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MENNEKES®
Plugs for the world

Industrial plugs and sockets

AMAXX® YOUR INDUSTRY!

International

PLUGS FOR THE WORLD.

FOUR WORDS WHICH STAND FOR WHAT WE ARE AND WHAT WE DO:
WE ARE SPECIALISTS FOR PLUGS AND SOCKETS.
OUR FOCUS: TO FIND ON SPOT SOLUTIONS FOR YOU. ANYTIME. WORLDWIDE.

„Competence, passion and quality. That's what the MENNEKES brand stands for."

Michael Büenfeld
Managing director
Marketing & Sales

„In international markets, local service, availability, competence, excellent products and the desire to provide tailored solutions are MENNEKES's factors for success. This is what we provide to over 80 countries worldwide."

Karsten Hauck
Director International Sales

„In international markets we gain the confidence of customers with close proximity, excellent service and flexibility coupled with solution based advise."

Andrea Garte
Director International Sales

„Internationalisation is vital for MENNEKES. We offer worldwide solutions to our partners and customers on a day to day basis. Gaining new customers is just as important as retaining our existing ones."

Miriam Richard
Area Sales Manager
Latin America & Iberian Peninsula

„As a reliable partner to our customers, we promote openness, honesty and trust based on mutual respect. Our aim is that customers are more than satisfied with our brand. Innovative products and individual service are the basis of long term partnerships."

Arda Tünay
Area Sales Manager
Middle East & Africa

„High quality combined with global presence and local competence are the pillars and foundation of the MENNEKES brand."

Jörg Schneider
Sales Manager Asia-Pacific

„Working with a highly motivated team of professionals and solution focussed Managers, MENNEKES has a proven track record of providing outstanding levels of service to a broad range of customers."

Johannes Staudinger
Area Sales Manager
East Europe

We like to communicate with you. Do you have special requests and requirements?
Talk to us, we like to give you advice and will project individual solutions for you.

About us

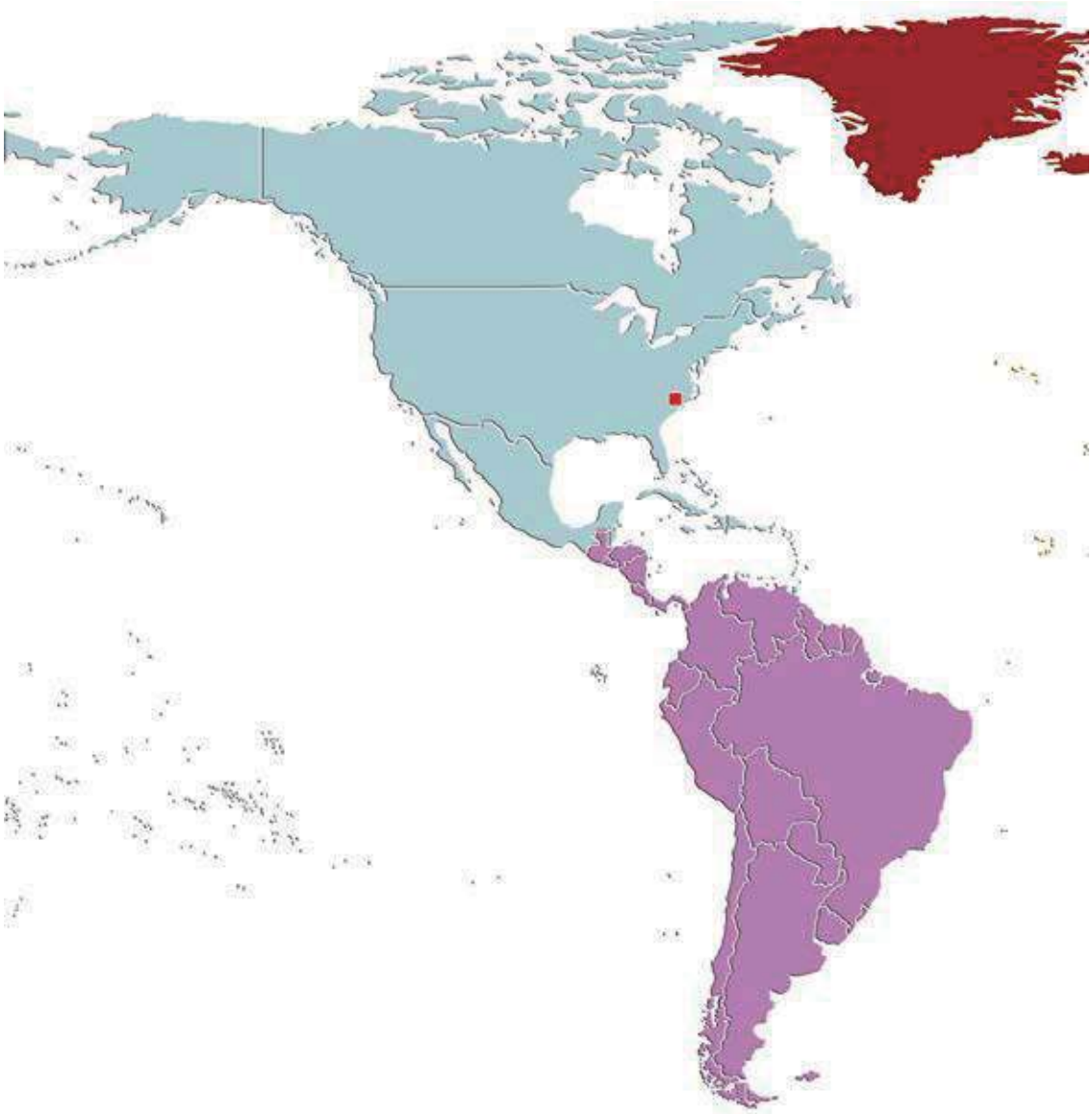
Receptacles

Plugs and connectors

Receptacle combinations

Special plugs and sockets

Service



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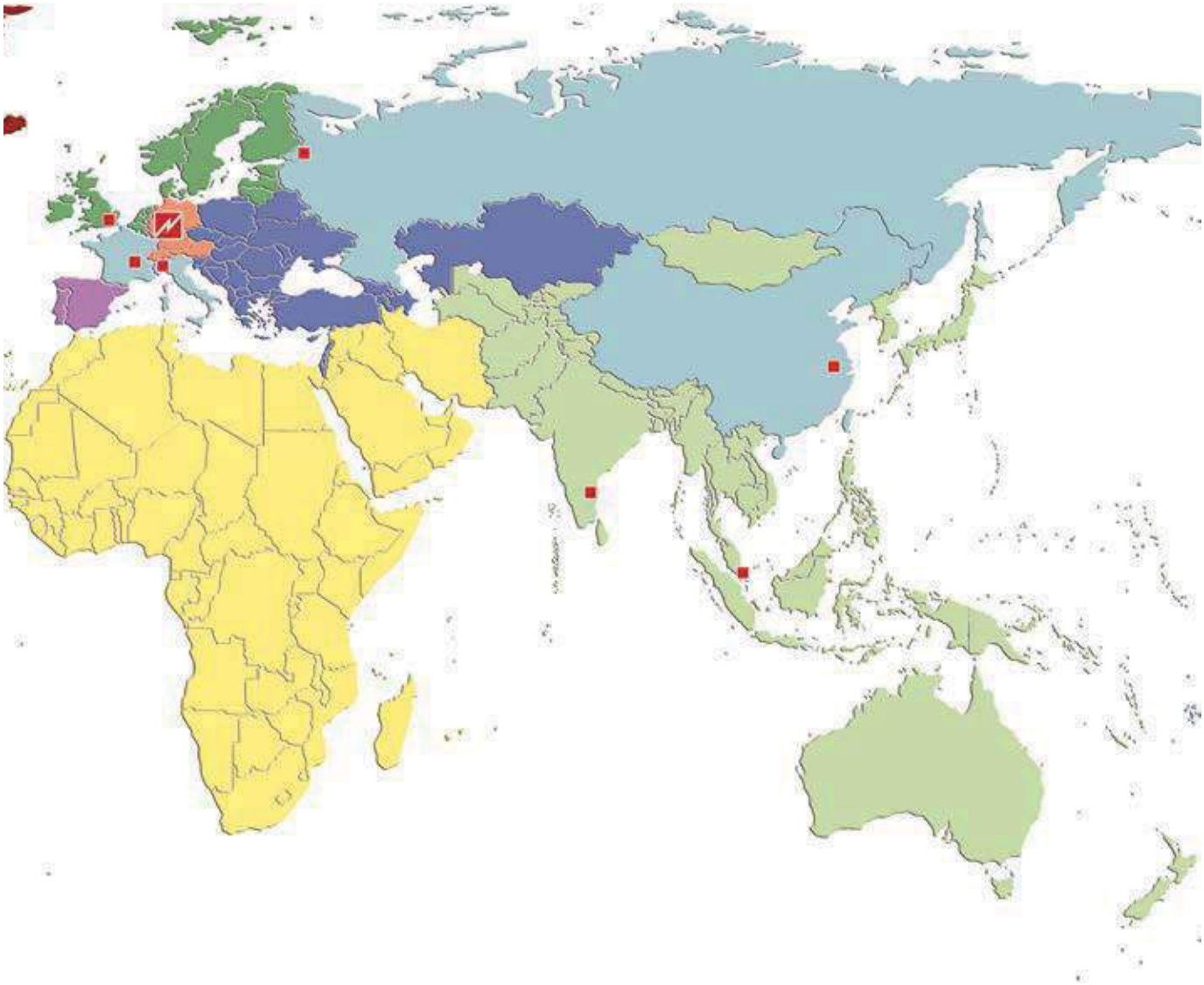

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You will find the contact information of our subsidiaries on the back page of this catalogue

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Values, tradition and cohesion.

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 shape 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 owner 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
Managing Director

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

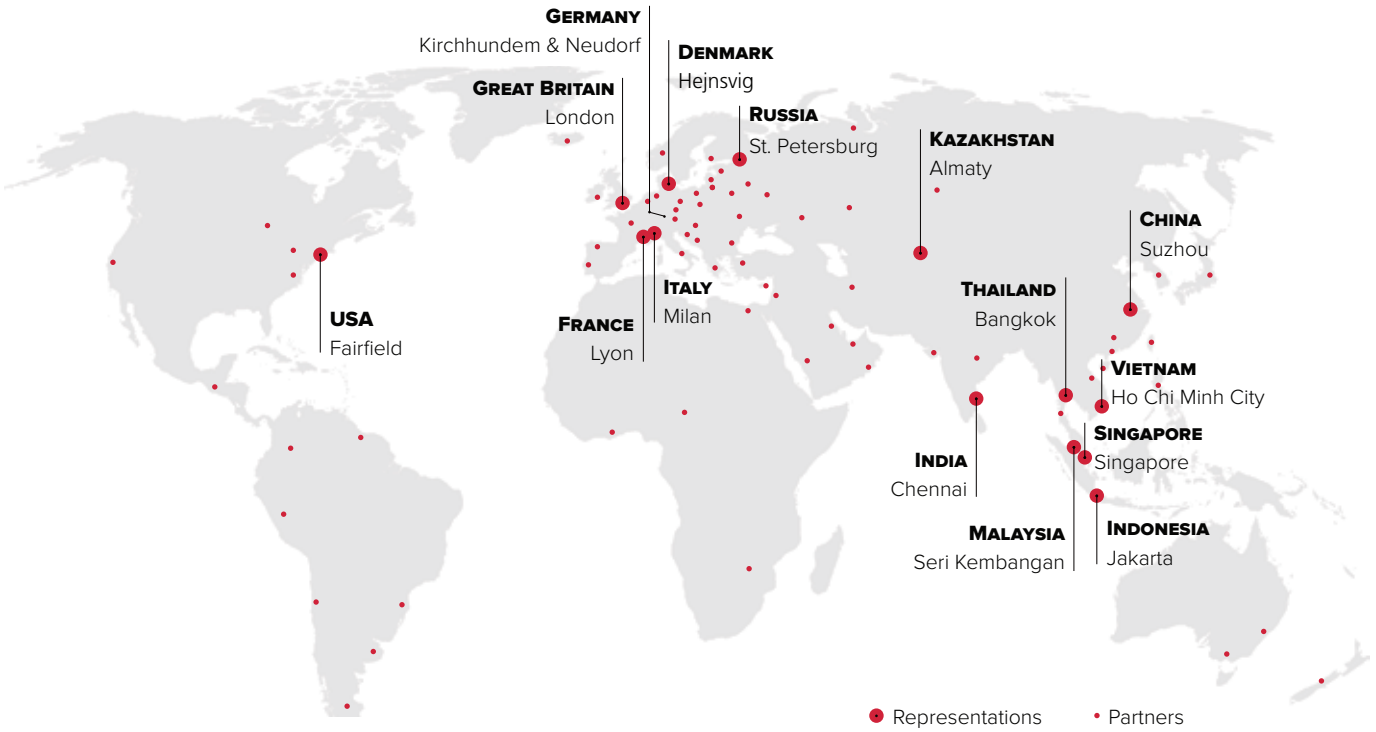
Plugs and sockets for toughest conditions

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

Presence

Everywhere, close to the customer: Our domestic market, Germany, is supported from our corporate headquarters in Kirchhundem, as well as by sales agencies and our own field service team. With our subsidiaries and sales offices, we are represented by own employees in the most important international growth markets.
You must be able to rely on MENNEKES. This is and remains the motivation of our 1,000 employees worldwide. It is they who, through their efforts on a daily basis, demonstrate the commitment to the MENNEKES brand.

Kirchhundem headquarters



Subsidiaries
Great Britain
USA
China
Singapore
Italy
France
Russia
India

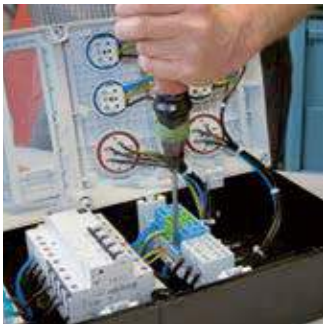
Sales Offices
Thailand
Indonesia
Malaysia
Kazakhstan
Denmark
Vietnam

Commercial agencies
15 in Germany
29 in Europe
46 outside of Europe

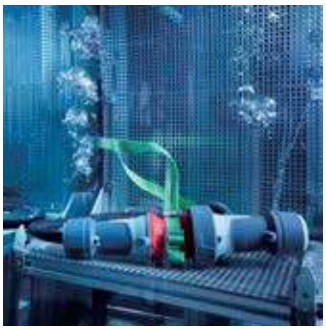
Endurance test

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.



Only the combination of first-class raw materials and advanced manufacturing processes guarantees a premium product. This is why we use only first-grade granules 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.

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

Receptacles – screwless.

Screwless:
Certified. Tested. Patented.

TwinCONTACT:
Innovative screwless connection technology for CEE receptacles.

Easy installation:
Insert conductors – that's it. Safe contact is guaranteed. Double terminal with split spring ensures safe contact even if cross-sections vary.

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.

Save time.

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

Colour-coded terminals for unmistakable connections.

Receptacles – with screw terminals.

Screw terminals:
The classics.

Removable cover for easy access to wiring space.

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

to DIN VDE 0623, EN 60309-2. Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 107 - 119. Products with pilot contact available on request.

Wall mounted receptacle
Outdated type:
Available until June 2017

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 205

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	1177	1178				
16	4		1267	1268	1269		
16	5			1			
32	3	1368	1369	1370			
32	4		1372	1373	1374		
32	5			2			

Wall mounted receptacle
Successor type:
Available from 3. quarter 2017

IP 44
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	>50 - 500 V 300-500 Hz
16	3		27178				
16	4			27268	27269		
16	5			27001			
32	3		27369				
32	4			27373	27374		
32	5			27002			

Wall mounted receptacle
internal fixing, enclosure base can be turned 180°, receptacles are designed for adding an auxiliary contact switch

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 43/257

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	3030	3034	1418	3032	3035	3028
16	5	3141	3045	1419	3043	3046	3039
32	3	1420	1421	1422		3139	3134
32	4	1423	1424	1425	1426	1427	1428
32	5	1555	1556	1557	3152	3154	3149

Wall mounted receptacle
suitable for through wiring, internal fixing, enclosure base can be turned 180°

IP 44
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	>50 - 500 V 300-500 Hz
63	3	1136A	1137A				
63	4		1140A	1141A	1142A		
63	5		1144A	1145A			

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

IP 67
Std. Pack. Qty: 10
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	>50 - 500 V 300-500 Hz
16	3	9300	9301	9302			
16	4	9320	9321	9322	9323	9325	
16	5	9340	9341	9342			
32	3	9350	9351	9352			
32	4	9370	9371	9372	9373	9374	
32	5	9380	9381	9382			

Wall mounted receptacle
internal fixing, enclosure base can be turned 180°, with 6 fixing points to accommodate special terminals

IP 67
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	>50 - 500 V 300-500 Hz
63	3	856	128A	129A			
63	4	130A	131A	132A	133A		
63	5	134A	135A	136A	2007A		

Receptacles ■ Wall mounted, with screw terminals

to DIN VDE 0623, EN 60309-2. Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 107 - 119. Products with pilot contact available on request.

Wall mounted receptacle
highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts

IP 67
Std. Pack. Qty: 5
Dimensions 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	>50 - 500 V 300-500 Hz
63	4			3773			
63	5			3774			

Wall mounted receptacle

IP 67
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	>50 - 500 V 300-500 Hz
125	4	137	138	139	140		
125	5	141	142	143	2139		

Plugs and sockets made of plastic with high resistance to chemicals.

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 AMELAN (grey RAL 7000 or electric 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

to DIN VDE 0623, EN 60309-2. Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 107 - 119.

Wall mounted receptacle
screwless, with TwinCONTACT,
external fixing

IP 44
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	>50 - 500 V 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 receptacle
screwless, with TwinCONTACT,
suitable for through wiring, internal
fixing, 4 p and 5 p receptacles the
enclosure can be turned 180°

IP 44
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	>50 - 500 V 300-500 Hz
16	3	1719	1720	1721			
16	4		1723	1724	1725	1726	1727
16	5		1730	3331			

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

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 43/257

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

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

IP 67
Std. Pack. Qty: 10
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	>50 - 500 V 300-500 Hz
16	3	9104	9105	9106			
16	4	9120	9121	9122	9123	9124	9125
16	5	9140	9141	9142			
32	3	9150	9151	9152			
32	4	9170	9171	9172	9173	9174	9175
32	5	9180	9181	9182			

Double Box
screwless, with TwinCONTACT,
CEE and receptacle SCHUKO®
in one enclosure, also available with
French/Belgian, Danish and Swiss
standards

IP 44
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	>50 - 500 V 300-500 Hz
16	4		1647	1648			
16	5			1649			

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

IP 44
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	>50 - 500 V 300-500 Hz
16	5			1650			
32	5			1651			

Receptacles ■ Wall mounted, switched and interlocked or fused

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Wall mounted receptacle
switched, with mechanical DUO-interlock

IP 44
Std. Pack. Qty: 1
Drawing: 1 MB 174

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	7010A	7002A				
16	4	5457A	5099A	5100A	5101A		
16	5	5459A	5102A	5103A			
32	3	5743A	5696A				
32	4	5460A	5104A	5105A	5106A		
32	5	5462A	5107A	5108A			

Wall mounted receptacle
switched, with mechanical DUO-interlock

IP 44
Std. Pack. Qty: 1
Drawing: 1 MB 234

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		6571				
63	4		5955A	5956A	5957A		
63	5			5959A			

Wall mounted receptacle
switched, with mechanical DUO-interlock

IP 44
Std. Pack. Qty: 1
Drawing: 1 MB 550

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	7602	7603				
16	4		7604	7605	7606		
16	5			7607			
32	3	7611	7612				
32	4		7613	7614	7615		
32	5			7616			

Wall mounted receptacle
with DIN rail, optional fitting of Neozed, Diazed, circuit-breakers and RCD´s

IP 44
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	>50 - 500 V 300-500 Hz
16	3	7006	7007				
16	4			5496			
16	5			5495			
32	4			9598			
32	5			5497			
63	4			7153			
63	5			7102			

Wall mounted receptacle
with circuit breaker, K-characteristics

IP 44
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	>50 - 500 V 300-500 Hz
16	3		7119				
16	4			5010			
16	5			5012			
32	4			5014			
32	5			5016			

Wall mounted receptacle
fused with RCD (0.03 A), other leakage current ratings on request

IP 44
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	>50 - 500 V 300-500 Hz
16	3		7125				
16	4			7126			
16	5			7312			
32	4			7127			
32	5			7313			

to DIN VDE 0623, EN 60309-2. Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 107 - 119.

Wall mounted receptacle
switched, with mechanical DUO-interlock

IP 67
Std. Pack. Qty: 1
Drawing: 1 MB 207

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	7011A	7012A				
16	4		5599A	5600A	5601A		
16	5		5602A	5603A			
32	3	5924A	5793A				
32	4		5604A	5605A	5606A		
32	5		5607A	5608A			

Wall mounted receptacle
highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, with mechanical DUO-interlock

IP 67
Std. Pack. Qty: 10
Drawing: 1 MB 207

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		7283				
16	4			7284			
16	5			7285			
32	3		7286				
32	4			7287			
32	5			7288			

Wall mounted receptacle
switched, with mechanical DUO-interlock

IP 67
Std. Pack. Qty: 1
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	>50 - 500 V 300-500 Hz
63	3	5925A	5911A				
63	4		5109A	5110A	5111A		
63	5		5112A	5113A	5759A		

Wall mounted receptacle
highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, with mechanical DUO-interlock

IP 67
Std. Pack. Qty: 1
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	>50 - 500 V 300-500 Hz
63	4			7289			
63	5			7290			

Wall mounted receptacle
switched, with mechanical DUO-interlock

IP 67
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	>50 - 500 V 300-500 Hz
125	3		7000				
125	4		5887A	5691A	5690A		
125	5		5888A	5692A			

Wall mounted receptacle
switched, with mechanical DUO-interlock

IP 67
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	>50 - 500 V 300-500 Hz
16	3	7620	7621				
16	4		7623	7624	7625		
16	5			7626			
32	3	7628	7629				
32	4		7633	7634	7635		
32	5			7636			

to DIN VDE 0623, EN 60309-2. Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 107 - 119.

Wall mounted receptacle
with DIN rail, optional fitting of Neozed, Diazed, circuit-breakers and RCD´s

IP 67
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	>50 - 500 V 300-500 Hz
16	3		7128				
16	4			7129			
16	5			7130			
32	4			7131			
32	5			7132			

Wall mounted receptacle
fused with circuit breaker, K-characteristics

IP 67
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	>50 - 500 V 300-500 Hz
16	3		7143				
16	4			7144			
16	5			7145			
32	4			7146			
32	5			7147			

Wall mounted receptacle
switched, with mechanical DUO-interlock, DIN rail

IP 44
Std. Pack. Qty: 2/1
Drawing: 1 MB 208

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		7213				
16	4			5610A			
16	5			5613A			
32	4			5615A			
32	5			5618A			
63	4			6059A			
63	5			6062A			

Wall mounted receptacle
switched, with mechanical DUO-interlock, circuit breaker

IP 44
Std. Pack. Qty: 2/1
Drawing: 1 MB 208

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		7216				
16	4			7217			
16	5			7218			
32	4			7219			
32	5			7220			
63	4			7221			
63	5			7222			

Wall mounted receptacle
highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, switched, with mechanical DUO-interlock, DIN-rail

IP 67
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	>50 - 500 V 300-500 Hz
16	4			7291			
16	5			7292			
32	4			7293			
32	5			7294			
63	4			7295			
63	5			7296			

Wall mounted receptacle
switched, with mechanical DUO-interlock, DIN rail

IP 67
Std. Pack. Qty: 2/1
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	>50 - 500 V 300-500 Hz
16	3		7050				
16	4			5630A			
16	5			5633A			
32	4			5635A			
32	5			5638A			
63	4			5640A	5641A		
63	5			5643A			

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Wall mounted receptacle
switched, with mechanical DUO-interlock, circuit breaker

IP 67
Std. Pack. Qty: 2/1
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	>50 - 500 V 300-500 Hz
16	3		7238				
16	4			7239			
16	5			7240			
32	4			7241			
32	5			7242			
63	4			7243			
63	5			7244			

Wall mounted receptacle
switched, with mechanical DUO-interlock, fused with 1 RCD 0.03 A

IP 67
Std. Pack. Qty: 2/1
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	>50 - 500 V 300-500 Hz
16	3		7245				
16	4			7246			
16	5			7247			
32	4			7248			
32	5			7249			
63	4			7250			
63	5			7251			

Wall mounted receptacle
switched, with mechanical DUO-interlock, 3 pole fuse socket NH 00, upon request with provision for an additional padlock

IP 67
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	>50 - 500 V 300-500 Hz
125	4			5679A	5693A		
125	5			5695A			

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Wall mounted receptacle Cepex
grey

IP 44
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	>50 - 500 V 300-500 Hz
16	3	4101	4102				
16	4		4254	4103	4104		
16	5			4105			
32	3	4106	4107				
32	4			4108			
32	5			4110			

Wall mounted receptacle Cepex
grey, with labelling field

IP 44
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	>50 - 500 V 300-500 Hz
16	3		4132				
16	4			4133			
16	5			4135			
32	3		4137				
32	4			4138			
32	5			4140			

Panel mounted receptacle Cepex
pearl white

IP 44
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	>50 - 500 V 300-500 Hz
16	3	4111	4112				
16	4		4233	4113	4114		
16	5			4115			
32	3	4116	4117				
32	4			4118	4119		
32	5			4120			

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

IP 44
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	>50 - 500 V 300-500 Hz
16	3	4121	4122				
16	4		4205	4123	4124		
16	5			4125			
32	3	4126	4127				
32	4			4128			
32	5			4130			

Cepex double receptacle
grey

IP 44
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	>50 - 500 V 300-500 Hz
16	3	4218	4219				
16	4		4258	4220			
16	5			4204			
32	3		4224				
32	4		4259				
32	5			4226			

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

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.
Products with pilot contact available on request.

Panel mounted receptacle
flange 75 x 75 mm, straight

IP 44
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	>50 - 500 V 300-500 Hz
16	3	1365	1366	1367		3054	3055
16	4	1388	1389	1390	1391	1392	1393
16	5	1384	1386	1385	3057	3059	3060
32	3	1394	1395	1396			
32	4	1397	1398	1399	1400	1401	1402
32	5	3449	3454	3451	3452	3455	3447

Panel mounted receptacle
flange 107 x 110 mm, straight

IP 44
Std. Pack. Qty: 5
Drawing: 1 MB 211

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	1260A	1261A				
63	4		1247A	1248A	1249A		
63	5			1252A			

Panel mounted receptacle
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: receptacles
optional fitted with auxiliary contact

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 260

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	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	1487
32	5	1498	1499	1500	3191	3192	3193

Panel mounted receptacle
flange 110 x 106 mm,
inclination 20°

IP 44
Std. Pack. Qty: 5
Drawing: 1 MB 297

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	1146A	1147A	1148A			
63	4	1149A	1150A	1151A	1152A		
63	5	1153A	1154A	1155A			

Panel mounted receptacle
standard flange dimensions, uniform
fixing hole spacing, 15° inclination
for 16 A and 32 A, 20° inclination
for 63 A

IP 44
Std. Pack. Qty: 5
Drawing: 1 MB 453

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			20146A			
32	5			20147A			
63	5			21160A			

Panel mounted receptacle
miniflange: 68 x 62 mm,
inclination 20°

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 472

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	858	857				

Receptacles ■ Panel mounted, with screw terminals

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.
Products with pilot contact available on request.

Panel mounted receptacle
flange 16 A: 75 x 75 mm,
32 A: 85 x 75 mm, straight

IP 67
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	>50 - 500 V 300-500 Hz
16	3	217A	218A	219A			
16	4	220A	221A	222A	223A	224A	225A
16	5	226A	227A	228A			
32	3	229A	230A	231A			
32	4	232A	233A	234A	235A	236A	237A
32	5	238A	239A	240A			

Panel mounted receptacle
flange 63 A: 107 x 100 mm,
125 A: 130 x 130 mm, straight

IP 67
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	>50 - 500 V 300-500 Hz
63	3	1263A	1264A	1265A			
63	4	1122A	1123A	1124A	1125A		
63	5	1126A	1127A	1128A			
125	3		3380				
125	4	1455	1456	1457	1458		
125	5	1459	1460	1461	3283		

Panel mounted receptacle
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 receptacles optional fitted with auxiliary contact

IP 67
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	>50 - 500 V 300-500 Hz
16	3	1474	1475	1476			
16	4	1477	1478	1479	1480	1481	1482
16	5	1483	1484	1485			
32	3	1501	1502	1503			
32	4	1504	1505	1506	1507	1567	1568
32	5	1489	1490	1551			

Panel mounted receptacle
flange 63 A: 110 x 106 mm,
inclination 20°,
125 A: 114 x 110 mm,
inclination 15°

IP 67
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	>50 - 500 V 300-500 Hz
63	3	2179A	2180A	2181A			
63	4	203A	204A	205A	206A		
63	5	207A	208A	209A	3507		
125	3		3575				
125	4	210A	211A	212A	213A		
125	5	214A	215A	216A			

Panel mounted receptacle
standard flange dimensions
85 x 85 mm, inclination 20°,
optional fitted with auxiliary contact

IP 67
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	>50 - 500 V 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			

Auxiliary contact
for standard receptacles and panel mounted receptacles 16 A and 32 A

Std. Pack. Qty: 10

Part no.
41000

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Panel mounted receptacle
screwless, with TwinCONTACT,
flange 75 x 75 mm, straight

IP 44
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	>50 - 500 V 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	1789	1790	1791	1792	1793	1794
32	5	1795	1796	1797	1798		1800

Panel mounted receptacle
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

IP 44
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	>50 - 500 V 300-500 Hz
16	3	1631	1632	1633			1635
16	4	1636	1637	1638	1639	1640	1641
16	5	1642	1643	3473	1644		1646
32	3	1733	1734	1735			1737
32	4	1738	1739	1740	1741	1742	1743
32	5	1744	1745	1746	1747		1749

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

IP 44
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	>50 - 500 V 300-500 Hz
16	3	3004	3008				
16	4			3048	3049		
16	5			3070			
32	3	3124	3126				
32	4			3155	3157		
32	5			3171			

Panel mounted receptacle
screwless, with TwinCONTACT,
miniflange: 55 x 55 mm,
straight

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 426

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	1618	1619				

Panel mounted receptacle RAPIDO
screwless, with TwinCONTACT,
with central locking system,
round flange for central fixing,
diam. 61 mm

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 468

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	1132	997				

Panel mounted receptacle RAPIDO
screwless, with TwinCONTACT,
with central locking system,
round flange for central fixing,
diam. 70 mm

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 468

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		1133	998	1134		
16	5			907			
32	3	1135	987				
32	4		1166	988	1167		
32	5			989			

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

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

IP 67
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	>50 - 500 V 300-500 Hz
16	3	1707	1708	1709			
16	4	1710	1711	1712	1713	1714	1715
16	5	1716	1717	1131			
32	3	1809	1810	1811			
32	4	1812	1813	1814	1815	1816	1817
32	5	1818	1819	1820			

Panel mounted receptacle
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

IP 67
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	>50 - 500 V 300-500 Hz
16	3	1700	1701	1702			
16	4		1703	1704	1705	1706	
16	5			3485			
32	3	1801	1802	1803			
32	4		1804	1805	1806	1807	
32	5			1808			

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

IP 67
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	>50 - 500 V 300-500 Hz
16	3		1168				
16	4			1169	1171		
16	5			1173			
32	3	3566	3573				
32	4			3581	3587		
32	5			3590			

Auxiliary contact
for standard receptacles and panel
mounted receptacles 16 A and 32 A

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

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Panel mounted receptacle
switched, with mechanical DUO-interlock

IP 44
Std. Pack. Qty: 1
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	7502	7503				
16	4		7504	7505	7506		
16	5			7507			
32	3	7511	7512				
32	4		7513	7514	7515		
32	5			7516			

Panel mounted receptacle
switched, with mechanical DUO-interlock

IP 67
Std. Pack. Qty: 1
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		7533	7534	7535		
32	5			7536			

StarTOP.

Handy features.
Versatile. Safe.

MENNEKES offers a wide range of CEE plugs and connectors for various applications. Characteristic for all: Simple handling, robustness and many other design features.

StarTOP with SafeCONTACT: Proven insulation displacement technique for plugs and connectors

Removes the need to strip back the conductor insulation and pre-treating the conductors. The separate insulation will securely fasten the conductor in position in just one step.
Suitable for flexible and solid conductors from 1.5 - 2.5 mm² at 16 A and flexible conductors from 2.5 - 6.0 mm² at 32 A.

SafeCONTACT – screwless connection techniques from MENNEKES. Simple handling and mounting cuts labour to a minimum. That represents a maximum of time saving. Clearly labled terminals for error-free connection.

ProTOP.

Convenient and reliable.

Many handy features, e.g., the self-locating thread for tight and stable connection of cover and front part.
Cable gland with internal strain relief.

AM-TOP.

Easy and robust.

Many practice orientated details. Single part body, on request with highly heat resistant contact carrier and nickel plated contacts.
Cable gland with internal strain relief.

PowerTOP Xtra.

Extra slip-proof. Extra shock-resistant. Extra protected.

Plugs and connectors for toughest conditions – that´s PowerTOP Xtra. The unique rubber coating of the contact surfaces and the ergonomic design guarantees best grip – even with working gloves.

Tough.

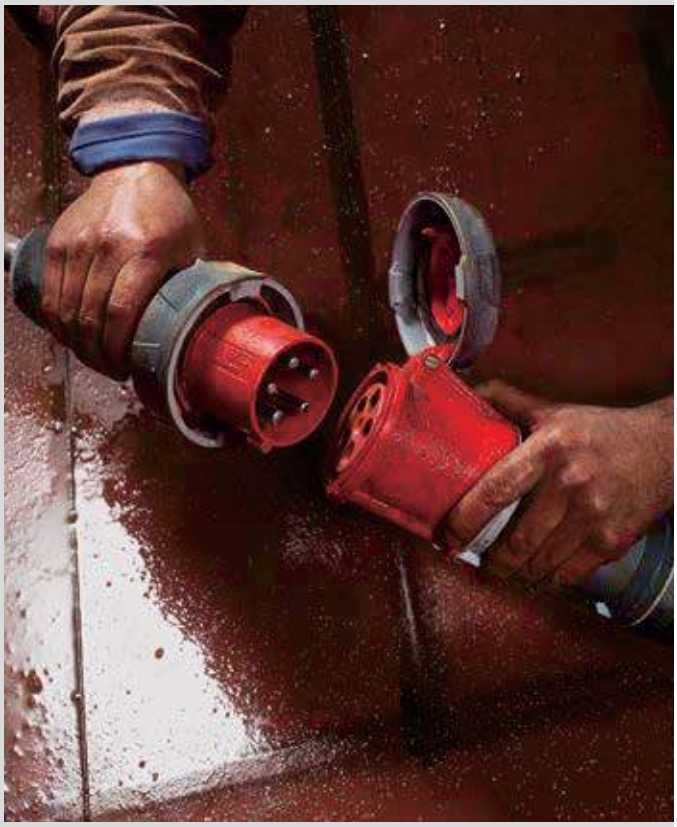
The plugs provide better corrosion protection thanks to nickel plated contacts. More safety through highly heat resistant contact carrier.

Easy and fast installation.

- Substantially reduced installation times through largely tool-free installation.
- Locking slides instead of screws and especially smooth cable gland with integrated strain relief, seal and protection against kinking.

Always clean, always safe.

- As the cable glands are in contact with the body of the plug and connector, the areas for the ingress of dirt are reduced and allow for easy cleaning in areas where hygiene is of prime importance.
- Moulded seals in the connector lid and the front part of the plug.
- Integrated opening aid on the connector lid.



- Connectors with highly heat resistant contact carrier; nickel plated contact sleeves also available on request. Pilot contact standard with plugs; optionally available for connectors.

- Comfortable self-locating thread lock between front and back part.

- Stable and fast locking without screws. Unlocking only with just a tool according to the regulations.

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

Plug ProTOP
enclosure with thread lock and safety slide

IP 44
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	147A	148A				
16	4		151A	152A	153A		
16	5			13A			
32	3	159	160				
32	4		163	164	165		
32	5			14A			

Plug StarTOP
screwless, with SafeCONTACT with insulation displacement technique, enclosure with thread lock and safety slide

IP 44
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	947	948				
16	4		951	952	953	954	
16	5			33			
32	3	711	712				
32	4		717	719	723		
32	5			34			

Plug AM-TOP
single part body

IP 44
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	247	248	249		2168	2271
16	4	250	251	252	253	254	255
16	5	256	257	3	2014	2189	2243
32	3	259	260	261		2195	2341
32	4	262	263	264	265	266	267
32	5	268	269	4	2015	2244	2178

Plug PowerTOP Xtra
rubberised grip area, highly heat resistant contact carrier, frame terminals, nickel plated contacts, cable gland and sealing, strain relief and protection against kinking

IP 44
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	13101	13102				
63	4		13105	13106	13107		
63	5		13111	13112			

Plug PowerTOP
highly heat resistant contact carrier, nickel plated contacts, cable gland and external cable grip

IP 44
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	3918	3919	3920			
16	4	3925	3927	3926	3928		
16	5	3934	3936	3935			
32	3	3942	3943	3944			
32	4	3945	3946	3947	3948		
32	5	3951	3952	3977			

Angled plug VarioTOP
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

IP 44
Std. Pack. Qty: 10

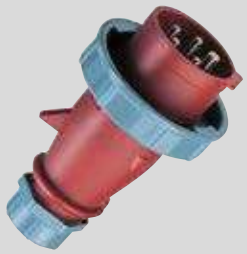
A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz	>50 - 500 V 300-500 Hz
16	5		3981	3980			
16	5		3983	3982			

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

Angled plug
with grommet

IP 44
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	1410	1411	1412			
16	4	890	891	315			
32	3	3312	3306				
32	4		3646	3987			
32	5		3424	3266			



Plug AM-TOP
single part body, cable gland and sealing, strain relief and protection against kinking

IP 67
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	277	278	279			
16	4	280	281	282	283	284	285
16	5	286	287	288			
32	3	289	290	291			
32	4	292	293	294	295	296	297
32	5	298	299	300			

Plug PowerTOP
with external cable grip, highly heat resistant contact carrier and nickel plated contacts

IP 67
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	3794	3796	3799			
16	4	3807	3811	3809	3810		
16	5	3819	3823	3821			
32	3	3829	3830	3832			
32	4	3839	3844	3841	3842		
32	5	3851	3855	3853			

Plug PowerTOP Xtra
rubberised grip area, highly heat resistant contact carrier, frame terminals, nickel plated contacts, cable gland and sealing, strain relief and protection against kinking

IP 67
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	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

Protective cover
for IP 67 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

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

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

IP 44
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

IP 44
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

IP 44
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

IP 44
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	922
16	5	340	341	342	2359	2668	2400
32	3	343	344	345			
32	4	346	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

IP 67
Std. Pack. Qty: 5/3
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	355	356	357	358		
63	5	359	360	361			
125	4	362	363	364	365		
125	5	366	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

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Panel mounted inlet

IP 44
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	>50 - 500 V 300-500 Hz
16	4	371	372	373			
16	5			379			
32	3	380	381				
32	4	383	384	385	386		
32	5			391			

Panel mounted inlet
with hinged lid

IP 44
Std. Pack. Qty: 10
Drawing: 2 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	>50 - 500 V 300-500 Hz
16	4	392	393	394	395		
16	5	398	399	400			
32	3	401	402	403			
32	4	404	405	406	407		
32	5	410	411	412			

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

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
IP 44
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

IP 44
Std. Pack. Qty: 10
Drawing: 2 MB 68/853

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

IP 44
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

IP 44
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

IP 67
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

IP 67
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			

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

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

IP 44
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
16	4		3527	3458	3459		
16	5		3231	1414			
32	4		3528	3460	3461		
32	5		3232	1415			
63	4		3420	1436	3917		
63	5			1437			

Phase sequence test plug.

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

According to VDE 0100-550 part 4.7 rotary current receptacles must be connected such that a right-hand rotating field is achieved - the receptacles 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.

to DIN VDE 0623, EN 60309-2. 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

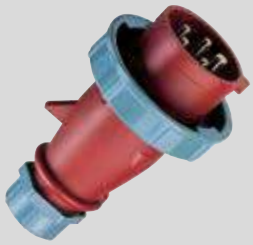
IP 44
Std. Pack. Qty: 10

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	4		338	339			
16	5		318	319			
32	4		396	397			
32	5		321	322			

Phase inverter plug ProTOP
cable gland and sealing

IP 44
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	5			3319A			
32	5			3322			



Phase inverter plug AM-TOP
single part body

IP 67
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	4		3338	3339			
16	5			325			
32	4		3340	3341			
32	5		327	328			

Phase inverter plug VarioTOP
cable entry hood rotating up to 60° to the left or the right

IP 44
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
16	5			859			

Phase inverter plug.

4- and 5-pole phase inverters - making life easier.

If three phase equipment rotates in the wrong direction the MENNEKES phase inverter plug solves the problem rapidly and safely.

Simply depress the latch with a screw-driver and turn the insulating element in which the two phase pins are fitted and the motor will rotate in the correct direction. Anybody can do this – no specialised knowledge of the workings of electrical equipment is required.

Using a phase inverter to change over the two phase conductors is a recognised technique of “operating electrical equipment“.

Two outer conductors rotatable through 180°.

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Wall mounted phase inverter inlet

IP 44
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	5			3517			
32	5			3523			

Wall mounted phase inverter inlet

IP 44
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	4		3342	3343			
16	5			2511			
32	4		3345	3346			
32	5		3347	2478			

Panel mounted phase inverter inlet

IP 44
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	>50 - 500 V 300-500 Hz
16	4		3357	855			
16	5			329			
32	4		3367	3368			
32	5		913	330			

Panel mounted phase inverter inlet
with hinged lid

IP 44
Std. Pack. Qty: 10
Drawing: 2 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	>50 - 500 V 300-500 Hz
16	4		3348	3350			
16	5			20970			
32	4		3355	3356			
32	5		3717	21241			

Panel mounted phase inverter 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

IP 44
Std. Pack. Qty: 10
Drawing: 2 MB 68/853

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			854			

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

Connector AM-TOP
single part body

* For use on camping sites, please select type 180AC

IP 44
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	509	510*	511		2441	2517
16	4	512	513	514	515	516	517
16	5	518	519	5	2026	2193	2495
32	3	521	522	523		2196	2674
32	4	524	525	526	527	528	529
32	5	530	531	6	2027	2245	2493

Connector ProTOP
cable gland and sealing

* For use on camping sites, please select type 180AC

IP 44
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	179A	180A*	181A			
16	4		193A	194A	195A		
16	5			15A			
32	3	121	122				
32	4		125	126	127		
32	5			16A			

Connector StarTOP
screwless, with insulation displacing technique, SafeCONTACT, cable gland and sealing

* For use on camping sites, please select type 180AC

IP 44
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	979	980*				
16	4		993	994	965	996	
16	5			35			
32	3	725	731				
32	4		761	763	765		
32	5			36			

Connector PowerTOP Xtra
rubberised grip area, frame terminals, cable gland and sealing

IP 44
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	14101	14102				
63	4		14105	14106	14107		
63	5		14111	14112			

Connector PowerTOP
highly heat resistant contact carrier, cable gland and external cable grip

IP 44
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	3953	3954				
16	4	3956	3957	3958	3959		
16	5	3962	3963	3964			
32	3	3965	3966	3967			
32	4		3969	3970	3971		
32	5	3974	3975	3976			

Angled Connector
with grommet

IP 44
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				

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

Hanging connector PowerTOP
with highly heat resistant contact carrier, cable gland and external cable grip, hanging clip

IP 44
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	5			3778			
32	5			3999			

Connector PowerTOP
with external cable grip and highly heat resistant contact carrier

IP 67
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	3859	3860	3862			
16	4	3869	3873	3871	3872		
16	5	3879	3883	3881			
32	3	3887	3888	3891			
32	4	3896	3899	3897	3898		
32	5	3905	3909	3907			

Connector AM-TOP
single part body, cable gland and sealing, strain relief and protection against kinking

IP 67
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	539	540	541			
16	4	542	543	544	545	546	547
16	5	548	549	550			
32	3	551	552	553			
32	4	554	555	556	557	558	559
32	5	560	561	562			

Connector PowerTOP Xtra
rubberised grip area, highly heat resistant contact carrier, frame terminals, cable gland and sealing, strain relief and protection against kinking

IP 67
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

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

Receptacle combinations for worldwide use.

AMAXX® your Industry!

Our AMAXX® receptacle combinations are versatile and highly customisable. Therefore, AMAXX® is in operation worldwide in various fields, even under adverse conditions. Our slogan „AMAXX® your Industry!“ goes round the world. Many international reference projects of satisfied customers are proof.

What could be the reason? MENNEKES is the global specialist for industrial plugs and receptacles with over 80 years of experience. We should also mention the numerous options of the AMAXX® combination programme and our passion to develop customised solutions – right up to one-off production. With new features to meet international requirements, such as UL listed enclosures and components, we are even better positioned in new markets.

Valid also in future: MENNEKES – Plugs for the world!


RUSSIA | Schools and Universities
FINLAND | Container Terminals
RUSSIA | Power Generation & Distribution
THE NETHERLANDS | Railway & Underground
UNITED KINGDOM | Container Terminals
BELGIUM | Power Generation & Distribution
GERMANY | Metal Processing Industry
FRANCE | Railway & Underground
ITALY | Steel Industry
SAUDI-ARABIA | Railway & Underground
CHINA | Engineering
UAE ABU DHABI | Steel & Aluminium Industry
CAMBODIA | Food Industry
NIGERIA | Food industry
THAILAND | Power Generation & Distribution
INDIA | Oil & gas industry
INDONESIA | Tyre Industry
SOUTH AFRICA | Entertainment Industry

Railway and Underground

Metro Riyadh, Saudi Arabia

Customised project engineering

- according to national standards and specifications of railway operators
- 2 AMAXX® with 3 segments
- **Protection type IP 67**
- **CEE receptacles 16 A**
- Miniature circuit breaker (MCB)

Benefits of AMAXX®

- Manufacture based on EN/IEC 60309 and 61439

Entertainment Industry

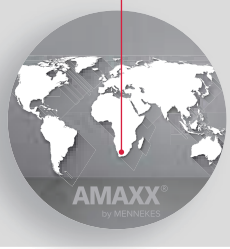
Lighthouse Chapel, South Africa

Customised project engineering

- AMAXX® with 4 segments
  Mobile with carrying handle
- **Protection type IP 67**
- **Supply cable of 1 m length with CEE plug 32 A**
- CEE receptacles
- RCD and MCB

Benefits of AMAXX®

Manufacture according to EN/IEC 60309 and 61439



Food Industry

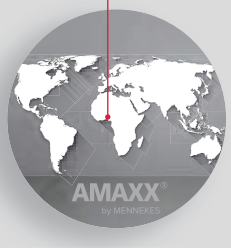
Nigerian Bottling Company, Nigeria

Customised project engineering

- AMAXX® with 4 segments
  Mobile with carrying handle
- **Protection type IP 67**
- **Supply cable of 20 m length with CEE plug 32 A**
- **Grounding-type receptacle British standard (IP 68)**
- CEE receptacles
- RCD and MCB

Benefits of AMAXX®

- Manufacture according to EN/IEC 60309 and 61439



Steel & Aluminium Industry

EMAL (Emirates Aluminium), United Arab Emirates, Abu Dhabi

Customised project engineering

- AMAXX® with 3 segments
- **Protection type IP 67**
- **CEE receptacles up to 63 A**
- RCD and MCB

Benefits of AMAXX®

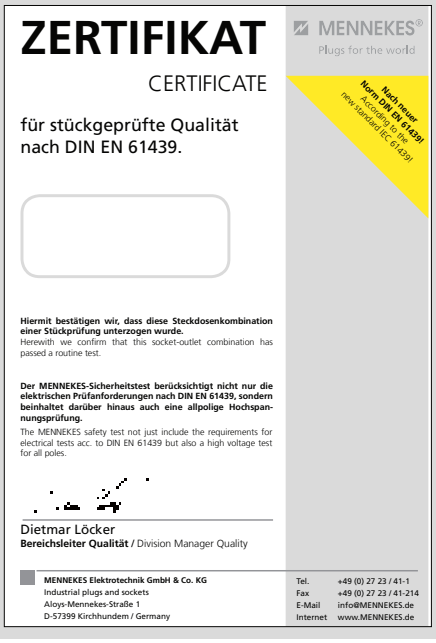
- Manufacture based on EN/IEC 60309 and 61439

Variety of versions.

- Protection type: IP 44 and IP 67.
- 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 (silver (IP 44) or yellow available on request).
- Equipped with: CEE receptacles from 16 A, 3 p up to 63 A, 5 p, grounding-type receptacles in acc. with many national standards, DUO receptacles switched and interlocked from 16 A, 3 p up to 32 A, 5 p as well as fuse elements.

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 is thoroughly tested and certified prior to delivery.



ZERTIFIKAT

CERTIFICATE

MENNEKES®
Plugs for the world

Nach neuer Norm DIN EN 61439!
According to the new standard EC 61439!

für stückgeprüfte Qualität
nach DIN EN 61439.

Hiermit bestätigen wir, dass diese Steckdosenkombination einer Stückprüfung unterzogen wurde.
Herewith we confirm that this socket-outlet 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 DIN EN 61439 but also a high voltage test for all poles.

Dietmar Löcker
Bereichsleiter Qualität / Division Manager Quality

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Industrial plugs and sockets
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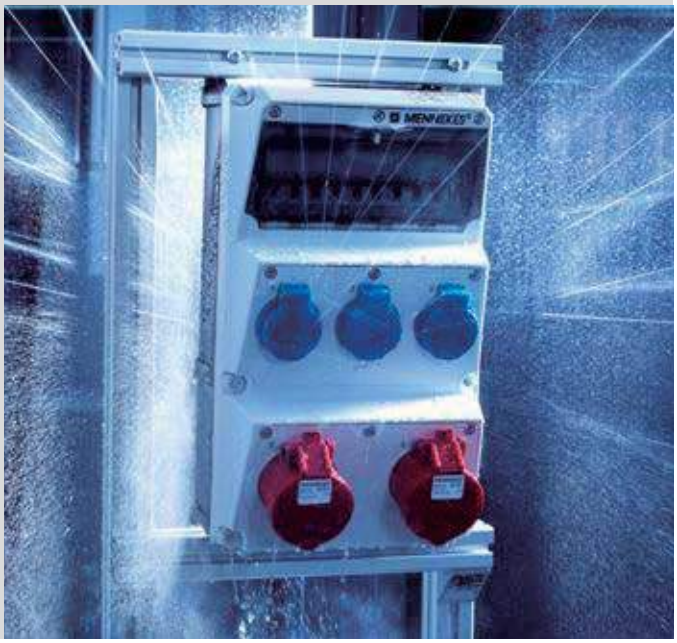
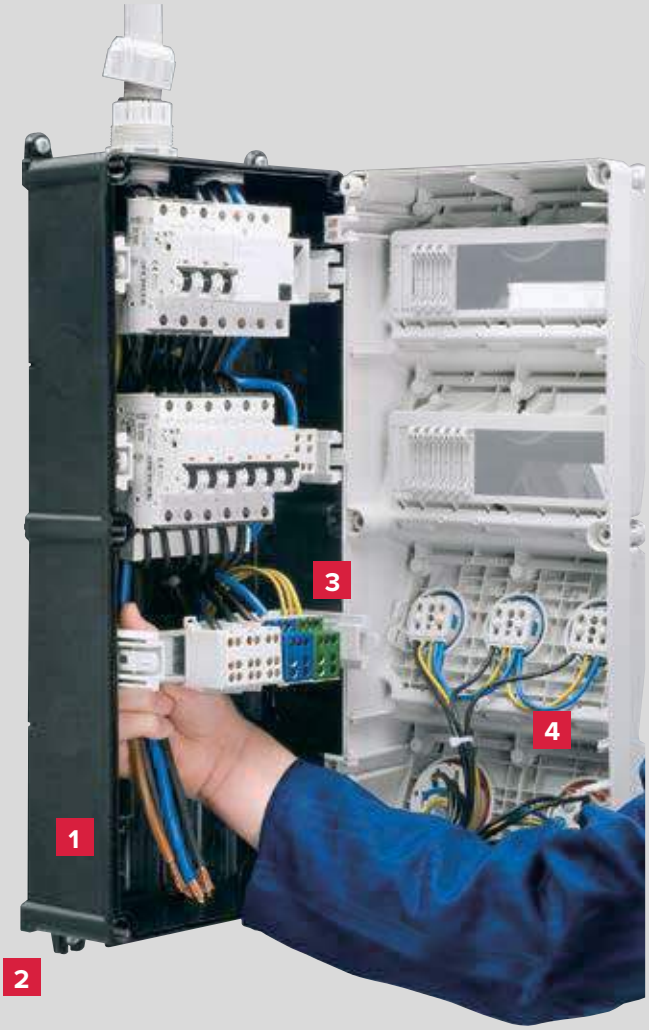


Easy to install.



Sophisticated details

1 Liftable DIN rails.
Liftable 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.

- Both hands free because inspection windows fold downwards.

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

- Generally angled insertion direction, also with receptacles SCHUKO®.

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

New standard for low voltage switchgear and control gear assemblies - IEC 61439.

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

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 demands imposed on receptacle combinations that must be classified as a switchgear and control gear assembly have changed. Structure and manner of verification have been redefined.

In the Service tab on pages 100 to 103 you will find additional information, excerpts from the standard for low voltage switchgear and control gear assemblies - IEC 61439, and a listing of the agreements between manufacturers of the switchgear and control gear assemblies and users.

What has changed with the new switchgear standard - IEC 61439 and what are the benefits for the MENNEKES customer?

- Product safety
  In the future, all low voltage switchgear and control gear assemblies must be tested in accordance with IEC 61439. The requirement of design verification is new. Design verification replaces the type test. MENNEKS receptacle combinations are subjected to additional standard-compliant routine tests. The outgoing circuits are individually loaded with the respective rated current.

  Your advantage: This guarantees an even higher standard of safety.

- Clear documentation
  Significant rating plate – clearly defined mandatory information, such as rated diversity factor RDF (previously: simultaneity factor).

  Your advantage: The main technical product information is visible on the rating plate at a glance.

- Clear specifications
  Requests for a custom solution require clearly defined specifications by the user (such as installation site, ambient temperatures, etc.).

  Your advantage: You get a need-based solution by MENNEKES tailored to the specific application.

- Distinction:
  Original manufacturer - manufacturer
  If a product is modified on site, the company in question is considered to be the manufacturer. In this case a new verification and documentation are required from this company.

  Your advantage: For receptacle combinations that are pre-wired for installation, MENNEKES is the original manufacturer and manufacturer and therefore bears the complete product responsibility.

Example – rating plate

I_{nA} Rated current of the switchgear and control gear assembly

U_n Rated voltage

f_n Rated frequency

RDF Rated diversity factor

I_{cc} Conditional rated short-circuit current

Protection class

IP Ingress protection

Pre-wired for installation, IP 44, enclosure front cover electric 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 116.

CEE receptacles

CEE receptacles

Receptacles SCHUKO®

2 SCHUKO® 16 A, 230 V

Fusing

1 RCD 25 A, 2 p, 0.03 A
2 MCB´s 16 A, 1 p, C

Connection

For 1 cable up to 3 x 10 mm²

Connection and load values

Pre-fuse max. 40 A
I_{nA} 38 A
RDF 0.8

Enclosure size

130 x 225 mm (H x W)

Part no.

910001

CEE receptacles

CEE receptacles

Receptacles NF

2 NF 16 A, 2 p+E, 230 V

Fusing

1 RCD 25 A, 2 p, 0.03 A
2 MCB´s 16 A, 1 p+N, C

Connection

For 1 cable up to 3 x 6 mm²

Connection and load values

Pre-fuse max. 25 A
I_{nA} 25 A
RDF 1

Enclosure size

130 x 225 mm (H x W)

Part no.

910205

CEE receptacles

CEE receptacles

Receptacles SCHUKO®

3 SCHUKO® 16 A, 230 V

Fusing

1 RCD 40 A, 4 p, 0.03 A
3 MCB´s 16 A, 1 p, C

Connection

For 1 cable up to 5 x 10 mm²

Connection and load values

Pre-fuse max. 16 A
I_{nA} 16 A
RDF 1

Enclosure size

260 x 225 mm (H x W)

Part no.

920003

CEE receptacles

CEE receptacles

Receptacles NF

3 NF 16 A, 2 p+E, 230 V

Fusing

1 RCD 40 A, 4 p, 0.03 A
3 MCB´s 16 A, 1 p+N, C

Connection

For 1 cable up to 5 x 10 mm²

Connection and load values

Pre-fuse max. 63 A
I_{nA} 16 A
RDF 1

Enclosure size

260 x 225 mm (H x W)

Part no.

920043

Receptacle combinations ■ Wall mounted, AMAXX®

Pre-wired for installation, IP 44, enclosure front cover electric 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 116.

CEE receptacles

CEE receptacles
3 CEE 16 A, 3 p, 230 V

Receptacles SCHUKO®

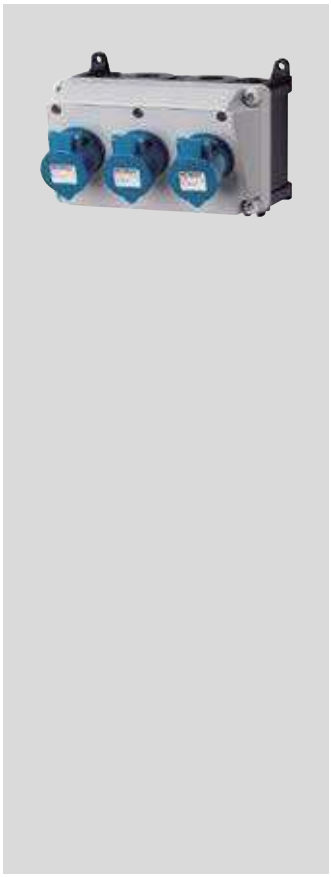
Fusing
1 RCD 40 A, 4 p, 0.03 A
3 MCB´s 16 A, 1 p, C

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values
Pre-fuse max. 40 A
I_{nA} 40 A
RDF 1

Enclosure size
650 x 112.5 mm (H x W)

Part no.
960019



CEE receptacles

CEE receptacles
3 CEE 16 A, 3 p, 230 V

Receptacles SCHUKO®

Fusing

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values
Pre-fuse max. 16 A
I_{nA} 16 A
RDF 1

Enclosure size
130 x 225 mm (H x W)

Part no.
910015

CEE receptacles
1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
2 SCHUKO® 16 A, 230 V

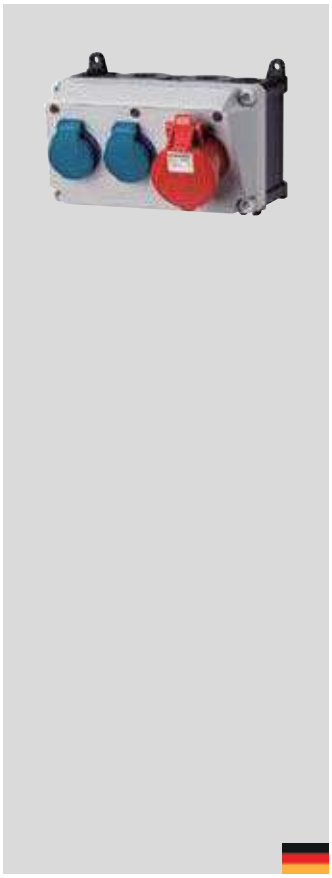
Fusing
1 RCD 40 A, 4 p, 0.03 A
1 MCB 16 A, 3 p, C
1 MCB 16 A, 1 p, C

Connection
For 1 flex. cable up to 5 x 10 mm²

Connection and load values
Pre-fuse max. 63 A
I_{nA} 32 A
RDF 1

Enclosure size
650 x 112.5 mm (H x W)

Part no.
960051



CEE receptacles
1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
2 SCHUKO® 16 A, 230 V

Fusing

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values
Pre-fuse max. 16 A
I_{nA} 16 A
RDF 1

Enclosure size
130 x 225 mm (H x W)

Part no.
910007

Receptacle combinations ■ Wall mounted, AMAXX®

Pre-wired for installation, IP 44, enclosure front cover electric 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 116.

CEE receptacles
1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles British standard
2 x 13 A, 2 p+E

Fusing

Connection
For 1 cable up to 5 x 6 mm²

Connection and load values
Pre-fuse max. 16 A
I_{nA} 16 A
RDF 1

Enclosure size
130 x 225 mm (H x W)

Part no.
910694

CEE receptacles
1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
3 SCHUKO® 16 A, 230 V

Fusing
1 MCB 16 A, 3 p, C
1 MCB 16 A, 1 p, C

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values
Pre-fuse max. 63 A
I_{nA} 32 A
RDF 1

Enclosure size
650 x 112.5 mm (H x W)

Part no.
960004

CEE receptacles
2 CEE 16 A, 5 p, 400 V switched, with mechanical DUO-interlock

CEE receptacles

Receptacles SCHUKO®

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
I_{nA} 32 A
RDF 1

Enclosure size
390 x 225 mm (H x W)

Part no.
930031

CEE receptacles
2 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
3 SCHUKO® 16 A, 230 V

Fusing
2 MCB´s 16 A, 3 p, C
3 MCB´s 16 A, 1 p, C

Connection
For 2 cables up to 5 x 25 mm²

Connection and load values
Pre-fuse max. 63 A
I_{nA} 46 A
RDF 1

Enclosure size
390 x 225 mm (H x W)

Part no.
930003

Pre-wired for installation, IP 44, enclosure front cover electric 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 116.

CEE receptacles
2 CEE 16 A, 5 p, 400 V
CEE receptacles
Receptacles British standard
3 x 13 A, 2 p+E
Fusing
2 MCB´s 16 A, 3 p, C 3 MCB´s 13 A, 1 p, C
Connection
For 2 cables up to 5 x 16 mm²
Connection and load values
Enclosure size
390 x 225 mm (H x W)
Part no.
930734

CEE receptacles
1 CEE 32 A, 5 p, 400 V
CEE receptacles
Receptacles SCHUKO®
2 SCHUKO® 16 A, 230 V
Fusing
1 MCB 32 A, 3 p, C 2 MCB´s 16 A, 1 p, C
Connection
For 1 cable up to 5 x 10 mm²
Connection and load values
Pre-fuse max. 63 A I_{nA} 48 A RDF 1
Enclosure size
260 x 225 mm (H x W)
Part no.
920011

CEE receptacles
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
Data port sockets
2 Cepex RJ45, 2 fold Cat.6
Receptacles SCHUKO®
2 SCHUKO® 16 A, 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 16 A, 1 p, C
Connection
For 2 cables up to 5 x 25 mm²
Connection and load values
Pre-fuse max. 40 A I_{nA} 40 A RDF 1
Enclosure size
520 x 225 mm (H x W)
Part no.
940018

CEE receptacles
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
CEE receptacles
Receptacles SCHUKO®
3 SCHUKO® 16 A, 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 3 MCB´s 16 A, 1 p, C
Connection
For 2 cables up to 5 x 25 mm²
Connection and load values
Pre-fuse max. 40 A I_{nA} 40 A RDF 0.8
Enclosure size
520 x 225 mm (H x W)
Part no.
940005

Receptacle combinations ■ Wall mounted, AMAXX®

Pre-wired for installation, IP 44, enclosure front cover electric 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 116.

CEE receptacles

1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®

3 SCHUKO® 16 A, 230 V

Fusing

1 MCB 32 A, 3 p, C
1 MCB 16 A, 3 p, C
3 MCB´s 16 A, 1 p, C

Connection

For 2 cables up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 63 A
I_{nA} 54 A
RDF 0.85

Enclosure size

390 x 225 mm (H x W)

Part no.

930011

CEE receptacles

1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®

6 SCHUKO® 16 A, 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
6 MCB´s 16 A, 1 p, C

Connection

For 2 cables up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 63 A
I_{nA} 52 A
RDF 0.65

Enclosure size

650 x 225 mm (H x W)

Part no.

950004

CEE receptacles

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 receptacles

Receptacles NF

4 NF 16 A, 2 p+E, 230 V

Fusing

1 RCD 63 A, 4 p, 0.03 A
1 MCB 32 A, 3 p+N, C
1 MCB 16 A, 3 p+N, C
4 MCB´s 16 A, 1 p+N, C

Connection

For 2 cables up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.5

Enclosure size

650 x 225 mm (H x W)

Part no.

950022

CEE receptacles

1 CEE 63 A, 5 p, 400 V
1 CEE 32 A, 5 p, 400 V
switched, with mechanical DUO-interlock

CEE receptacles

Receptacles SCHUKO®

4 SCHUKO® 16 A, 230 V

Fusing

1 RCD 63 A, 4 p, 0.03 A
1 MCB 32 A, 3 p, C
4 MCB´s 16 A, 1 p, C

Connection

For 2 cables up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.75

Enclosure size

650 x 225 mm (H x W)

Part no.

950026

Receptacle combinations ■ Wall mounted, AMAXX®

Pre-wired for installation, IP 67, enclosure front cover electric 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 116.

CEE receptacles

1 CEE 16 A, 5 p, 400 V
switched, with mechanical DUO-interlock

CEE receptacles

Receptacles SCHUKO®

Fusing

Connection

For 1 cable up to 5 x 10 mm²

Connection and load values

Enclosure size

130 x 225 mm (H x W)

Part no.

7626

CEE receptacles

1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®

3 SCHUKO® 16 A, 230 V

Fusing

1 RCD 40 A, 4 p, 0.03 A
1 MCB 16 A, 3 p, C
3 MCB´s 16 A, 1 p, C

Connection

For 2 cables up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 100 A
I_{nA} 32 A
RDF 1

Enclosure size

390 x 225 mm (H x W)

Part no.

930022

CEE receptacles

1 CEE 16 A, 4 p, 400 V

CEE receptacles

Receptacles NF

3 NF 16 A, 2 p+E, 230 V

Fusing

1 RCD 40 A, 4 p, 0.03 A
1 MCB 16 A, 3 p, C
3 MCB´s 16 A, 1 p+N, C

Connection

For 2 cables up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 100 A
I_{nA} 26 A
RDF 0.8

Enclosure size

390 x 225 mm (H x W)

Part no.

930520

CEE receptacles

1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®

4 SCHUKO® 16 A, 230 V

Fusing

Connection

For 1 cable up to 5 x 10 mm²

Connection and load values

Enclosure size

650 x 112.5 mm (H x W)

Part no.

960031

Pre-wired for installation, IP 67, enclosure front cover electric 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 116.

CEE receptacles
2 CEE 16 A, 4 p, 400 V
switched, with mechanical DUO-interlock

CEE receptacles
2 CEE 16 A, 3 p, 230 V switched, with mechanical DUO-interlock

Receptacles SCHUKO®

Fusing
2 MCB´s 16 A, 3 p, C
2 MCB´s 16 A, 1 p+N, C

Connection
For 2 cables up to 5 x 25 mm²

Connection and load values
Pre-fuse max. 100 A
I_{nA} 38 A
RDF 0.8

Enclosure size
650 x 225 mm (H x W)

Part no.
950034

CEE receptacles
1 CEE 32 A, 5 p, 400 V
2 CEE 16 A, 4 p, 400 V

CEE receptacles
3 CEE 16 A, 3 p, 230 V

Receptacles SCHUKO®

Fusing
1 MCB 32 A, 3 p+N, C
1 MCB 16 A, 3 p, C
1 MCB 16 A, 1 p+N, C

Connection
For 2 cables up to 5 x 25 mm²

Connection and load values
Pre-fuse max. 100 A
I_{nA} 45 A
RDF 0.45

Enclosure size
520 x 225 mm (H x W)

Part no.
940028

CEE receptacles
2 CEE 32 A, 5 p, 400 V
2 CEE 16 A, 4 p, 400 V
switched, with mechanical DUO-interlock

CEE receptacles

Receptacles SCHUKO®

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 2 cables up to 5 x 25 mm²

Connection and load values
Pre-fuse max. 63 A
I_{nA} 36 A
RDF 0.75

Enclosure size
390 x 450 mm (H x W)

Part no.
900005

Receptacle combinations ■ Wall mounted, AMAXX®

Pre-wired for installation, IP 67, enclosure front cover electric 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 116.

CEE receptacles

2 CEE 32 A, 5 p, 400 V
switched, with mechanical DUO-interlock
2 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®

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 mm²

Connection and load values

Pre-fuse max. 63 A
I_{nA} 58 A
RDF 0.6

Enclosure size

650 x 225 mm (H x W)

Part no.

900946

CEE receptacles

3 CEE 32 A, 4 p, 380-440 V, 3 h
For reefer container,
switched, with mechanical DUO-interlock

CEE receptacles

Receptacles SCHUKO®

Fusing

3 MCB´s 32 A, 3 p, C
1 earth bolt M 10, V2A

Connection

For 1 cable up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 100 A
I_{nA} 58 A
RDF 0.6

Enclosure size

520 x 225 mm (H x W)

Part no.

940027

CEE receptacles

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 receptacles

Receptacles SCHUKO®

2 SCHUKO® 16 A, 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 16 A, 1 p, C

Connection

For 2 cables up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.7

Enclosure size

650 x 225 mm (H x W)

Part no.

950031

CEE receptacles

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 receptacles

Receptacles NF

2 NF 16 A, 2 p+E, 230 V

Fusing

1 RCD 63 A, 4 p, 0.03 A
1 MCB 32 A, 3 p+N, C
1 MCB 16 A, 3 p+N, C
2 MCB´s 16 A, 1 p+N, C

Connection

For 2 cables up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.5

Enclosure size

650 x 225 mm (H x W)

Part no.

950033

Accessories for AMAXX® receptacle combinations.

AMAXX® standard cable glands

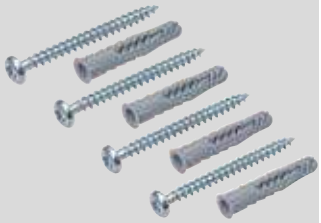
black RAL 9005

M 20 - for cable from 6-13 mm
IP 44: **Part no. 990607**
IP 67: **Part no. 990611**

M 25 - for cable from 9-17 mm
IP 44: **Part no. 990610**

M 32 - for cable from 13-21 mm
IP 44: **Part no. 990608**
IP 67: **Part no. 990612**

M 40 - for cable from 14-28 mm
IP 67: **Part no. 990609**



AMAXX® screw set

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

AMAXX® attachment set

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

AMAXX® support/carrier frame

yellow RAL 1003,
suitable for AMAXX® receptacle combinations with the sizes:
260 x 225 mm,
390 x 225 mm and
520 x 225 mm
for wall mounting in protection type IP 67 or as mobile combinations with carrying handle and with feeder cable in protection type IP 44 and IP 67

Part no. 15696

AMAXX® membrane cable glands

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

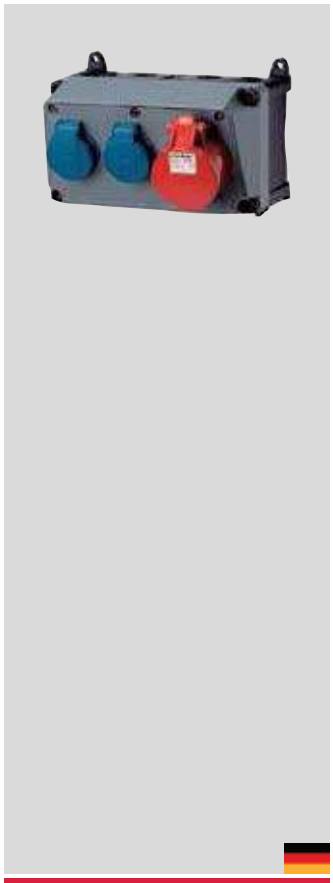
Selection chart for membrane cable glands

AMAXX® receptacle combination	Standard cable entries	Recommandation 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.

Receptacle combinations ■ Wall mounted, AMAXX®

Highly resistant to chemicals made of AMELAN, pre-wired for installation, IP 44, 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 116.



CEE receptacles	Receptacles SCHUKO®	Fusing	Connection	Connection and load values	Enclosure size	Part no.
1 CEE 16 A, 5 p, 400 V	2 SCHUKO® 16 A, 230 V		For 1 cable up to 5 x 10 mm²		130 x 225 mm (H x W)	**910020**

CEE receptacles	Receptacles NF	Fusing	Connection	Connection and load values	Enclosure size	Part no.
1 CEE 16 A, 5 p, 400 V	3 NF 16 A, 2 p+E, 230 V	1 RCD 40 A, 4 p, 0.03 A	For 1 cable up to 5 x 10 mm²	Pre-fuse max. 16 A I_{nA} 16 A	650 x 112.5 mm (H x W)	**960042**

CEE receptacles	Receptacles British standard	Fusing	Connection	Connection and load values	Enclosure size	Part no.
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V	3 x 13 A, 2 p+E, 230 V	1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 3 MCB´s 13 A, 1 p, C	For 1 cable up to 5 x 16 mm²	Pre-fuse max. 63 A I_{nA} 46 A RDF 0.75	520 x 225 mm (H x W)	**941142**

CEE receptacles	Receptacles SCHUKO®	Fusing	Connection	Connection and load values	Enclosure size	Part no.
1 CEE 63 A, 5 p, 400 V 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V	4 SCHUKO® 16 A, 230 V	1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 4 MCB´s 16 A, 1 p, C	For 2 cables up to 5 x 25 mm²	Pre-fuse max. 63 A I_{nA} 63 A RDF 0.65	650 x 225 mm (H x W)	**950041**

Highly resistant to chemicals made of AMELAN, pre-wired for installation, IP 67, 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 116.

CEE receptacles	
CEE receptacles	2 CEE 16 A, 3 p, 230 V
Receptacles SCHUKO®	
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 I_{nA} 25 A RDF 1
Enclosure size	260 x 225 mm (H x W)
Part no.	**920821**

CEE receptacles	1 CEE 16 A, 5 p, 400 V
CEE receptacles	
Receptacles SCHUKO®	3 SCHUKO® 16 A, 230 V
Fusing	1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 3 MCB´s 16 A, 1 p, C
Connection	For 2 cables up to 5 x 25 mm²
Connection and load values	Pre-fuse max. 100 A I_{nA} 30 A RDF 0.95
Enclosure size	390 x 225 mm (H x W)
Part no.	**930027**

CEE receptacles	1 CEE 32 A, 5 p, 400 V
CEE receptacles	
Receptacles SCHUKO®	3 SCHUKO® 16 A, 230 V
Fusing	1 RCD 40 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 3 MCB´s 16 A, 1 p, C
Connection	For 2 cables up to 5 x 25 mm²
Connection and load values	Pre-fuse max. 40 A I_{nA} 36 A RDF 0.75
Enclosure size	390 x 225 mm (H x W)
Part no.	**930028**

CEE receptacles	1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
CEE receptacles	
Receptacles SCHUKO®	2 SCHUKO® 16 A, 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 16 A, 1 p, C
Connection	For 2 cables up to 5 x 25 mm²
Connection and load values	Pre-fuse max. 100 A I_{nA} 44.8 A RDF 0.7
Enclosure size	520 x 225 mm (H x W)
Part no.	**940016**

Pre-wired for installation, IP 44, enclosure front cover electric grey, yellow or silver, hinged to the side. Fusing behind a transparent cover.
With suspension eyes on top, grip hooks on the bottom and chain set provided.
* The receptacle combinations can be ordered in electric grey RAL 7035, yellow RAL 1021 or silver RAL 9006. To order in yellow or silver, please add the appropriate colour code to the order number (yellow = GE, silver = SI).
For drawings and dimensions see page 115.

Set of chains

are provided with each suspendable AMAXX® receptacle combination.

CEE receptacles
2 CEE 16 A, 5 p, 400 V
CEE receptacles
Receptacles SCHUKO®
4 SCHUKO® 16 A, 230 V
Fusing
1 RCD 40 A, 4 p, 0.03 A 2 MCB´s 16 A, 3 p, C 4 MCB´s 16 A, 1 p, C
Connection
For 1 cable up to 5 x 10 mm²
Connection and load values
Pre-fuse max. 40 A I_{nA} 40 A RDF 0.7
Enclosure size
260 x 225 mm (H x W)
Part no.
970004*

CEE receptacles
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
CEE receptacles
Receptacles SCHUKO®
3 SCHUKO® 16 A, 230 V
Fusing
1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 3 MCB´s 16 A, 1 p, C
Connection
For 1 cable up to 5 x 10 mm²
Connection and load values
Pre-fuse max. 32 A I_{nA} 32 A RDF 1
Enclosure size
260 x 225 mm (H x W)
Part no.
970002*

Pre-wired for installation, IP 44, enclosure front cover electric grey, yellow or silver, hinged to the side. Fusing behind a transparent cover.
With suspension eyes on top, grip hooks on the bottom and chain set provided.
* The receptacle combinations can be ordered in electric grey RAL 7035, yellow RAL 1021 or silver RAL 9006. To order in yellow or silver, please add the appropriate colour code to the order number (yellow = GE, silver = SI).
For drawings and dimensions see page 115.

CEE receptacles
1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V

Data port sockets
1 Cepex RJ45, 2 fold Cat.6

Receptacles SCHUKO®
3 SCHUKO® 16 A, 230 V

Fusing
1 RCD 40 A, 4 p, 0.03 A
1 MCB 16 A, 3 p, C
3 MCB´s 16 A, 1 p, C

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values
Pre-fuse max. 32 A
I_{nA} 32 A
RDF 1

Enclosure size
260 x 225 mm (H x W)

Part no.
970005*

CEE receptacles
1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
4 SCHUKO® 16 A, 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
4 MCB´s 16 A, 1 p, C

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values
Pre-fuse max. 40 A
I_{nA} 40 A
RDF 0.7

Enclosure size
260 x 225 mm (H x W)

Part no.
970001*

CEE receptacles
1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
4 SCHUKO® 16 A, 230 V

Fusing
1 MCB 32 A, 3 p, C
1 MCB 16 A, 3 p, C
4 MCB´s 16 A, 1 p, C

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values
Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.85

Enclosure size
260 x 225 mm (H x W)

Part no.
970003*

Pneumatic connection

for suspendable AMAXX®

for tube NW 9 mm,
Part no. 997001

for tube NW 13 mm,
Part no. 997000

Pre-wired for installation, IP 44 or IP 67, enclosure front cover electric grey RAL 7035, hinged to the side. Fusing behind a transparent cover.
For drawings and dimensions see page 116.

CEE receptacles
CEE receptacles
Receptacles NF
5 NF 16 A, 2 p+E, 230 V
Fusing
1 RCD 25 A, 2 p, 0.03 A
Connection
2 m H07RN-F3G2.5 with NF-plug 16 A, 2 p+E, 230 V
Connection and load values
Pre-fuse max. 16 A I_{nA} 16 A RDF 1
Enclosure size
260 x 225 mm (H x W)
Part no.
920046

CEE receptacles
CEE receptacles
Receptacles Danish standard
6 x 13 A, 2 p+E, 230 V
Fusing
1 RCD 40 A, 4 p, 0.03 A 6 MCB´s 13 A, 1 p, C
Connection
2 m H07RN-F5G4 with CEE-plug 32 A, 5 p, 400 V
Connection and load values
Pre-fuse max. 32 A I_{nA} 26 A RDF 1
Enclosure size
390 x 225 mm (H x W)
Part no.
931451

CEE receptacles
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
CEE receptacles
Receptacles British standard
3 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 3 MCB´s 13 A, 1 p, C
Connection
2 m H07RN-F5G4 with CEE-plug 32 A, 5 p, 400 V
Connection and load values
Pre-fuse max. 32 A I_{nA} 32 A RDF 1
Enclosure size
390 x 225 mm (H x W)
Part no.
931237

CEE receptacles
CEE receptacles
3 CEE 16 A, 3 p, 230 V, switched, with mechanical DUO-interlock
Receptacles SCHUKO®
Fusing
1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p+N, C
Connection
4 m H07RN-F5G2.5 with CEE-plug 16 A, 5 p, 400 V
Connection and load values
Pre-fuse max. 16 A I_{nA} 16 A RDF 1
Enclosure size
520 x 225 mm (H x W)
Part no.
940030

AirKRAFT and 3KRAFT.

For ceiling and floor.

Electrical power. Data. Compressed air.

You need electrical power, compressed air, data? Safe and flexible?

Go for AirKRAFT or 3KRAFT. Characteristic for both: Suspended from the ceiling, attached to the wall, or portable with a supply cable, also available in signal yellow, red or silver. The choice is yours!

Up to four receptacles plus compressed air. Pre-wired for installation or operation, with a supply cable and plug.

Awards

AirKRAFT and 3KRAFT have been awarded with many design prizes among the famous reddot award.

DESIGNPREIS 2006 DESIGNPREIS DER BUNDESREPUBLIK DEUTSCHLAND NOMINIERT

DESIGN PLUS Award 2004

reddot award

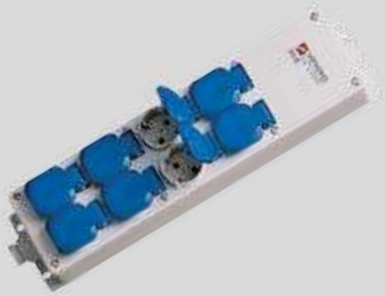
Bronzemedaille 2004 Deutscher Designer Club

winner 2005 GOLD iF PRODUCT design award

DELTA-BOX - the classic unit.

With cable grip. Each DELTA-BOX comes with a suspension bracket. Available in IP 44, IP 67 and IP 68.

Receptacle strips - the versatile units.



Suspendable, portable or for wall mounting. Pre-wired for installation. With cable gland. Available in IP 44.

Pre-wired for installation, IP 20 or IP 44[1)] [1)] Regarding portable receptacle combinations in IP 44 please see page 106 for further information.
Fusing behind a transparent cover. Colours: Back box in black, cover available in red (RO), yellow (GE) or silver (SI). Other variations on request.
Dimensions page 117.

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 10 mm²

Connection and load values

Protection type
IP 44

Part no.
94550

Fitted with
2 CEE 16 A, 5 p, 400 V
2 SCHUKO® 16 A, 230 V

Fusing

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values

Protection type
IP 44

Part no.
94552

Fitted with
2 CEE 16 A, 5 p, 400 V
2 SCHUKO® 16 A, 230 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
Pre-fuse max. 16 A
I_{nA} 16 A

Protection type
IP 44

Part no.
94553

Fitted with
1 CEE 16 A, 5 p, 400 V
3 SCHUKO® 16 A, 230 V

Fusing
1 MCB 16 A, 3 p, C
1 MCB 16 A, 1 p, C

Connection
3 m H07RN-F5G4 with CEE plug
32 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 32 A
I_{nA} 32 A
RDF 1

Protection type
IP 44

Part no.
94559

Fitted with
3 SCHUKO® 16 A, 230 V

Fusing

Connection
For 1 cable up to 3 x 6 mm²

Connection and load values

Protection type
IP 44

Part no.
94351

Fitted with
2 SCHUKO® 16 A, 230 V
1 RJ45 double data port cat.6, 8/8

Fusing

Connection
For 1 cable up to 3 x 6 mm²

Connection and load values

Protection type
IP 20

Part no.
94354

Fitted with
1 CEE 16 A, 5 p, 400 V
1 SCHUKO® 16 A, 230 V
1 RJ45 double data port cat.6, 8/8

Fusing

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values

Protection type
IP 20

Part no.
94355

Fitted with
3 SCHUKO® 16 A, 230 V

Fusing

Connection
3 m H07RN-F3G1.5 with plug
SCHUKO® 16 A, 230 V

Connection and load values

Protection type
IP 44

Part no.
94357

Pre-wired for installation, IP 44[1] / 67 [1] Regarding portable receptacle combinations in IP 44 please see page 106 for further information.
With cable grip and installed hanging hook. Other combinations on request. Dimensions page 117.

Fitted with
3 CEE 16 A, 5 p, 400 V

Fusing

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values

Protection type
IP 44
Part no.
92917

Fitted with
3 CEE 32 A, 5 p, 400 V

Fusing

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values

Protection type
IP 44
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 10 mm²

Connection and load values

Protection type
IP 44
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 10 mm²

Connection and load values

Protection type
IP 67
Part no.
92893

Fitted with
3 CEE 16 A, 3 p, 110 V

Fusing

Connection
For 1 cable up to 3 x 10 mm²

Connection and load values

Protection type
IP 44
Part no.
96227

Fitted with
3 CEE 16 A, 3 p, 230 V

Fusing

Connection
For 1 cable up to 3 x 10 mm²

Connection and load values

Protection type
IP 44
Part no.
96489

Fitted with
3 CEE 16 A, 5 p, 400 V

Fusing

Connection
For 1 cable up to 5 x 10 mm²

Connection and load values

Protection type
IP 44
Part no.
96705

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 10 mm²

Connection and load values

Protection type
IP 44
Part no.
96703

Solid rubber.

Safe. Robust. Versatile.

EverGUM - solid rubber receptacle combinations. Especially when there is likely to be exposure to rough handling or aggressive cleaning agents.

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

Solid rubber receptacle combinations, portable

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

Tested safety, EverGUM details.

The closed lower side of the enclosure with a ground clearance of 77 mm prevents ingress of water. The panel mounted receptacles can be replaced from outside. Hinged cover provided with stainless steel quick release clips. 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.

Receptacle combinations ■ EverGUM

Pre-wired for installation, IP 44[1)] [1)] Regarding portable receptacle combinations in IP 44 please see page 106 for further information.
Fusing behind a transparent cover. Colour: signal yellow. Other variations with CEE receptacles 3, 4 or 5 pole and with grounding-type receptacles of French/Belgian, British, Danish, Swiss and US-standards on request. Dimensions page 117 - 118.

Fitted with
1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V
3 SCHUKO® 16 A, 230 V

Fusing
1 MCB 32 A, 3 p, C
2 MCB´s 16 A, 3 p, C
3 MCB´s 16 A, 1 p, B

Connection
for 2 cables up to 5 x 25 mm²

Connection and load values
Pre-fuse max. 100 A
I_{nA} 48 A
RDF 0.75

Protection type
IP 44

Part no.
70007

Fitted with
1 CEE 63 A, 5 p, 400 V
1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V
4 SCHUKO® 16 A, 230 V

Fusing
1 MCB 63 A, 3 p, C
1 MCB 32 A, 3 p, C
1 MCB 16 A, 3 p, C
2 MCB´s 16 A, 1 p, B

Connection
for 2 cables up to 5 x 25 mm²

Connection and load values
Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.85

Protection type
IP 44

Part no.
71062

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
IP 44

Part no.
70029

Fitted with
1 CEE 16 A, 5 p, 400 V
2 SCHUKO® 16 A, 230 V

Fusing
1 RCD 40 A, 4 p, 0.03 A
2 MCB´s 16 A, 1 p, B

Connection
2 m H07RN-F5G2.5 with
CEE-plug 16 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 16 A
I_{nA} 16 A
RDF 0.95

Protection type
IP 44

Part no.
70033

Fitted with
2 CEE 16 A, 5 p, 400 V
4 SCHUKO® 16 A, 230 V

Fusing
1 RCD 40 A, 4 p, 0.03 A

Connection
with inlet 16 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 16 A
I_{nA} 16 A
RDF 1

Protection type
IP 44

Part no.
70350

Fitted with
1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V
4 SCHUKO® 16 A, 230 V

Fusing
1 RCD 40 A, 4 p, 0.03 A
1 MCB 16 A, 3 p, C
2 MCB´s 16 A, 1 p, B

Connection
2 m H07RN-F5G4 with CEE-plug
32 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 32 A
I_{nA} 32 A
RDF 0.65

Protection type
IP 44

Part no.
70351

Fitted with
1 CEE 63 A, 5 p, 400 V
1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V
4 SCHUKO® 16 A, 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 16 A, 1 p, B

Connection
3 m H07RN-F5G10 with CEE-plug
63 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.6

Protection type
IP 44

Part no.
70025

Fitted with
1 CEE 63 A, 5 p, 400 V
1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V
4 SCHUKO® 16 A, 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 16 A, 1 p, B

Connection
with inlet 63 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 63 A
I_{nA} 57 A
RDF 0.4

Protection type
IP 44

Part no.
70049

Pre-wired for installation, IP 44 or IP 67.
Insulating enclosure IP 67, black (RAL 9005), fusing behind a transparent cover. Other combinations on request.

Mobile distributor.

The new mobile receptacle combinations are available in a variety of assembly fittings. The robust, stackable insulating enclosure are ideally suited for indoor and outdoor use.

Product details

- Robust, watertight insulating enclosure IP 67, black (RAL 9005)
- Acc. to IEC 61439
- Heat resistant -25 °C up to +40 °C
- Resistant to ageing and weather
- Stackable
- Protection of receptacles and built-in appliances by stable enclosure frame
- Easy handling with integrated handles
- Flexible fitting options up to 125 A
- Protection against condensation in IP 67
- Fitted with receptacles of protection type IP 44 or IP 67
- Fusing behind a transparent cover
- Pre-wired for installation

For customized solutions which are especially made for your applicaton, please contact us!

CEE receptacles

1 CEE 32 A, 5 p, 400 V
2 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®

6 SCHUKO® 16 A, 230 V

Fusing

1 RCD 63 A, 4 p, 0.03 A
1 MCB 32 A, 3 p, C
2 MCB´s 16 A, 3 p, C
6 MCB´s 16 A, 1 p, C

Connection

2 m H07RN-F5G10 with
CEE-plug 63 A, 5 p, 400 V

Connection and load values

Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.75

Enclosure size

560 x 350 x 340 mm (H x W x D)

Protection type

IP 67

Part no.

9500719

Pre-wired for installation, IP 44 or IP 67.
Insulating enclosure IP 67, black (RAL 9005), fusing behind a transparent cover. Other combinations on request.

CEE receptacles
1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
12 SCHUKO® 16 A, 230 V

Fusing
1 RCD 40 A, 4 p, 0.03 A
1 MCB 16 A, 3 p, C, 10 kA
12 MCB´s 16 A, 1 p, C, 10 kA
3 Phase control lights green

Connection
2 m H07RN-F5G6 with
CEE-plug 32 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 32 A
I_{nA} 32 A
RDF 1

Enclosure size
560 x 350 x 340 mm (H x W x D)

Protection type
IP 44

Part no.
9500722

CEE receptacles
2 CEE 32 A, 5 p, 400 V
4 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
5 SCHUKO® 16 A, 230 V

Fusing
2 RCD´s 63 A, 4 p, 0.03 A
2 MCB´s 32 A, 3 p, C
4 MCB´s 16 A, 3 p, C
5 MCB´s 16 A, 1 p, C

Connection
2 m H07RN-F5G10 with
CEE-plug 63 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.75

Enclosure size
560 x 350 x 340 mm (H x W x D)

Protection type
IP 44

Part no.
9500706

CEE receptacles
1 CEE 63 A, 5 p, 400 V
2 CEE 32 A, 5 p, 400 V
2 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
9 SCHUKO® 16 A, 230 V

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
9 MCB´s 16 A, 1 p, C

Connection
2 m H07RN-F5G10 with
CEE-plug 63 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 63 A
I_{nA} 63 A
RDF 0.6

Enclosure size
560 x 350 x 340 mm (H x W x D)

Protection type
IP 44

Part no.
9500748

CEE receptacles
1 CEE 125 A, 5 p, 400 V
1 CEE 63 A, 5 p, 400 V
2 CEE 32 A, 5 p, 400 V
2 CEE 16 A, 5 p, 400 V

CEE receptacles

Receptacles SCHUKO®
3 SCHUKO® 16 A, 230 V

Fusing
2 RCD´s 63 A, 4 p, 0.03 A
2 MCB´s 63 A, 3 p, C
2 MCB´s 32 A, 3 p, C
2 MCB´s 16 A, 3 p, C
3 MCB´s 16 A, 1 p, C

Connection
2 m H07RN-F5G25 with
CEE-plug 125 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 125 A
I_{nA} 125 A
RDF 0.35

Enclosure size
560 x 350 x 340 mm (H x W x D)

Protection type
IP 44

Part no.
9500417

Stainless steel surface mounted and flush mounted receptacle combinations.

Safe. Practical. Timelessly elegant.

- Protection type IP 43 or IP 44 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.

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.

CombiTOWER.

Power. Compressed air. Water. Outdoors and indoors. The solution: CombiTOWER. Short routes to your energy source for industry, workshops, assembly shops, loading platforms, etc.

Receptacle combinations ■ Steel and stainless steel

Stainless steel enclosure (material 1.4301). Surface with a flat finish (K240), material 1.4571 on request.
Protection type IP 44 (combination unit for wall fixing) or IP 43 (flush mounted combination unit) with closed door.
For drawings and dimensions see page 118.

Title

Receptacle combination, wall fixing

Fitted with

1 CEE 16 A, 5 p, 400 V
4 SCHUKO® 16 A, 230 V

Fusing:
1 RCD 40 A, 4 p, 0.03 A
1 MCB 16 A, 3 p, C
4 MCB's 16 A, 1 p, B

Enclosure:
standard door with stop on right, front door with swing handle and cylinder lock – lockable even when plugs are connected.
Cable entry / connection options:
2 x entry nipples M 32 on bottom,
2 x brass screw plugs M 16 on bottom,
terminal shock hazard protected to BGV A3

Connection:
for 2 cables up to 5 x 25 mm²

Connection and load values:
Pre-fuse max. 40 A
I_{nA} 32 A
RDF 0.8

Enclosure size

530 x 400 x 220 mm (H x W x D)

Part no.

83725

Title

Receptacle combination, wall fixing

Fitted with

1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V
2 SCHUKO® 16 A, 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 16 A, 1 p, B

Enclosure:
standard door with stop on right, front door with swing handle and cylinder lock – lockable even when plugs are connected.
Cable entry / connection options:
2 x entry nipples M 32 on bottom,
2 x brass screw plugs M 16 on bottom,
terminal shock hazard protected to BGV A3

Connection:
for 2 cables up to 5 x 25 mm²

Connection and load values:
Pre-fuse max. 100 A
I_{nA} 44 A
RDF 0.7

Enclosure size

530 x 400 x 220 mm (H x W x D)

Part no.

83744

Title

Receptacle combination, flush mounted

Fitted with

1 CEE 16 A, 5 p, 400 V
4 SCHUKO® 16 A, 230 V

Fusing:
1 RCD 40 A, 4 p, 0.03 A
1 MCB 16 A, 3 p , C
4 MCB's 16 A, 1 p, B

Enclosure:
front door and trim frame (from flat finished stainless steel): lockable with cylinder, lockable even when plugs are connected, door stop on the right
flush mounted enclosure (from stainless steel):
cable entry bush 3 x top, 2 x bottom,
suitable for cable diameters 13 to 49 mm

Connection:
for 2 cables up to 5 x 25 mm²

Front door and trim frame:
580 x 420 mm (H x W)

Connection and load values:
Pre-fuse max. 40 A
I_{nA} 40 A
RDF 0.8

Enclosure size

520 x 360 x 200 mm (H x W x D)

Part no.

84373

Title

Receptacle combination, flush mounted

Fitted with

1 CEE 32 A, 5 p, 400 V
1 CEE 16 A, 5 p, 400 V
2 SCHUKO® 16 A, 230 V

Fusing:
1 RCD 63 A, 4 p, 0.03 A
2 MCB's 16 A, 1 p, B

Enclosure:
front door and trim frame (from flat finished stainless steel): lockable with cylinder, lockable even when plugs are connected, door stop on the right
flush mounted enclosure (from stainless steel):
cable entry bush 3 x top, 2 x bottom,
suitable for cable diameters 13 to 49 mm

Connection:
for 2 cables up to 5 x 25 mm²

Front door and trim frame:
580 x 420 mm (H x W)

Connection and load values:
Pre-fuse max. 100 A
I_{nA} 44 A
RDF 0.7

Enclosure size

520 x 360 x 200 mm (H x W x D)

Part no.

84374

Power posts from steel tube. Receptacles IP 44 or IP 67 can be fitted.
For drawings and dimensions see page 119.

Title
Power post
Fitted with
1 CEE 16 A, 5 p, 400 V 2 SCHUKO® 16 A, 230 V
Fusing: 1 MCB 16 A, 3 p, C 1 MCB 16 A, 1 p, B
Enclosure: Wall thickness 4.0 mm, hot-dip galvanised, powder coated, colour: red, hinged supply aperture with safety lock, weight: approx. 45 kg Aperture at bottom: (H x W) 50 x 40 mm. Fixing flange: Ø 360 mm with 4 fixing holes 15.0 mm. For fixing to an existing fundament.
Cable entry: 2 x M 25 open at the top
Connection: for 1 cable up to 5 x 6 mm^2
Connection and load values: Pre-fuse max. 63 A I_{nA} 22 A RDF 0.7
Enclosure size
1050 x 220 mm (H x Ø, inside)
Part no.
84335

Title
Power post
Fitted with
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 2 SCHUKO® 16 A, 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 16 A, 1 p, B
Enclosure: Wall thickness 4.5 mm, electro galvanised, yellow chromated and powder coated, colour: anthracite (RAL 7016), hinged supply aperture with safety lock, weight: approx. 60 kg Aperture at bottom: (H x W) 60 x 70 mm. Fixing flange: Ø 390 mm with 4 fixing holes 15.5 mm. For fixing to an existing fundament.
Cable entry: 2 x M 32 open at the top, 1 x M 32 pluged at the top
Connection: for 1 cable up to 5 x 10 mm^2
Connection and load values: Pre-fuse max. 40 A I_{nA} 40 A RDF 0.75
Enclosure size
1050 x 273 mm (H x Ø, inside)
Part no.
83685

Title
Power post
Fitted with
1 CEE 63 A, 5 p, 400 V 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 2 SCHUKO® 16 A, 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 16 A, 1 p, B
Enclosure: Wall thickness 4.5 mm, hot-dip galvanised, wet painted, colour: anthracite iron glitter DB 703, hinged supply aperture with safety lock, weight: approx. 100 kg Aperture at bottom: (H x W) 50 x 100 mm. Fixing flange: Ø 450 mm with 4 fixing holes 15 mm. For fixing to an existing fundament.
Cable entry: 2 x M 40 at the bottom with glands
Connection: for 2 cables up to 5 x 25 mm^2
Connection and load values: Pre-fuse max. 63 A I_{nA} 63 A RDF 0.7
Enclosure size
1400 x 325 mm (H x Ø, inside)
Part no.
83722

CombiTOWER from stainless steel (material 1.4301), material 1.4571 on request.
For drawings and dimensions see page 119.

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

SCHUKO® to DIN 49440-1, 2 p+E, 230 V. Other versions available on request. For drawings and dimensions see page 107 - 119.

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

IP 54
Std. Pack. Qty: 100/20
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 receptacle SCHUKO® with front gasket
with hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm²

IP 54
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 receptacle SCHUKO®
without hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm²

IP 20
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 receptacle SCHUKO® or grounding-type
French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², receptacles can be linked in a row vertically. Slide on top, slot on bottom of enclosure

IP 44
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	
blue	16	230	✓	10092	

Panel mounted receptacle 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

IP 44
Std. Pack. Qty: 10
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	11182

Panel mounted receptacle grounding-type
French/Belgian system (NF), without hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm²

IP 20
Std. Pack. Qty: 100/20
Drawing: 1 MB 450

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
blue	16	230		11611	
blue	16	230	✓	11661	11681

SCHUKO® to DIN 49440-1, 2 p+E, 230 V. Other versions available on request. For drawings and dimensions see page 107 - 119.

Panel mounted receptacle grounding-type
British standard, with hinged lid and seal; flange 50 x 50 mm, fixing holes 38 x 38 mm

IP 44
Std. Pack. Qty: 20
Drawing: 1 MB 584

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
blue	13	230	✓		10718

Panel mounted receptacle grounding-type
British standard, matching cover frame, with hinged lid and seal

IP 44
Std. Pack. Qty: 20
Drawing: 1 MB 422

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
black	13	230	✓		10713

Panel mounted receptacle NEMA
USA and Canada, with hinged lid

IP 44
Std. Pack. Qty: 20
Drawing: 1 MB 421

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
blue	15	125			10087

Plug SCHUKO®
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

IP 44
Std. Pack. Qty: 20

Colour	Ampere	Voltage	Part no.
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

Connector SCHUKO®
with grommet and lid for cables up to 3 x 2.5 mm² up to H07RN-F

IP 44
Std. Pack. Qty: 10

Colour	Ampere	Voltage	Part no.
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

to DIN 49442/43 and DIN VDE 0620. Other versions available on request. For drawings and dimensions see page 107 - 119.

Wall mounted receptacle SCHUKO®
with hinged bayonet lock lid

IP 68
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 receptacle SCHUKO® or NF
with hinged bayonet lock lid, rectangular flange, four fixing holes or two stamped recesses for quick perforation

IP 68
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
NF					
blue / grey	16	230	✓	17060	17064

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

IP 68
Std. Pack. Qty: 10

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

IP 68
Std. Pack. Qty: 10

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

Plugs and sockets for harsh conditions - with the hammer symbol.

Made of high-grade plastic. Acc. to VDE 0620 for harsh conditions. Regulated acc. to VDE 0100, part 704 for construction sites, acc. to VDE 0105, part 15 for agriculture.

Resistant against oil, grease and fuel. Long lasting due to high resistance against abrasion and breaking strength.

Durable due to resistance against embrittlement. Resistant against temperature from -25 °C up to +100 °C.

7 pole for multifunctional applications.

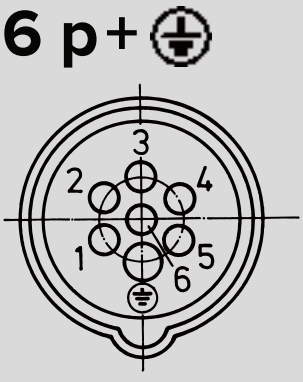
These 7 pole plugs and sockets provide solutions where there are multifunctional requirements in industry, farming and commerce.

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



6 p + ⏚

Special plugs and sockets ■ 7 pole

to DIN VDE 0623-1, EN 60309-1. Colour: electric grey and/or colour code. Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

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

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 43/257

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

IP 67
Std. Pack. Qty: 10
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	9590	9591	9592

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

IP 67
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
		with 6 pole switch:		
16	7		7306	
32	7		7307	
		with 3 pole switch:		
16	7		5785	
32	7		6106	

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

IP 44
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	739	740	1050

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

IP 67
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	3775	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

IP 44
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 VDE 0623-1, EN 60309-1. Colour: electric grey and/or colour code. Other voltages and frequencies available on request.
For drawings and dimensions see page 107 - 119.

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

IP 67
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	3776	3777	3913
32	7	2405	2324	2213

Wall mounted inlet
highly heat resistant contact carrier, nickel plated contacts

IP 44
Std. Pack. Qty: 10
Drawing: 2 MB 147

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7		2166	
32	7		2167	

Panel mounted inlet
highly heat resistant contact carrier, nickel plated contacts

IP 44
Std. Pack. Qty: 10
Drawing: 2 MB 71

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	749	750	1075
32	7	751	752	1080

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

IP 67
Std. Pack. Qty: 10
Drawing: 2 MB 203

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	3779	3914	3780
32	7	3781	3915	3782

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

IP 44
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	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

IP 67
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	3783	3916	3784
32	7	2406	2255	2460

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Wall mounted receptacle

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 294

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	1825	1831		1829
16	3	1832	1837	1835	
32	2	1838	1844		1842
32	3	1845	1850	1848	

Wall mounted receptacle

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 137

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	577	578		583
16	3	584	585	586	
32	2	590	591		596
32	3	597	598	599	

Panel mounted receptacle
flange 55 x 55 mm, straight

IP 44
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 receptacle
flange 75 x 75 mm, straight

IP 44
Std. Pack. Qty: 10
Drawing: 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	1823	
32	2	1693	3290		2488A
32	3	1594	1595	1579	

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

IP 44
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	2860	
32	2	1271	2864		2869
32	3	2870	1273	2852	

Panel mounted receptacle
20° inclination

IP 44
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	

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Plug
with cable gland

IP 44
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

IP 44
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	1965	
32	2	1968	1974		1972
32	3	1975	1980	1978	

Connector
with cable gland

IP 44
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	720A	721A		726A
32	3	727A	728A	729A	

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).

IEC 60309-1/2. Enclosure material receptacle: Glass-fibre reinforced polyester. Enclosure material plug: impact resistant polyamide. Identification acc. to 94/9/EG: II 3D Ex tD A22 T80 °C, permissible ambient temperature: -25 °C to +45 °C, dust ignition protection type provided: Ex de IIC T6. For drawings and dimensions see page 107 - 119.

Wall mounted receptacle
all-pole on/off switching by turning the plug, cable entry 1 x Ex-cable gland and 1 x Ex-screw plug made of plastic at bottom

IP 66
Std. Pack. Qty: 1
Drawing: D22516-7a

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
16	3		7806		
16	4			7816	
16	5			7826	
32	4			7836	
32	5			7846	

Wall mounted receptacle
all-pole on/off switching with handle, cable entry 1 x Ex-cable gland and 1 x Ex-screw plug made of plastic at bottom

IP 66
Std. Pack. Qty: 1
Drawing: D22518-9a

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
63	4			7856	
63	5			7866	
125	4			7876	
125	5			7886	

Ex-cable gland
black, single packaging, only necessary for through wiring, standard wall mounted receptacle include already 1 Ex-cable gland for 1 supply cable

Std. Pack. Qty: 1

Description		Part no.
(M 25, for 16 A,	capacity of terminal: 8 - 17 mm)	41588
(M 40, for 32 A,	capacity of terminal: 17 - 28 mm)	41590
(M 50, for 63 A + 125 A	capacity of terminal: 22 - 35 mm)	41591

Plug

IP 66
Std. Pack. Qty: 1

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
16	3		7706		
16	4			7716	
16	5			7726	
32	4			7736	
32	5			7746	

Plug

IP 66
Std. Pack. Qty: 1

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
63	4			7756	
63	5			7766	
125	4			7776	
125	5			7786	

Heavy duty versions 200 A to 400 A for industry.

The heavy duty range supplements the plugs and sockets currently covered by EN 60309-2, making available rated currents of 200 A, 250 A and 400 A and rated voltages of up to 1000 V.
Their design is based on the following standards: IEC 309-1, EN 60309-1, DIN VDE 0623, part 1.

Shock hazard protected using contact covers.

Contact bushings on receptacles and connectors are fitted with covers which positively prevent getting into contact with live bushings. Shockhazard protected in accordance with IEC 309-1/ EN 60309-1.

Mechanical lock.

For mobile consumers of rated current > 125 A we have included a heavy duty range with 200 A, 250 A and 400 A in our programme. This can be supplied for rated voltages of 230 V to 1000 V and seawater resistant.

The heavy duty range is suitable for use in very harsh conditions, e.g. building sites:

- drilling rigs
- drilling and conveying systems
- tunnel construction
- quarries
- gravel pits
- strip mining
- container terminals and crane connections in harbours
- airports
- for versatile power supply at large-scale indoor and outdoor events
- power supply to market places
- seawater resistant design are available on request

Connection terminals in plugs and sockets 200 A for conductor cross sections of 70 to 150 mm², 250 A and 400 A for conductor cross sections of 70 to 185 mm² or with flexible conductors, and 70 to 240 mm² with single or multiple strand conductors.

Surface protection for contacts.

Contacts 200 A up to 400 A are protected against corrosive atmosphere by silver plating. Contacts (250 A and 400 A) are accessible from the front side so that there is no need to undo the connection cable when exchanging damaged parts.

Plugs, connectors, inlets and wall mounted receptacles are supplied with flared bushings for cables of diameter 45 to 65 mm. The outside cable grip facilitates connection.

Two pilot contacts are a standard fitting in all plugs and sockets. The pilot contacts lag when the plug is inserted and lead when it is withdrawn. If required, plugs and sockets can be electrically interlocked.

Special plugs and sockets ■ 200 A up to 400 A

Design based on IEC 309-1, EN 60309-1, DIN VDE 0623 part 1. Other voltages and frequencies available on request.
For drawings and dimensions see page 107 - 119.

Wall mounted receptacle
with cable gland, seawater resistant design available on request

IP 67
Std. Pack. Qty: 1
200 A Drawing: 1 MB 385
250 + 400 A Drawing: 1 MB 389/1

A	P	400 V 50 a. 60 Hz
200	4	75221
200	5	75226
250	4	75021
250	5	75111
400	4	75026
400	5	75116

Wall mounted receptacle
switched, mechanical interlock, seawater resistant design available on request

IP 55
Std. Pack. Qty: 1
200 A Drawing: 1 MB 386
250 + 400 A Drawing: 1 MB 403/2

A	P	400 V 50 a. 60 Hz
200	4	75231
200	5	75236
250	4	75031
250	5	75121
400	4	75036
400	5	75126

Wall mounted receptacle
switched, electrical interlock, seawater resistant design available on request

IP 55
Std. Pack. Qty: 1
200 A Drawing: 1 MB 387
250 + 400 A Drawing: 1 MB 404/2

A	P	400 V 50 a. 60 Hz
200	4	75271
200	5	75276
250	4	75437
250	5	75441
400	4	75174
400	5	75448

Panel mounted receptacle
seawater resistant design available on request

IP 67
Std. Pack. Qty: 1
200 A Drawing: 1 MB 384
250 + 400 A Drawing: 1 MB 388/1

A	P	400 V 50 a. 60 Hz
200	4	75241
200	5	75246
250	4	75041
250	5	75131
400	4	75046
400	5	75136

Panel mounted receptacle
15° inclination, seawater resistant design available on request

IP 67
Std. Pack. Qty: 1
200 A Drawing: 1 MB 636
250 + 400 A Drawing: 1 MB 637

A	P	400 V 50 a. 60 Hz
200	4	75053
200	5	75058
250	4	75063
250	5	75068
400	4	75073
400	5	75078

Plug
with cable gland, seawater resistant design available on request

IP 67
Std. Pack. Qty: 1

A	P	400 V 50 e 60 Hz
200	4	75201
200	5	75206
250	4	75001
250	5	75091
400	4	75006
400	5	75096

Special plugs and sockets ■ 200 A up to 400 A

Design based on IEC 309-1, EN 60309-1, DIN VDE 0623 part 1. Other voltages and frequencies available on request.
For drawings and dimensions see page 107 - 119.

Inlet
with cable gland, seawater resistant design are available on request

IP 67
Std. Pack. Qty: 1
200 A Drawing: 2 MB 197
250 + 400 A Drawing: 2 MB 200/1

A	P	400 V 50 a. 60 Hz
200	4	75251
200	5	75256
250	4	75172
250	5	75173
400	4	75389
400	5	75398

Panel mounted inlet
seawater resistant design are available on request

IP 67
Std. Pack. Qty: 1
200 A Drawing: 2 MB 196
250 + 400 A Drawing: 2 MB 199/1

A	P	400 V 50 a. 60 Hz
200	4	75261
200	5	75266
250	4	75284
250	5	75287
400	4	75291
400	5	75295

Panel mounted receptacle
15° inclination, seawater resistant design are available on request

IP 67
Std. Pack. Qty: 1
200 A Drawing: 2 MB 247
250 + 400 A Drawing: 2 MB 248

A	P	400 V 50 a. 60 Hz
200	4	75311
200	5	75316
250	4	75321
250	5	75326
400	4	75331
400	5	75336

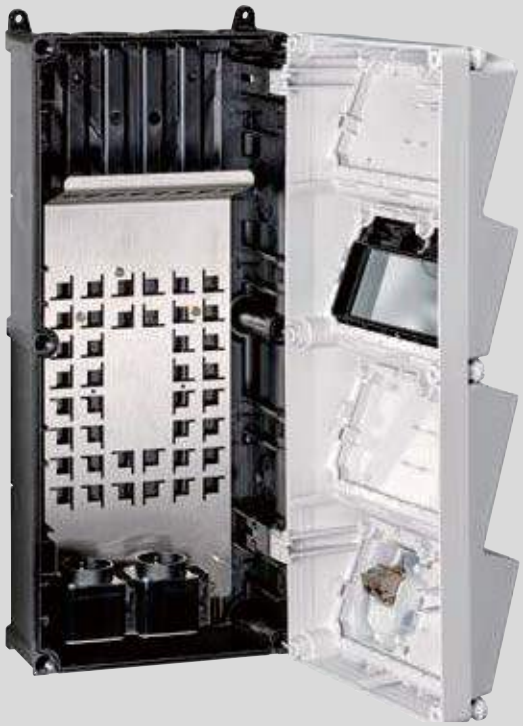
Connector
with cable gland, seawater resistant design are available on request

IP 67
Std. Pack. Qty: 1

A	P	400 V 50 a. 60 Hz
200	4	75211
200	5	75216
250	4	75011
250	5	75101
400	4	75016
400	5	75106

Protection type IP 44.
Pre-wired for installation, enclosure front cover electric 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® receptacles 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® receptacles for the power supply of active network components

1 Cepex data port socket (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.

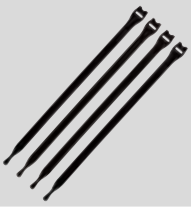
25405

AMAXX® cable gland set

enclosed with each media distributor
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

AMAXX® standard screw set

enclosed with each media distributor
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



Velcro connector

enclosed with each media distributor
Set of 4 Velcro connectors for fastening installed components on the base plate

Protection type IP 44.
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 receptacles 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 IP 44 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

Compact network distributor

Fitted with

1 Cepex data port socket with 2 RJ45 connection modules, type E-DAT module, port, Cat.6, brand: BTR

2 SCHUKO® 16 A, 230 V

Cable entry:
2 M 25 at the top (closed),
1 M 25 at the bottom (with cable gland)
1 M 25 2 x 8 at the bottom (with cable gland seal insert for 2 individual cables up to 8 mm Ø)

Compact network distributor
also available with 4 SCHUKO®
Enclosure size:
160 x 245 mm (H x W)
(part no. 25715)

Enclosure size

118 x 170 mm (H x W)

Part no.

25705

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 BTR - 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.

25102GE yellow
25102 grey

Colours: grey (RAL 7035), alpine white (RAL 9010), silver (RAL 9006), black (RAL 9005). For drawings and dimensions see page 107 - 119.

Cepex enclosure, grey
as wall mounted receptacle, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index “G“

IP 44
Std. Pack. Qty: 5
Drawing: 1 MB 313

Brand	Type	Data module	Part no.
AMP	Twist	—	4350 [1]
AMP	Jack	2 x 41457	4360
AMP	CO Plus	—	4370 *
BTR	E-DAT module	2 x 41455	4340 [3]
Rutenbeck	iso-8/8 Up0S	1 x 41492	4320
TKM	KDMF	1 x 41452	4300 [1]
Reichle & De-Massari	Module Real 10	2 x 25056	4375 [2]

Cepex enclosure, grey
as panel mounted receptacle, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index “G“

IP 44
Std. Pack. Qty: 5
Drawing: 1 MB 305

Brand	Type	Data module	Part no.
AMP	Twist	—	4352 [1]
AMP	Jack	2 x 41457	4362
AMP	CO Plus	—	4372 *
BTR	E-DAT module	2 x 41455	4342 [3]
Rutenbeck	iso-8/8 Up0S	1 x 41492	4322
TKM	KDMF	1 x 41452	4302 [1]
Reichle & De-Massari	Module Real 10	2 x 25056	4377 [2]

Cepex enclosure, alpine white
as panel mounted receptacle, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index “G“

IP 44
Std. Pack. Qty: 5
Drawing: 1 MB 305

Brand	Type	Data module	Part no.
AMP	Twist	—	4354 [1]
AMP	Jack	2 x 41457	4364
AMP	CO Plus	—	4374 *
BTR	E-DAT module	2 x 41455	4344 [3]
Rutenbeck	iso-8/8 Up0S	1 x 41492	4324
TKM	KDMF	1 x 41452	4304 [1]

Cepex enclosure, silver
as panel mounted receptacle, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index “G“

IP 44
Std. Pack. Qty: 5
Drawing: 1 MB 305

Brand	Type	Data module	Part no.
Rutenbeck	iso-8/8 Up0S	—	4326

Cepex enclosure, black
as panel mounted receptacle, for installation of RJ45 data port sockets, 2 keys, identical lock: Part no. + Index “G“

IP 44
Std. Pack. Qty: 5
Drawing: 1 MB 305

Brand	Type	Data module	Part no.
AMP	Twist	—	4366 [1]
AMP	Jack	2 x 41457	4365
AMP	CO Plus	—	4379 *
BTR	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 AMP 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 receptacle																		Cepex surface-mounted receptacle							
Brand	Type	Part no. data module	Part no. enclosure Grey (RAL 7035)							Part no. enclosure Alpine white (RAL 9010)						Part no. enclosure Black (RAL 9005)						Part no. enclo-sure Silver (RAL 9006)	Part no. enclosure Grey (RAL 7035)						
			4302	4322	4342	4352	4362	4372	4377*	4304	4324	4344	4354	4364	4374	4345	4365	4366	4367	4378*	4379	4326	4300	4320	4340	4350	4360	4370	4375*
AMP	**Jack**	**41457**					■							■			■										■		
AMP	CO Plus							■							■						■							■	
Telegärtner	AMJ 45 Up/O		■			■				■			■					■					■			■			
Telegärtner	AMJ/UMJ module								■											■									■
Nexans	LANmark connector		■			■				■			■					■					■			■			
BTR	**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

Data module
BTR, 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: 20

Part no.
41455

Data module
AMP, type: RJ45 connection module (type Cat.6 SL Jack), suitable for Cepex data port sockets, part no. 4360 and versions

Std. Pack. Qty: 12

Part no.
41457

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 UP0S), 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: 10

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: 10

Part no.
25042

Plugs and sockets for reefer containers.

Tested safety. Internationally standardised refrigerated containers.

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 receptacles, switched and interlocked.

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

Receptacle combinations with receptacles, switched and interlocked.

380-440 V

3 h

3 p+⏚

Special plugs and sockets ■ For reefer containers

Ground contact at 3 o'clock position conforming to DIN VDE 0623, EN 60309-2. Highly resistant to chemicals.
Other versions available on request. For drawings and dimensions see page 107 - 119.

Wall mounted receptacle
highly resistant to chemicals, with highly heat resistant contact carrier and nickel plated contacts

IP 67
Std. Pack. Qty: 10
Drawing: 1 MB 622

A	P	380 - 440 V 50 a. 60 Hz
32	4	9562

Wall mounted receptacle
with highly heat resistant contact carrier and nickel plated contacts, switched, with mechanical DUO-interlock

IP 67
Std. Pack. Qty: 1
Drawing: 1 MB 207

A	P	380 - 440 V 50 a. 60 Hz
32	4	5792A

Wall mounted receptacle
with highly heat resistant contact carrier and nickel plated contacts, switched, with mechanical DUO-interlock and DIN rail

IP 67
Std. Pack. Qty: 2
Drawing: 1 MB 181/620

A	P	380 - 440 V 50 a. 60 Hz
32	4	5946A

Panel mounted receptacle
with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight

IP 67
Std. Pack. Qty: 10
Drawing: 1 MB 141

A	P	380 - 440 V 50 a. 60 Hz
32	4	2123A

Panel mounted receptacle
switched, with mechanical DUO-interlock, with highly heat resistant contact carrier and nickel plated contacts, horizontal design, with load break switch KH32 3 p

IP 67
Std. Pack. Qty: 5
Drawing: 5 MB 57

A	P	380 - 440 V 50 a. 60 Hz
32	4	7538

Plug AM-TOP
with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body

IP 67
Std. Pack. Qty: 10

A	P	380 - 440 V 50 a. 60 Hz
32	4	2175B

Ground contact at 3 o'clock position conforming to DIN VDE 0623, EN 60309-2. Other versions available on request.
For drawings and dimensions see page 107 - 119.

Phase sequence test plug
earthing contact in the 3 o'clock position, conforming to VDE 0413 part 7

IP 44
Std. Pack. Qty: 5

A	P	380 - 440 V 50 a. 60 Hz
32	4	3718

Panel mounted inlet
with highly heat resistant contact carrier and nickel plated contacts, with hinged lid

IP 67
Std. Pack. Qty: 10
Drawing: 2 MB 40

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

IP 67
Std. Pack. Qty: 10

A	P	380 - 440 V 50 a. 60 Hz
32	4	2177A

Protective cap
for plugs 32 A, 4 p

Std. Pack. Qty: 50

Part no.
40841

Houlder
for plugs 32 A, 4 p

Std. Pack. Qty: 10

Part no.
41342

Special plugs and sockets ■ For reefer containers

Protection type IP 67
Ground contact at 3 o'clock position conforming to DIN VDE 0623, EN 60309-2. Other versions available on request. Receptacles switched, with mechanical DUO interlock with highly heat resistant contact carrier and nickel plated contacts. For drawings and dimensions see page 116.
It is self - evident for us to offer customized solutions which are especially made for your demand. Please contact us!

AIDAbella, Jos. L. Meyer-Werft, Papenburg, Germany

CEE receptacles

3 CEE 32 A, 4 p, 380-440 V, 3 h
For reefer containers, switched, with mechanical DUO-interlock

CEE receptacles

Receptacles SCHUKO®

Fusing

3 MCB's 32 A, 3 p, C
1 earth bolt M 10, V2A

Connection

For 1 cable up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 100 A
I_{nA} 58 A
RDF 0.6

Enclosure size

520 x 225 mm (H x W)

Part no.

940027

Jos. L. Meyer-Werft, Papenburg, Germany

to DIN EN 60309-2, colour: bronze-green RAL 6031-F9. Other voltages and frequencies available on request.
For drawings and dimensions see page 107 - 119.

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 receptacle TM
highly heat resistant contact carrier, nickel plated contacts, straight, (form AS)

IP 67
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	**23151** AS002	**20458** AS001	**23163** AS003	**23175** AS004
32	3	**23293A** AS042			
32	5	**23152** AS006	**20459** AS005	**23164** AS007	**23176** AS008
63	5	**23153** AS010	**20460** AS009	**23165** AS011	**23177** AS012

Panel mounted receptacle TM
highly heat resistant contact carrier, nickel plated contacts, straight, (form AS)

IP 67
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 receptacle TM
highly heat resistant contact carrier, nickel plated contacts, 20° inclination, (form BS)

IP 67
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	**24641** BS002	**24640** BS001	**24642** BS003	**24643** BS004
32	3	**24730** BS042			
32	5	**24741** BS006	**24740** BS005	**24742** BS007	**24743** BS008
63	5	**24841** BS010	**24840** BS009	**24842** BS011	**24843** BS012

Panel mounted receptacle TM
highly heat resistant contact carrier, nickel plated contacts, 15° inclination, (form BS)

IP 67
Std. Pack. Qty: 5
Drawing: 1 MB 339

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		

to DIN EN 60309-2, colour: bronze-green RAL 6031-F9. Other voltages and frequencies available on request.

Plug AM-TOP® TM
highly heat resistant contact carrier, nickel plated contacts, with protective cap, (form CP)

IP 67
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	**24673** CP004
32	3	**24760** CP042			
32	5	**24771** CP006	**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 sealing, strain relief and protection against kinking, enclosure with thread lock, two safety slides, with protective cap, (form CP)

IP 67
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)

IP 67
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)

IP 67
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 AM-TOP® TM
highly heat resistant contact carrier, nickel plated contacts, with protective cap, (form DS)

IP 67
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	**24688** DS004
32	3	**24775** DS042			
32	5	**24786** DS006	**24785** DS005	**24787** DS007	**24788** DS008

Connector PowerTOP® Xtra TM
rubberised grip area, frame terminals, highly heat resistant contact carrier, nickel plated contacts, cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock, two safety slides, with protective cap, (form DS)

IP 67
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

Event and entertainment technology. Plugs and sockets for stage, TV, radio and open air.

The MENNEKES product range for event technology extends from empty enclsoures, receptacles, plugs and sockets to assembled receptacle combinations; a comprehensive assortment. The products have been developed for harsh continuous use and guarantee the highest level of safety under the highest load.

You will find SCHUKO® and grounding-type plugs and sockets in black on pages 68 - 69.

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Panel mounted receptacle
straight, flange: 55 x 55 mm,
fixing hole spacing: 45 x 45 mm

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 426

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
16	3		1629ZC	

Panel mounted receptacle
straight, flange: 72 x 65 mm,
fixing hole spacing: 52 x 52 mm

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 259

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
16	4			1387ZA

Panel mounted receptacle
straight, nickel plated contacts,
flange: 75 x 75 mm,
fixing hole spacing: 60 x 60 mm

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 247

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
16	5			1385ZI
32	3		1395ZD	
32	5			22071ZA

Panel mounted receptacle
straight

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 211

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
63	3		1261AE	
63	5			1252AC

Panel mounted receptacle
RAPIDO
screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 468

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
16	3		997AB	

Panel mounted receptacle
RAPIDO
screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 70 mm

IP 44
Std. Pack. Qty: 10
Drawing: 1 MB 468

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
32	3		995AB	

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 107 - 119.

Plug AM-TOP
single part body, with highly heat resistant contact carrier, cable gland and sealing, part no. 21421ZA and 260ZD: nickel plated contacts

IP 44
Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
16	3	22737ZA	150ZA	
16	4			252SW
16	5			21421ZA
32	3		260ZD	
32	5			4SW

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

IP 67
Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
63	5			13260
125	5			13261

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

IP 44
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
16	5			853SW
32	5			24152ZA

Connector AM-TOP
single part body, with highly heat resistant contact carrier, cable gland and sealing, part no. 509ZC, 21422ZB and 522ZB: nickel plated contacts

IP 44
Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
16	3	509ZC	182ZA	
16	4			514SW
16	5			21422ZB
32	3		522ZB	
32	5			6SW

Connector PowerTOP Xtra
highly heat resistant contact carrier, frame terminals, gland and external cable grip

IP 67
Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz
63	5			14260P
125	5			14261P

Notice:

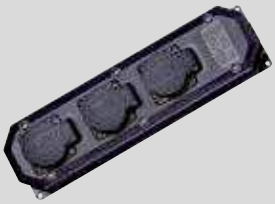
The black colour of the MENNEKES products for the entertainment sector is not a colour code. The nominal voltage is shown on the label and the colour of the product or enclosure is not an indication of the voltage of the components!

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 117 - 118.

Receptacle strip
with cable grip, with hanging clip, cable entry: 1 x M 20 plugged at the top, 1 x M 20 with gland at the bottom, with 1 m of feeder cable H07RN-F3G1.5 with plug SCHUKO®

IP 44
Std. Pack. Qty: 1
Drawing: 1 MB 284

Fitted with	Part no.
3 SCHUKO® 16 A, 230 V	9200048



Receptacle strip
with cable grip, with hanging clip, cable entry: 1 x M 20 plugged at the top, 1 x M 20 with gland at the bottom, without feeder cable

IP 44
Std. Pack. Qty: 1
Drawing: 1 MB 284

Fitted with	Part no.
3 SCHUKO® 16 A, 230 V	9203230

Receptacle strip EverGUM
with handle for hanging, for wall mounting, portable, terminal for 1 cable up to 5 x 10 mm²

IP 44
Std. Pack. Qty: 1
Drawing 5 MB 44

Fitted with	Part no.
1 CEE 16 A, 5 p, 400 V 1 CEE 16 A, 3 p, 230 V 2 SCHUKO® 16 A, 230 V	7106889
1 CEE 16 A, 5 p, 400 V 1 CEE 16 A, 3 p, 230 V 2 British standard 13 A, 230 V	7106783

Receptacle combination EverGUM
solid rubber compact portable, stackable, with hinged cover, with stainless steel quick release, feeder cable: 2 m H07RN-F5G4 and 1 CEE-plug 32 A, 5 p, 400 V

IP 44
Std. Pack. Qty: 1
Drawing 5 MB 48a

Fitted with	Part no.
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 230 V 4 SCHUKO® 16 A, 2 p+E, 230 V 1 MCB 16 A, 3 p, C 4 MCB´s 16 A, 1 p, C	7408884
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 230 V 4 British standard 13 A, 230 V 1 MCB 16 A, 3 p, C 4 MCB´s 13 A, 1 p, C	7408884GB

Receptacle combination EverGUM
solid rubber maxi portable, stackable, with hinged cover, with two stainless steel quick release, feeder cable: 3 m H07RNF5G10 and 1 CEE-plug 63 A, 5 p, 400 V

IP 44
Std. Pack. Qty: 1
Drawing 5 MB 43

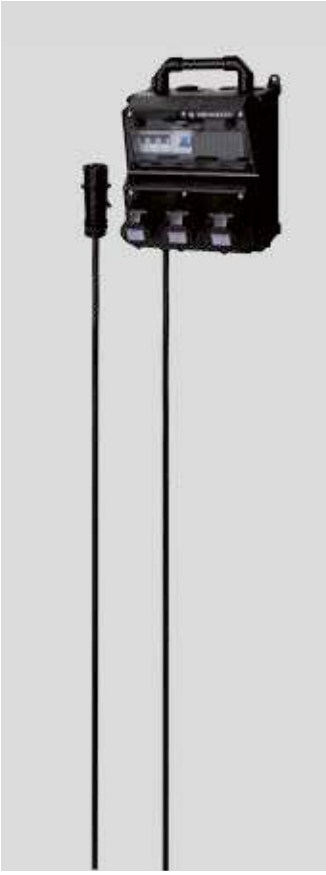
Fitted with	Part no.
1 CEE 63 A, 5 p, 400 V, 1 CEE 32 A, 5 p, 400 V, 1 CEE 16 A, 5 p, 230 V, 4 SCHUKO® 16 A, 2 p+E, 230 V 1 RCD 63 A, 4 p, 0.03 A, 1 MCB 32 A, 3 p, C, 1 MCB 16 A, 3 p, C, 2 MCB´s 16 A, 1 p, C	7513001
1 CEE 63 A, 5 p, 400 V, 1 CEE 32 A, 5 p, 400 V, 1 CEE 16 A, 5 p, 230 V, 4 British standard 13 A, 230 V, 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	7513001GB

Hinged window
without protective cover, with knurled screws

IP 67
Std. Pack. Qty: 50
Drawing 6 MB 14/15/16

Fitted with	Part no.
6 modules: Window colour: smoked glass	40985ZB
8 modules: Window colour: smoked glass	40978ZA
12 modules: Window colour: smoked glass	40980ZC

Enclosure made of black polycarbonate, pre-wired for installation, IP 44,
enclosure front cover hinged to the side. Fusing behind a transparent cover.
For drawings and dimensions see page 116.



CEE receptacles

CEE receptacles
3 CEE 16 A, 3 p, 230 V

Receptacles SCHUKO®

Fusing
1 RCD 25 A, 2 p, 0.03 A
3 MCB´s 16 A, 1 p+N, C

Connection
1.5 m H07RN-F3G2.5
with plug CEE 16 A, 3 p, 230 V

Connection and load values
Pre-fuse max. 16 A
I_{nA} 16 A
RDF 1

Enclosure size
260 x 225 mm (H x W)

Part no.
921470SW

CEE receptacles

CEE receptacles
6 CEE 16 A, 3 p, 230 V

Receptacles SCHUKO®

Fusing
1 RCD 40 A, 4 p, 0.03 A
6 MCB´s 16 A, 1 p+N, C

Connection
1 m H07RN-F5G4
with plug CEE 32 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 32 A
I_{nA} 24 A
RDF 0.75

Enclosure size
390 x 225 mm (H x W)

Part no.
931553SW

CEE receptacles
2 CEE 32 A, 5 p, 400 V

CEE receptacles
3 CEE 16 A, 3 p, 230 V

Receptacles SCHUKO®

Fusing
1 RCD 63 A, 4 p, 0.03 A
2 MCB´s 32 A, 4 p, C
3 MCB´s 16 A, 1 p+N, C

Connection
1.5 m H07RN-F5G10
with plug CEE 63 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 63 A
I_{nA} 48 A
RDF 0.6

Enclosure size
520 x 225 mm (H x W)

Part no.
941562SW

CEE receptacles
2 CEE 32 A, 5 p, 400 V

CEE receptacles
6 CEE 16 A, 3 p, 230 V

Receptacles SCHUKO®

Fusing
1 RCD 63 A, 4 p, 0.03 A
2 MCB´s 32 A, 4 p, C
6 MCB´s 16 A, 1 p+N, C

Connection
2 m H07RN-F5G10
with plug CEE 63 A, 5 p, 400 V

Connection and load values
Pre-fuse max. 63 A
I_{nA} 58 A
RDF 0.6

Enclosure size
650 x 225 mm (H x W)

Part no.
951745SW

BMW motorcycle plant, Berlin – Germany

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

Formula 1 circuit, Manama – Bahrain

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

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

Football Stadium „Signal Iduna Park“, Dortmund – Germany

Olympia Stadium, Berlin – Germany

Linea 1, Metro de Lima, Lima – Peru

Container Terminal, Le Havre – France

Port of Salalah – Oman

Container Terminal, Altenwerder – Germany

Ceramica Marca Corona, Sassuolo – Italy

Bauernmarkt, (Market Square), Hannover – Germany

Brunnenmarkt, (Market Square), Vienna – Austria

Barbara Erzbergbau GmbH, (Underground Ore Mining),
Porta Westfalica – Germany

Kali + Salz GmbH, (Salt Mine), Plant Zielitz – Germany

Internet Data Center – South Korea

WIKUS-Sägenfabrik (Sawing factory), Spangenberg – Germany

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 60309-1
EN 60309-2
IEC 60309-1/VDE 0623 part 1
IEC 60309-2/VDE 0623 part 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 receptacles for low voltage systems have become the standard all over the world. Basically suitable for indoor and outdoor applications in industry, they are also used on building sites, farms, commercial premises, for caravans, mobile homes, boats, yachts and in households. CEE plugs and 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 2006/95 EG

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.

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 „CE“ .

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

New standard for low voltage switchgear and control gear assemblies - IEC 61439

The new 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 is valid until Sept. 2014. After this specified date, the use of IEC 61439 is mandatory (for all new designed switchgear and control gear assemblies) the planning and documentation must be executed 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 new IEC 61439 consists of the following parts:

New IEC ...	Replaces IEC ...
61439-1 : General definitions	60439-1
61439-2 : Power switchgear and control gear assemblies	60439-1
61439-3 : Distribution boards	60439-3
61439-4 : Assemblies for construction sites	60439-4
61439-5 : Public cable distribution cabinets	60439-5
61439-6 : Busbar trunking systems	60439-2
61439-7 : Draft – specific installations on public sites, marinas, campsites, market squares, and EV charging stations	60439-7

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 101 - 103. 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 / enterprise 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).

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

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 a 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 IEC 61439 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

- Standard definition I_{nA}

The rated current of the switchgear and control gear assembly, I_{nA}, is the total current that the main busbar can distribute in the respective installation of the assembly, without exceeding the temperature limit values mentioned in IEC 61439-1 section 9.2!

The current, I_{nA}, is considered to be the maximum current that the assembly can distribute via its outgoing circuits at 100 % continuous duty (CD).

- Standard definition I_{nc}

The rated current of an electric circuit is the value of the current that can be carried by this electric circuit under standard operating conditions when it is operated alone. The assembly must be capable of carrying this current without exceding the max. temperature limits of the individual components specified in IEC 61439-1 section 9.2.

- Standard definition – rated diversity factor RDF

The RDF is the specified percentage value of the rated current with which the (individual) outgoing circuits I_{nc} of a switchgear and control gear assembly can be continuously and simultaneously be used with due consideration of the opposing thermal influences. In this process the I_{nA} must not be exceeded.

Table 101 from IEC 61439-3 Values for assumed load

Number of main electric 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 IEC 61439

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 / IT	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 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_{cc} max. ≤ 10 kA

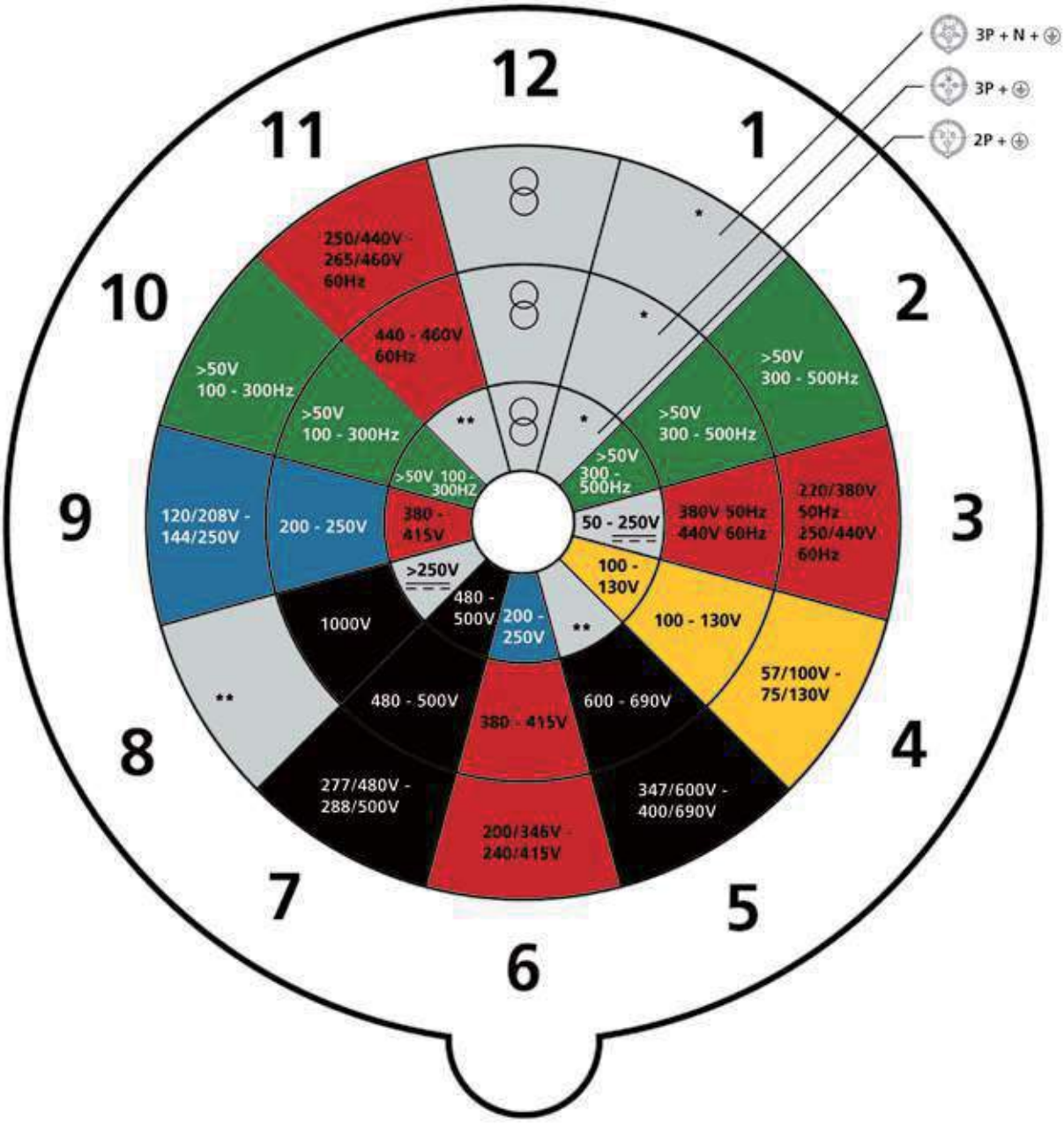
Characteristic	Standard value	Normative option	MENNEKES standard
SCPD in the supply	in accordance with installation conditions	yes / no	no
Coordination between shortcircuit protection devices inside or outside of the switchgear and control gear assembly	in accordance with installation conditions	present / install / integrate	Item-dependent
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 insulation	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 shutdown / protective disconnect / protective insulation	Item-dependent
Installation site	Execution of the manufacturer	Indoors / outdoors	Item-dependent
Protection type	Indoors min. IP 2x / outdoors min. IP 23	IP xx (A-D)	IP 44
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	90 %	Outdoors: 100 % at max. +25 °C Indoors: 50 % bei +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-zone, strong magnetic fields or contamination)	No particular conditions	none	Not defined!
External structural shape	in accordance with manufacturer's specifications	Open / closed / standing / in-wall installation & on-wall installation / console	closed
Mobile or stationary	in accordance with manufacturer's specifications	yes / no	Item-dependent
Dimensions and masses	in accordance with manufacturer's specifications	none	Item-dependent
Type of conductors introduced from outside	Cables	Cables / busbar trunking systems	Cables
Materials of the conductors introduced from the outside	Copper	Copper / aluminum	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

Characteristic	Standard value	Normative option	MENNEKES standard
Type of interior subdivision	in accordance with manufacturer's specifications	Form 1, 2, 3, 4	none
Rated current of the switchgear and control gear assembly	Manufacturers standard; in accordance with the application	none	Item-dependent
Rated current of the electric circuits (I_{nc})	Manufacturers standard; in accordance with the application	none	Item-dependent
Rated diversity factor (RDF)	STANDARD specification	RDF for electric circuits/ RDF for the entire switchgear and control gear assembly	Item-dependent
Cross-section ratio between outer conductor and N*	Ø ≤ 16 mm² = 100 % Ø > 16 mm² = 50 % (min. 16 mm²)	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 cosφ 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 EN 60309-2:1999 + A1:2007 + A2:2012, Series I (Europe)

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



* Clock positions not normed and free for use for special applications.
** 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 IEC 60309-1:2013-02, 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 EN 60309-1:1999

CEE plugs and sockets for rated operating voltages above 50 V

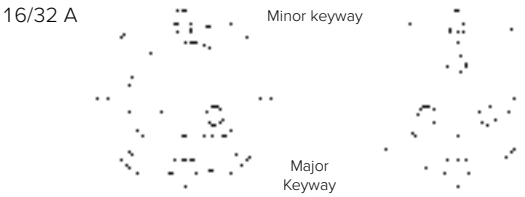
Position of the earth contact

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 receptacle, thus ensuring that the earth contact pin or tube is correctly positioned in accordance with the required electrical standard. The earth contact positions for the various frequencies and voltages are assigned a clockface position, in accordance with table 104 taken from EN 60309-2:1999 + A1:2007 + A2:2012 (see below).

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 103 taken from EN 60309-2:1999 + A1:2007 + A2:2012, standard sheet 2-VIII (and in the following drawings).

Drawing: receptacles 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 103 taken from EN 60309-2:1999 + A1:2007 + A2:2012

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 IEC 60309-1:1999, table 2:

Rated operating voltage	Colour code	RAL*
20 to 25 V	violet	1001
40 to 50 V	white	7035

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

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. Receptacles and connectors that do not meet the test requirements for breaking capacity and service characteristics must be fitted with an interlock. An interlock is a mechanical or electrical device which ensures that voltage is only applied to the contacts of a plug once they have been inserted into a receptacle or connector as intended, which prevents a plug being withdrawn with the power switched on or which makes contacts voltage-free before disconnecting. A distinction is made between interlocked plugs and sockets with
- mechanical interlocks
- electrical interlocks.

In the case of receptacles and connectors ≥ 63/60 A, EN 60309-2 requires that a distinction is made between products used with or without interlocks. As MENNEKES plugs and sockets have adequate breaking capacity, standard ≥ 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. Receptacles 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 EN 60309-2:1999, standard sheet 2-V. The mechanical switch of a mechanically interlocked receptacle or connector must not be operational until the proper plug has been inserted. Built-in switches for mechanical interlocking of switched AC receptacles must have a breaking capacity conforming at least to 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 ≥ 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 receptacle or connector. The requisite switch can either be provided in the receptacle or on the corresponding circuit distribution board. In the case of receptacles with an integrated auxiliary switch fitted behind the pilot tube, the switch is triggered by the pilot pin of the plug. The advantage of this solution is that the pilot tube itself is not live (PCS interlock).

Plugs and 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 EN 60309-1:1999 section 9 by designing plugs and sockets in such a way that, when engaged properly, no live parts of receptacles, 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 receptacles 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 60529, EN 60529 is specified for plugs and sockets, as they are tested in line with this standard.

IP 44 = Protection from solid bodies with a diameter ≥ 1 mm, splashproof

IP 67 = Protection from dust ingress, protection against immersion

Information on IP protection (IP code) can be found in IEC 60529:2000-09 (VDE 0470 part 1).

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

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

CEE plugs and sockets must be IP 44 or IP 67. CEE plugs and sockets with rated currents of 100/125 A must be IP 67.

100/125 A receptacles that are fastened to an enclosure or form a structural unit with the enclosure can be IP 44.

For receptacles IP 67, a bayonet system has been adopted as the standard in order to simplify their use especially under rough working conditions.

IP 44 or IP 67 is indicated on the appliances.

Notice for the use of mobile power distribution boxes:

Please consider when using SCHUKO® receptacles 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 sqq.)

Degree of protection of SCHUKO® plugs and sockets. Standard change of DIN VDE 620.

For use in mobile devices, in accordance with the current specifications, attachment receptacles 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 receptacles. For receptacles 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® receptacles, between stationary and mobile implementation conditions.
- SCHUKO® IP X4 receptacles 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 receptacles 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® receptacles or connectors do not achieve adequate contacting due to the design and thus they must not be operated with such receptacles!
- The same applies for AC adapters and angled right angle plugs < IP X4!
- On the appropriate SCHUKO® receptacles or connectors this circumstance is presented with an engraved right angle SCHUKO® plug with IP X4 mark.

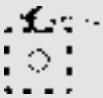
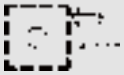
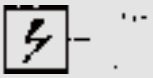
Before processing, ensure that the SCHUKO® articles at hand correspond to the implementation conditions for which they are intended.

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

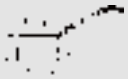
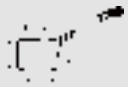
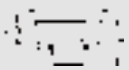
The installed data sockets without lid and the Micro Lynx lamps have a degree of protection of IP 20 which is reducing the degree of the whole unit accordingly.

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

1st number of the code:
Protection against the ingress of foreign bodies and shock hazard protection.

Code	Description			
	Enclosure protected against ingress of:	Test	Protection against contact with:	Test
0				
1	Solid body larger than 50 mm	 Gauge plug diameter Ø 50 mm	Back of hand	 Gauge probe diameter Ø 50 mm
2	Solid body larger than12.5 mm	 Gauge plug diameter Ø 12.5 mm	Finger	 Jointed metal finger
3	Solid body larger than 2.5 mm	 Gauge plug diameter Ø 2.5 mm	Tool	 Gauge probe diameter Ø 2.5 mm
4	Solid body larger than 1 mm	 Gauge plug diameter Ø 1 mm	Wire	 Gauge probe diameter Ø 1 mm
5	Dust in harmful quantities	 Talc		
6	Dust overall	 Talc		

2nd number of the code:
Protection against the ingress of moisture

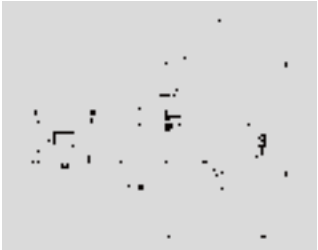
Code	Description	
	Enclosure protected against ingress of:	Test
0		
1	Drop of water falling vertically	
2	Drop of water falling vertically on enclosure inclined by up to 15°	
3	Water spray	
4	Splash water	
5	Water jet	
6	Strong water jet	
7	Temporary immersion	
8	Continuous immersion	By arrangement between manufacturer and user. Extra severe test conditions as compared to code 7
9	Water at high pressure and steam cleaning	

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 43/257



Drawing	Amp.	16		32		
1 MB 43_257	Poles	4	5/7	3	4	5/7
Dim. in mm	a	128	128	128	128	128
	b	84	84	84	84	84
	c	122	124	136	136	138
	d	11	11	11	11	11
	e	68	68	68	68	68
	f	5,3	5,3	5,3	5,3	5,3
	g.	4	4	4	4	4
	h	144	145	158	158	160
	M	25	25	32	32	32
	M*	2x25 (blind) to be cut out		2x25 (blind) to be cut out		
Max. cable diam. (mm)		18	18	18/25	18/25	18/25
Terminal for cond. cross section (mm²) min.-max.		—4	—4	—10	—10	—10

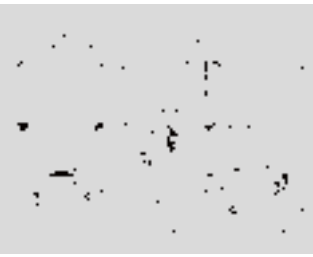
1 MB 112

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 —25	6 —25	6 —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.		4 —10	4 —10	4 —10	4 —10

1 MB 137

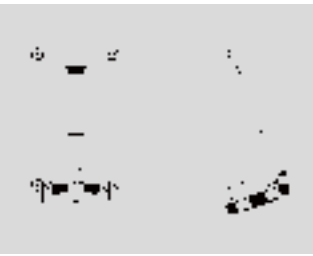


Drawing	Amp.	16		32	
1 MB 137	Poles	2	3	2	3
Dim. in mm	a	128	128	128	128
	b	84	84	84	84
	c	120	120	120	120
	d	11	11	11	11
	e	68	68	68	68
	f	5,3	5,3	5,3	5,3
	g.	4	4	4	4
	h	146	146	146	146
	M	25	25	32	32
	M*	2x25 (blind) to be cut out		2x25 (blind) to be cut out	
Max. cable diam. (mm)		18	18	25	25
Terminal for cond. cross section (mm²) min.-max.		4 —2x6	4 —10	4 —2x6	4 —10

1 MB 141

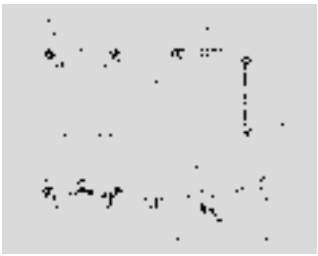
Drawing	Amp.	16			32		
1 MB 141	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	70	70	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g.	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	31	32	32	39	39	39
	l	43	52	54	58	58	65
Terminal for cond. cross section (mm²) min.-max.		1.5 —4	1.5 —4	1.5 —4	2.5 —10	2.5 —10	2.5 —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.		25 —35	25 —35

1 MB 168

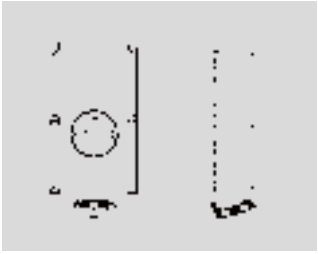


Drawing	Amp.	16			32		
1 MB 168	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g.	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x25 and 1x32			1x25 and 1x32		
	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.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

1 MB 174

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

1 MB 177

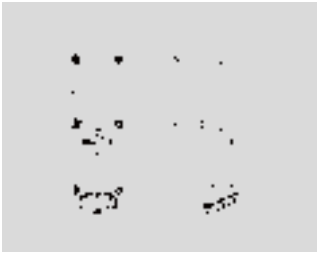


Drawing	Amp.	125		
1 MB 177	Poles	3	4	5
Dim. in mm	a	460	460	460
	b	260	260	260
	c	283	283	283
	d	434	434	434
	e	234	234	234
	f	11	11	11
	g.	9	9	9
	h	519	519	519
	M	63	63	63
	M*	2x63	2x63	2x63
Max. cable diam. (mm)		44	44	44
Terminal for cond. cross section (mm²) min.-max.		25 —70	25 —70	25 —70

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.		6 —25	6 —25	6 —25

1 MB 181/620



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

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 205

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

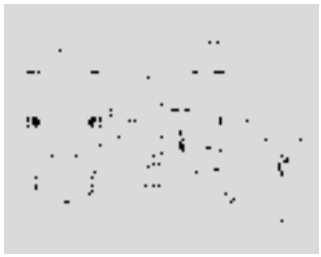
1 MB 207

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

1 MB 208

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

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*	M20 (blind) to be cut out		
Max. cable diam. (mm)		15	15	15
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4

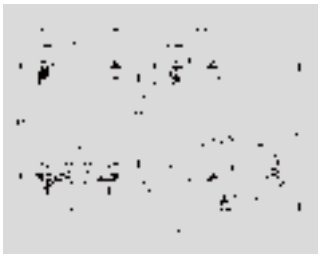
1 MB 211

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 —25	6 —25	6 —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 —25	6 —25	6 —25	25 —70	25 —70

1 MB 213

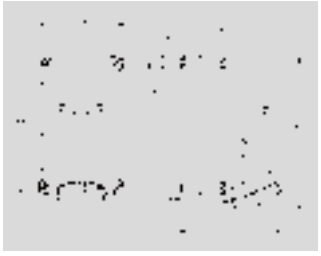


Drawing	Amp.	63		
1 MB 213	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	164	164	164
	d	134,5	134,5	134,5
	e	103	103	103
	f	6,1	6,1	6,1
	g.	6	6	6
	h	216	216	216
	M	40	40	40
	M*	2xM40 (blind) to be cut out		
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25

1 MB 231

Drawing	Amp.	16		32	
1 MB 231	Poles	2	3	2	3
Dim. in mm	a	68	68	68	68
	b	62	62	62	62
	c	42	42	42	42
	d	53	53	53	53
	e	47	47	47	47
	f	4,5	4,5	4,5	4,5
	g.	8	8	8	8
	g.1	2	2	2	2
	h	72	72	72	72
	k	32	32	32	32
	l	55	55	55	55
Terminal for cond. cross section (mm²) min.-max.		4 —10	4 —10	4 —10	4 —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 —25	6 —25	6 —25

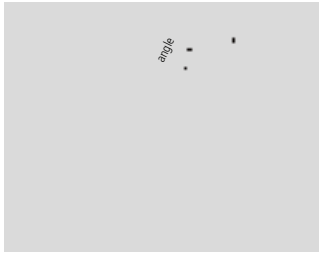
1 MB 236

Drawing	Amp.	32
1 MB 236	Poles	3
Dim. in mm	a	100
	b	92
	c	42
	d	85
	e	77
	f	5,1
	g.	8
	g.1	2
	k	31
	l	60
Terminal for cond. cross section (mm²) min.-max.		4 —10

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	55	64	64	65
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g.	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	75	80	83	89	89	100
	h1		6	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 —4	1.5 —4	1.5 —4	2.5 —10	2.5 —10	2.5 —10

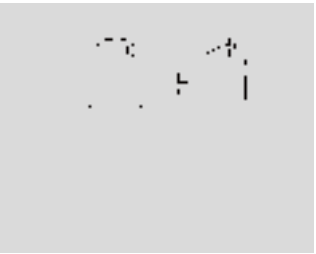
1 MB 251



Drawing	Amp.	16				32			
1 MB 251	Poles	3	4	5	7	3	4	5	7
Dim. in mm	a	73,5	100	100	100	100	100	100	100
	b	64	92	92	92	92	92	92	92
	c	52	60	62	62	64	64	66	66
	d	60	85	85	85	85	85	85	85
	e	52	77	77	77	77	77	77	77
	f	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5
	g.	8	8	8	8	8	8	8	8
	g.1	2	2	2	2	2	2	2	2
	h	84	100	105	105	109	109	113	113
	i	78	85	96	96	103	103	110	110
	k	43	32	32	39	53	53	45	54
	l	52	55	65	65	67	67	72	72
	l1	60	63	72	72	82	82	85	85
	α	20°	20°	20°	20°	20°	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10	2,5 —10

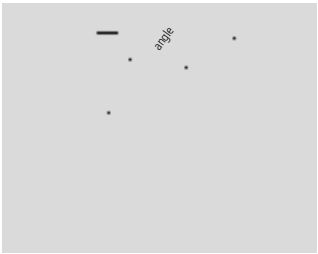
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 259



Drawing	Amp.	16		
1 MB 259	Poles	3	4	5
Dim. in mm	a	62	72	72
	b	62	65	65
	c	54	54	54
	d	47	52	52
	e	47	52	52
	f	5,5	5,5	5,5
	g	8	8	8
	g1	2	2	2
	h	68	77	85
	h1	7	7	11
	k	32	32	32
	l	50	52	57
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4

1 MB 260

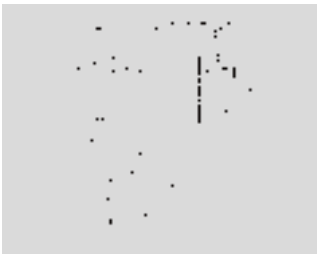


Drawing	Amp.	16				32			
1 MB 260	Poles	3	4	5	7	3	4	5	7
Dim. in mm	a	73.5	100	100	100	100	100	100	100
	b	64	92	92	92	92	92	92	92
	c	50	59	58	58	62	62	61	61
	d	60	85	85	85	85	85	85	85
	e	52	77	77	77	77	77	77	77
	f	5.5	5.5	5.5	5,5	5.5	5.5	5.5	5,5
	g.	7	8	8	8	8	8	8	8
	g.1	2	2	2	2	2	2	2	2
	h	79	100	100	100	103	103	106	106
	k	44	34	34	40	54	54	49	55
	l	52	55	65	65	67	67	72	72
	l1	60	63	72	72	82	82	85	85
	α	20°	20°	20°	20°	20°	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		1.5 —4	1.5 —4	1.5 —4	1,5 —4	2.5 —10	2.5 —10	2.5 —10	2,5 —10

1 MB 284

Drawing		
1 MB 284		
Dim. in mm	a	330
	b	80
	c	68
	d	290
	e	70
	f	4,3
	h	3,8
	i	51
	M	20

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 —10	4 —10	4 —10	4 —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 —10	4 —10	4 —10	4 —10

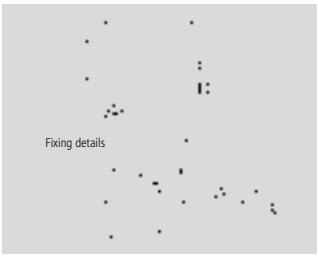
1 MB 297

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
	α	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25

1 MB 298/601

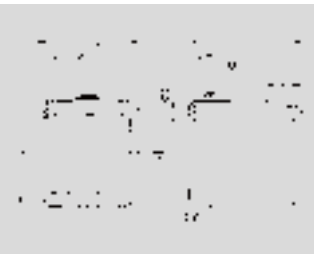
1 MB 298 / 1 MB 601	Amp.	63			125		
	Poles	3	4	5	3	4	5
Dim. in mm	a	110	110	110	114	114	114
	b	106	106	106	110	110	110
	c	85	85	85	75	75	75
	d	85	85	85	90	90	90
	e	77	77	77	90	90	90
	f	6,2	6,2	6,2	6,2	6,2	6,2
	g.	12	12	12	13	13	13
	g.1	2	2	2	2	2	2
	h	128	128	128	133	133	133
	i	113	113	113	126	126	126
	k	67	67	67	103	103	103
	l	92	92	92	94	94	94
	l1	98	98	98	107	107	107
	<	20°	20°	20°	15°	15°	15°
Terminal for cond. cross section (mm²) min.-max.		6 —25	6 —25	6 —25	25 70	25 70	25 70

1 MB 305



Drawing
1 MB 305
Dim. in mm

1 MB 312

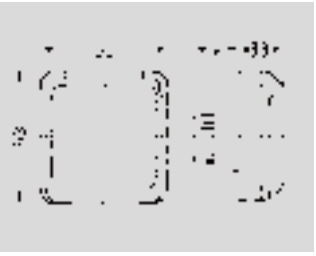


Drawing	Amp.	16			32		
1 MB 312	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	87	87	87	99	99	99
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g.	4,2	4,2	4,2	4,2	4,2	4,2
	k	33	33	33	33	33	33
	y	25,5	25,5	25,5	25,5	25,5	25,5
	M	25x1,5	25x1,5	25x1,5	25x1,5	25x1,5	25x1,5
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

1 MB 313

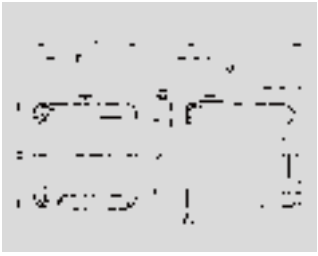
Drawing	Amp.	16			32		
1 MB 313	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	90	90	90	102	102	102
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g.	4,2	4,2	4,2	4,2	4,2	4,2
	k	36	36	36	36	36	36
	y	25,5	25,5	25,5	25,5	25,5	25,5
	M	25x1,5	25x1,5	25x1,5	25x1,5	25x1,5	25x1,5
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

1 MB 315



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

1 MB 317



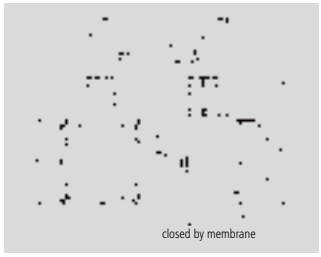
Drawing	Amp.	16			32		
1 MB 317	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	88	88	88	100	100	100
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g.	4,2	4,2	4,2	4,2	4,2	4,2
	k	34	34	34	34	34	34
	y	25,5	25,5	25,5	25,5	25,5	25,5
	M	25x1,5	25x1,5	25x1,5	25x1,5	25x1,5	25x1,5
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

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 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		1,5	1,5	1,5	2,5	2,5	2,5
section (mm²) min.-max.		—4	—4	—4	—6	—6	—6

1 MB 347



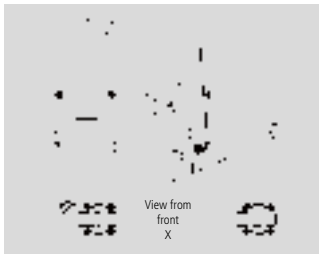
Drawing
1 MB 347

Dim. in mm

1 MB 350

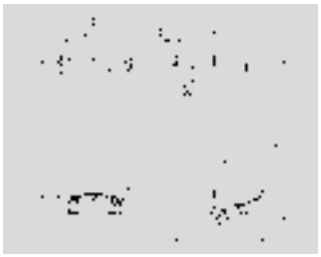
Drawing	Amp.	16		
1 MB 350	Poles	3	4	5
Dim. in mm				
Terminal for cond. cross		1,5	1,5	1,5
section (mm²) min.-max.		—4	—4	—4

1 MB 354



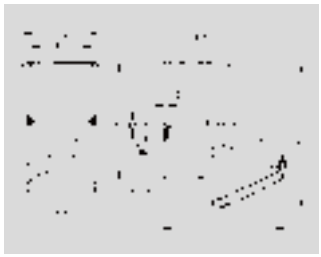
Drawing	Amp.	16		32
1 MB 354	Poles	4	5	5
Dim. in mm	a	141	141	141
	b	85	85	85
	c	139	139	153
	d	61	61	61
	e	68	68	68
	f	5,3	5,3	5,3
	g.	4	4	4
	h	145	145	162
	M	25	25	32
Max. cable diam. (mm)		18	18	25
Terminal for cond. cross		1.5	1.5	2.5
section (mm²) min.-max.		—4	—4	—10

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	
	M*	2x25	2x25	2x25	2x25	2x25
Max. cable diam. (mm)		25	25	25	25	25
Terminal for cond. cross		1,5	1,5	1,5	2,5	2,5
section (mm²) min.-max.		—4	—4	—4	—10	—10

1 MB 382



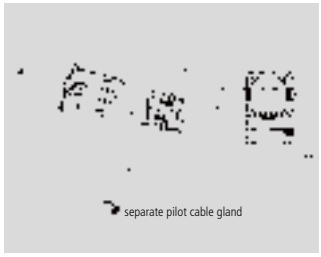
Drawing	Amp.	16	32
1 MB 257	Poles	7	7
Dim. in mm	a	128	128
	b	84	84
	c	124	138
	d	11	11
	e	68	68
	f	5,3	5,3
	g.	4	4
	h	145	160
	M	25	32
	M*	2x25 (blind) to be cut out	2x25 (blind) to be cut out
Max. cable diam. (mm)		18	25
Terminal for cond. cross		1,5	2,5
section (mm²) min.-max.		—4	—10

1 MB 384

Drawing
1 MB 384

Dim. in mm

1 MB 385



Drawing
1 MB 385

Dim. in mm

1 MB 386

Drawing
1 MB 386

Dim. in mm

1 MB 387

Drawing
1 MB 387

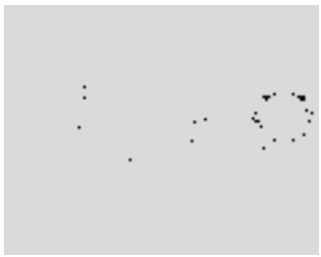
Dim. in mm

1 MB 388/1

Drawing
1 MB 388/1

Dim. in mm

1 MB 389/1

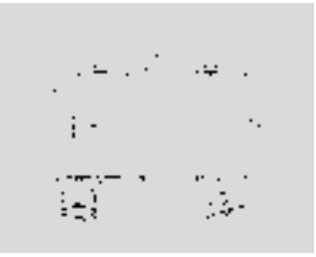


Drawing
1 MB 389/1

Dim. in mm

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 403/2



Drawing
1 MB 403/2

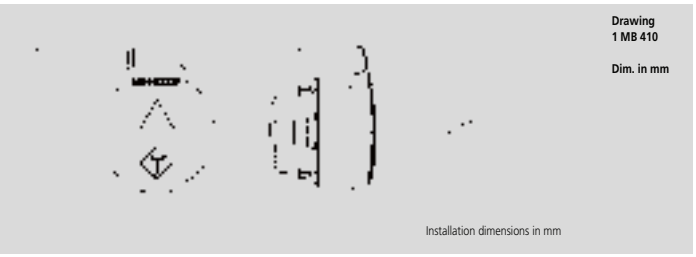
Dim. in mm

1 MB 404/2

Drawing
1 MB 404/2

Dim. in mm

1 MB 410



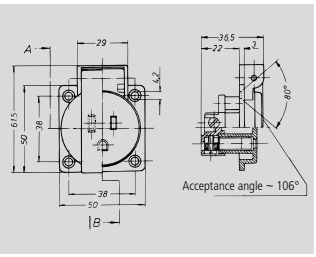
Drawing
1 MB 410

Dim. in mm

1 MB 412/3

Drawing	Amp.	25	40	80
1 MB 412/3	Pole	3/3+HS	3/3+HS	3/3+HS
Dim. in mm	A	170	263	263
	B	118	168,5	168,5
	C	98	130	130
	D	131	161	161

1 MB 421



Drawing
1 MB 421

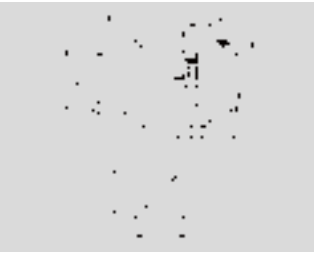
Dim. in mm

1 MB 422

Drawing
1 MB 422

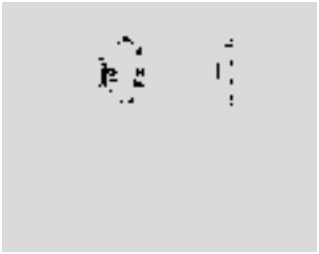
Dim. in mm

1 MB 426



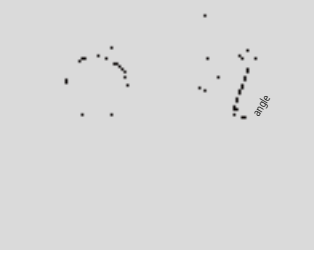
Drawing	Amp.	16
1 MB 426	Poles	3
Dim. in mm	a	55
	b	55
	c	54
	d	45
	e	45
	f	5,5
	g.	8
	g.1	2
	h	70
	h1	12
	k	28
	l	47
Terminal for cond. cross section (mm²) min.-max.		1,5 —4

1 MB 450



Drawing	Dim. A
1 MB 450	
Drawing in mm	
SCHUKO	18,3
French/Belgian standards	15,8
Danish standards	15,8

1 MB 452

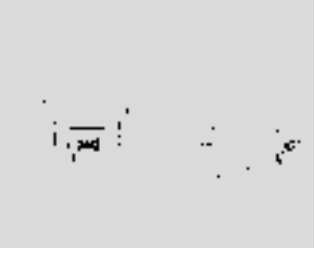


Drawing	Amp.	16			32		
1 MB 452	Poles	3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	57	59	60	68	68	72
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	87	91	99	105	105	110
	i	78	85	96	103	103	110
	k	39	34	33	53	53	41
	l min.	57	64	70	78	78	78
	l max.	78	78	78	78	78	78
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

1 MB 453

Drawing	Amp.	16			32		
1 MB 453	Poles	3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	53	57	57	60	60	67
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	89	96	101	103	103	110
	k	39	34	33	53	53	41
	l min.	57	64	70	78	78	78
	l max.	78	78	78	78	78	78
Terminal for cond. cross section (mm²) min.-max.		1.5 —4	1.5 —4	1.5 —4	2.5 —10	2.5 —10	2.5 —10

1 MB 463



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

1 MB 464

Drawing	Amp.	16			32		
1 MB 464	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	54	64	64	64
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g.	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	75	80	85	89	89	95
	h1		6	9	10	10	12
	k	22	22	22	28	28	38
	l	43	52	57	60	60	65
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

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1 MB 465

Drawing	Amp.	16			32		
1 MB 465	Poles	3	4	5	3	4	5
Dim. in mm	a	73,5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	58	58	61	61	60
	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	105
	k	31	31	31	44	44	54
	l	52	55	65	70	70	73
	l1	60	63	72	82	82	85
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

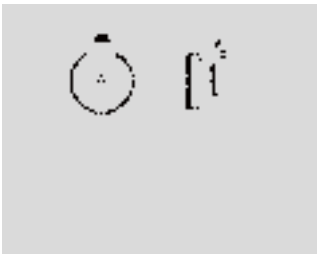
1 MB 466

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
	l1	60	63	72	82	82	85
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

1 MB 467

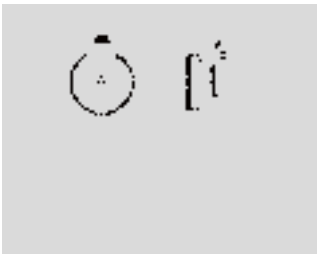
Drawing	Amp.	16			32		
1 MB 467	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	69	69	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g.	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	21	21	21	28	28	38
	l	43	52	54	60	60	65
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

1 MB 468 - 61 mm Ø



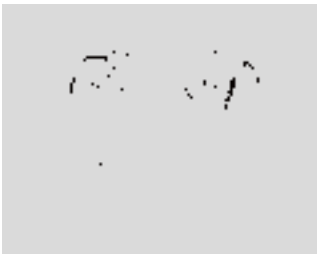
Drawing	Amp.	16
1 MB 468	Poles	3
Dim. in mm	a	69
	b	57
	c	55
	k	max. 30
	h	87
	l	61
	l1	33,25
	t	2-9
Terminal for cond. cross section (mm²) min.-max.		1,5 —4

1 MB 468 - 70 mm Ø



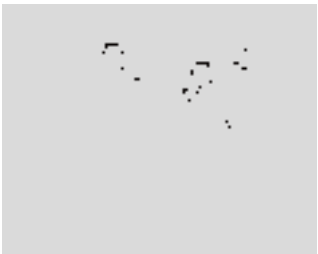
Drawing	Amp.	16		32		
1 MB 468	Poles	4	5	3	4	5
Dim. in mm	a	81	81	81	81	81
	b	66	69	71	71	80
	c	58	55	66	66	64
	k	max. 33	max. 33	max. 33	max. 33	max. 33
	h	100	102	101	101	108
	l	70	70	70	70	70
	l1	37.75	37.75	37.75	37.75	37.75
	t	2-9	2-9	2-9	2-9	2-9
Terminal for cond. cross section (mm²) min.-max.		1.5 —4	1.5 —4	2.5 —6	2.5 —6	2.5 —6

1 MB 472



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

1 MB 519

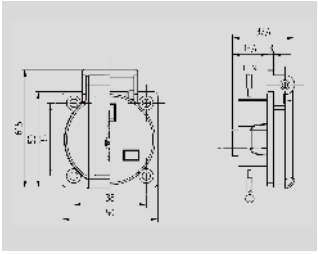


Drawing	Amp.	16			32		
1 MB 519	Poles	3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	52	57	55	61	60	66
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	86	96	100	96	104	110
	k	31	32	33	43	44	48
	l min.	57	64	70	78	78	78
	l max.	76	76	76	78	78	78
	∂	20	20	20	20	20	20
Terminal for cond. cross section (mm²) min.-max.		1.5 —4	1.5 —4	1.5 —4	2.5 —10	2.5 —10	2.5 —10

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 (mm²) min.-max.		1.5 —4	1.5 —4	1.5 —4	2.5 —6	2.5 —6	2.5 —6

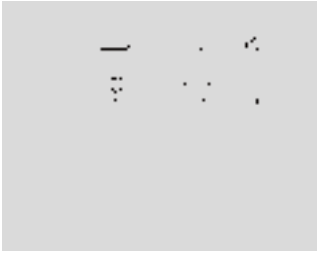
1 MB 584



Drawing
1 MB 584

Dim. in mm

1 MB 586



Drawing
1 MB 586

1 MB 622

Drawing	Amp.	16			32		
1 MB 622	Poles	3	4	5/7	3	4	5/7
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
	f1	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 18 (M25) and 15 (M20)			2x25 (blind) to be cut out 25 (M32) and 18 (M25)		
Max. cable diam. (mm)							
Terminal for cond. cross section (mm²) min.-max.		1,5 —4	1,5 —4	1,5 —4	2,5 —6	2,5 —6	2,5 —6

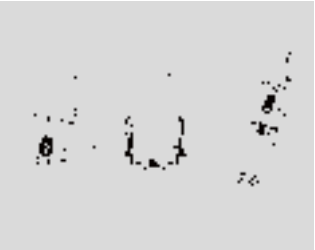
1 MB 627

Drawing
1 MB 627

Dim. in mm

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.

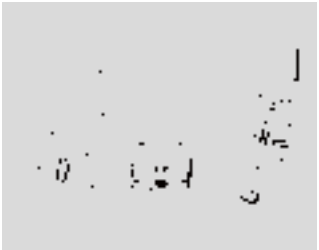
1 MB 636



Drawing
1 MB 636

Dim. in mm

1 MB 637



Drawing
1 MB 637

Dim. in mm

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	—	—	—	—	—
	d1	—	10,5	10,5	11	11	11
	e	50,5	59	59	68	68	68
	f	4,5	5	5	5,3	5,3	5,3
	g.	4	4	4	4	4	4
	h	122	133	135	169	169	170
	M	20	20	20	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 —2,5	1 —2,5	1 —2,5	2,5 —6	2,5 —6	2,5 —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	136	136	136	240	240
	e	104	104	104	140	140
	f	6,1	6,1	6,1	8,1	8,1
	g.	6	6	6	8	8
	h	250	250	250	355	355
	M	40	40	40	50	50
	M*	2x40	2x40	2x40	50	50
	α	25°	25°	25°	20°	20°
Max. cable diam. (mm)		32	32	32	38	38
Terminal for cond. cross section (mm²) min.-max.		4 —10	4 —10	4 —10	16 —35	16 —35

2 MB 40

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

2 MB 43

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

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		1	1	2,5	2,5	4
section (mm²) min.-max.		—2,5	—2,5	—6	—6	—10

2 MB 68

Drawing	Amp.	16	32
2 MB 68	Poles	5	5
Dim. in mm	a	66	72
	a1	69	78
	b	66	72
	c	43	52
	d	52	60
	e	52	60
	f	4,5	4,5
	g.	4,5	4,5
	g.1	2	2
	k	27	32
	l	59	63
Terminal for cond. cross		1	2,5
section (mm²) min.-max.		—2,5	—6

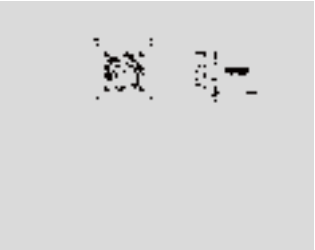
2 MB 68/853

Drawing	Amp.	16
2 MB 68/853	Poles	5
Dim. in mm	a	75
	b	75
	c	42
	d	60
	e	60
	f	5,5
	g.	7,3
	g.1	2
	k	13
	l	52
Terminal for cond. cross		1
section (mm²) min.-max.		—2,5

2 MB 73

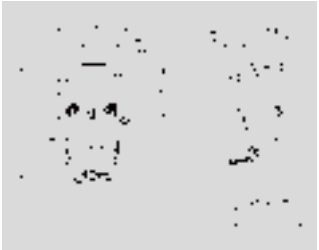
Drawing	Amp.	16		32		
2 MB 73	Poles	4	5	3	4	5
Dim. in mm	a	85	85	75	75	75
	b	85	85	90	90	90
	c	75	79	87	87	90
	d	64	64	45	45	45
	d1	10	10	13	13	13
	e	64	64	78	78	78
	f	5,5	5,5	5,5	5,5	5,5
	g.	6	6	6	6	6
	g.1	2	2	2	2	2
	h	129	129	137	137	138
	l	50	50	55	55	55
Terminal for cond. cross		1	1	2,5	2,5	2,5
section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

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		6	6	6
section (mm²) min.-max.		—16	—16	—16

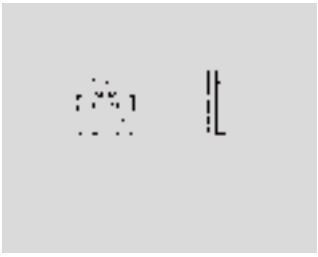
2 MB 160



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		4	4	4	4
section (mm²) min.-max.		—10	—10	—10	—10

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 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	95	95	95
	s	113	113	113	132	132	132
Terminal for cond. cross section (mm²) min.-max.		6 —16	6 —16	6 —16	25 —70	25 —70	25 —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 —4	1,5 —4	1,5 —4	2,5 —10	2,5 —10	2,5 —10

2 MB 187/2

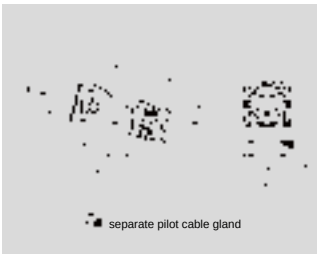
Drawing	Amp.	16			32		
2 MB 187/2	Poles	3	4	5	3	4	5
Dim. in mm	a	85,7	85,7	85,7	85,7	85,7	85,7
	b	85,7	85,7	85,7	85,7	85,7	85,7
	c	72	72	72	90	90	90
	d	69,5	69,5	69,5	69,5	69,5	69,5
	e	69,5	69,5	69,5	69,5	69,5	69,5
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g.	11	11	11	11	11	11
	g.1	2	2	2	2	2	2
	l	32	36	47	47	47	47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

2 MB 196

Drawing
2 MB 196

Dim. in mm

2 MB 197



Drawing
2 MB 197

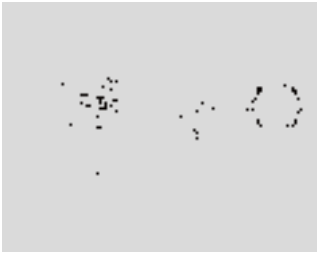
Dim. in mm

2 MB 199/1

Drawing
2 MB 199/1

Dim. in mm

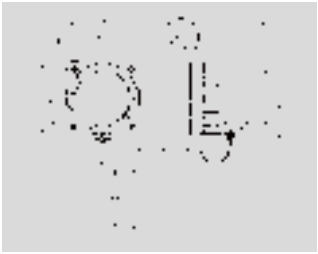
2 MB 200/1



Drawing
2 MB 200/1

Dim. in mm

2 MB 206



Drawing	Amp.	125
2 MB 206	Poles	5
Dim. in mm	a	130
	b	130
	c	120
	d	104
	e	104
	f	6,5
	g.	18
	g.1	2
	h	131
	k	28
	l	95
Terminal for cond. cross section (mm²) min.-max.		25 —70

2 MB 212

Drawing
2 MB 212

Dim. in mm

2 MB 213

Drawing
2 MB 213

Dim. in mm

2 MB 221

Drawing	Amp.	16		32		
2 MB 221	Poles	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	32x1.5

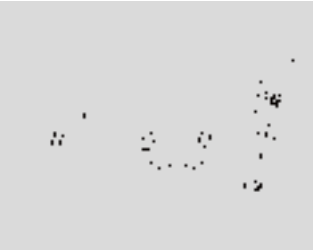
2 MB 247

Drawing
2 MB 247

Dim. in mm

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.

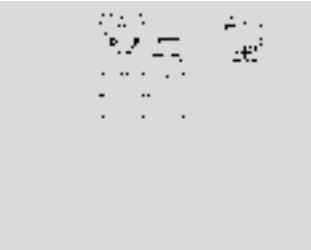
2 MB 248



Drawing
2 MB 248

Dim. in mm

5 MB 57

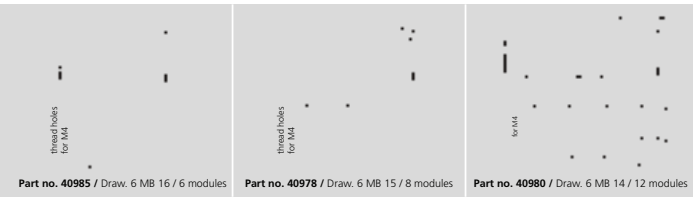


Drawing	Amp.	16			32		
5 MB 57	Poles	3	4	5	3	4	5
Dim. in mm	a	200	200	200	200	200	200
	b	110	110	110	110	110	110
	c	47	50	51	59	59	60
	d	190	190	190	190	190	190
	e	100	100	100	100	100	100
	f	5	5	5	5	5	5
	g	13	13	13	13	13	13
	k max.	56	56	56	56	56	56

5 MB 59

Drawing	Amp.	16			32		
5 MB 59	Poles	3	4	5	3	4	5
Dim. in mm	a	200	200	200	200	200	200
	b	110	110	110	110	110	110
	c	46	49	46	56	56	53
	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

6 MB 14/15/16



Part no. 40985 / Draw. 6 MB 16 / 6 modules

Part no. 40978 / Draw. 6 MB 15 / 8 modules

Part no. 40980 / Draw. 6 MB 14 / 12 modules

D22516-7a

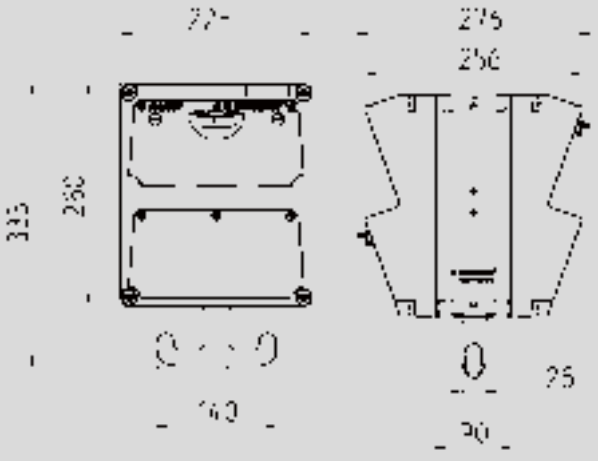
Drawing	Amp.	16			32	
D22516-7a	Poles	3	4	5	4	5
Dim. in mm	a	155	175	175	205	205
	b	90	110	110	120	120
	c	121	147	147	166	166
	d	115	135	135	170	170
	e	80	100	100	110	110
	f	7	7	7	7	7
	g	11	11	11	11	11
	h	223	236	236	285	285
	M	25	25	25	40	40
	M*	25 (mounted cable gland)			40 (mounted cable gland)	
Max. cable diam. (mm)		8-17	8-17	8-17	17-28	17-28
Terminal for cond. cross section (mm²) min.-max.		1 —4	1 —4	1 —4	4 —10	4 —10

D22518-9a

Drawing	Amp.	63		125	
D22518-9a	Poles	4	5	4	5
Dim. in mm	a	370	370	430	430
	b	200	200	234	234
	c	226	226	258	258
	d	276	276	303	303
	e	184	184	218	218
	f	9	9	9	9
	g	10	10	11	11
	h	475	475	537	537
	M	50	50	50	50
	M*	50 (mounted cable gland)		50 (mounted cable gland)	
Max. cable diam. (mm)		22-35	22-35	22-35	22-35
Terminal for cond. cross section (mm²) min.-max.		—25	—25	—50	—50

AMAXX® receptacle combinations.

Suspendable AMAXX®



1 MB 630

Depth dimensions for identical configuration on both sides.

Receptacles	IP-degrees	Depth
SCHUKO® 16 A, 230 V	IP 44	282 mm
	IP 67	326 mm
CEE 16 A, 3 p, 230 V	IP 44	342 mm
	IP 67	350 mm
CEE 16 A, 5 p, 400 V	IP 44	354 mm
	IP 67	362 mm
CEE 32 A, 5 p, 400 V	IP 44	372 mm
	IP 67	382 mm

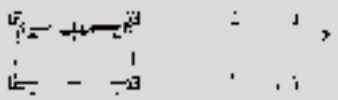
Cable entries: closed for cut out

1 x M 32 on top, 1 x M 25 on top and 1 x M 20 on top

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® receptacle combinations.

AMAXX® with 1 segment

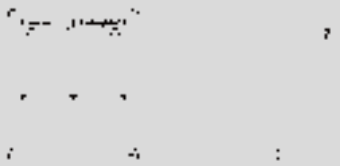


1 MB 531

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

Receptacles	IP-degrees	Depth
SCHUKO® 16 A, 230 V	44	175 mm
	67	194 mm
CEE 16 A, 3 p, 230 V	44	204 mm
	67	205 mm
CEE 16 A, 5 p, 400 V	44	209 mm
	67	213 mm
CEE 32 A, 5 p, 400 V	44	221 mm
	67	227 mm
CEE 63 A, 5 p, 400 V	44	248 mm
	67	248 mm

AMAXX® with 2 segments



1 MB 521

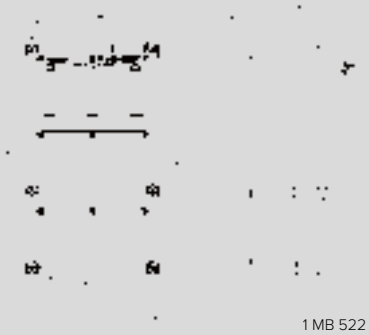
Cable entries: closed for cut out.

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

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

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

AMAXX® with 3 segments



1 MB 522

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

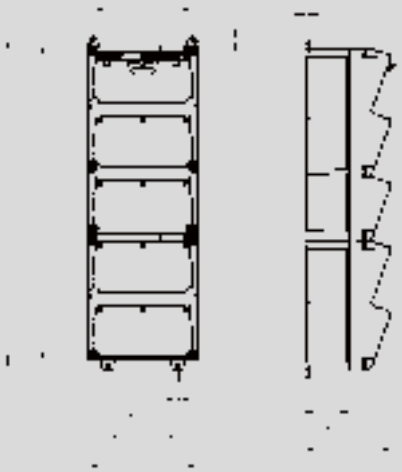
AMAXX® with 4 segments

1 MB 523

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

Receptacles	IP-degrees	Depth
SCHUKO® 16 A, 230 V	44	186 mm
	67	208 mm
CEE 16 A, 3 p, 230 V	44	216 mm
	67	220 mm
CEE 16 A, 5 p, 400 V	44	222 mm
	67	226 mm
CEE 32 A, 5 p, 400 V	44	231 mm
	67	236 mm
CEE 63 A, 5 p, 400 V	44	260 mm
	67	260 mm

AMAXX® with 5 segments



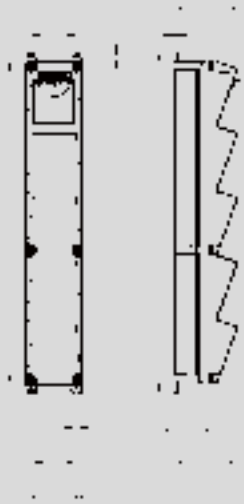
1 MB 540

Cable entries: closed for cut out.

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

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

AMAXX®s (5 segments)



1 MB 541

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

Receptacles	IP-degrees	Depth
SCHUKO® 16 A, 230 V	44	140 mm
	67	157 mm
CEE 16 A, 3 p, 230 V	44	170 mm
	67	169 mm
CEE 16 A, 5 p, 400 V	44	172 mm
	67	174 mm
CEE 32 A, 5 p, 400 V	44	182 mm
	67	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.

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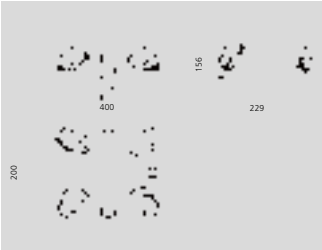
1 MB 441



Drawing
1 MB 441

Dim. in mm

DIN rail / fusing for 4 modules beneath transparent operating lid.

Cable entry: at the top: 1 x M 32, 1 x M 25, 2 x M 20 (blind, to be cut out), 1 x cut out for quick pneumatic connection; from the side (for wall fixing or portable version): 1 x M 25 (blind, to be cut out).

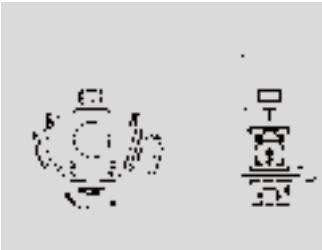
1 MB 442

Drawing
1 MB 442

Dim. in mm

Cable entry: at the top: 1 x M 32, 1 x M 25, 2 x M 20 (blind, to be cut out), 1 x cut out for quick pneumatic connection; from the side (for wall fixing or portable version): 1 x M 25 (blind, to be cut out).

3 MB 44

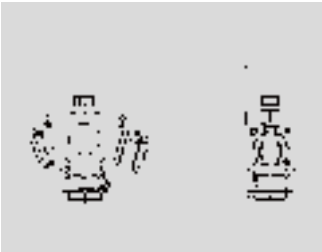


3 MB 44

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 41

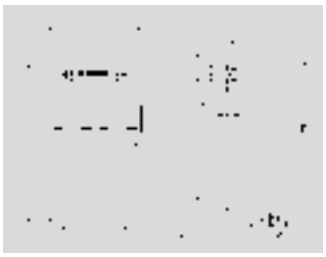
Drawing
5 MB 41

Dim. in mm

Enclosure size: 380 x 320 mm
Cable entry: 1 x M 40 at the top **with threaded cable gland** and 1 x M 40 plugged at the top
2 x M 40 plugged at the bottom Space for 16 modules.

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.

5 MB 42

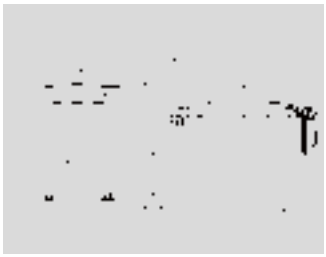


Drawing
5 MB 42

Dim. in mm

Enclosure size: 380 x 230 mm
Cable entry: 1 x M 40 at the top **with threaded cable gland** and 1 x M 40 plugged at the top
2 x M 40 plugged at the bottom Space for 12 modules.

5 MB 43

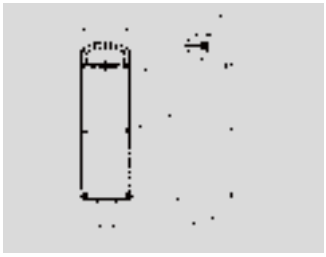


Drawing
5 MB 43

Dim. in mm

Enclosure size: 360 x 340 x 330 mm

5 MB 44

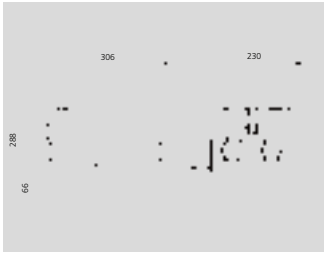


Drawing
5 MB 44

Dim. in mm

Enclosure size: 445 x 135 mm

5 MB 48a

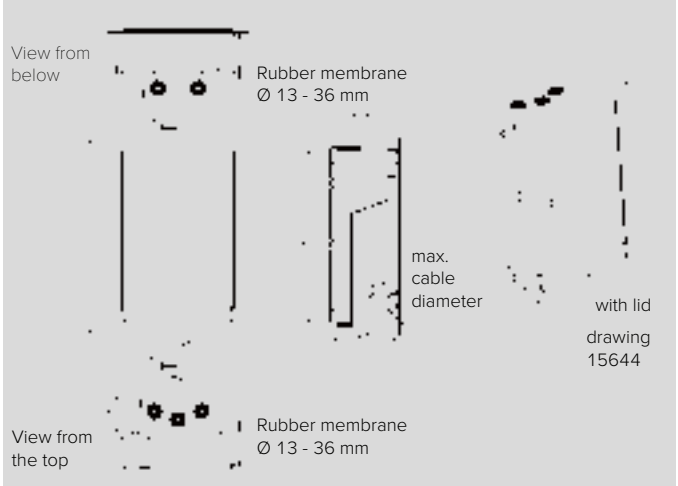


Drawing
5 MB 48a

Dim. in mm

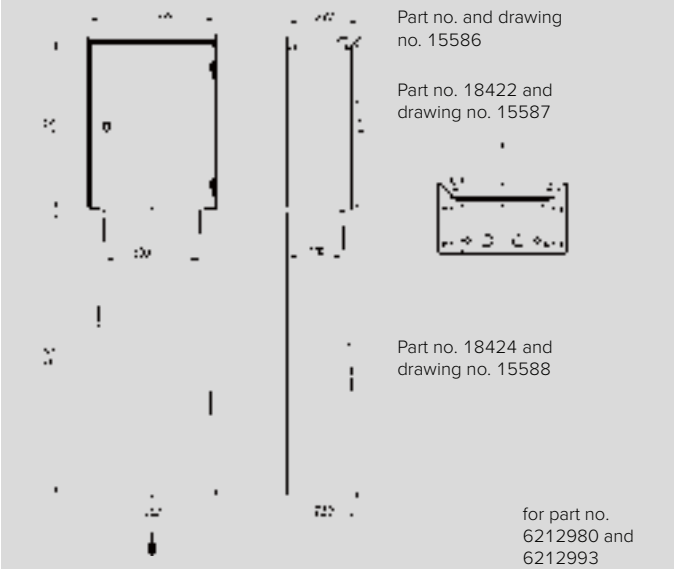
Enclosure size: 300 x 230 x 287.5 mm

1 MB 430



for part no. 6103180 and 6103196

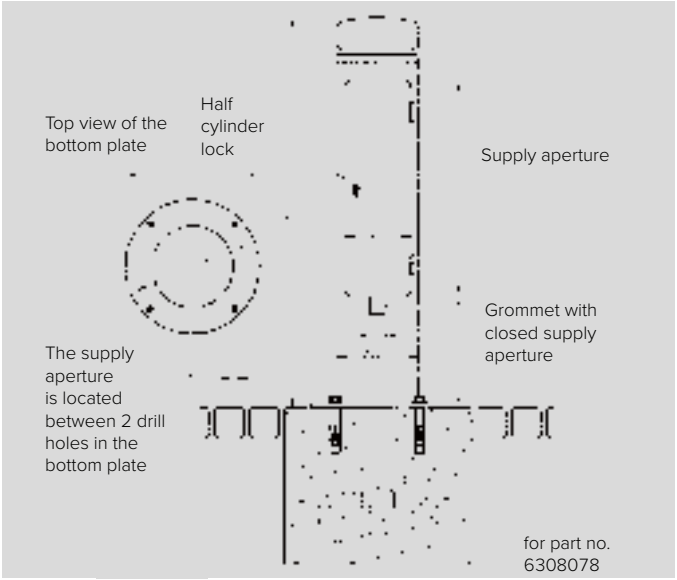
1 MB 437



for part no. 6212980 and 6212993

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 443



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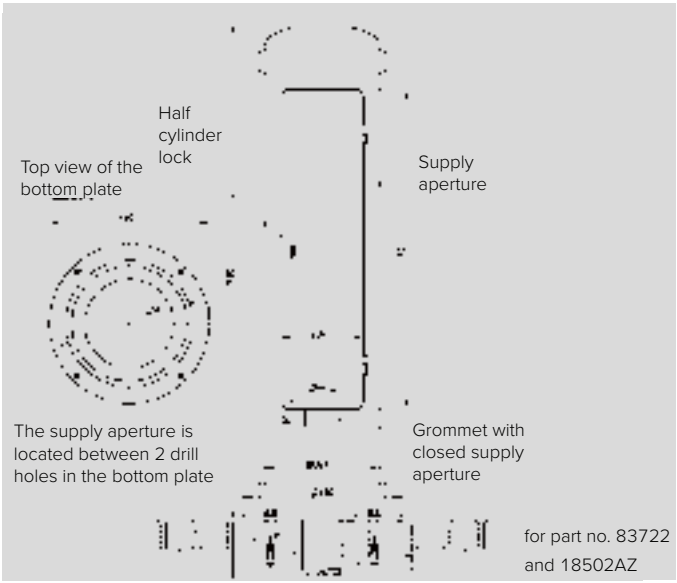

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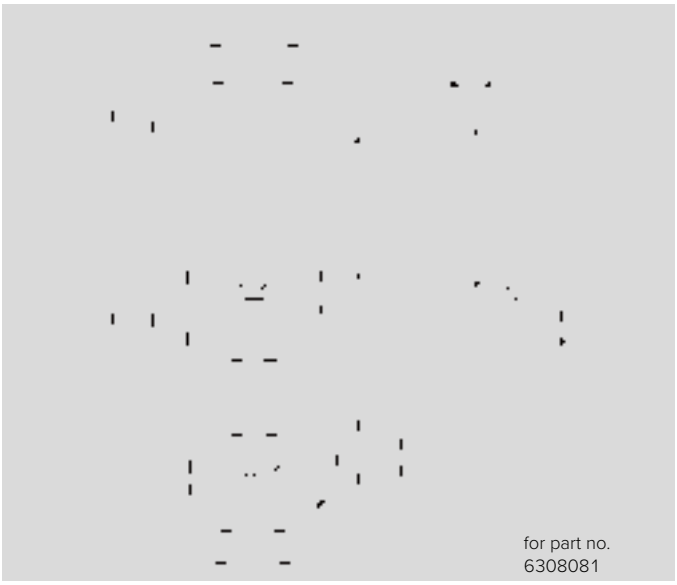

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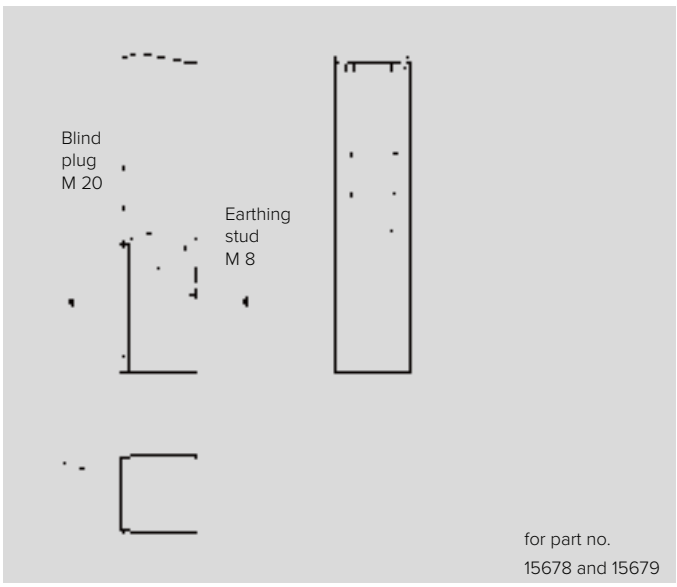

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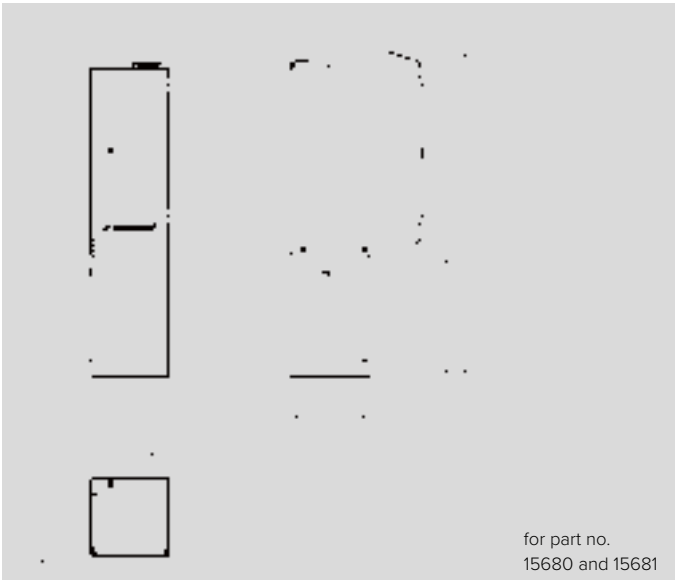

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