions 5, 6 and 7 are not available for use.

Colour coding

If the rated operating voltage is indicated by a colour coding in addition to compulsory markings, such colour coding must be in accordance with DIN EN IEC 60309-1 (VDE 0623-1):2023:

Rated operating voltage	Colour code	RAL*
20 to 25 V	violet	4001
40 to 50 V	white	7035

* RAL determined by MENNEKES, as in EN 60309-1:1999 no specification is provided for.

Service – Regulations and standards

Interlocks and breaking capacity

Plugs and sockets without an interlock must have an adequate breaking capacity, i.e. it must be possible to insert and withdraw plugs in the manner specified and as often as specified. After testing they must exhibit no damage that would impair further use, and the holes for the plug contacts must not show any significant sign of damage. Sockets and connectors that do not meet the test requirements for breaking capacity and service characteristics must be fitted with an interlock. An interlock is a mechanical or electrical device which ensures that voltage is only applied to the contacts of a plug once they have been inserted into a socket or connector as intended, which prevents a plug being withdrawn with the power switched on or which makes contacts voltage-free before disconnecting. A distinction is made between interlocked plugs and sockets with

- mechanical interlocks
- electrical interlocks.

In the case of sockets and connectors $\geq 63/60$ A, DIN EN IEC 60309-2 (VDE 0623-2):2023 requires that a distinction is made between products used with or without interlocks. As MENNEKES plugs and sockets have adequate breaking capacity, standard $\geq 63/60$ A versions are fitted with short contact tubes without pilot contact. In the 63 A and 125 A versions, the short contact tubes meet the finger-touch requirements of IEC 60529. Sockets and connectors 63/60 A for electrical interlocking are fitted with long contact tubes and pilot contact for leading and lagging. The interlock makes up for the lack of finger-touch safety.

Plugs and sockets with mechanical interlocks

Mechanical interlocks for plugs and sockets with a rated operating voltage greater than 50 V must conform to DIN EN IEC 60309-2 (VDE 0623-2):2023, standard sheet 2-V. The mechanical switch of a mechanically interlocked socket or connector must not be operational until the proper plug has been inserted. Built-in switches for mechanical interlocking of switched AC sockets must have a breaking capacity conforming at least to DIN EN IEC 60947-3 (VDE 0660 part 107), utilisation category AC 22. The breaking capacity must be suitable for the appliance connected.

Plugs and sockets with electrical interlocks

In the case of plugs and sockets $\geq 63/60$ A with a rated operating voltage greater than 50 V intended for electrical interlocking (part no. + index „P“), a built-in pilot contact can be used to switch off power to a socket or connector. The requisite switch can either be provided in the socket or on the corresponding circuit distribution board. In the case of sockets with an integrated auxiliary switch fitted behind the pilot tube, the switch is triggered by the pilot pin of the plug. The advantage of this solution is that the pilot tube itself is not live (PCS interlock).

Plugs and sockets for isolating and switching purposes

In accordance with IEC 0100-460, each electrical circuit must be capable of being disconnected from all active conductors of the power supply. This also applies for every piece of electrical equipment, which must be capable of being disconnected from the power supply via an installed or assigned switch. For the term, „disconnect“, the term „isolate“ is also used. As a rule, electrical equipment must be disconnected from the power grid for mechanical and electrical maintenance tasks. According to DIN VDE 0100-537, plugs and sockets isolating all conductors are suitable for the disconnection of power for maintenance purposes if they are able to switch off the load current in the electrical equipment in question. A plug and socket connection is a simple way of satisfying the requirement for „visible isolation“.

Shock hazard protection

Shock hazard protection must be achieved in accordance with DIN EN IEC 60309-1 (VDE 0623-1):2023, section 9 by designing plugs and sockets in such a way that, when engaged properly, no live parts of sockets, connectors, plugs and inlets are exposed so that they may be touched.

It must also be impossible to establish a connection of plugs and connectors while any of the contacts are exposed to touch.

Neutral contact tubes and pilot contacts of sockets and connectors are deemed to be live parts.

Protection type

Plugs and sockets used to be classified according to the degree of protection against the entry of moisture:

- splashproof → drop in a triangle 
- watertight → 2 drops 

Today, complete IP protection according to IEC EN 60529 (VDE 0470-1) is specified for plugs and sockets, as they are tested in line with this standard.

IP44 = Protection from solid bodies with a diameter ≥ 1 mm, splashproof

IP67 = Protection from dust ingress, protection against temporary immersion

IP67 / IP69 = Protection against dust ingress, protection against temporary submersion as well as against high pressure and high jet water temperature

Information on IP protection (IP code) can be found in DIN EN 60529 (VDE 0470-1):2014.

Having been properly installed, sockets and connectors must provide the degree of protection defined by the rating, whether the plug is inserted or not.

The protection type for plugs and inlets only applies if they are in contact with the matching piece of the connector or with a fixed cover, if applicable.

CEE plugs and sockets must be IP44 or IP67. CEE plugs and sockets with rated currents of 100/125 A must be IP67.

100/125 A sockets that are fastened to an enclosure or form a structural unit with the enclosure can be IP44.

For sockets IP67, a bayonet system has been adopted as the standard in order to simplify their use especially under rough working conditions.

IP44 or IP67 is indicated on the appliances.

Notice for the use of mobile power distribution boxes:

Please consider when using SCHUKO® sockets that due to the construction the degree of protection is achieved only when the lid is closed. Otherwise the ingress of water at the ground contact area may not be prevented (see DIN VDE 0620-1 and DIN 49440 et seq.)

Service – Regulations and standards

Degree of protection of SCHUKO® plugs and sockets. Standard change of DIN VDE 0620-1.

For use in mobile devices, in accordance with the current specifications, attachment sockets that satisfy the IP X4 degree of protection requirements with closed flip-lid cover and with a plugged-in plug in every operating position. Before the standard change in February 2010, the IP X4 degree of protection was considered as fulfilled if the conditions are satisfied with vertical install position of the sockets. For sockets for stationary implementation, this also continues to be the case.

Important application instructions concerning the change in the standard.

- The latest amendment of IEC 620 (March 2013) makes a distinction in the case of IP X4 SCHUKO® sockets, between stationary and mobile implementation conditions
- SCHUKO® IP X4 sockets for stationary and mobile implementation conditions differ in their design (mobile with additional sealing collar, stationary unchanged).
- SCHUKO® IP X4 connectors, like mobile SCHUKO® IP X4 sockets likewise have a supplemental sealing collar.

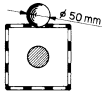
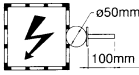
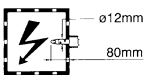
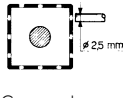
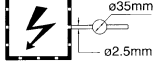
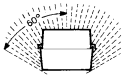
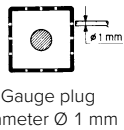
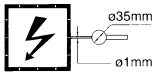
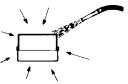
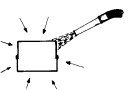
Attention!

- SCHUKO® plugs > IP X4 (in accordance with DIN 49442, resistant to pressurised water) when plugged into mobile IP X4 SCHUKO® sockets or connectors do not achieve adequate contacting due to the design and thus they must not be operated with such sockets!
 - The same applies for AC adapters and angled right angle plugs < IP X4!
 - On the appropriate SCHUKO® sockets or connectors this circumstance is presented with an engraved right angle SCHUKO® plug with IP X4 mark.
- Before processing, ensure that the SCHUKO® articles at hand correspond to the implementation conditions for which they are intended.**

Notice for the use of mobile power distribution boxes with RJ45 data sockets:

The installed data sockets without lid have a degree of protection of IP20 which is reducing the degree of the whole unit accordingly.

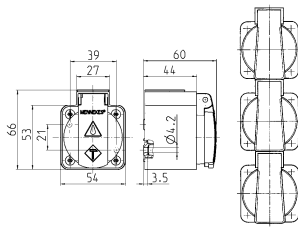
IP protection types for enclosures in accordance with IEC 60529, EN 60529, IEC 60529 (VDE 0470 part 1)

1st number of the code:					2nd number of the code:		
Protection against the ingress of foreign bodies and shock hazard protection.					Protection against the ingress of moisture		
Code	Description	Test	Protection against contact with:	Test	Code	Description	Test
	Enclosure protected against ingress of:		Enclosure protected against ingress of:			Enclosure protected against ingress of:	
0					0		
1	Solid body larger than 50 mm	 Gauge plug diameter Ø 50 mm	Back of hand	 Gauge probe diameter Ø 50 mm	1	Drop of water falling vertically	
2	Solid body larger than 12.5 mm	 Gauge plug diameter Ø 12.5 mm	Finger	 Jointed metal finger	2	Drop of water falling vertically on enclosure inclined by up to 15°	
3	Solid body larger than 2.5 mm	 Gauge plug diameter Ø 2.5 mm	Tool	 Gauge probe diameter Ø 2.5 mm	3	Water spray	
4	Solid body larger than 1 mm	 Gauge plug diameter Ø 1 mm	Wire	 Gauge probe diameter Ø 1 mm	4	Splash water	
5	Dust in harmful quantities	 Talc			5	Water jet	
6	Dust overall	 Talc			6	Strong water jet	
					7	Temporary immersion	
					8	Continuous immersion	By arrangement between manufacturer and user. Extra severe test conditions as compared to code 7
					9	Water at high pressure and steam cleaning	

Service – Drawings and dimensions

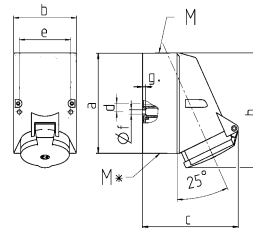
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 27/30



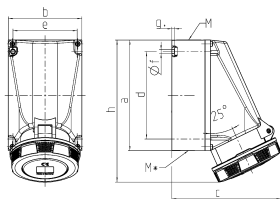
Drawing
1 MB 27/30
Dim. in mm

1 MB 43



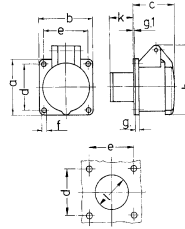
Drawing	Amp.	16		32	
1 MB 43	Poles	4	5	3	5
Dim. in mm	a	128	128	128	128
	b	84	84	84	84
	c	122	124	136	136
	d	11	11	11	11
	e	68	68	68	68
	f	5.3	5.3	5.3	5.3
	g	4	4	4	4
	h	144	145	158	160
	M	25	25	32	32
	M*	2x25 (blind) to be cut out		2x25 (blind) to be cut out	
Max. cable diam. (mm)		18	18	18/25	18/25
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	2.5	2.5
		—4	—4	—10	—10

1 MB 112



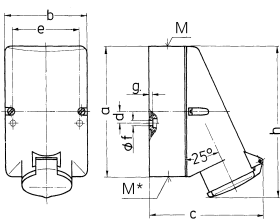
Drawing	Amp.	63		
1 MB 112	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	175	175	175
	d	134.5	134.5	134.5
	e	103	103	103
	f	6.1	6.1	6.1
	g	6	6	6
	h	219	219	219
	M	40	40	40
	M*	2x40 (blind) to be cut out		
Max. cable diam. (mm)		27	27	27
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		—25	—25	—25

1 MB 136



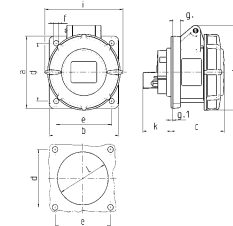
Drawing	Amp.	16		32	
1 MB 136	Poles	2	3	2	3
Dim. in mm	a	55	55	55	55
	b	55	55	55	55
	c	44	44	44	44
	d	45	45	45	45
	e	45	45	45	45
	f	4.2	4.2	4.2	4.2
	g	8	8	8	8
	g-1	2	2	2	2
	h	67	67	67	67
	k	22	22	22	22
	l	34	34	34	34
Terminal for cond. cross section (mm²) min.-max.		—10	—10	—10	—10

1 MB 137



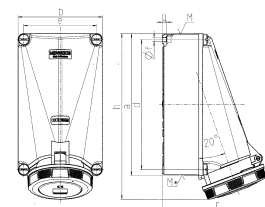
Drawing	Amp.	16		32	
1 MB 137	Poles	2	3	2	3
Dim. in mm	a	128	128	128	128
	b	84	84	84	84
	c	120	120	120	120
	d	11	11	11	11
	e	68	68	68	68
	f	5.3	5.3	5.3	5.3
	g	4	4	4	4
	h	146	146	146	146
	M	25	25	32	32
	M*	2x25 (blind) to be cut out		2x25 (blind) to be cut out	
Max. cable diam. (mm)		18	18	25	25
Terminal for cond. cross section (mm²) min.-max.		—2x6	—10	—2x6	—10

1 MB 141



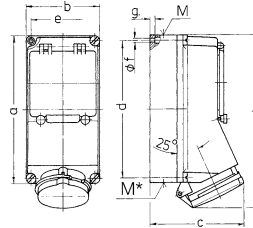
Drawing	Amp.	16			32		
1 MB 141	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	70	70	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g-1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	31	32	32	39	39	39
	l	43	52	54	58	58	65
Terminal for cond. cross section (mm²) min.-max.		—4	—4	—4	—10	—10	—10

1 MB 162



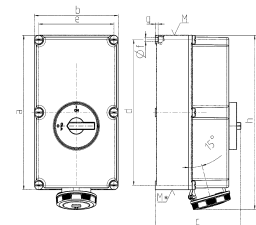
Drawing	Amp.	125	
1 MB 162	Poles	4	5
Dim. in mm	a	264	264
	b	163	163
	c	200	200
	d	240	240
	e	140	140
	f	8.1	8.1
	g	8	8
	h	306	306
	M	50	50
	M*	50	50
Max. cable diam. (mm)		38	38
Terminal for cond. cross section (mm²) min.-max.		—35	—35

1 MB 168



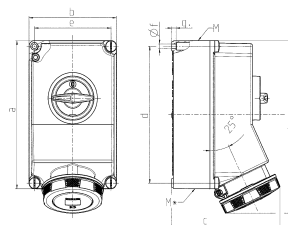
Drawing	Amp.	16			32		
1 MB 168	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6.3	6.3	6.3	6.3	6.3	6.3
	g	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		—4	—4	—4	—10	—10	—10

1 MB 177



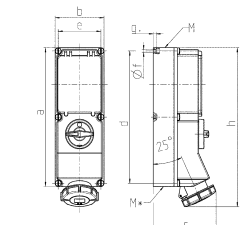
Drawing	Amp.	125		
1 MB 177	Poles	3	4	5
Dim. in mm	a	460	460	460
	b	260	260	260
	c	270	270	270
	d	434	434	434
	e	234	234	234
	f	11	11	11
	g	9	9	9
	h	519	519	519
	M	63	63	63
	M*	2x63	2x63	2x63
Max. cable diam. (mm)		44	44	44
Terminal for cond. cross section (mm²) min.-max.		—70	—70	—70

1 MB 180



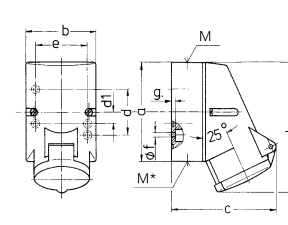
Drawing	Amp.	63		
1 MB 180	Poles	3	4	5
Dim. in mm	a	260	260	260
	b	160	160	160
	c	198	198	198
	d	240	240	240
	e	140	140	140
	f	8.1	8.1	8.1
	g	8	8	8
	h	303	303	303
	M	40	40	40
	M*	2 x 40	2 x 40	2 x 40
Max. cable diam. (mm)		27	27	27
Terminal for cond. cross section (mm²) min.-max.		—25	—25	—25

1 MB 181/620



Drawing	Amp.	16			32			63		
1 MB 181/620	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	460	460
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	202	202	202	202
	d	347	347	347	347	347	440	440	440	440
	e	117	117	117	117	117	160	160	160	160
	f	6.3	6.3	6.3	6.3	6.3	8.1	8.1	8.1	8.1
	g	8	8	8	8	8	8	8	8	8
	h	391	395	398	408	411	505	505	505	505
	M	3240	3240	3240	3240	3240	40	40	40	40
	M*	2x32	2x32	2x32	2x32	2x32	2x40	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27	27	27	27	27	27	27
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	6	6	6	6
		—4	—4	—4	—10	—10	—25	—25	—25	—25

1 MB 209

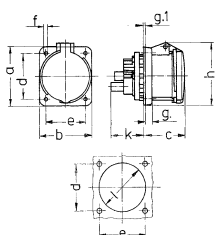


Drawing	Amp.	16		
1 MB 209	Poles	3	4	5
Dim. in mm	a	87	100	100
	b	64	75	75
	c	99	110	113
	d	40	—	—
	d1	—	11	11
	e	50	59	59
	f	4.5	5	5
	g	4	4	4
	h	115	125	128
	M	20	20	20
	M*	M/20 (blind) to be cut out		
Max. cable diam. (mm)		15	15	15
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5
		—4	—4	—4

Service – Drawings and dimensions

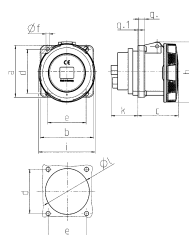
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 211



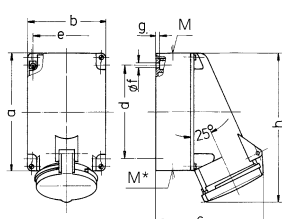
Drawing	Amp.	63		
1 MB 211	Poles	3	4	5
Dim. in mm	a	107	107	107
	b	100	100	100
	c	80	80	80
	d	85	85	85
	e	77	77	77
	f	6	6	6
	g	12	12	12
	g.1	2	2	2
	h	113	113	113
	k	55	55	55
	l	88	88	88
Terminal for cond. cross section (mm²) min.-max.		6 6	6 6	6 6
		-25 -25	-25 -25	-25 -25

1 MB 212/258



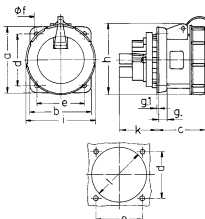
Drawing	Amp.	63			125	
1 MB 212/258	Poles	3	4	5	4	5
Dim. in mm	a	107	107	107	130	130
	b	100	100	100	130	130
	c	81	81	81	119	119
	d	85	85	85	104	104
	e	77	77	77	104	104
	f	6	6	6	6.5	6.5
	g	12	12	12	18	18
	g.1	2	2	2	2	2
	h	117	117	117	129	129
	i	113	113	113	126	126
	k	55	55	55	43	43
	l	88	88	88	95	95
Terminal for cond. cross section (mm²) min.-max.		6 6	6 6	6 6	25 25	25 25
		-25 -25	-25 -25	-25 -25	-70 -70	-70 -70

1 MB 213



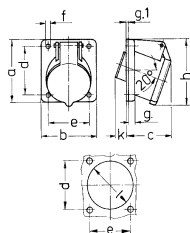
Drawing	Amp.	63		
1 MB 213	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	164	164	164
	d	134.5	134.5	134.5
	e	103	103	103
	f	6.1	6.1	6.1
	g	6	6	6
	h	216	216	216
	M	40	40	40
	M*	2x(M40 (blind) to be cut out)		
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		-25 -25	-25 -25	-25 -25

1 MB 217/1



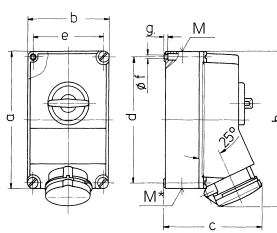
Drawing	Amp.	16			32			63		
1 MB 217/1	Poles	3	5	3	5	3	5	3	5	3
Dim. in mm	a	75	75	85	85	107	107	130	130	130
	b	75	75	75	75	75	75	100	100	100
	c	60	60	67	73	82	82	82	82	82
	d	60	60	60	60	85	85	85	85	85
	e	60	60	60	60	77	77	77	77	77
	f	5.5	5.5	5.5	5.5	6.5	6.5	6.5	6.5	6.5
	g	8	8	8	8	12	12	12	12	12
	g.1	2	2	2	2	2	2	2	2	2
	h	81	95	95	106	115	115	115	115	115
	i	70	88	94	102	114	114	114	114	114
	k	26	27	34	34	55	55	55	55	55
	l	52	57	58	65	88	88	88	88	88
Terminal for cond. cross section (mm²) min.-max.		1.5 1.5	1.5 1.5	2.5 2.5	2.5 2.5	6 6	6 6	6 6	6 6	6 6
		-4 -4	-4 -4	-10 -10	-10 -10	-25 -25	-25 -25	-25 -25	-25 -25	-25 -25

1 MB 231



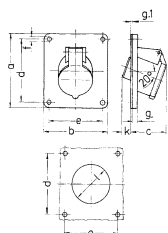
Drawing	Amp.	16			32		
1 MB 231	Poles	2	3	2	3	2	3
Dim. in mm	a	68	68	68	68	68	68
	b	62	62	62	62	62	62
	c	42	42	42	42	42	42
	d	53	53	53	53	53	53
	e	47	47	47	47	47	47
	f	4.5	4.5	4.5	4.5	4.5	4.5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	72	72	72	72	72	72
	k	32	32	32	32	32	32
	l	55	55	55	55	55	55
Terminal for cond. cross section (mm²) min.-max.		4 4	4 4	4 4	4 4	4 4	4 4
		-10 -10	-10 -10	-10 -10	-10 -10	-10 -10	-10 -10

1 MB 234



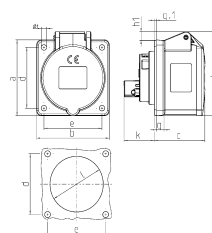
Drawing	Amp.	63		
1 MB 234	Poles	3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	192	192	192
	d	240	240	240
	e	140	140	140
	f	8.1	8.1	8.1
	g	8	8	8
	h	300	300	300
	M	40	40	40
	M*	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27
Terminal for cond. cross section (mm²) min.-max.		6 6	6 6	6 6
		-25 -25	-25 -25	-25 -25

1 MB 236



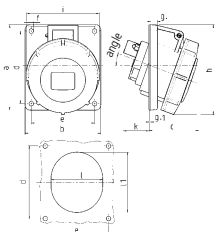
Drawing	Amp.	32		
1 MB 236	Poles	3	4	5
Dim. in mm	a	100	100	100
	b	92	92	92
	c	64	64	64
	d	85	85	85
	e	77	77	77
	f	5.1	5.1	5.1
	g	8	8	8
	g.1	2	2	2
	h	31	31	31
	k	60	60	60
	l	60	60	60
Terminal for cond. cross section (mm²) min.-max.		4 4	4 4	4 4
		-10 -10	-10 -10	-10 -10

1 MB 247



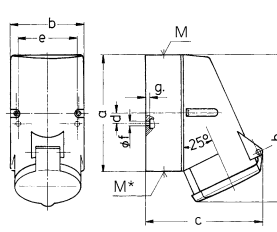
Drawing	Amp.	16			32		
1 MB 247	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	53	64	64	65
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	75	80	83	89	89	100
	h.1	6	8	8	11	11	12
	k	31	32	32	39	39	39
	l	43	52	54	58	58	62
Terminal for cond. cross section (mm²) min.-max.		1.5 1.5	1.5 1.5	2.5 2.5	2.5 2.5	2.5 2.5	2.5 2.5
		-4 -4	-4 -4	-10 -10	-10 -10	-10 -10	-10 -10

1 MB 251



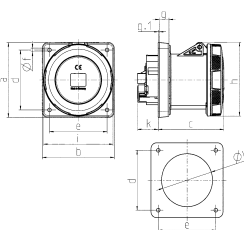
Drawing	Amp.	16			32		
1 MB 251	Poles	3	4	5	3	4	5
Dim. in mm	a	73.5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	60	62	64	64	66
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	84	100	105	109	109	113
	i	78	85	96	103	103	110
	k	43	32	32	53	53	45
	l	52	55	65	67	67	72
	l.1	60	63	72	82	82	85
	a	20°	20°	20°	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		1.5 1.5	1.5 1.5	2.5 2.5	2.5 2.5	2.5 2.5	2.5 2.5
		-4 -4	-4 -4	-10 -10	-10 -10	-10 -10	-10 -10

1 MB 257



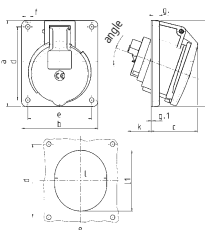
Drawing	Amp.	16			32		
1 MB 257	Poles	3	4	5	3	4	5
Dim. in mm	a	128	128	128	128	128	128
	b	84	84	84	84	84	84
	c	124	124	124	138	138	138
	d	11	11	11	11	11	11
	e	68	68	68	68	68	68
	f	5.3	5.3	5.3	5.3	5.3	5.3
	g	4	4	4	4	4	4
	g.1	2	2	2	2	2	2
	h	145	145	145	160	160	160
	M	25	25	25	32	32	32
	M*	(blind) to be cut out 2x25	(blind) to be cut out 2x25	(blind) to be cut out 2x25	(blind) to be cut out 2x25	(blind) to be cut out 2x25	(blind) to be cut out 2x25
Max. cable diam. (mm)		18	18	18	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1.5 1.5	1.5 1.5	2.5 2.5	2.5 2.5	2.5 2.5	2.5 2.5
		-4 -4	-4 -4	-10 -10	-10 -10	-10 -10	-10 -10

1 MB 258



Drawing	Amp.	125		
1 MB 258	Poles	4	5	5
Dim. in mm	a	130	130	130
	b	130	130	130
	c	119	119	119
	d	104	104	104
	e	104	104	104
	f	6.5	6.5	6.5
	g	18	18	18
	g.1	2	2	2
	h	129	129	129
	i	126	126	126
	k	43	43	43
	l	98	98	98
Terminal for cond. cross section (mm²) min.-max.		25 25	25 25	25 25
		-70 -70	-70 -70	-70 -70

1 MB 260

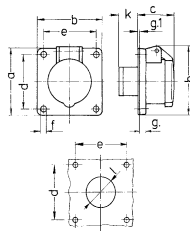


Drawing	Amp.	16			32		
1 MB 260	Poles	3	4	5	3	4	5
Dim. in mm	a	73.5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	50	59	58	62	62	61
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	7	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	79	100	100	103	103	106
	k	44	34	34	54	54	49
	l	52	55	65	67	67	72
	l.1	60	63	72	82	82	85
	a	20°	20°	20°	20°	20°	20°
Terminal for cond. cross		1.5	1.5	1.5	2.5	2.5	2.5

Service – Drawings and dimensions

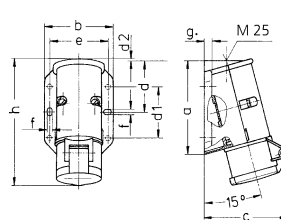
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 292



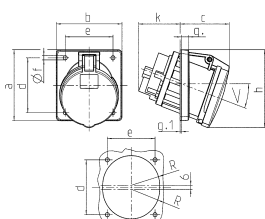
Drawing	Amp.	16		32	
1 MB 292	Poles	2	3	2	3
Dim. in mm					
a		75	75	75	75
b		75	75	75	75
c		44	44	44	44
d		60	60	60	60
e		60	60	60	60
f		5.5	5.5	5.5	5.5
g		8	8	8	8
g.1		2	2	2	2
h		77	77	77	77
k		22	22	22	22
l		34	34	34	34
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

1 MB 294



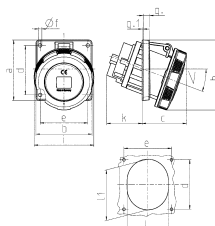
Drawing	Amp.	16		32	
1 MB 294	Poles	2	3	2	3
Dim. in mm					
a		96	96	96	96
b		73	73	73	73
c		90	90	90	90
d		53	53	53	53
d1		52	52	52	52
d2		2	2	2	2
e		62	62	62	62
f		5.3	5.3	5.3	5.3
g		8	8	8	8
h		129	129	129	129
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		—10	—10	—10	—10

1 MB 297



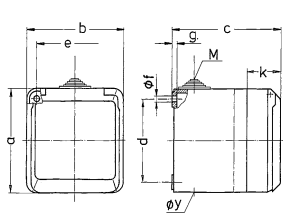
Drawing	Amp.	63		
1 MB 297	Poles	3	4	5
Dim. in mm				
a		110	110	110
b		106	106	106
c		82	82	82
d		85	85	85
e		77	77	77
f		6.5	6.5	6.5
g		12	12	12
g.1		2	2	2
h		122	122	122
k		69	69	69
r		46	46	46
a		20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		—25	—25	—25

1 MB 298/601



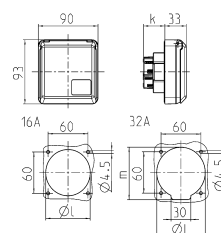
Drawing	Amp.	63			125		
1 MB 298	Poles	3	4	5	3	4	5
1 MB 601	Poles	3	4	5	3	4	5
Dim. in mm							
a		110	110	110	114	114	114
b		106	106	106	110	110	110
c		85	85	85	75	75	75
d		85	85	85	90	90	90
e		77	77	77	90	90	90
f		6.2	6.2	6.2	6.2	6.2	6.2
g		12	12	12	13	13	13
g.1		2	2	2	2	2	2
h		128	128	128	133	133	133
i		113	113	113	126	126	126
k		67	67	67	103	103	103
l		92	92	92	94	94	94
tt		98	98	98	107	107	107
c		20°	20°	20°	15°	15°	15°
Terminal for cond. cross section (mm²) min.-max.		6	6	6	25	25	25
		—25	—25	—25	70	70	70

1 MB 312



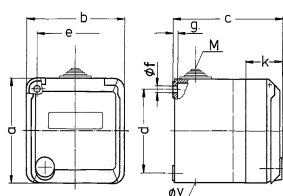
Drawing	Amp.	16			32		
1 MB 312	Poles	3	4	5	3	4	5
Dim. in mm							
a		93	93	93	93	93	93
b		90	90	90	90	90	90
c		87	87	87	99	99	99
d		75	75	75	75	75	75
e		73	73	73	73	73	73
f		5.5	5.5	5.5	5.5	5.5	5.5
g		4.2	4.2	4.2	4.2	4.2	4.2
k		33	33	33	33	33	33
y		25.5	25.5	25.5	25.5	25.5	25.5
M		25x1.5	25x1.5	25x1.5	25x1.5	25x1.5	25x1.5
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		—4	—4	—4	—6	—6	—6

1 MB 315



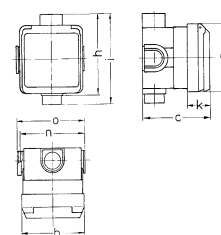
Drawing	Amp.	16			32		
1 MB 315	Poles	3	4	5	3	4	5
Dim. in mm							
a		32	32	32	48	48	48
b		50	60	67	65	65	73
l		-	-	-	70	70	76
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		—4	—4	—4	—6	—6	—6

1 MB 317



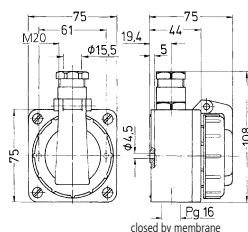
Drawing	Amp.	16			32		
1 MB 317	Poles	3	4	5	3	4	5
Dim. in mm							
a		93	93	93	93	93	93
b		90	90	90	90	90	90
c		88	88	88	100	100	100
d		75	75	75	75	75	75
e		73	73	73	73	73	73
f		5.5	5.5	5.5	5.5	5.5	5.5
g		4.2	4.2	4.2	4.2	4.2	4.2
k		34	34	34	34	34	34
y		25.5	25.5	25.5	25.5	25.5	25.5
M		25x1.5	25x1.5	25x1.5	25x1.5	25x1.5	25x1.5
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		—4	—4	—4	—6	—6	—6

1 MB 336



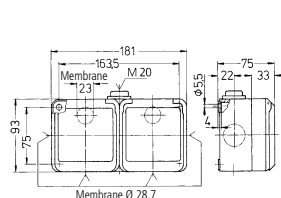
Drawing	Amp.	16			32		
1 MB 336	Poles	3	4	5	3	4	5
Dim. in mm							
a		93	93	93	93	93	93
b		90	90	90	90	90	90
c		95	95	95	95	95	95
h		111	111	111	111	111	111
i		124	124	124	124	124	124
k		33	33	33	33	33	33
n		91	91	91	91	91	91
o		95	95	95	95	95	95
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		—4	—4	—4	—6	—6	—6

1 MB 347



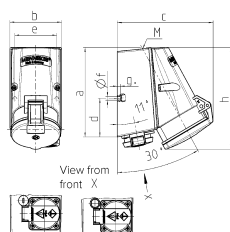
Drawing
1 MB 347
Dim. in mm

1 MB 350



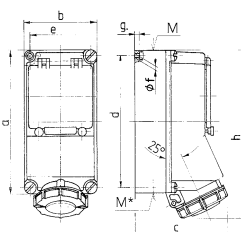
Drawing	Amp.	16		
1 MB 350	Poles	3	4	5
Dim. in mm				
a		1.5	1.5	1.5
Terminal for cond. cross section (mm²) min.-max.		—4	—4	—4

1 MB 354



Drawing	Amp.	16		
1 MB 354	Poles	4	5	5
Dim. in mm				
a		141	141	141
b		84	84	85
c		136	140	158
d		61	61	61
e		68	68	68
f		5.5	5.5	5.5
g		5	5	5
h		142	145	161
M		25	25	25
Max. cable diam. (mm)		18	18	18
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	2.5
		—4	—4	—10

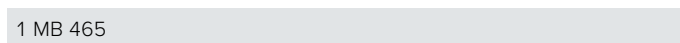
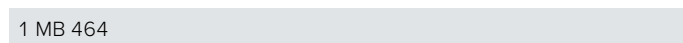
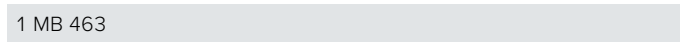
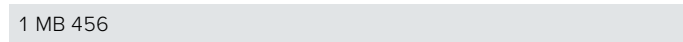
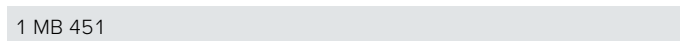
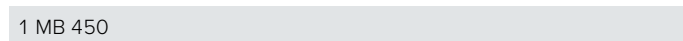
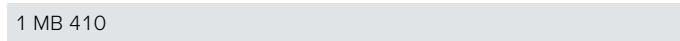
1 MB 378



Drawing	Amp.	16			32	
1 MB 378	Poles	3	4	5	4	5
Dim. in mm						
a		225	225	225	225	225
b		118	118	118	118	118
c		144	146	147	152	153
d		208	208	208	208	208
e		101	101	101	101	101
f		6.3	6.3	6.3	6.3	6.3
g		8	8	8	8	8
h		252	255	259	268	274
M		1x25 and 1x32	1x25 and 1x32	1x25 and 1x32	1x25 and 1x32	1x25 and 1x32
M*		2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5
		—4	—4	—4	—10	—10

6

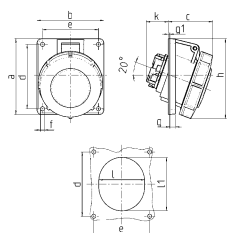
1 MB 382



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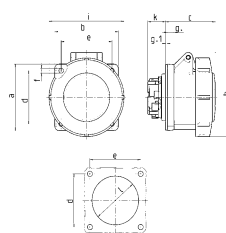
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 466



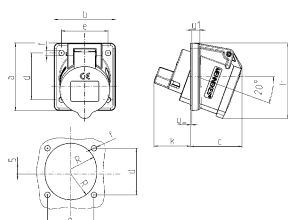
Drawing	Amp.	16			32		
1 MB 466	Poles	3	4	5	3	4	5
Dim. in mm	a	73.5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	60	62	66	66	66
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	7	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	84	100	106	109	109	113
	k	31	31	31	44	44	54
	l	52	55	65	70	70	73
	lt	60	63	72	82	82	85
Terminal for cond. cross section (mm ²) min.-max.		1.5 1.5	1.5 1.5	2.5 2.5	2.5 2.5	2.5 2.5	2.5 2.5
		—4	—4	—4	—6	—6	—6

1 MB 467



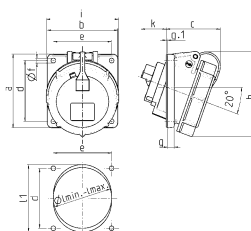
Drawing	Amp.	16			32		
1 MB 467	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	69	69	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	21	21	21	28	28	38
	l	43	52	54	60	60	65
Terminal for cond. cross section (mm ²) min.-max.		1.5 1.5	1.5 1.5	2.5 2.5	2.5 2.5	2.5 2.5	2.5 2.5
		—4	—4	—4	—6	—6	—6

1 MB 472



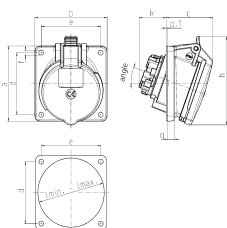
Drawing	Amp.	16		
1 MB 472	Poles	3	4	5
Dim. in mm	a	68	85	85
	b	62	85	85
	c	52	60	62
	d	47	70	70
	e	47	70	70
	f	5.5	5.5	5.5
	g	8	8	8
	g.1	1.5	2	2
	h	76	78	78
	k	37	44	48
Terminal for cond. cross section (mm ²) min.-max.		1.5	2.5	2.5
		—4	—10	—10

1 MB 474



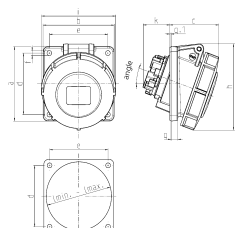
Drawing	Amp.	16			32			63		
1 MB 474	Pole	3	5	3/4	5	3/4/5		3	5	3/4/5
Dim. in mm	a	85	85	85	85	114		85	85	114
	b	85	85	85	85	85		85	85	85
	c	71	65	65	80	98		71	65	65
	d	70	70	70	70	90		70	70	90
	e	70	70	70	70	90		70	70	90
	f	5.5	5.5	5.5	5.5	5.5		5.5	5.5	5.5
	g	8	8	8	8	12		8	8	12
	g.1	2	2	2	2	2		2	2	2
	h	92	98	101	115	135		92	98	101
	i	70	87	94	101	112		70	87	94
	k	39	33	53	53	70		39	33	53
	l min.	57	70	78	78	92		57	70	78
	l max.	78	78	78	78	105		78	78	105
	lt	—	—	—	—	105		—	—	—
Terminal for cond. cross section (mm ²) min.-max.		1.5 1.5	1.5 1.5	2.5 2.5	2.5 2.5	6		1.5 1.5	1.5 1.5	2.5 2.5
		—4	—4	—10	—10	—25		—4	—4	—10

1 MB 519



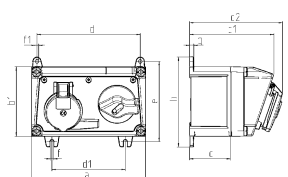
Drawing	Amp.	16			32		
1 MB 519	Poles	3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	52	57	55	61	60	66
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	86	96	100	96	104	110
	k	31	32	33	43	44	48
	l min.	57	64	70	78	78	78
	l max.	76	76	76	78	78	78
	δ	20	20	20	20	20	20
Terminal for cond. cross section (mm ²) min.-max.		1.5 1.5	1.5 1.5	2.5 2.5	2.5 2.5	2.5 2.5	2.5 2.5
		—4	—4	—4	—10	—10	—10

1 MB 520



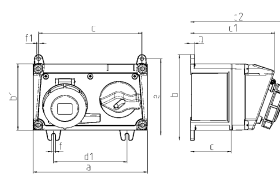
Drawing	Amp.	16			32		
1 MB 520	Poles	3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	56	59	59	64	64	71
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	87	91	99	103	103	110
	i	78	85	89	103	103	106
	k	32	32	33	44	44	49
	l min.	57	64	70	78	78	78
	l max.	76	76	76	78	78	78
Terminal for cond. cross section (mm ²) min.-max.		1.5 1.5	1.5 1.5	2.5 2.5	2.5 2.5	2.5 2.5	2.5 2.5
		—4	—4	—4	—6	—6	—6

1 MB 550



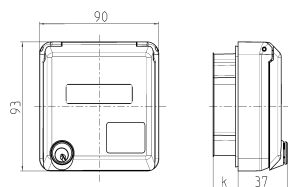
Drawing	Amp.	16			32		
1 MB 550	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	168	168	168	168	168	168
	b.1	130	130	130	130	130	130
	c	80	80	80	80	80	80
	c.1	166	166	166	166	166	166
	c.2	182	183	183	193	193	193
	d	204	204	204	204	204	204
	d.1	145	145	145	145	145	145
	e	150	150	150	150	150	150
	f	7	7	7	7	7	7
	f.1	07	07	07	07	07	07
	g	8	8	8	8	8	8

1 MB 551



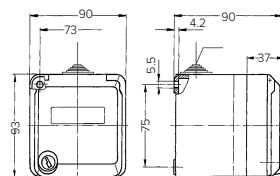
Drawing	Amp.	16			32		
1 MB 551	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	168	168	168	168	168	168
	b.1	130	130	130	130	130	130
	c	80	80	80	80	80	80
	c.1	166	166	166	166	166	166
	c.2	182	185	186	197	197	198
	d	204	204	204	204	204	204
	d.1	145	145	145	145	145	145
	e	150	150	150	150	150	150
	f	7	7	7	7	7	7
	f.1	07	07	07	07	07	07
	g	8	8	8	8	8	8

1 MB 563



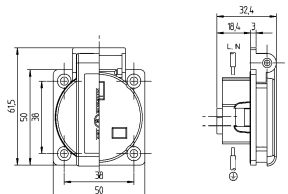
Drawing	Part no.	k
1 MB 563		
Dim. in mm	4362	26
	4342	37
	4322	36
	4377	44
	4364	26
	4344	37
	4324	36
	4304	31
	4326	36
	4345	37

1 MB 564



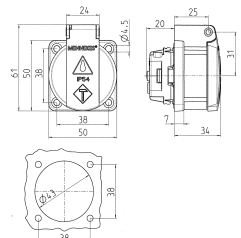
Drawing	Part no.
1 MB 564	
Dim. in mm	4362

1 MB 584



Drawing	Part no.
1 MB 584	
Dim. in mm	4362

1 MB 586

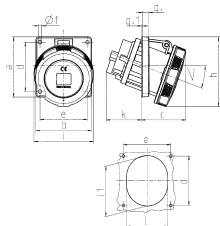


Drawing	Part no.
1 MB 586	
Dim. in mm	4362

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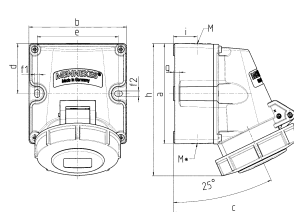
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 601



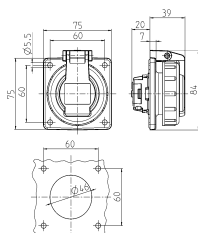
Drawing	Amp.	63				125			
1 MB 601	Poles	5	3	4	5	3	4	5	
Dim. in mm	a	110	114	114	114	110	114	114	
	b	106	110	110	110	106	110	110	
	c	84	75	75	75	84	75	75	
	d	90	90	90	90	90	90	90	
	e	90	90	90	90	90	90	90	
	f	6.5	6.2	6.2	6.2	6.5	6.2	6.2	
	g	12	13	13	13	12	13	13	
	g.1	2	2	2	2	2	2	2	
	h	128	133	133	133	128	133	133	
	i	113	126	126	126	113	126	126	
	k	67	103	103	103	67	103	103	
	l	92	94	94	94	92	94	94	
	ll	98	107	107	107	98	107	107	
	<	15°	15°	15°	15°	15°	15°	15°	
Terminal for cond. cross section (mm²) min.-max.		6	25	25	25	6	25	25	
		—20	—70	—70	—70	—20	—70	—70	

1 MB 622



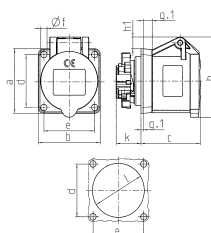
Drawing	Amp.	16			32		
1 MB 622	Poles	3	4	5	3	4	5
Dim. in mm	a	100	100	100	100	100	100
	b	101	101	101	109	109	109
	c	117	125	131	157	157	160
	d	50	50	50	50	50	50
	e	84	84	84	92	92	92
	fl	5.3	5.3	5.3	5.3	5.3	5.3
	f2	5.3	5.3	5.3	5.3	5.3	5.3
	g	6.5	6.5	6.5	6.5	6.5	6.5
	h	131	131	132	148	148	148
	i	24.7	24.7	24.7	27.5	27.5	27.5
	M	25 (optional M20)			32 (optional M25)		
	M*	2x25 (blind) to be cut out			2x25 (blind) to be cut out		
Max. cable diam. (mm)		18 (M25) and 15 (M20)			25 (M32) and 18 (M25)		
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		—4	—4	—4	—6	—6	—6

1 MB 627



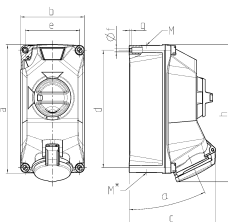
Drawing
1 MB 627
Dim. in mm

1 MB 648



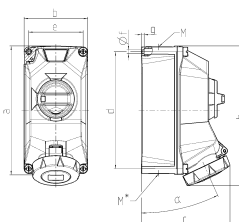
Drawing	Amp.	16		
1 MB 648	Poles	3	4	5
Dim. in mm	a	55	55	55
	b	55	55	55
	c	54	54	54
	d	45	45	45
	e	45	45	45
	f	5.5	5.5	5.5
	g	8	8	8
	g.1	2	2	2
	h	70	70	70
	h1	12	12	12
	k	22	22	22
	l	47	47	47
Terminal for cond. cross section (mm²) min.-max.		—4	—4	—4

1 MB 713



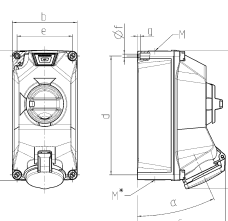
Drawing	Amp.	16			32		
1 MB 713	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	160	160	160	162	162	162
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6.4	6.4	6.4	6.4	6.4	6.4
	g	5	5	5	5	5	5
	h	238	244	243	249	249	250
	α	25	25	25	25	25	25
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		2.5	2.5	2.5	2.5	2.5	2.5
		—10	—10	—10	—10	—10	—10

1 MB 714



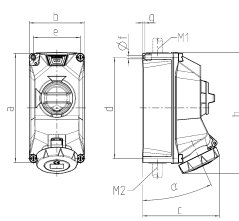
Drawing	Amp.	16			32		
1 MB 714	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	163	163	165	168	168	169
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6.4	6.4	6.4	6.4	6.4	6.4
	g	5	5	5	5	5	5
	h	241	245	249	252	252	255
	α	25	25	25	25	25	25
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		2.5	2.5	2.5	2.5	2.5	2.5
		—10	—10	—10	—10	—10	—10

1 MB 715



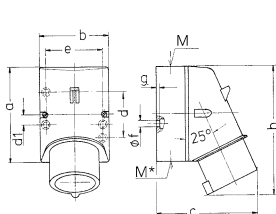
Drawing	Amp.	16			32		
1 MB 715	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	160	160	160	162	162	162
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6.4	6.4	6.4	6.4	6.4	6.4
	g	5	5	5	5	5	5
	h	238	244	243	249	249	250
	α	25	25	25	25	25	25
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		2.5	2.5	2.5	2.5	2.5	2.5
		—10	—10	—10	—10	—10	—10

1 MB 716



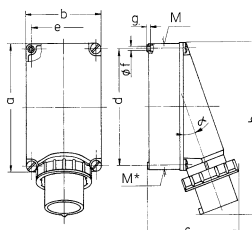
Drawing	Amp.	16			32		
1 MB 716	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	163	163	165	168	168	169
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6.4	6.4	6.4	6.4	6.4	6.4
	g	5	5	5	5	5	5
	h	241	245	249	252	252	255
	α	25	25	25	25	25	25
	M	1x25 and 1x32			1x25 and 1x32		
	M*	2x25	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		2.5	2.5	2.5	2.5	2.5	2.5
		—10	—10	—10	—10	—10	—10

2 MB 32



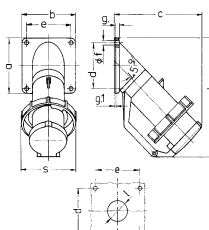
Drawing	Amp.	16			32		
2 MB 32	Poles	3	4	5	3	4	5
Dim. in mm	a	87	100	100	128	128	128
	b	64	75	75	84	84	84
	c	93	106	110	133	133	135
	d	40	—	—	—	—	—
	e	50.5	59	59	68	68	68
	f	4.5	5	5	5.3	5.3	5.3
	g	4	4	4	4	4	4
	h	122	133	135	169	169	170
	M	20	20	20	32	32	32
	M*	1x20 (blind) to be cut out			2x25 (blind) to be cut out		
Max. cable diam. (mm)		15	15	15	18/25	18/25	18/25
Terminal for cond. cross section (mm²) min.-max.		1	1	1	2.5	2.5	2.5
		—2.5	—2.5	—2.5	—6	—6	—6

2 MB 36



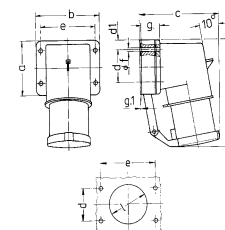
Drawing	Amp.	63			125		
2 MB 36	Poles	3	4	5	4	5	
Dim. in mm	a	170	170	170	264	264	
	b	118	118	118	163	163	
	c	171	171	171	205	205	
	d	134.5	134.5	134.5	240	240	
	e	103	103	103	140	140	
	f	6.1	6.1	6.1	8.1	8.1	
	g	6	6	6	8	8	
	h	250	250	250	355	355	
	M	40	40	40	50	50	
	M*	2x40	2x40	2x40	50	50	
	α	25°	25°	25°	20°	20°	
Max. cable diam. (mm)		27	27	27	38	38	
Terminal for cond. cross section (mm²) min.-max.		6	6	6	16	16	
		—16	—16	—16	—35	—35	

2 MB 40



Drawing	Amp.	16			32			63		
2 MB 40	Poles	5	3	4	5	4	5	4	5	
Dim. in mm	a	85	85	85	85	114	114	114	114	
	b	85	85	85	85	114	114	114	114	
	c	141	141	141	144	180	180	180	180	
	d	70	70	70	70	90	90	90	90	
	e	70	70	70	70	90	90	90	90	
	f	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	
	g	6	6	6	6	6	6	6	6	
	g.1	2	2	2	2	2	2	2	2	
	h	181	181	181	188	242	242	242	242	
	s	86	93	93	100	113	113	113	113	
	l	30	30	30	30	40	40	40	40	
Terminal for cond. cross section (mm²) min.-max.		2.5	2.5	2.5	2.5	4	4	4	4	
		—2.5	—6	—6	—6	—16	—16	—16	—16	

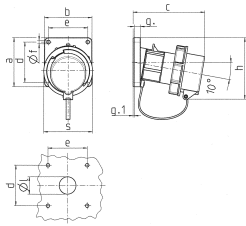
2 MB 43



Service – Drawings and dimensions

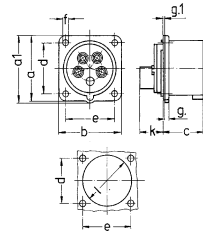
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

2 MB 62/1



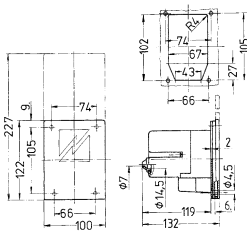
Drawing	Amp.	16		32		63
2 MB 62/1	Poles	3	5	3	5	5
Dim. in mm	a	85	85	85	85	106
	b	85	85	85	85	101
	c	128	128	129	135	152
	d	70	70	70	70	85
	e	70	70	70	70	77
	f	6.3	6.3	6.3	6.3	6.5
	g	11	11	11	11	12
	h	105	107	108	111	130
	s	70	86	92	101.5	114
Terminal for cond. cross section (mm²) min.-max.		1	1	2.5	2.5	4
		-2.5	-2.5	-6	-6	-10

2 MB 68



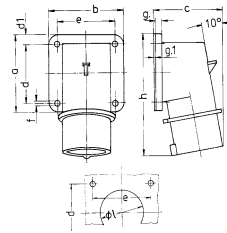
Drawing	Amp.	16		32	
2 MB 68	Poles	3	5	3	5
Dim. in mm	a	66	66	72	72
	a1	69	69	78	78
	b	66	66	72	72
	c	43	43	52	52
	d	52	52	60	60
	e	52	52	60	60
	f	4.5	4.5	4.5	4.5
	g	4.5	4.5	4.5	4.5
	g.1	2	2	2	2
	k	27	27	32	32
	l	59	59	63	63
Terminal for cond. cross section (mm²) min.-max.		-2.5	-2.5	1	2.5
				-6	-6

2 MB 70



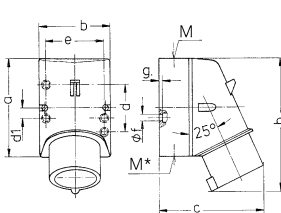
Drawing
2 MB 70
Dim. in mm

2 MB 73



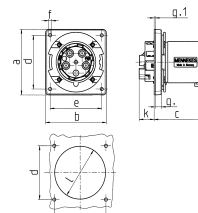
Drawing	Amp.	16		32	
2 MB 73	Poles	4	5	3	5
Dim. in mm	a	85	85	75	75
	b	85	85	90	90
	c	75	79	87	87
	d	64	64	45	45
	d1	10	10	13	13
	e	64	64	78	78
	f	5.5	5.5	5.5	5.5
	g	6	6	6	6
	g.1	2	2	2	2
	h	129	129	137	137
	l	50	50	55	55
Terminal for cond. cross section (mm²) min.-max.		1	1	2.5	2.5
		-2.5	-2.5	-6	-6

2 MB 147



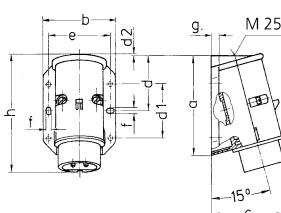
Drawing	Amp.	16		32	
2 MB 147	Poles	7	7	7	7
Dim. in mm	a	100	100	128	128
	b	75	75	84	84
	c	110	110	135	135
	d	—	—	—	—
	d1	10.5	10.5	11	11
	e	59	59	68	68
	f	5	5	5.3	5.3
	g	4	4	4	4
	h	135	135	170	170
	M	20	20	32	32
	M*	20 (blind) to be cut out	20 (blind) to be cut out	2x25 (blind) to be cut out	2x25 (blind) to be cut out
Max. cable diam. (mm)		15	15	18	18
Terminal for cond. cross section (mm²) min.-max.		1	1	2.5	2.5
		-2.5	-2.5	-4	-4

2 MB 155



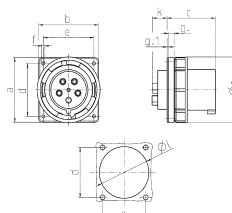
Drawing	Amp.	63		
2 MB 155	Poles	3	4	5
Dim. in mm	a	110	110	110
	b	106	106	106
	c	86	86	86
	d	90	90	90
	e	90	90	90
	f	5.5	5.5	5.5
	g	12	12	12
	g.1	2	2	2
	k	28	28	28
	l	88.5	88.5	88.5
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		-16	-16	-16

2 MB 160



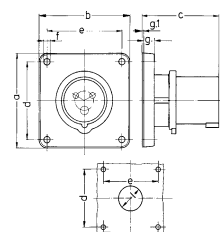
Drawing	Amp.	16		32	
2 MB 160	Poles	2	3	2	3
Dim. in mm	a	96	96	96	96
	b	73	73	73	73
	c	74	74	74	74
	d	53	53	53	53
	d1	52	52	52	52
	d2	2	2	2	2
	e	62	62	62	62
	f	5.3	5.3	5.3	5.3
	g	8	8	8	8
	h	116	116	116	116
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		-10	-10	-10	-10

2 MB 166



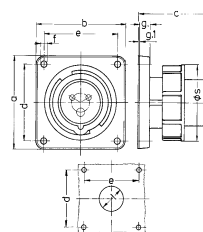
Drawing	Amp.	63			125		
2 MB 166	Poles	3	4	5	3	4	5
Dim. in mm	a	110	110	110	130	130	130
	b	106	106	106	130	130	130
	c	86	86	86	112	112	112
	d	90	90	90	104	104	104
	e	90	90	90	104	104	104
	f	5.5	5.5	5.5	6.5	6.5	6.5
	g	12	12	12	18	18	18
	g.1	2	2	2	2	2	2
	k	28	28	28	28	28	28
	l	88.5	88.5	88.5	98	98	98
	s	113	113	113	132	132	132
Terminal for cond. cross section (mm²) min.-max.		6	6	6	25	25	25
		-16	-16	-16	-70	-70	-70

2 MB 173/2



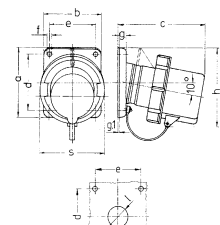
Drawing	Amp.	16			32		
2 MB 173/2	Poles	3	4	5	3	4	5
Dim. in mm	a	85.7	85.7	85.7	85.7	85.7	85.7
	b	85.7	85.7	85.7	85.7	85.7	85.7
	c	72	72	72	90	90	90
	d	69.5	69.5	69.5	69.5	69.5	69.5
	e	69.5	69.5	69.5	69.5	69.5	69.5
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	11	11	11	11	11	11
	g.1	2	2	2	2	2	2
	l	32	36	36	47	47	47
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-10	-10	-10

2 MB 187/2



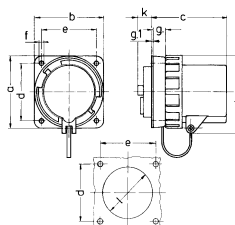
Drawing	Amp.	16			32		
2 MB 187/2	Poles	3	4	5	3	4	5
Dim. in mm	a	85.7	85.7	85.7	85.7	85.7	85.7
	b	85.7	85.7	85.7	85.7	85.7	85.7
	c	72	72	72	90	90	90
	d	69.5	69.5	69.5	69.5	69.5	69.5
	e	69.5	69.5	69.5	69.5	69.5	69.5
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	11	11	11	11	11	11
	g.1	2	2	2	2	2	2
	l	32	36	36	47	47	47
	s	71	79	89	94	94	102
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-10	-10	-10

2 MB 203



Drawing	Amp.	16		32	
2 MB 203	Poles	7	7	7	7
Dim. in mm	a	85	85	85	85
	b	85	85	85	85
	c	132	132	137	137
	d	70	70	70	70
	e	70	70	70	70
	f	6.3	6.3	6.3	6.3
	g	11	11	11	11
	g.1	2	2	2	2
	h	107	107	111	111
	s	86	86	102	102
	l	30	30	30	30
Terminal for cond. cross section (mm²) min.-max.		1	1	2.5	2.5
		-2.5	-2.5	-6	-6

2 MB 206



Drawing	Amp.	125	
2 MB 206	Poles	5	5
Dim. in mm	a	130	130
	b	130	130
	c	120	120
	d	104	104
	e	104	104
	f	6.5	6.5
	g	18	18
	g.1	2	2
	h	131	131
	k	28	28
	l	98	98
Terminal for cond. cross section (mm²) min.-max.		25	25
		-70	-70

6

2 MB 212



Drawing 2 MB 221	Amp. Poles	16		32		
		4	5	3	4	5
Dim. in mm	a	92.5	92.5	102	102	102
	b	87	87	94	94	94
	c	84.5	84.5	94	94	94
	d	55.5	55.5	62	62	62
	e	76	76	84	84	84
	f1	5.3	5.3	5.3	5.3	5.3
	f2	5.3	5.3	5.3	5.3	5.3
	h	128	128	146	146	146
	i	21.5	21.5	26	26	26
	M	25x1.5	25x1.5	25x1.5	25x1.5	25x1.5

Technical drawings of the 1000 series engine, including side, front, and rear views with dimensions.

Drawing 5 MB 57	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	200	200	200	200	200	200
	b	110	110	110	110	110	110
	c	47	50	51	59	59	60
	d	190	190	190	190	190	190
	e	100	100	100	100	100	100
	f	5	5	5	5	5	5
	g	13	13	13	13	13	13
	k max.	56	56	56	56	56	56

Drawing 5 MB 59	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm							
a	200	200	200	200	200	200	200
b	110	110	110	110	110	110	110
c	46	49	46	56	56	53	
d	190	190	190	190	190	190	190
e	100	100	100	100	100	100	100
f	5	5	5	5	5	5	5
g	13	13	13	13	13	13	13
k max.	56	56	56	56	56	56	56

[illegible]

Bestellnr. 40243 / Zechn. 6 MB 2 / 5 TE

Bestellnr. 40444 / Zechn. 6 MB 3 / 2 TE

Technical drawing showing the front and top views of a rectangular metal plate. The front view (top) shows a rectangle with overall dimensions 127 mm (width) and 177 mm (height). The height is composed of 5.5 mm, 17 mm, and 25 mm sections. The top view (bottom) shows a rectangle with overall dimensions 102 mm (width) and 55 mm (depth). The width is composed of 35 mm, 27 mm, and 40 mm sections. The depth is composed of 25 mm and 30 mm sections. There are four circular holes, one in each corner, with a diameter of 10 mm. The distance between the centers of the holes is 70 mm horizontally and 47 mm vertically.

Bestellnr. 40871 / Zechn. 6 MB 4 / 5 TE

Technical drawing of a rectangular plate. The top view shows a rectangle with overall dimensions of 62 (width) and 53.3 (height). There are four corner holes, each with a diameter of 6.5. The distance from the center of each corner hole to the nearest edge is 11.7. A side view shows the plate has a thickness of 2.4. A detail view of a corner shows a fillet with a radius of R7.5. The detail view also shows a center line and a note: "thread holes for M4". The detail view dimensions include a width of 6.5, a height of 7.5, and a distance of 11.7 from the center of the corner hole to the edge.

Part no. 40979ZA / Draw. 6 MB 12 / 8 modules

Part no. 40981ZE / Draw. 6 MB 13 / 12 modules

Technical drawing of the 1000x500x24 mm box. The drawing shows two views: a top view and a side view. The top view indicates a length of 234 mm, a width of 24 mm, and a depth of 93.5 mm. The side view shows a height of 24 mm and a width of 216 mm. The side view also indicates a maximum radius of R5 and a distance of 71 mm from the bottom edge to the center of the mounting holes. The side view is labeled 'für M4'.

Bestellnr. 40980 / Zechn. 6 MB 14 / 12 TE

Bestellnr. 40978 / Zeichn. 6 MB 15 / 8 TE

Bestellnr. 40985 / Zeichn. 6 MB 16 / 6 TE

The technical drawing shows three views of the lock washer:

- Top View:** Dimensions include overall width 127, height 93.5, inner width 113, and inner height 76. It features two circular holes with diameters of 46 and 35.
- Side View:** Shows a thickness of 24 and a central hole diameter of Ø4.2.
- Front View:** Shows a base width of 105, a total width of 113, and a height of 65. It includes labels for "thread holes for M4", "center line", and "max R5".

Part no. 40986ZA / Draw. 6 MB 17 / 6 modules

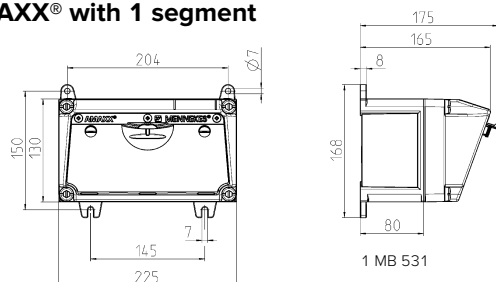
Drawing 6 MB 18				
	Number of spacing modules	6	8	12
Dim. in mm	b	115	150	222
	e	105	140	212

Service – Drawings and dimensions

The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

AMAXX®. Combination units.

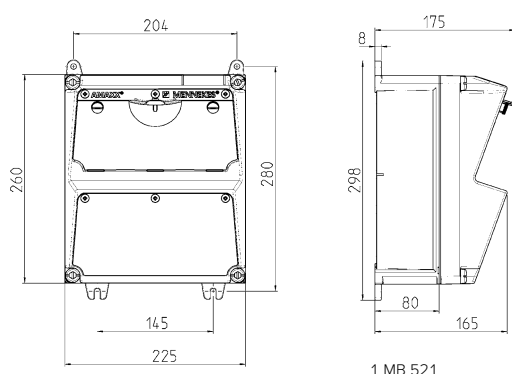
AMAXX® with 1 segment



Depth dimensions of the AMAXX® enclosures with 1, 2, or 3 segments and various fittings.

Sockets	IP-degrees	Depth
SCHUKO® 16 A, 230 V	IP44	175 mm
	IP67	194 mm
CEE 16 A, 3 p, 230 V	IP44	204 mm
	IP67	205 mm
CEE 16 A, 5 p, 400 V	IP44	209 mm
	IP67	213 mm
CEE 32 A, 5 p, 400 V	IP44	221 mm
	IP67	227 mm
CEE 63 A, 5 p, 400 V	IP44	248 mm
	IP67	248 mm

AMAXX® with 2 segments



Cable entries: closed for cut out.

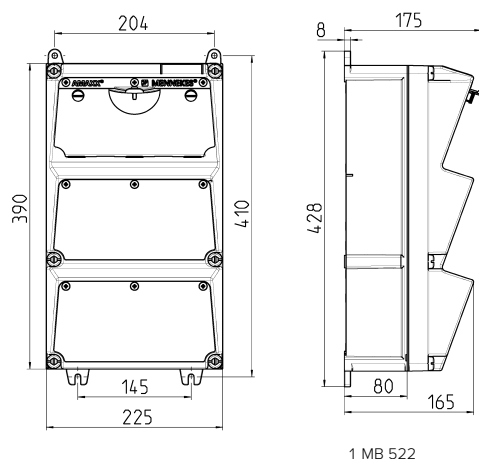
single enclosure 130 mm x 225 mm:
2 x M 25 on top and bottom

double enclosure 260 mm x 225 mm:
2 x M 32 on top and bottom

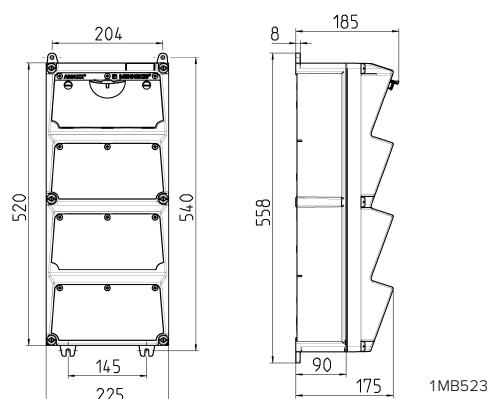
triple enclosure 390 mm x 225 mm:
2 x M 40 on top and bottom

For all enclosures: 2 x M 20 on top and bottom for cut out.

AMAXX® with 3 segments



AMAXX® with 4 segments



Depth dimensions of the AMAXX® enclosures with 4 or 5 segments and various fittings.

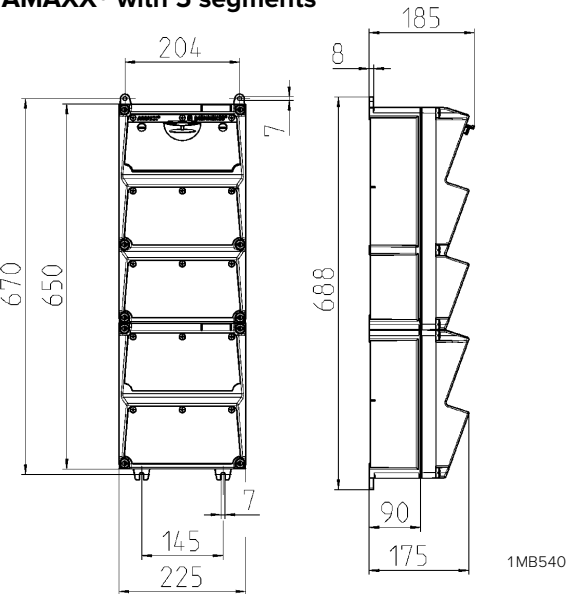
Sockets	IP-degrees	Depth
SCHUKO® 16 A, 230 V	IP44	186 mm
	IP67	208 mm
CEE 16 A, 3 p, 230 V	IP44	216 mm
	IP67	220 mm
CEE 16 A, 5 p, 400 V	IP44	222 mm
	IP67	226 mm
CEE 32 A, 5 p, 400 V	IP44	231 mm
	IP67	236 mm
CEE 63 A, 5 p, 400 V	IP44	260 mm
	IP67	260 mm

Service – Drawings and dimensions

The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

AMAXX®. Combination units.

AMAXX® with 5 segments

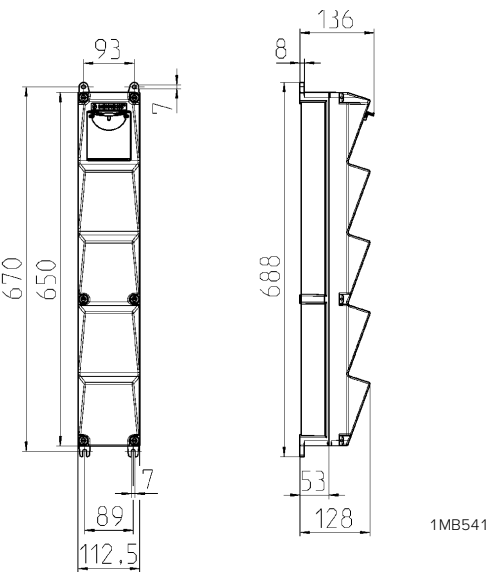


Cable entries: closed for cut out.

quadruple enclosure 520 mm x 225 mm :
quintuple enclosure 650 mm x 225 mm :
2 x M 40 on top and bottom

For both enclosures: 2 x M 20 on top
and bottom for cut out.

AMAXX® s with 5 segments



Depth dimensions of the AMAXX® s enclosures
with 5 segments and various fittings.

Sockets	IP-degrees	Depth
SCHUKO® 16 A, 230 V	IP44	140 mm
	IP67	157 mm
CEE 16 A, 3 p, 230 V	IP44	170 mm
	IP67	169 mm
CEE 16 A, 5 p, 400 V	IP44	172 mm
	IP67	174 mm
CEE 32 A, 5 p, 400 V	IP44	182 mm
	IP67	188 mm

Cable entries: closed for cut out.

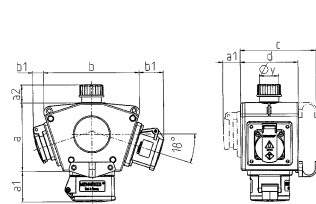
AMAXX® s 650 mm x 112,5 mm:
1 x M 25 each on top and bottom or
1 x M 32 each on top and bottom

Additionally: 1 x M 20 each on top and
bottom to cut out.

Service – Drawings and dimensions

The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

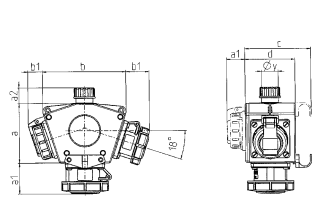
3 MB 44



3 MB 44			
Pos.	Receptacles	IP-degrees	Dim.
a			114.0 mm
a1	SCHUKO® 16 A, 230 V	IP 44	max. 30.0 mm
a1	CEE 16 A, 3 p, 230 V	IP 44	52.7 mm
a1	CEE 16 A, 5 p, 400 V	IP 44	50.5 mm
a1	CEE 32 A, 5 p, 400 V	IP 44	64.0 mm
a2			30.0 mm
b			160.0 mm
b1	SCHUKO® 16 A, 230 V	IP 44	max. 18.0 mm
b1	CEE 16 A, 3 p, 230 V	IP 44	42.0 mm
b1	CEE 16 A, 5 p, 400 V	IP 44	40.0 mm
b1	CEE 32 A, 5 p, 400 V	IP 44	53.2 mm
c			133.0 mm
d			97.0 mm
y			17.0 mm

Cable entry: 1 x with gland diameter,
Ø 17 mm or 27 mm

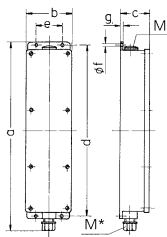
3 MB 45



3 MB 45			
Pos.	Receptacles	IP-degrees	Dim.
a			114.0 mm
a1	SCHUKO® 16 A, 230 V	IP 68	35.0 mm
a1	CEE 16 A, 3 p, 230 V	IP 67	56.3 mm
a1	CEE 16 A, 5 p, 400 V	IP 67	59.0 mm
a2			30.0 mm
b			160.0 mm
b1	SCHUKO® 16 A, 230 V	IP 44	24.0 mm
b1	CEE 16 A, 3 p, 230 V	IP 44	44.3 mm
b1	CEE 16 A, 5 p, 400 V	IP 44	47.0 mm
c			133.0 mm
d			97.0 mm
y			17.0 mm

Cable entry: 1 x with gland diameter,
Ø 17 mm or 27 mm

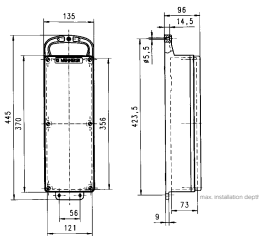
5 MB 35



Drawing 5 MB 35		
Dim. in mm	a	401
	b	97
	c	63
	d	364
	e	56
	f	5.5
	g	4
	M	25
	M*	25

Enclosure size: 401 x 97 mm
Cable entry: 1 x M 20 plugged at the top,
1 x M 20 with gland at the bottom

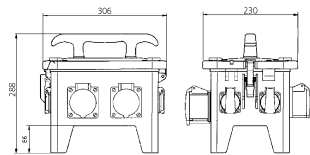
5 MB 44



Drawing
5 MB 44
Dim. in mm

Enclosure size: 445 x 135 mm

5 MB 48a



Drawing
5 MB 48a
Dim. in mm

Enclosure size: 300 x 230 x 287.5 mm

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111	16	339	41	596	74	813	39	1141A	16	1414	40	1556	16
128A	16	340	38	597	74	814	39	1142A	16	1415	40	1557	16
129A	16	341	38	598	74	815	39	1144A	16	1418	16	1579	75
130A	16	342	38	599	74	817	39	1145A	16	1419	16	1602	75
131A	16	343	38	603	75	819	39	1147A	25	1420	16	1603	75
132A	16	344	38	604	75	820	39	1150A	25	1421	16	1618	27
133A	16	345	38	609	75	821	39	1151A	25	1422	16	1619	27
134A	16	347	38	610	75	824	39	1152A	25	1423	16	1631	27
135A	16	348	38	611	75	825	39	1154A	25	1424	16	1632	27
136A	16	349	38	612	75	826	39	1155A	25	1425	16	1633	27
137	17	352	38	616	75	827	39	1168	28	1426	16	1635	27
138	17	353	38	617	75	828	39	1169	28	1427	16	1637	27
139	17	354	38	622	75	829	39	1173	28	1436	40	1638	27
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205A	26	361	38	656A	76	834	39	1249A	25	1457	26	1643	27
206A	26	363	38	661A	76	835	39	1252A	25	1458	26	1644	27
208A	26	364	38	662A	76	836	39	1260A	25	1460	26	1646	27
209A	26	365	38	663A	76	837	39	1261A	25	1461	26	1649	18
211A	26	367	38	664A	76	838	39	1263A	26	1462	25	1650	18
212A	26	368	38	668A	76	839	39	1264A	26	1463	25	1651	18
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215A	26	373	40	674A	76	843	38	1270	75	1465	25	1661	75
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218A	26	381	40	677A	76	847	38	1273	75	1468	25	1669	27
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223A	26	390	40	714A	76	856	16	1343	18	1472	25	1674	27
226A	26	391	40	715A	76	857	25	1344	18	1473	25	1675	27
227A	26	392	40	716A	76	858	25	1345	18	1474	26	1676	27
228A	26	393	40	721A	76	891	37	1346	18	1475	26	1677	27
229A	26	394	40	728A	76	903	26	1347	18	1476	26	1678	27
230A	26	395	40	729A	76	905	26	1348	18	1477	26	1679	27
231A	26	396	41	733	70	913	42	1349	18	1478	26	1680	27
232A	26	397	41	734	70	921	38	1365	25	1479	26	1682	27
233A	26	398	40	735	70	1035	70	1366	25	1480	26	1688	39
234A	26	399	40	736	70	1040	70	1367	25	1484	26	1700	28
235A	26	400	40	737	70	1045	70	1384	25	1485	26	1701	28
236A	26	401	40	738	70	1050	70	1385	25	1486	25	1702	28
239A	26	402	40	740	70	1055	70	1386	25	1490	26	1703	28
240A	26	403	40	741	70	1060	70	1388	25	1491	25	1704	28
315	37	405	40	742	70	1065	71	1389	25	1492	25	1707	28
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1793	27	2177A	86	3149	16	3665	39	4362	80	7313	21	9321	16
1795	27	2179A	26	3152	16	3704	39	4364	80	7393UK	23	9322	16
1796	27	2180A	26	3153	25	3718	85	4367	80	7394	21	9323	16
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10751	67	13204	37	13564	36	13659	36	14560	43	14669	73	24888	89
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10843	67	13215	37	13580	36	13682	73	14578	43	15696	55	27003	16
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