



CATALOGUE

INDUSTRIAL PLUGS AND SOCKETS

UK





” „I’m proud to work for a company that treats everyone with dignity and respect and operates free from pretence or deceit. Integrity, honesty and sincerity are at the heart of everything we do.”

Chris Stockdale, Managing Director MENNEKES UK



” „Local service, availability, competence, excellent products and the desire to provide tailored solutions are MENNEKES’s factors for success in international markets. This is what we provide in over 80 countries worldwide.”

Karsten Hauck, Head of International Sales



” „We accelerate our company’s internationalisation through close cooperation with our customers all over the world. Client-oriented operations and efficient processes lead to the best service and help us reach our goals with our partners.“

Anne Schnieder-Sievers, Team Leader Customer Services Europe

MY POWER CONNECTION

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

Content

	Page
1 About us	
The company	4 - 7
Contact persons at MENNEKES in UK	8 - 9
2 Sockets	
Wall mounted sockets	14 - 16
Wall mounted sockets switched and interlocked or fused	17 - 21
Sockets Cepex	22
Panel mounted sockets	23 - 26
Panel mounted sockets, switched and interlocked	27
3 Plugs and connectors	
Plugs	33 - 34
Wall mounted inlets	35
Panel mounted inlets	36 - 37
Phase sequence test plugs	37
Phase inverter plugs	38
Accessories for plugs	38
Wall and panel mounted phase inverter inlets	39
Connectors	40 - 41
4 Combination units	
AMAXX, wall mounted, IP44	47 - 49
AMAXX, wall mounted, IP67	50 - 51
Accessories for AMAXX	52
High resistance to chemicals, made of AMELAN	53
AMAXX supporter, suspended	54
DELTA-BOXES, Wall mounted combination units, Socket strips	55 - 57
EverGUM	59
Stainless steel	61
5 Special plugs and sockets	
SCHUKO® and grounding-type	63 - 65
7 pole	67 - 68
600 V to 690 V	69
Special 1 h clock position	70
For low voltage	71 - 73
Isolating transformer 12 h	74
Energy and data	76 - 80
For reefer containers	82 - 84
TM for military purpose	85 - 86
Camping	87
Switch disconnectors	88
Hinged windows	89
6 Service	
References	90 - 91
Regulations and standards	92 - 99
Drawings and Dimensions	100 - 111
Index of part numbers	112 - 115





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

Christopher Menekes, General Management Director

MENNEKES – The company.

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

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

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

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

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

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

Christopher Mennekes
General Management Director



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



Plugs and sockets for toughest conditions



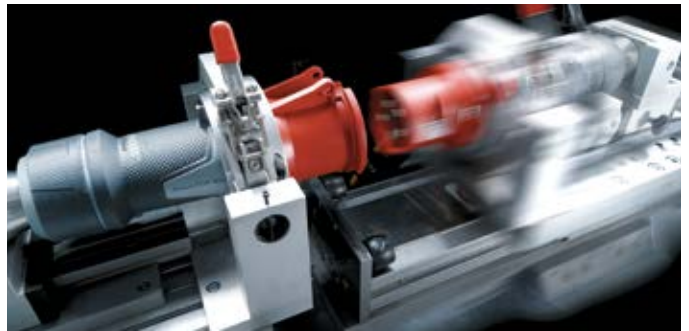
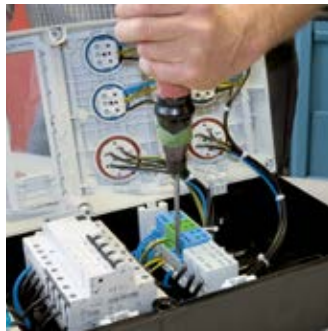
Family Mennekes (from left): Petra and Walter, Daniela and Christopher and Michael and Steffen

1 Quality – Tested under extreme conditions.



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

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



ZERTIFIKAT  **MENNEKES**
MY POWER CONNECTION

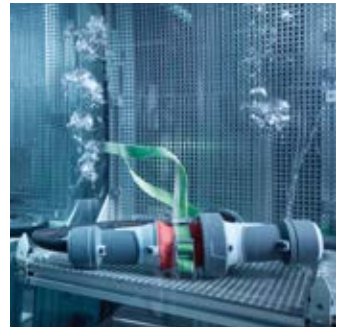
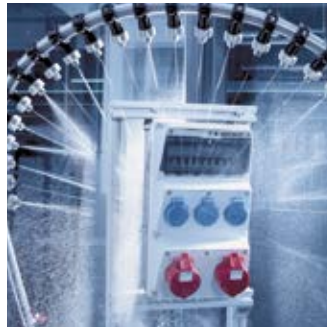
CERTIFICATE

für stückgeprüfte Qualität nach DIN EN 61439.

for individually tested quality according to IEC 61439.

Hiermit bestätigen wir, dass diese Steckdose-Kombination einer Stückprüfung unterzogen wurde.
Hereby we confirm that this receptacle combination has passed a random test.

Der MENNEKES-Sicherheitswert berücksichtigt nicht nur die elektrischen Prüfbedingungen nach DIN EN 61439, sondern beinhaltet darüber hinaus auch eine allgöige Hochspannungsprüfung.
The MENNEKES safety test not just include the requirements for electrical tests acc. to IEC 61439 but also a high voltage test for all poles.



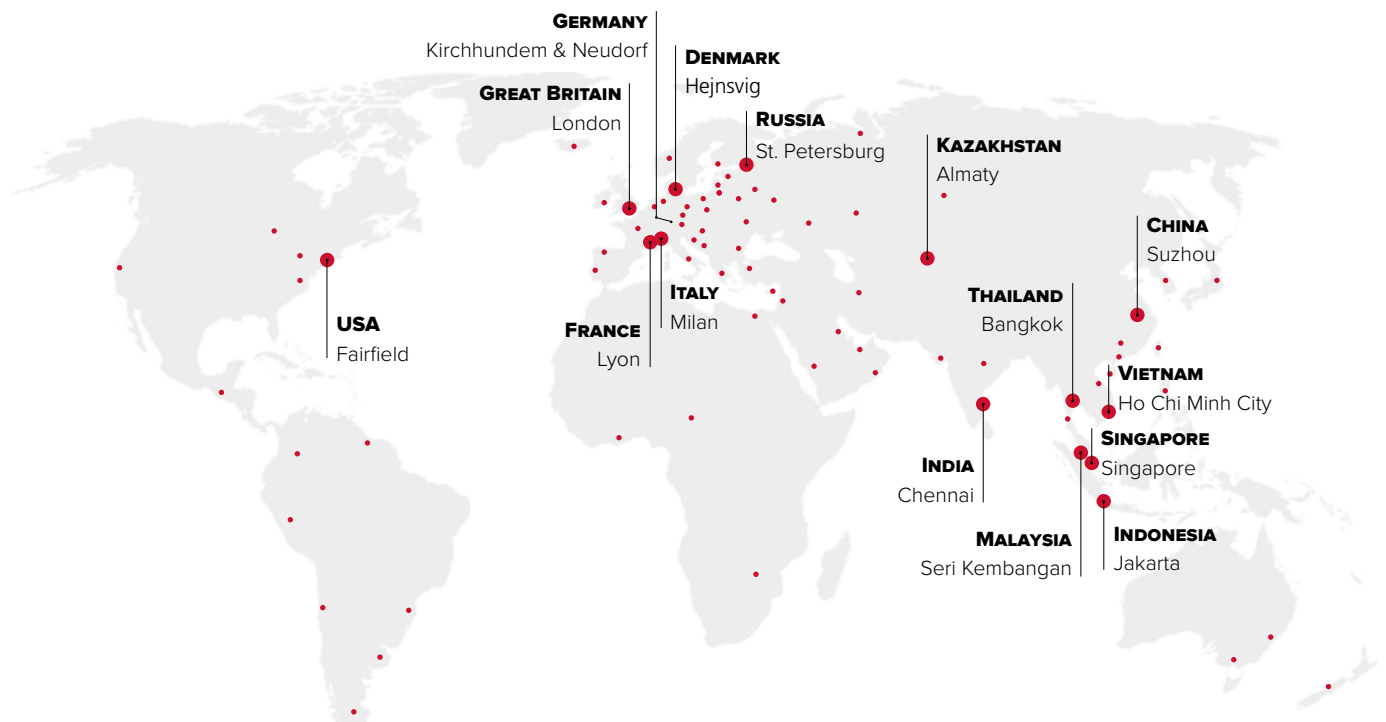
Only the combination of first-class raw materials and advanced manufacturing processes guarantee a premium product. This is why we use only first-grade plastics which are processed by a highly skilled workforce in state-of-the-art production facilities to create certified MENNEKES products.

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

Regionally rooted – At home around the world.

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 our 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 1,200 employees worldwide. It is they who, through their efforts on a daily basis, demonstrate the commitment to the MENNEKES brand.



Subsidiaries:

- Great Britain
- USA
- China
- Singapore
- Italy
- France
- Russia
- India

Representative Offices:

- Thailand
- Indonesia
- Malaysia
- Kazakhstan
- Denmark
- Vietnam

Commercial agencies:

- 15 in Germany
- 29 in Europe
- 46 outside of Europe

1 About us – Contact persons at MENNEKES UK.

MENNEKES Electric Ltd.



Unit 4, Crayfields Industrial Park
Main Road, St. Pauls Cray
Orpington, KENT BR5 3HP, UK
Phone 01689 833 522
Fax 01689 833 378
sales@MENNEKES.co.uk

Management Team



Chris Stockdale
Managing Director
Phone 01689 881 600
Fax 01689 833 378
christopher.stockdale@
MENNEKES.co.uk



David Lumley
Works Manager
Phone 01689 833 522
Fax 01689 833 378
david.lumley@MENNEKES.co.uk

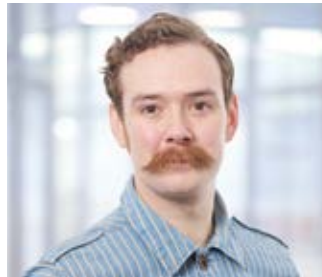
Sales Office Team



Wendy Sargent
Accounts Department
Phone 01689 881 607
Fax 01689 881 601
wendy.sargent@MENNEKES.co.uk



Roy Choules
Internal Sales
Phone 01689 833 522
Fax 01689 833 378
roy.choules@MENNEKES.co.uk



Russell Massey
Internal Sales
Phone 01689 833 522
Fax 01689 833 378
russell.massey@MENNEKES.co.uk

Regional Sales Engineers

01 - North & Scotland

To be announced
Phone +44 1689 833 522
Mobile +44 7950 394015
Fax +44 1689 833 378

02 - Central

Paul O'Brien
Phone +44 1689 833 522
Mobile +44 7793 220931
Fax +44 1689 833 378
paul.obrien@mennekes.co.uk

03 - Midlands

Nigel Sheehan
Phone +44 1689 833 522
Mobile +44 7711 054819
Fax +44 1689 833 378
nigel.sheehan@mennekes.co.uk

04 - South East

Andy Duddy
Phone +44 1689 833 522
Mobile +44 7704 156581
Fax +44 1689 833 378
andy.duddy@mennekes.co.uk

05 - South West

Paul Brocklebank
Phone +44 1689 833 522
Mobile +44 7985 260180
Fax +44 1689 833 378
paul.brocklebank@mennekes.co.uk

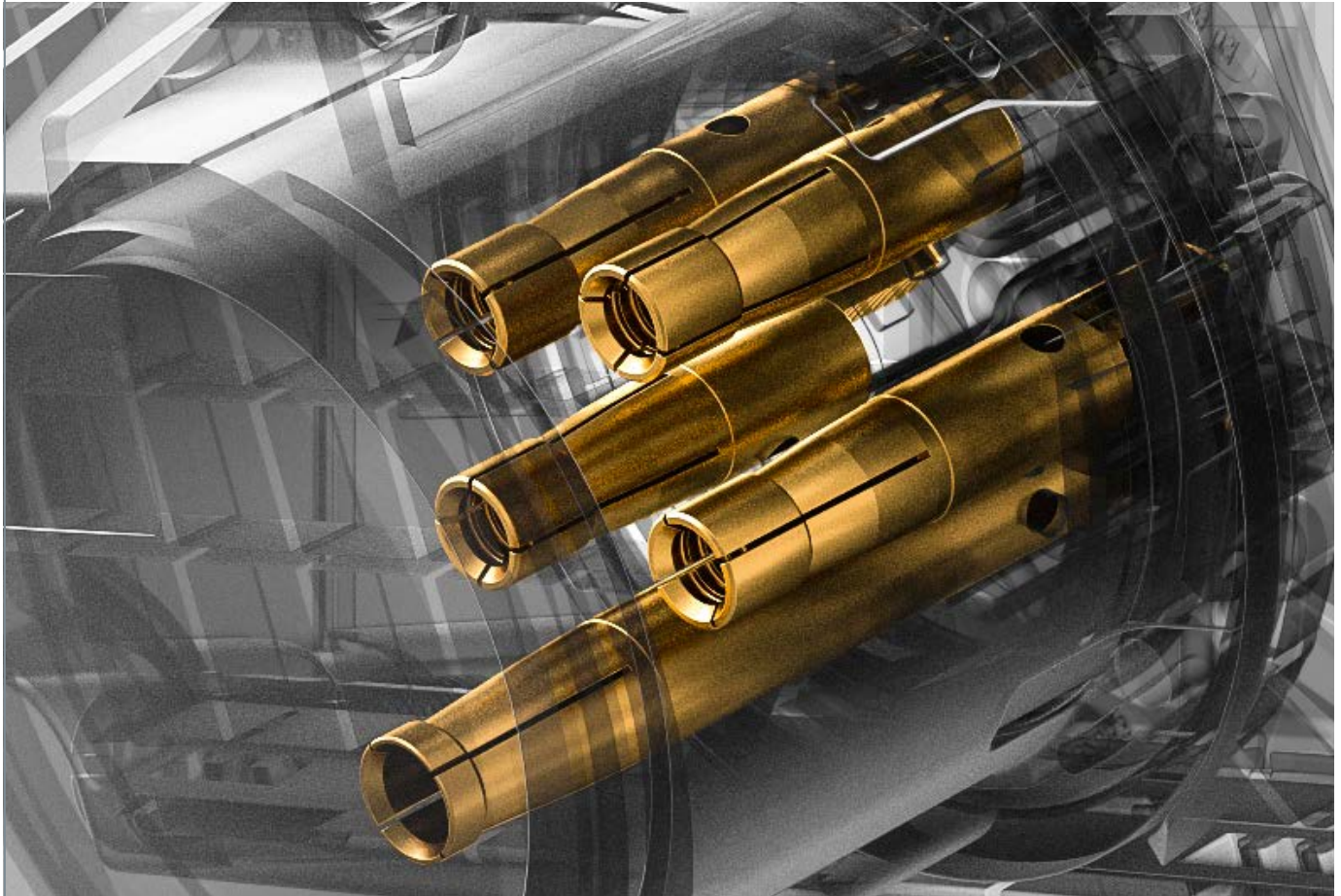
About us – Regional Sales Areas.



X-CONTACT

The future is now.

The new generation of contact sleeves.



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

Better contact

It is important to achieve the best possible balance between a safe contact closure and ease of insertion. We have successfully implemented this with X-CONTACT in an entirely new way. This technology is already used in our PowerTOP Xtra plugs and connectors in 16 to 125 A and our DUO wall mounted socket in 16 and 32 A.

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

Less effort

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

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

In our 63 and 125 A wall mounted and panel mounted sockets and our DUO wall mounted sockets in 16 and 32 A.



Innovative

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

X-CONTACT – intelligently innovative!

Durable

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

X-CONTACT – lasting solution!

Simple

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

X-CONTACT – simply brilliant!

Safe

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

X-CONTACT – double safety!



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



TwinCONTACT

The swift connection.

Looking for quick and easy connection?

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

2

Colour-coded terminals for unmistakable connections.



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

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



Sockets

with screw terminals.



Removable cover for easy access to wiring space.



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

DUO wall mounted socket

Fuse protection, switched and interlocked.

NEW

Machines and systems operate day and night, conveyor belts run without pause and cranes work nonstop to lift and carry materials weighing tons. Everywhere there's a need for safe reliable power in order to work smoothly and cost-effectively.



2



Practical mounting plate

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

Practical aperture with hinged lid


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

Lockout/tagout padlock for additional protection

Do you need to play it absolutely safe? The selector knob of every DUO wall mounted sockets switch has a hole for attaching your own lockout/tagout padlock. This gives you added safety by preventing the switch from being unintentionally turned on when a plug is in the socket. The result is complete safety, for example for carrying out maintenance tasks.



Sockets – 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 100 - 111. Products with pilot contact available on request.



Wall mounted socket
external fixing

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3		27001				
16	4			27002	27003		
16	5			27004			
32	3		27005				
32	4			27006	27007		
32	5			27008			



Wall mounted socket
internal fixing, 4 p and 5 p sockets
the enclosure can be turned 180°

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	100	101	102		2169	2241
16	4	103	104	105	106	107	
16	5	109	110	111	2000		2199



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

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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 socket
X-CONTACT, suitable for through
wiring, internal fixing, enclosure
base can be turned 180°

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	3	1136A	1137A				
63	4		1140A	1141A	1142A		
63	5		1144A	1145A			



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

IP67 
Std. Pack. Qty: 10
Drawing: 1 MB 622

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	9300	9301	9302			
16	4	9320	9321	9322	9323		
16	5		9341	9342			
32	3	9350	9351	9352			
32	4	9370	9371	9372	9373		
32	5	9380	9381	9382			





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

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	3	856	128A	129A			
63	4	130A	131A	132A	133A		
63	5	134A	135A	136A	2007A		

Sockets – Wall mounted, with screw terminals


to DIN VDE 0623, EN 60309-2.  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111. Products with pilot contact available on request.



Wall mounted socket
X-CONTACT, highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	4			3773			
63	5			3774			




Wall mounted socket
X-CONTACT

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
125	4	137	138	139	140		
125	5		142	143	2139		

2

High resistance to chemicals High quality plastics.

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




High resistance to:

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



Sockets – Wall mounted, screwless, with TwinCONTACT

to DIN VDE 0623, EN 60309-2.  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111. Products with pilot contact available on request.



Wall mounted socket
screwless, with TwinCONTACT,
external fixing

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	1340	1341				
16	4		1342	1343	1344		
16	5			31			
32	3	1345	1346				
32	4		1347	1348	1349		
32	5			32			



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

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	1719	1720	1721			
16	4		1723	1724	1725		1727
16	5		1730	3331			



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

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	4	1750	1751	418	1752	1753	1754
16	5	1755	1756	419	1757		
32	3	1851	420	1852			
32	4		1856	421	1857	1858	1859
32	5	1860	1861	422	1862		1864



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

IP67
Std. Pack. Qty: 10
Drawing: 1 MB 622

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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		9171	9172	9173	9174	
32	5	9180	9181	9182			



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

IP67
Std. Pack. Qty: 10
Drawing: 1 MB 622

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	5			1649			




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


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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	5			1650			
32	5			1651			

Sockets – Wall mounted, switched and interlocked or fused

to DIN VDE 0623, EN 60309-2.  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111. Products with pilot contact available on request.


NEW



Wall mounted socket
screw terminals, pre-wired for installation, X-CONTACT, switched, mechanical DUO-interlock, 3 pole switch, sockets can be padlocked

IP44
Std. Pack. Qty: 1
Drawing: 1 MB 713


A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz
16	3	5601304G	5601306G			
16	4		5601409G	5601406G	5601407G	
16	5			5601506G	5601507G	
32	3	5603304G	5603306G			
32	4	5603404G	5603409G	5603406G	5603407G	
32	5		5603509G	5603506G	5603507G	



Wall mounted socket
X-CONTACT, switched, with mechanical DUO-interlock

IP44
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 300-500 Hz
63	3		6571			
63	4		5955A	5956A	5957A	
63	5			5959A		




Wall mounted socket
switched, with mechanical DUO-interlock

IP44
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 300-500 Hz
16	3	7602	7603			
16	4		7604	7605		
16	5			7607		
32	3		7612			
32	4		7613	7614		
32	5			7616		

NEW




Wall mounted socket
screw terminals, pre-wired for installation, X-CONTACT, switched, mechanical DUO-interlock, 3 pole switch, sockets can be padlocked


IP67
Std. Pack. Qty: 1
Drawing: 1 MB 714

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz
16	3	5602304G	5602306G			
16	4			5602406G	5602407G	
16	5			5602506G		
32	3	5604304G	5604306G			
32	4		5604409G	5604406G	5604407G	
32	5		5604509G	5604506G		


NEW



Wall mounted socket R
screw terminals, pre-wired for installation, X-CONTACT, highly resistant to chemicals, switched, mechanical DUO-interlock, highly heat resistant contact carrier, nickel plated contacts, 3 pole switch, sockets can be padlocked

IP67 
Std. Pack. Qty: 1
Drawing: 1 MB 714

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz
16	3		5802306G			
16	4			5802406G		
16	5			5802506G		
32	3		5804306G			
32	4			5804406G		
32	5			5804506G		




Wall mounted socket
X-CONTACT, switched, with mechanical DUO-interlock

IP67
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 300-500 Hz
63	3	5925A	5911A			
63	4		5109A	5110A	5111A	
63	5		5112A	5113A	5759A	

Sockets – Wall mounted, switched and interlocked or fused

to DIN VDE 0623, EN 60309-2.  Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 100 - 111.



Wall mounted socket

X-CONTACT, highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, with mechanical DUO-interlock

IP67

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 300-500 Hz	
63	4			7289			
63	5			7290			



Wall mounted socket

X-CONTACT, switched, with mechanical DUO-interlock

IP67

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

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
125	3		7000				
125	4		5887A	5691A	5690A		
125	5		5888A	5692A			



Wall mounted socket

switched, with mechanical DUO-interlock

IP67

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

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3	7620	7621				
16	4			7624	7625		
16	5			7626			
32	3	7628	7629				
32	4		7633	7634	7635		
32	5			7636			

X-CONTACT

The new generation of contact sleeves.

X-CONTACT
INSIDE





Video:
X-CONTACT

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



Sockets – Wall mounted, switched and interlocked or fused


to DIN VDE 0623, EN 60309-2.  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111. Products with pilot contact available on request.



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

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


A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3		7394				
16	4			7291ZA			
16	5			7292			
32	5			7294			



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

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


A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
63	4			7295			
63	5			7296			



Wall mounted socket
protected by 1 RCD 30 mA

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


A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3	7123	7125				
16	4			7126			
16	5			7312			
32	3		7469				
32	4			7127			
32	5			7313			



Wall mounted socket
protected by 1 RCD 30 mA

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


A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3		7148				
16	5			7150			
32	5			7152			



Wall mounted socket
protected by 1 "C"-type MCB

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

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3		910253				





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

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

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	5			920958			
32	4			920961			
32	5			920962			

Sockets – Wall mounted, switched and interlocked or fused


to DIN VDE 0623, EN 60309-2.  Highly resistant to chemicals. Other voltages and frequencies available on request.
For drawings and dimensions see page 100 - 111. Products with pilot contact available on request.



Wall mounted socket
protected by 1 RCD 30 mA

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


A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3		910244				
16	5			920838			
32	3	920845					



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

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


A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3	910245	910584				
16	5			920860			
32	4			920863			



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

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


A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3	921380	922452				
16	4			922517			
16	5			922453			
32	3	922519	921442				
32	4			922518			
32	5			922218			



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

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


A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3		931539				
32	3		934285				
32	5			932285			




Wall mounted socket
protected by 1 RCD 30 mA

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

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3	920700	920649				
16	4			920791			
16	5			920278			
32	3		921160				





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

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

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
16	3		920821				
16	5			923275			
32	3		923276				
32	4			923297			

Sockets – Wall mounted, switched and interlocked or fused


to DIN VDE 0623, EN 60309-2.  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111. Products with pilot contact available on request.



Wall mounted socket
X-CONTACT,
protected by 1 RCD 30 mA

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	3		920666				
63	4			920668			
63	5			920670			



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

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	7393UK	7245UK				
16	4			7246UK			
16	5			7247UK			
32	3	7434	7470UK				
32	4			7248UK			
32	5			7249UK			



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

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3		7252				
16	4			7253			
16	5			7254UK			
32	4			7255			
32	5			7256UK			



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

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	3		7260				
63	4			7250			
63	5			7251			



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

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	4			7257			
63	5			7258			




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

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
125	5			5692AM			

Sockets – Cepex


to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.



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

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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 socket Cepex
grey, with labelling field

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 317


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3		4132				
16	4			4133			
16	5			4135			
32	3		4137				
32	4			4138			
32	5			4140			



Panel mounted socket Cepex
pearl white

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 315


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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 socket Cepex
pearl white, with flush mounted installation box

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3		4122				
16	4			4123			
16	5			4125			
32	3		4127				
32	4			4128			
32	5			4130			



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

IP44
Std. Pack. Qty: 5/4
Drawing: 1 MB 350

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3		4219				
16	4			4220			
16	5			4204			
32	3		4224				
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 77.


Distance frame on request.

Cepex range panel sockets rated 16 A and 32 A have the same dimensions.

It is, therefore, possible to interchange single or 3 phase sockets on a 2-gang enclosure to suit your own requirements.

Sockets – Panel mounted, with screw terminals


to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.
Products with pilot contact available on request.



Panel mounted socket
flange 75 x 75 mm, straight

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 464


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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		1398	1399	1400	1401	1402
32	5	3449	3454	3451	3452	3455	3447



Panel mounted socket
X-CONTACT,
flange 107 x 110 mm, straight

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	3	1260A	1261A				
63	4		1247A	1248A	1249A		
63	5			1252A			



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

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	1462	1463	1464		3186	3187
16	4	1465	1466	1467	1468	1469	1470
16	5	1471	1472	1473	3188	3189	3190
32	3	1491	1492	1493		3201	3202
32	4	1494	1495	1496	1497	1486	1487
32	5	1498	1499	1500	3191	3192	3193



Panel mounted socket
X-CONTACT,
flange 110 x 106 mm,
inclination 20°

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	3	1146A	1147A	1148A			
63	4	1149A	1150A	1151A	1152A		
63	5	1153A	1154A	1155A			



Panel mounted socket
standard flange,
dimensions 85 x 85 mm,
20° inclination

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	3031	3036				
16	4			3072	3074		
16	5			3093			
32	3	3110	3112				
32	4		3140	3136	3114		
32	5			3153			




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

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	858	857				

Sockets – 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 100 - 111.
Products with pilot contact available on request.



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

IP67
Std. Pack. Qty: 10
Drawing: 1 MB 141


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	217A	218A	219A			
16	4		221A	222A	223A	224A	
16	5	226A	227A	228A			
32	3	229A	230A	231A			
32	4	232A	233A	234A	235A	236A	
32	5		239A	240A			



Panel mounted socket
flange 16 A, 3 p: 73,5 x 64 mm,
16 A, 4 + 5 p, 32 A: 100 x 92 mm,
inclination 20°, 32 A sockets
optional fitted with auxiliary contact

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	1474	1475	1476			
16	4	1477	1478	1479	1480	1481	
16	5		1484	1485			
32	3	1501	1502	1503			
32	4	1504	1505	1506	1507		
32	5		1490	1551			



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

IP67
Std. Pack. Qty: 10
Drawing: 1 MB 452


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	903	905				
16	4			1081	1082		
16	5			1103			
32	3	3197	3200				
32	4			3254	3256		
32	5			3524			



Panel mounted socket
X-CONTACT,
flange 63 A: 107 x 100 mm,
125 A: 130 x 130 mm, straight

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 212/258


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	3	1263A	1264A	1265A			
63	4		1123A	1124A	1125A		
63	5		1127A	1128A			
125	3		3380				
125	4	1455	1456	1457	1458		
125	5		1460	1461	3283		



Panel mounted socket
X-CONTACT,
flange 63 A: 110 x 106 mm,
inclination 20°,
125 A: 114 x 110 mm,
inclination 15°

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 298/601

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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		211A	212A	213A		
125	5		215A	216A			




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

Std. Pack. Qty: 10

Part no.	
41000	

Sockets – Panel mounted, screwless, with TwinCONTACT


to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.



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

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 464


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	1667	1668	1669			1671
16	4	1672	1673	1674	1675	1676	1677
16	5	1678	1679	3385	1680		1682
32	3	1786	1787	1788			
32	4		1790	1791	1792	1793	1794
32	5	1795	1796	1797	1798		1800



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

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 465


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	1631	1632	1633			1635
16	4		1637	1638	1639	1640	1641
16	5	1642	1643	3473	1644		1646
32	3	1733	1734	1735			1737
32	4		1739	1740	1741	1742	1743
32	5	1744	1745	1746	1747		1749



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

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 519

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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 socket
screwless, with TwinCONTACT,
miniflange: 55 x 55 mm, straight


IP44
Std. Pack. Qty: 10
Drawing: 1 MB 426

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	1618	1619				

Sockets – Panel mounted sockets, screwless, with TwinCONTACT

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.


2



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

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	1707	1708	1709			
16	4	1710	1711	1712	1713	1714	
16	5	1716	1717	1131			
32	3	1809	1810				
32	4		1813	1814	1815		
32	5	1818	1819	1820			



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

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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		
32	5			1808			



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

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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 sockets
and panel mounted
sockets 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

Sockets – Panel mounted sockets, switched and interlocked


to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.



Panel mounted socket
switched, with mechanical
DUO-interlock

IP44
Std. Pack. Qty: 1
Drawing: 5 MB 59

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	7502	7503				
16	4			7505			
16	5			7507			
32	3		7512				
32	5			7516			



Panel mounted socket
switched, with mechanical
DUO-interlock

IP67
Std. Pack. Qty: 1
Drawing: 5 MB 57

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

2

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

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

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

PowerTOP Xtra: plugs and connectors for professional electricians!



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

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



Ergonomically optimized design



Simplified assembly



Easier and safer connection



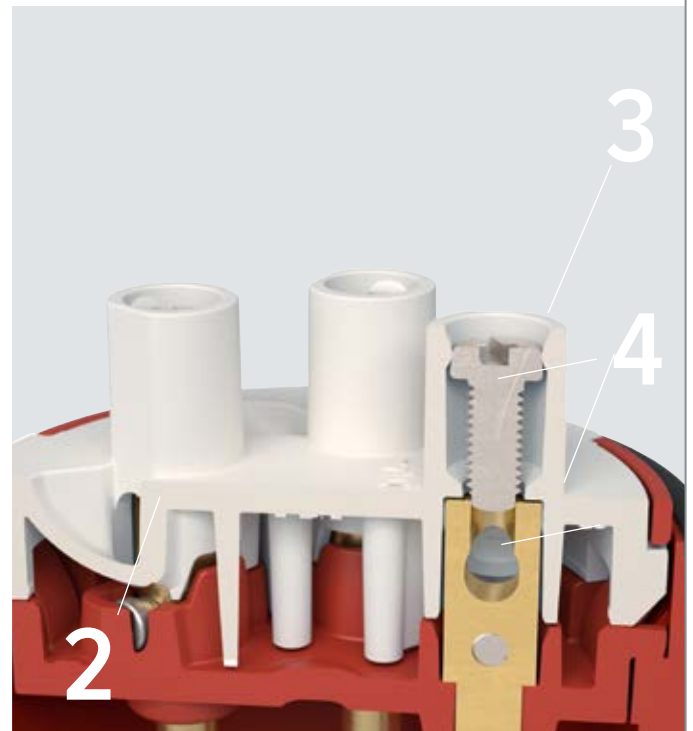
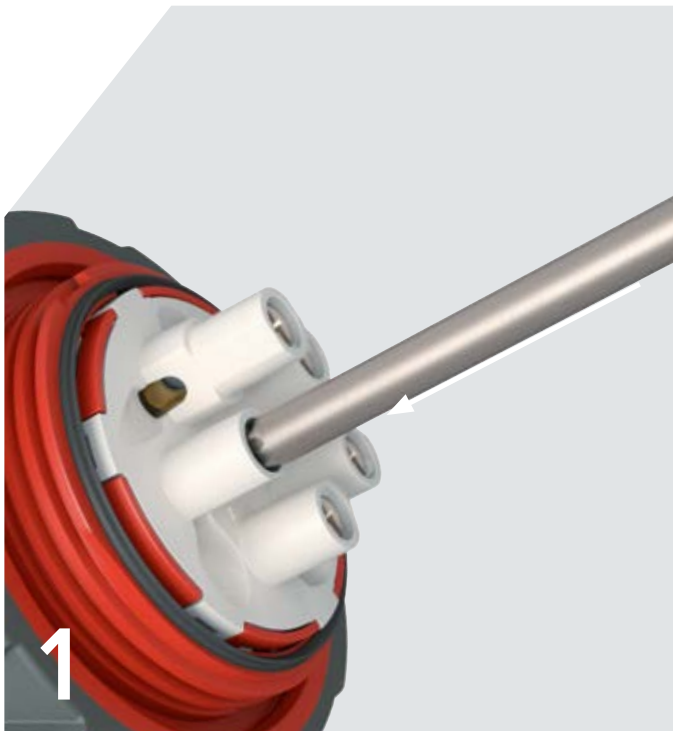
Effortless connecting and disconnecting with X-CONTACT

Easier and safer connection with ErgoCONTACT.



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

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



3

1

Ergonomically effective installation

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

2

Conductor insertion

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

3

Guide collar

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

4

Captive combination head screw

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

X-CONTACT

X-CONTACT® 

The new generation of contact sleeves.

Better contact

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



Less effort!

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

Learn more about the new generation of contact sleeves at:

www.mennekes.co.uk/x-contact



The X principle

Easy handling meets safe connections.

Innovative

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

X-CONTACT – intelligently innovative!

Durable

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

X-CONTACT – lasting solution!

Simple

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

X-CONTACT – simply brilliant!

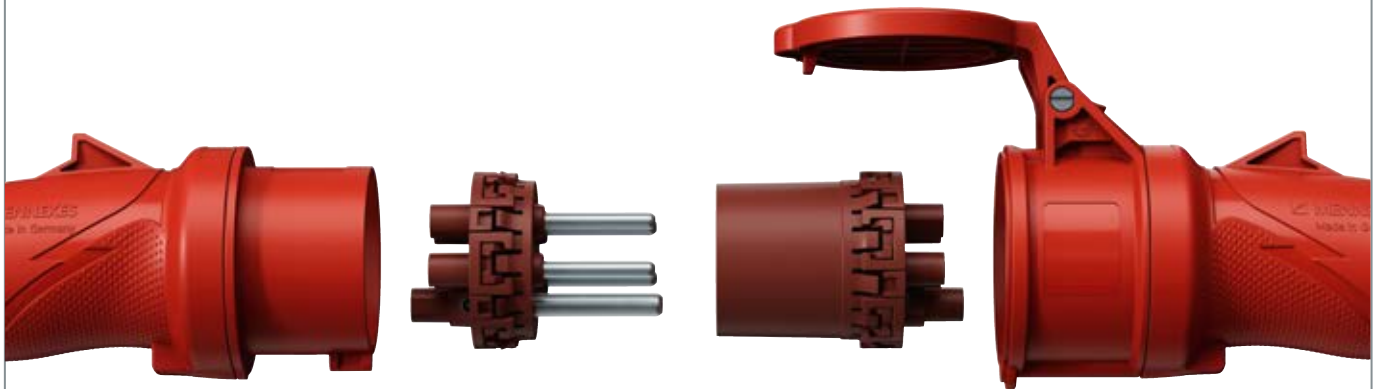
Safe

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

X-CONTACT – double safety!



AM-TOP and PowerTOP Xtra for use in corrosive environments.



Highly heat resistant contact carrier and nickel plated contacts.

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

3



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

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




Angled plug VarioTOP Ergonomic. Practical. Safe.

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


Plugs and connectors – Plugs

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




Plug PowerTOP Xtra with ErgoCONTACT
ergonomic enclosure design with nubbed grip zones, rubberised cable gland with sealing, strain relief and protection against kinking, thread lock and safety slide, area for self-adhesive labels
IP54
Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V	
						100-300 Hz	300-500 Hz
16	3		13502				
16	4			13506			
16	5		13509	13510	13511		
32	3		13513				
32	4			13516			
32	5		13519	13520			




Plug AM-TOP
single part body
IP44
Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V	
						100-300 Hz	300-500 Hz
16	3	247		249		2168	2271
16	4	250	251		253	254	255
16	5					2189	2243
32	3	259		261		2195	2341
32	4	262	263		265	266	267
32	5				2015	2244	2178



Plug PowerTOP Xtra S
screwless, with insulation displacement technology, ergonomic enclosure design with nubbed grip zones, rubberised cable gland with sealing, strain relief and protection against kinking, thread lock and safety slide
IP54
Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V	
						100-300 Hz	300-500 Hz
16	3		13521				
16	5			13522			
32	5			13523			









Plug PowerTOP Xtra R
rubberised grip area, highly heat resistant contact carrier, frame terminals, nickel plated contacts, cable gland and sealing, strain relief and protection against kinking
IP54
Std. Pack. Qty: 5

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V	
						100-300 Hz	300-500 Hz
63	3	13101	13102				
63	4		13105	13106	13107		
63	5		13111	13112			


Plugs and connectors – Plugs

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

 <p>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</p> <p>IP44 Std. Pack. Qty: 10</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	5		3981	3980			
	16	5		3983	3982			
 <p>Angled plug with grommet</p> <p>IP44 Std. Pack. Qty: 10</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	3	1410	1411				
	16	4		891	315			
	32	3	3312	3306				
	32	4		3646	3987			
	32	5		3424	3266			
 <p>Plug AM-TOP single part body, cable gland and sealing, strain relief and protection against kinking</p> <p>IP67 Std. Pack. Qty: 10</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	3	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			
 <p>Plug PowerTOP with external cable grip, highly heat resistant contact carrier and nickel plated contacts</p> <p>IP67 Std. Pack. Qty: 10</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	3	3794	3796	3799			
	16	4	3807	3811	3809	3810		
	16	5	3819	3823	3821			
	32	3	3829	3830	3832			
	32	5	3851	3855	3853			
 <p>Plug PowerTOP Xtra R with ErgoCONTACT highly heat resistant contact carrier, nickel plated contacts, ergonomic enclosure design with nubbed grip zones, rubberised cable gland with sealing, thread lock and safety slide</p> <p>IP54 Std. Pack. Qty: 10</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	5	13561	13562	13563	13564	13565	13567
	32	5	13582	13583	13584	13585	13586	13587
 <p>Plug PowerTOP Xtra R rubberised grip area, highly heat resistant contact carrier, frame terminals, nickel plated contacts, cable gland and sealing, strain relief and protection against kinking</p> <p>IP67 Std. Pack. Qty: 5</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	63	3	13201	13202	13203			
	63	4	13204	13205	13206	13207	13208	13209
	63	5	13210	13211	13212	13213		13214
	125	3	13215	13216				
	125	5	13223	13224	13225	13226		13227

Plugs and connectors – Wall mounted inlets


to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.



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

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


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



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

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


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



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

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


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



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

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


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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		347	348	349		
32	5	352	353	354	2386		



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

IP67
Std. Pack. Qty: 5/3
Drawing: 2 MB 36

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	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		367	368			




Hinged lid
for retrofitting for wall mounted inlets

Std. Pack. Qty: 10

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


Plugs and connectors – Panel mounted inlets

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.



Panel mounted inlet
16 A: flange 66 x 66 mm, fixing distance 52 x 52 mm, 32 A: flange 72 x 72 mm, fixing distance 60 x 60 mm, a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking
IP44
Std. Pack. Qty: 10
Drawing: 2 MB 68


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



Panel mounted inlet
flange 75 x 75 mm, fixing distance: 60 x 60 mm, a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking
IP44
Std. Pack. Qty: 10
Drawing: 2 MB 68/853


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 300-500 Hz
16	5			853		

3




Panel mounted inlet
nickel plated contacts, a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking
IP44
Std. Pack. Qty: 10
Drawing: 2 MB 173/2

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




Panel mounted inlet
highly heat resistant contact carrier, nickel plated contacts, a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking
IP44
Std. Pack. Qty: 5
Drawing: 2 MB 155

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



Panel mounted inlet
nickel plated contacts, a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking
IP67
Std. Pack. Qty: 10
Drawing: 2 MB 187/2

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




Panel mounted inlet
highly heat resistant contact carrier, nickel plated contacts, 63 A: a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure satisfactory locking
IP67
Std. Pack. Qty: 5
Drawing: 2 MB 166

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

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


to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.



Panel mounted inlet

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 73


A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	4	371	372	373			
16	5			379			
32	3	380	381				
32	4	383	384	385	386		
32	5		390	391			



Panel mounted inlet with hinged lid

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 43

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	4	392	393	394	395		
16	5	398	399	400			
32	3	401	402	403			
32	4		405	406	407		
32	5	410	411	412			



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

IP44
Std. Pack. Qty: 5

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

3

Phase sequence test plug

Enables safe control of the direction of the rotating field for CEE sockets.

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

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

Correct rotating field: Green lamp lights up.

Incorrect rotating field: Red lamp lights up.


Phase missing: Both lamps light up.

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



Plugs and connectors – Phase inverter plugs, accessories for plugs


to DIN 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

IP44
Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V	
		100-300 Hz	300-500 Hz				
16	4		338	339			
16	5		318	319			
32	4		396	397			
32	5		321	322			




Phase inverter plug AM-TOP
single part body

IP67
Std. Pack. Qty: 10

A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V	
		100-300 Hz	300-500 Hz				
16	4		3338	3339			
16	5			325			
32	4		3340	3341			
32	5		327	328			


3



Protective cover
for IP67 inlets and plugs

Std. Pack. Qty: 50


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



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

Std. Pack. Qty: 1

Part no.
41416




Plug guard.

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

Plugs and connectors – Phase inverter inlets


to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.



Wall mounted phase inverter inlet

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

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	4		3342	3343			
16	5			2511			
32	4		3345	3346			
32	5		3347	2478			



Panel mounted phase inverter inlet

IP44
Std. Pack. Qty: 10
Drawing: 2 MB 73

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	4			855			
16	5			329			
32	4			3368			
32	5		913	330			

X-CONTACT

The new generation of contact sleeves.

X-CONTACT
INSIDE




Video:
X-CONTACT

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




Plugs and connectors – Connectors

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



Connector PowerTOP Xtra with ErgoCONTACT
X-CONTACT, ergonomic enclosure design with nubbed grip zones, rubberised cable gland with sealing, strain relief and protection against kinking, thread lock and safety slide, area for self-adhesive labels
IP54
Std. Pack. Qty: 10

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3		14502				
16	4			14506			
16	5		14509	14510	14511		
32	3		14513				
32	4			14516			
32	5		14519	14520			




Connector AM-TOP
single part body

IP44
Std. Pack. Qty: 10

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
16	3	509		511		2441	2517
16	4	512	513		515	516	517
16	5					2193	2495
32	3	521		523		2196	2674
32	4	524	525		527	528	529
32	5	530	531			2245	2493


3



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

IP54
Std. Pack. Qty: 5

A	P	110 V	230 V	400 V	500 V	>50 - 500 V	
		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
63	3	14101	14102				
63	4		14105	14106	14107		
63	5		14111	14112			









Angled Connector
with grommet

IP44
Std. Pack. Qty: 10

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

Plugs and connectors – Connectors

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		A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz		
	16	5					3778				
	32	5					3999				
IP44 Std. Pack. Qty: 10											
	Connector PowerTOP with external cable grip and highly heat resistant contact carrier		A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz		
	16	3			3859	3860	3862				
	16	4				3873	3871	3872			
	16	5			3879	3883	3881				
	32	3			3887	3888	3891				
	32	4				3899	3897	3898			
	32	5				3909	3907				
IP67 Std. Pack. Qty: 10											
	Connector AM-TOP single part body, cable gland and sealing, strain relief and protection against kinking		A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz		
	16	3			539	540	541				
	16	4			542	543	544	545	546		
	16	5			548	549	550				
	32	3			551	552	553				
	32	4			554	555	556	557	558		
	32	5			560	561	562				
IP67 Std. Pack. Qty: 10											
	Connector PowerTOP Xtra R with ErgoCONTACT X-CONTACT, ergonomic enclosure design with nubbed grip zones, highly heat resistant contact carrier, nickel plated contacts, rubberised cable gland with sealing, strain relief and protection against kinking		A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz		
	16	5			14561	14562	14563		14565	14567	
	32	5			14582		14584	14585	14586	14587	
IP54 Std. Pack. Qty: 10											
	Connector PowerTOP Xtra X-CONTACT, rubberised grip area, highly heat resistant contact carrier, frame terminals, cable gland and sealing, strain relief and protection against kinking		A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz		
	63	3			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	
IP67 Std. Pack. Qty: 5											
	Hanging clip for PowerTOP plugs and connectors		Description					Part no.			
			for 16 A, 3 to 5 p and 32 A, 3 + 4 p					15453000			
			for 32 A, 5 p					15452000			
Std. Pack. Qty: 100											

Success in series.

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

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

AMAXX Supporter – AMAXX combination and mounting unit

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



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

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



The space-saver AMAXX s

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



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

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

Variety of versions.

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



4

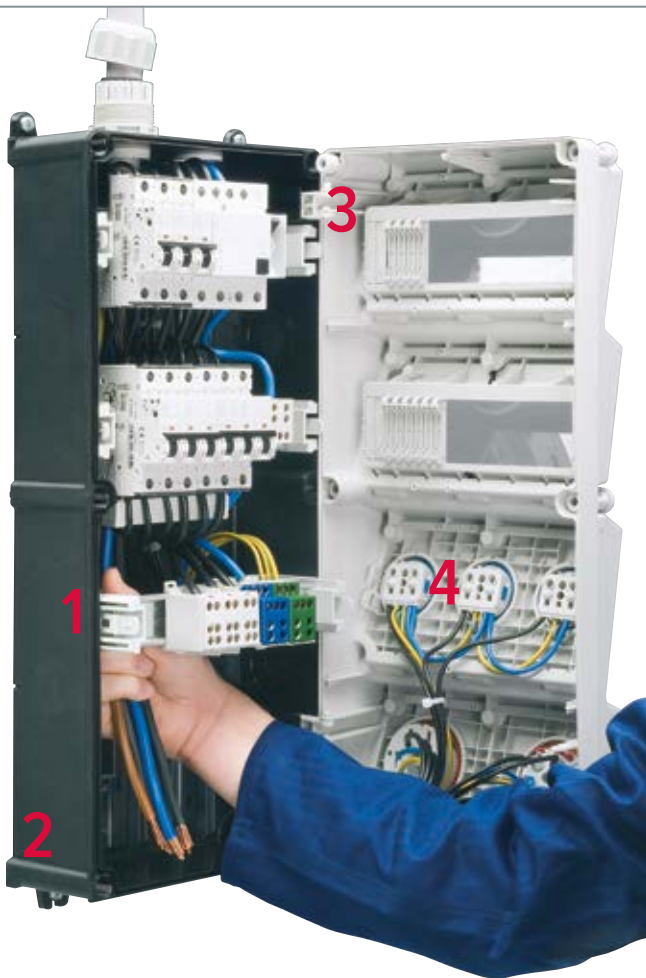
You can rely on it.

MENNEKES quality: tested and certified.

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

<h1>ZERTIFIKAT</h1> <p>CERTIFICATE</p> <p>für stückgeprüfte Qualität nach DIN EN 61439.</p> <p>for individually tested quality according to IEC 61439.</p>	<p>MENNEKES MY POWER CONNECTION</p>
<p>Hiermit bestätigen wir, dass diese Steckdosen-Kombination einer Stückprüfung unterzogen wurde.</p> <p>Herewith we confirm that this receptacle combination has passed a routine test.</p> <p>Der MENNEKES-Sicherheitstest berücksichtigt nicht nur die elektrischen Prüfanforderungen nach DIN EN 61439, sondern beinhaltet darüber hinaus auch eine allpolige Hochspannungsprüfung.</p> <p>The MENNEKES safety test not just include the requirements for electrical tests acc. to IEC 61439 but also a high voltage test for all poles.</p>	
<p>Dietmar Löcker Bereichsleiter Qualität / Division Manager Quality</p>	
<p>MENNEKES Elektrotechnik GmbH & Co. KG Alloys-Mennekes-Straße 1 57399 KIRCHRUDEM / GERMANY</p>	<p>Phone: +49 2723 41-1 Fax: +49 2723 41-214 www.MENNEKES.de</p>





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.



- Generally angled insertion direction, also with sockets SCHUKO®



- Keeps both hands free because inspection windows fold downwards



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



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

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

The 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 combination units 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 94 to 97 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 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. MENNEKES combination units 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 combination units that are prewired 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


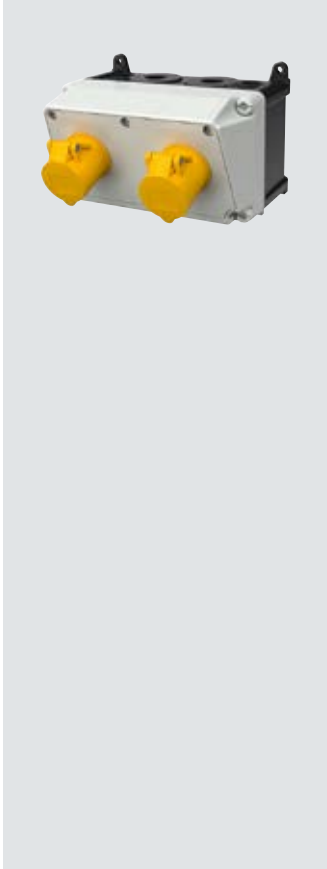
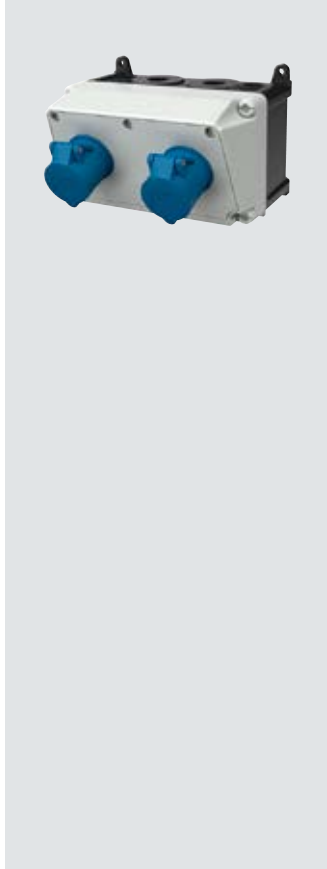
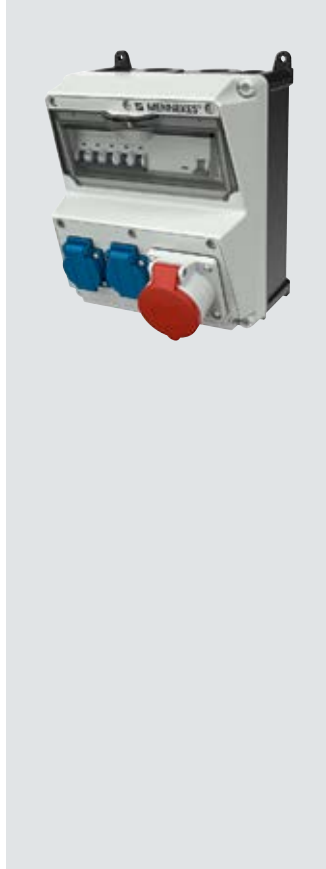
I_{cc} Conditional rated short-circuit current

Protection class

IP Ingress protection

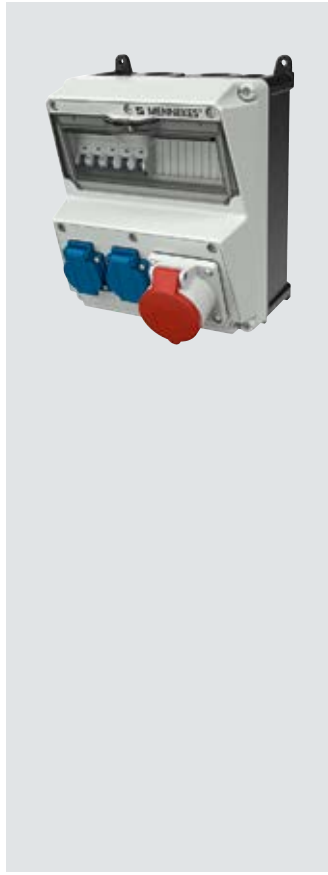
Combination units – Wall mounted, AMAXX

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

			
CEE sockets	CEE sockets	CEE sockets	CEE sockets
	2 CEE 16 A, 3 p, 110 V		1 CEE 16 A, 5 p, 400 V
CEE sockets	CEE sockets	CEE sockets	CEE sockets
		2 CEE 16 A, 3 p, 230 V	
Sockets British standard	Sockets British standard	Sockets British standard	Sockets British standard
3 x 13 A, 2 p+E, 230 V			2 x 13 A, 2 p+E, 230 V
Fusing	Fusing	Fusing	Fusing
1 RCD 40 A, 4 p, 0.03 A 3 MCB's 13 A, 1 p, C			1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 2 MCB's 13 A, 1 p, C
Connection	Connection	Connection	Connection
For 1 cable up to 5 x 10 mm ²	For 2 cables up to 3 x 4 mm ²	For 2 cables up to 3 x 4 mm ²	For 1 cable up to 5 x 10 mm ²
Connection and load values	Connection and load values	Connection and load values	Connection and load values
Pre-fuse max. 63 A InA 39 A RDF 1			Pre-fuse max. 63 A InA 28 A RDF 0.95
Enclosure size	Enclosure size	Enclosure size	Enclosure size
260 x 225 mm (H x W)	130 x 225 mm (H x W)	130 x 225 mm (H x W)	260 x 225 mm (H x W)
Part no.	Part no.	Part no.	Part no.
921015	910214	910394	920286

Combination units – Wall mounted, AMAXX

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



CEE sockets

1 CEE 16 A, 5 p, 400 V

CEE sockets

Sockets British standard

2 x 13 A, 2 p+E, 230 V

Fusing

1 MCB 16 A, 3 p, C
2 MCB's 13 A, 1 p, C

Connection

For 1 cable up to 5 x 10 mm²

Connection and load values

Pre-fuse max. 63 A
InA 29 A
RDF 1

Enclosure size

260 x 225 mm (H x W)

Part no.

920464



CEE sockets

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

CEE sockets

Sockets British standard

Fusing

2 MCB's 16 A, 3 p, C

Connection

For 1 cable up to 5 x 10 mm²

Connection and load values

Pre-fuse max. 100 A
InA 32 A
RDF 1

Enclosure size

390 x 225 mm (H x W)

Part no.

931227



CEE sockets

1 CEE 16 A, 5 p, 400 V

CEE sockets

Sockets British standard

2 x 13 A, 2 p+E, 230 V

Fusing

1 RCD 40 A, 4 p, 0.03 A
1 MCB 16 A, 3 p, C
1 MCB 13 A, 1 p, C

Connection

For 1 cable up to 5 x 10 mm²

Connection and load values

Pre-fuse max. 63 A
InA 29 A
RDF 1

Enclosure size

650 x 112.5 mm (H x W)

Part no.

960043



CEE sockets

2 CEE 16 A, 5 p, 400 V

CEE sockets

Sockets British standard

Fusing

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

Connection

For 1 cable up to 5 x 10 mm²

Connection and load values

Pre-fuse max. 63 A
InA 16 A
RDF 1

Enclosure size




260 x 225 mm (H x W)

Part no.

920860

Combination units – Wall mounted, AMAXX

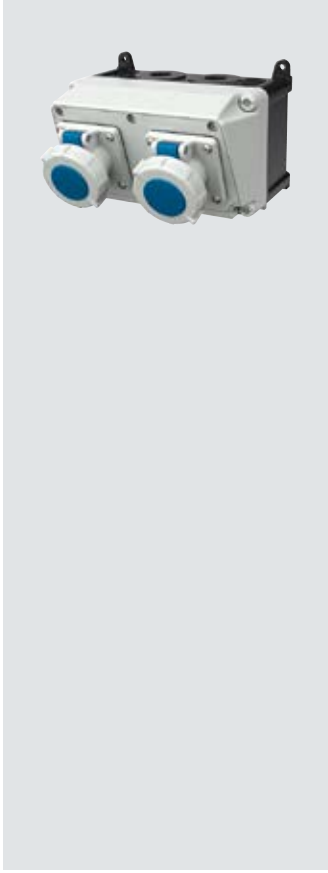



Pre-wired for installation, IP44, enclosure front cover light grey RAL 7035, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 109 - 110.

		
<p>CEE sockets 2 CEE 16 A, 5 p, 400 V</p>	<p>CEE sockets 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V</p>	<p>CEE sockets 1 CEE 63 A, 5 p, 400 V 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V</p>
<p>CEE sockets</p>	<p>CEE sockets</p>	<p>CEE sockets</p>
<p>Sockets British standard</p>	<p>Sockets British standard 2 x 13 A, 2 p+E, 230 V</p>	<p>Sockets British standard 2 x 13 A, 2 p+E, 230 V</p>
<p>Fusing 2 RCD's 40 A, 4 p, 0.03 A</p>	<p>Fusing 1 RCD 40 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 2 MCB's 13 A, 1 p, C</p>	<p>Fusing 1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 2 MCB's 13 A, 1 p, C</p>
<p>Connection For 1 cable up to 5 x 10 mm²</p>	<p>Connection For 1 cable up to 5 x 16 mm²</p>	<p>Connection For 1 cable up to 5 x 16 mm²</p>
<p>Connection and load values Pre-fuse max. 16 A InA 16 A RDF 1</p>	<p>Connection and load values Pre-fuse max. 40 A InA 40 A RDF 0.85</p>	<p>Connection and load values Pre-fuse max. 63 A InA 63 A RDF 0.65</p>
<p>Enclosure size 260 x 225 mm (H x W)</p>	<p>Enclosure size 390 x 225 mm (H x W)</p>	<p>Enclosure size 520 x 225 mm (H x W)</p>
<p>Part no. 920851</p>	<p>Part no. 931234</p>	<p>Part no. 941137</p>

Combination units – Wall mounted, AMAXX

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

4

			
CEE sockets	CEE sockets	CEE sockets	CEE sockets
	2 CEE 16 A, 3 p, 110 V		
CEE sockets	CEE sockets	CEE sockets	CEE sockets
2 CEE 16 A, 3 p, 230 V		2 CEE 16 A, 3 p, 230 V	2 CEE 16 A, 3 p, 230 V
Sockets British standard	Sockets British standard	Sockets British standard	Sockets British standard
Fusing	Fusing	Fusing	Fusing
	1 RCD 25 A, 2 p, 0.03 A	1 RCD 25 A, 2 p, 0.03 A 1 MCB 16 A, 1 p, C	1 RCD 25 A, 2 p, 0.03 A
Connection	Connection	Connection	Connection
For 1 cable up to 3 x 10 mm ²	For 1 cable up to 3 x 10 mm ²	For 1 cable up to 3 x 10 mm ²	For 1 cable up to 3 x 10 mm ²
Connection and load values	Connection and load values	Connection and load values	Connection and load values
	Pre-fuse max. 16 A InA 25 A RDF 1	Pre-fuse max. 63 A InA 16 A RDF 1	Pre-fuse max. 16 A InA 25 A RDF 1
Enclosure size	Enclosure size	Enclosure size	Enclosure size
130 x 225 mm (H x W)	260 x 225 mm (H x W)	260 x 225 mm (H x W)	260 x 225 mm (H x W)
Part no.	Part no.	Part no.	Part no.
910355	920700	920714	920649

Combination units – Wall mounted, AMAXX

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



CEE sockets

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

CEE sockets

Sockets British standard

Fusing

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

Connection

For 1 cable up to 5 x 16 mm²

Connection and load values

Pre-fuse max. 63 A
InA 58 A
RDF 0.6

Enclosure size

260 x 225 mm (H x W)

Part no.

900946

Combination units – Accessories, wall mounted

Accessories for AMAXX combination units.



AMAXX standard cable glands

deep black RAL 9005

M 20 - for cable from 6-13 mm
IP44: **Part no. 990607**
IP67: **Part no. 990611**

M 25 - for cable from 9-17 mm
IP44: **Part no. 990610**

M 32 - for cable from 13-21 mm
IP44: **Part no. 990608**
IP67: **Part no. 990612**

M 40 - for cable from 14-28 mm
IP67: **Part no. 990609**



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

signal yellow RAL 1003,
suitable for AMAXX
combination units
with the sizes:
260 x 225 mm,
390 x 225 mm and
520 x 225 mm
for wall mounting in
protection type IP67 or as
mobile combination units with
carrying handle and with
feeder cable in protection
type IP44 and IP67

Part no. 15696

4



AMAXX membrane cable glands

deep black RAL 9005,
incl. blanking plug

M 25 - for cable from 9-17 mm
Part no. 990623

M 32 - for cable from 13-21 mm
Part no. 990625

M 40 - for cable from 16-28 mm
Part no. 990627

Selection chart for membrane cable glands

AMAXX combination units	Standard cable entries	Recommadation of usage membrane cable gland*	
with 1 segment Enclosure: 130 x 225 mm (H x W)	top: 2 x M 25 2 x M 20 bottom: 2 x M 25 2 x M 20	1 x M 25	alternative: 1 x M 20
with 2 segments Enclosure: 230 x 225 mm (H x W)	top: 2 x M 32 2 x M 20 bottom: 2 x M 32 2 x M 20	1 x M 32	alternative: 2 x M 20
with 3 segments Enclosure: 390 x 225 mm (H x W)	top: 2 x M 40 2 x M 20 bottom: 2 x M 40 2 x M 20	1 x M 40	alternative: 2 x M 20
with 4 segments Enclosure: 520 x 225 mm (H x W)	top: 2 x M 40 2 x M 20 bottom: 2 x M 40 2 x M 20	1 x M 40 and 1 x M 20	alternative: 3 x M 20
with 5 segments Enclosure: 650 x 225 mm (H x W)	top: 2 x M 40 2 x M 20 bottom: 2 x M 40 2 x M 20	1 x M 40 and 2 x M 20	alternative: 4 x M 20

* At least required for the following ambient conditions:

Reduction of the ambient temperature by 45 °C through 10-minutes of heavy rain (enclosure, e.g heated to 60 °C through sunlight, subsequent cloudburst with water temperature of 15 °C).

If temperature differentials are greater/less, accordingly more or fewer membrane cable glands must be used.

Combination units – Wall mounted, AMAXX

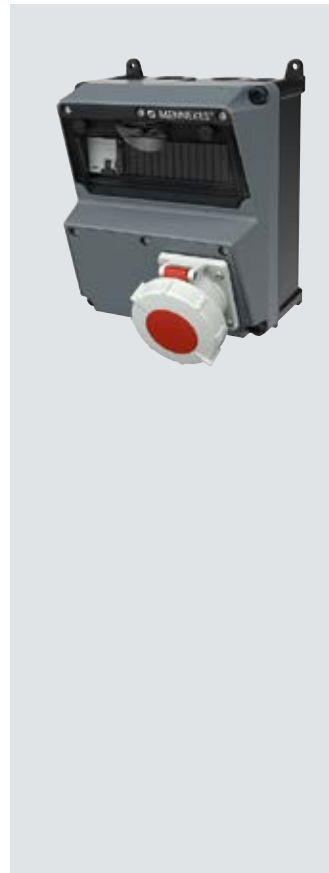
Highly resistant to chemicals made of AMELAN, pre-wired for installation, IP44 and IP67, enclosure front cover grey RAL 7000, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 109 - 110.



CEE sockets
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
CEE sockets
Sockets British standard
3 x 13 A, 2 p+E, 230 V
Fusing
1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 3 MCB's 13 A, 1 p, C
Connection
For 1 cable up to 5 x 16 mm ²
Connection and load values
Pre-fuse max. 63 A InA 63 A RDF 0.75
Enclosure size
520 x 225 mm (H x W)
Part no.
941142



CEE sockets
CEE sockets
2 CEE 16 A, 3 p, 230 V
Sockets British standard
Fusing
1 RCD 25 A, 2 p, 0.03 A
Connection
For 1 cable up to 3 x 10 mm ²
Connection and load values
Pre-fuse max. 63 A InA 63 A RDF 0.75
Enclosure size
260 x 225 mm (H x W)
Part no.
920821



CEE sockets
1 CEE 32 A, 5 p, 400 V
CEE sockets
Sockets British standard
Fusing
1 RCD 40 A, 4 p, 0.03 A
Connection
For 1 cable up to 5 x 10 mm ²
Connection and load values
Pre-fuse max. 32 A InA 63 A RDF 0.75
Enclosure size
260 x 225 mm (H x W)
Part no.
921024

Combination units – Suspended, Supporter

Mounting unit made from light metal.

Installation according to ingress protection classes IP44 and IP67 available.



Mounting unit

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

Part no. 18444



Pneumatic maintenance unit

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

Part no. 18431

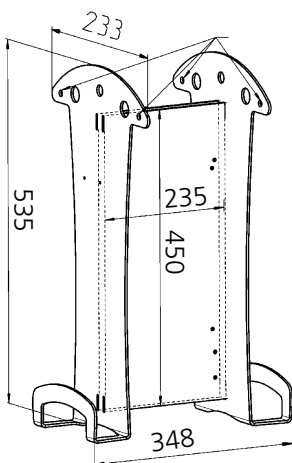


Pneumatic connection

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

Part no. 18430

4



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

1 MB 451

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

Includes a 350 mm chain set for ceiling installation.



Combination units – DELTA-BOX

Pre-wired for installation, IP44¹⁾ / 67 ¹⁾Regarding portable combination units in IP44 please see page 99 for further information.
With cable grip and installed hanging hook. Other combination units on request. Dimensions page 111.

			
Fitted with 3 CEE 16 A, 5 p, 400 V	Fitted with 3 CEE 32 A, 5 p, 400 V	Fitted with 1 CEE 16 A, 5 p, 400 V 3 SCHUKO® 16 A, 230 V	Fitted with 2 CEE 16 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
Fusing	Fusing	Fusing 1 RCD 25 A, 2 p, 0.03 A	Fusing
Connection For 1 cable up to 5 x 10 mm ²	Connection For 1 cable up to 5 x 10 mm ²	Connection For 1 cable up to 5 x 10 mm ²	Connection For 1 cable up to 5 x 10 mm ²
Connection and load values	Connection and load values	Connection and load values	Connection and load values
Protection type IP44	Protection type IP44	Protection type IP44	Protection type IP44
Part no. 92917	Part no. 90839	Part no. 92658	Part no. 92893

DELTA-BOX the classic unit.

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



Combination units – Wall mounted combination units

Pre-wired for installation, IP44 / 45, enclosure front cover light grey RAL 7035, Fusing behind a transparent cover. For drawings and dimensions see page 107.



CEE sockets

1 CEE 63 A, 5 p, 400 V
1 CEE 32 A, 5 p, 400 V

CEE sockets

1 CEE 32 A, 3 p, 230 V

CEE sockets

1 CEE 16 A, 3 p, 100-130 V

Fusing

1 RCD 63 A, 4 p, 0.03 A
1 RCD 40 A, 4 p, 0.03 A
1 RCD/MCB 32 A, 1 p+N, C, 0.03 A
1 RCD 25 A, 2 p, 0.03 A
1 MCB 63 A, 3 p, C
1 MCB 32 A, 3 p, C
1 MCB 10 A, 1 p, D
1 MCB 10 A, 2 p, C
1 Single-Phase Transformer
230V/110V (55-0-55V) 1.8KVA

Connection

For 1 cable up to 5 x 35 mm²

Connection and load values

Enclosure size

460 x 260 mm (H x W)

Part no.

8063261



CEE sockets

1 CEE 32 A, 5 p, 400 V

CEE sockets

1 CEE 16 A, 3 p, 230 V

CEE sockets

1 CEE 16 A, 3 p, 100-130 V

Fusing

1 RCD 40 A, 4 p, 0.03 A
1 RCD 25 A, 2 p, 0.03 A
1 RCD 25 A, 2 p, 0.03 A
1 MCB 32 A, 3 p, C
1 MCB 16 A, 2 p, C
1 MCB 16 A, 1 p, C
1 MCB 10 A, 1 p, D
1 Switch Disconnecter 63 A, 3 p
1 Single-Phase Transformer
230V/110V (55-0-55V) 1.8KVA

Connection

For 1 cable up to 5 x 16 mm²

Connection and load values

Pre-fuse max. 63 A
InA 42 A
RDF 0.75

Enclosure size

460 x 260 mm (H x W)





Part no.

8067864

4

Combination units – Socket strips

Pre-wired for installation, IP44¹⁾ / 67 ¹⁾Regarding portable combination units in IP44 please see page 99 for further information.
Other combinations on request. For drawings and dimensions see page 111.

			
Fitted with 3 CEE 16 A, 5 p, 400 V	Fitted with 2 CEE 16 A, 5 p, 400 V 1 SCHUKO® 16 A, 230 V	Fitted with 3 CEE 16 A, 3 p, 110 V	Fitted with 3 CEE 16 A, 3 p, 230 V
Fusing 1 RCD 0.03 A	Fusing	Fusing	Fusing
Connection For 1 cable up to 5 x 10 mm ²	Connection For 1 cable up to 5 x 10 mm ²	Connection For 1 cable up to 3 x 10 mm ²	Connection For 1 cable up to 3 x 10 mm ²
Connection and load values	Connection and load values	Connection and load values	Connection and load values
Protection type IP44	Protection type IP44	Protection type IP44	Protection type IP44
Part no. 95472	Part no. 96703	Part no. 96227	Part no. 96489

4



Socket strips the versatile units.

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

EverGUM

Flexible safety.



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

The outstanding advantages:

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

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

Tested safety, EverGUM details.

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

Socket strip EverGUM.

Window size for six or eight modules for vertical installation.



Combination units – EverGUM

Pre-wired for installation, IP44¹⁾ ¹⁾ Regarding portable combination units in IP44 please see page 99 for further information.
Fusing behind a transparent cover. Colour: signal yellow. Other variations with CEE sockets 3, 4 or 5 pole and with grounding-type sockets of French/Belgian, British, Swiss and US-standards on request. Dimensions page 111.



Fitted with

3 CEE 16 A, 5 p, 400 V

Fusing

Connection

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

Connection and load values

Protection type

IP44

Part no.

70029



Fitted with

1 CEE 32 A, 3 p, 230 V
4 CEE 16 A, 3 p, 230 V

Fusing

1 RCD/MCB 32 A, 1 p+N, C, 0.03 A
4 MCB's 16 A, 1 p, C

Connection

1 Inlet 32 A, 3 p, 230 V

Connection and load values

Pre-fuse max. 32 A
InA 32 A
RDF 1

Protection type

IP44

Part no.

7420224



Stainless steel surface mounted and flush mounted combination units.

Safe. Practical. Timelessly elegant.

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



CombiTOWER Outdoors and indoors.

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

4



Power posts Rugged. Vandalism-proof.

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

Combination units – Stainless steel

CombiTOWER from stainless steel (material 1.4301), material 1.4571 on request.
For drawings and dimensions see page 111.



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.

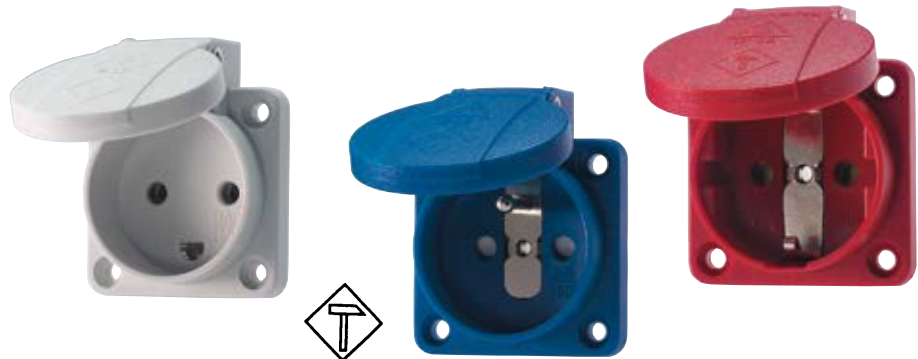
15681 / * 15741 yellow
15680 / * 15740 bright finish

SCHUKO®

Plugs and sockets for harsh conditions.

SCHUKO® by MENNEKES with the hammer symbol.

Acc. to VDE 0105 part 115. Made of high-grade plastic. Acc. to VDE 0620 for harsh conditions. Application amongst others in agriculture or at construction sites. Resistant against oil, grease and fuel. Long lasting due to high resistance against abrasion and breaking strength. Durable due to resistance against embrittlement.



Panel mounted sockets SCHUKO® with front gasket for portable units.

The attachment sockets SCHUKO® with sealing collars, from MENNEKES comply with the requirements in the new standard, IEC 620-1.

With the hinged lid closed, they satisfy the requirements for the IP54 degree of protection in every position.

Even with the compatible IP44 plug, plugged-in, the IP44 protection rating is ensured regardless of the operating position



Product advantages:

- retention of the installation dimensions and conditions
- conversion without problems
- flange sealing made of thermoplastic elastomer (TPE)
- captive due to two components technology
- safe against accidental actuation with a finger or the back of the hand according to IEC 60529
- optionally screw or plug-in terminals
- with hammer symbol for toughest conditions
- also available with flange dimensions 75 x 75 mm for cable ducts and flush mounted boxes


SCHUKO®. Pressure watertight.

Whether fixed or mobile: in the event of flooding or water jets, pressure watertight plugs and sockets are the first choice. Protection type IP68.



Special plugs and sockets – SCHUKO® and grounding-type


SCHUKO® to DIN 49440-1, 2 p+E, 230 V. Other versions available on request. For drawings and dimensions see page 100 - 111.



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

IP54
Std. Pack. Qty: 100/20
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 socket SCHUKO® with front gasket
with hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm²

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


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



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

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


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



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

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


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



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

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

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








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

IP44
Std. Pack. Qty: 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


Special plugs and sockets – SCHUKO® and grounding-type

SCHUKO® to DIN 49440-1, 2 p+E, 230 V. Other versions available on request. For drawings and dimensions see page 100 - 111.

	Panel mounted socket 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 mm ²	<table border="1"> <thead> <tr> <th>Colour</th> <th>Ampere</th> <th>Voltage</th> <th>with shutter</th> <th>plug-in terminals</th> <th>screw terminals</th> </tr> </thead> <tbody> <tr> <td>blue</td> <td>16</td> <td>230</td> <td>✓</td> <td>11611</td> <td></td> </tr> <tr> <td>blue</td> <td>16</td> <td>230</td> <td></td> <td>11661</td> <td>11681</td> </tr> </tbody> </table>	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals	blue	16	230	✓	11611		blue	16	230		11661	11681														
	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals																												
	blue	16	230	✓	11611																													
blue	16	230		11661	11681																													
IP20 Std. Pack. Qty: 100/20 Drawing: 1 MB 450																																		
	Panel mounted socket grounding-type British standard, with hinged lid and seal; flange 50 x 50 mm, fixing holes 38 x 38 mm	<table border="1"> <thead> <tr> <th>Colour</th> <th>Ampere</th> <th>Voltage</th> <th>with shutter</th> <th>plug-in terminals</th> <th>screw terminals</th> </tr> </thead> <tbody> <tr> <td>blue</td> <td>13</td> <td>230</td> <td>✓</td> <td></td> <td>10718</td> </tr> </tbody> </table>	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals	blue	13	230	✓		10718																				
	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals																												
	blue	13	230	✓		10718																												
IP44 Std. Pack. Qty: 20 Drawing: 1 MB 584																																		
	Panel mounted socket grounding-type British standard, matching cover frame, with hinged lid and seal	<table border="1"> <thead> <tr> <th>Colour</th> <th>Ampere</th> <th>Voltage</th> <th>with shutter</th> <th>plug-in terminals</th> <th>screw terminals</th> </tr> </thead> <tbody> <tr> <td>black</td> <td>13</td> <td>230</td> <td>✓</td> <td></td> <td>10713</td> </tr> </tbody> </table>	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals	black	13	230	✓		10713																				
	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals																												
	black	13	230	✓		10713																												
IP44 Std. Pack. Qty: 20 Drawing: 1 MB 422																																		
	Panel mounted socket NEMA USA and Canada, with hinged lid	<table border="1"> <thead> <tr> <th>Colour</th> <th>Ampere</th> <th>Voltage</th> <th>with shutter</th> <th>plug-in terminals</th> <th>screw terminals</th> </tr> </thead> <tbody> <tr> <td>blu</td> <td>15</td> <td>125</td> <td></td> <td></td> <td>10087</td> </tr> </tbody> </table>	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals	blu	15	125			10087																				
	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals																												
	blu	15	125			10087																												
IP44 Std. Pack. Qty: 20 Drawing: 1 MB 421																																		
	Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F	<table border="1"> <thead> <tr> <th>Colour</th> <th>Ampere</th> <th>Voltage</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>grey</td> <td>16</td> <td>230</td> <td>10749</td> </tr> <tr> <td>black</td> <td>16</td> <td>230</td> <td>10754</td> </tr> <tr> <td>orange</td> <td>16</td> <td>230</td> <td>10837</td> </tr> <tr> <td>blue</td> <td>16</td> <td>230</td> <td>10838</td> </tr> <tr> <td>red</td> <td>16</td> <td>230</td> <td>10839</td> </tr> <tr> <td>yellow</td> <td>16</td> <td>230</td> <td>10840</td> </tr> <tr> <td>green</td> <td>16</td> <td>230</td> <td>10841</td> </tr> </tbody> </table>	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
	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																															
IP44 Std. Pack. Qty: 20																																		
	Connector SCHUKO® with grommet and lid for cables up to 3 x 2.5 mm ² up to H07RN-F	<table border="1"> <thead> <tr> <th>Colour</th> <th>Ampere</th> <th>Voltage</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>grey</td> <td>16</td> <td>230</td> <td>10751</td> </tr> <tr> <td>black</td> <td>16</td> <td>230</td> <td>10755</td> </tr> <tr> <td>orange</td> <td>16</td> <td>230</td> <td>10842</td> </tr> <tr> <td>blue</td> <td>16</td> <td>230</td> <td>10843</td> </tr> <tr> <td>red</td> <td>16</td> <td>230</td> <td>10844</td> </tr> <tr> <td>yellow</td> <td>16</td> <td>230</td> <td>10845</td> </tr> <tr> <td>green</td> <td>16</td> <td>230</td> <td>10846</td> </tr> </tbody> </table>	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
	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																															
IP44 Std. Pack. Qty: 10																																		

Special plugs and sockets – SCHUKO® and grounding-type


to DIN 49442/43 and DIN VDE 0620. Other versions available on request. For drawings and dimensions see page 100 - 111.



Wall mounted socket SCHUKO®
with hinged bayonet lock lid

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


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



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

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

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



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

IP68
Std. Pack. Qty: 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

IP68
Std. Pack. Qty: 10

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

7 pole

For multifunctional applications.



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

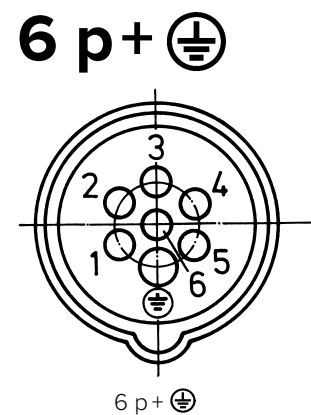
This number of poles provides solutions in the following fields:

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


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


5

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



Special plugs and sockets – 7 pole


to DIN VDE 0623-1, EN 60309-1. Colour: light grey and/or colour code.  Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.



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

IP44
Std. Pack. Qty: 10
Drawing: 1 MB 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 socket
highly resistant to chemicals, highly heat resistant contact carrier, nickel plated contacts, 2 external fixings, enclosure can be turned 180°

IP67
Std. Pack. Qty: 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 socket
switched, mechanical DUO-interlock, highly heat resistant contact carrier, nickel plated contacts, 6 pole switch with 2 auxiliary contacts (1 NO and 1 NC), sockets can be padlocked

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


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



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

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


A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	737	738	1045
32	7	739	740	1050



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

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

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

IP44
Std. Pack. Qty: 10

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

Special plugs and sockets – 7 pole

to DIN VDE 0623-1, EN 60309-1. Colour: light grey and/or colour code. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.

 <p>Plug AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking</p> <p>IP67 Std. Pack. Qty: 10</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	7		3776	3777	3913		
	32	7		2405	2324	2213		
 <p>Wall mounted inlet highly heat resistant contact carrier, nickel plated contacts</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 2 MB 147</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	7			2166			
	32	7			2167			
 <p>Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 2 MB 71</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	7		749	750	1075		
	32	7		751	752	1080		
 <p>Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap</p> <p>IP67 Std. Pack. Qty: 10 Drawing: 2 MB 203</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	7			3914			
	32	7			3915			
 <p>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</p> <p>IP44 Std. Pack. Qty: 10</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	7		745	746	1065		
	32	7		747	748	1070		
 <p>Connector AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking</p> <p>IP67 Std. Pack. Qty: 10</p>	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz	
	16	7		3783	3916	3784		
	32	7		2406	2255	2460		

Special plugs and sockets – 600 V to 690 V

to DIN VDE 0623-1, EN 60309-1. Colour: grey



Plug PowerTOP Xtra R with ErgoCONTACT

screw terminals ErgoCONTACT, highly heat resistant contact carrier, nickel plated contacts, ergonomic enclosure design with nubbed grip areas, rubberised cable gland with sealing, thread lock and safety slide
IP54
Std. Pack. Qty: 10

A	P	600 - 690 V 50 a. 60 Hz
16	5	13599
32	5	13610



Connector PowerTOP Xtra R with ErgoCONTACT

screw terminals ErgoCONTACT, X-CONTACT, highly heat resistant contact carrier, nickel plated contacts, ergonomic enclosure design with nubbed grip areas, rubberised cable gland with sealing
IP54
Std. Pack. Qty: 10

A	P	600 - 690 V 50 a. 60 Hz
16	5	14599



Plug PowerTOP Xtra R

screw terminals, highly heat resistant contact carrier, nickel plated contacts, rubberised grip area, cable gland and sealing, enclosure with thread lock and safety slide, strain relief and protection against kinking

IP67
Std. Pack. Qty: 10

A	P	600 - 690 V 50 a. 60 Hz
63	4	13236
63	5	13237
125	4	13238
125	5	13239

Special plugs and sockets – Special 1 h clock position

to DIN VDE 0623-1, EN 60309-1. Colour: grey



Plug PowerTOP Xtra R with ErgoCONTACT

screw terminals ErgoCONTACT, highly heat resistant contact carrier, nickel plated contacts, ergonomic enclosure design with nubbed grip areas, rubberised cable gland with sealing, thread lock and safety slide
IP54
Std. Pack. Qty: 10

A	P	50 - 500 V
16	5	13597
32	5	13609



Connector PowerTOP Xtra R with ErgoCONTACT

screw terminals ErgoCONTACT, X-CONTACT, highly heat resistant contact carrier, nickel plated contacts, ergonomic enclosure design with nubbed grip areas, rubberised cable gland with sealing
IP54
Std. Pack. Qty: 10

A	P	50 - 500 V
16	5	14597
32	5	14609

Special plugs and sockets – For low voltage

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.

Low voltages.

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

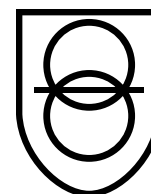
Stationary appliances may be operated at a safe low voltage or they may be electrically isolated, e.g. lamps installed temporarily for maintenance purposes, cleaning or other types of work, which are connected to the power supply by means of movable cables. Only use tools of protection type II or III.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

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



Requirements on plugs and sockets for low voltages.

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



Wall mounted socket

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

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






Wall mounted socket

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

A	P	20 - 25 V	40 - 50 V	20 - 25 V 40 - 50 V	20 - 25 V 40 - 50 V
		50 a. 60 Hz	50 a. 60 Hz	100-200 Hz	===
16	2	577	578		583
16	3	584	585	586	
32	2	590	591		596
32	3	597	598	599	




Special plugs and sockets – For low voltage

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.

 <p>Panel mounted socket flange 55 x 55 mm, straight</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 1 MB 136</p>	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	
 <p>Panel mounted socket flange 75 x 75 mm, straight</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 1 MB 292</p>	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		1579	
 <p>Panel mounted socket flange 68 x 62 mm, 20° inclination</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 1 MB 231</p>	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	
 <p>Panel mounted socket 20° inclination</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 1 MB 236</p>	A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V ==
	32	3			2837	

Special plugs and sockets – For low voltage

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 100 - 111.

 <p>Plug with cable gland</p> <p>IP44 Std. Pack. Qty: 10</p>	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	
 <p>Wall mounted inlet</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 2 MB 160</p>	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	
 <p>Connector with cable gland</p> <p>IP44 Std. Pack. Qty: 10</p>	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	

Special plugs and sockets – Isolating transformer 12 h

Color: grey. Other voltages and frequencies on request.



Plug PowerTOP Xtra R with ErgoCONTACT

screw terminals ErgoCONTACT, highly heat resistant contact carrier, nickel plated contacts, ergonomic enclosure design with nubbed grip areas, rubberised cable gland with sealing, thread lock and safety slide
IP54
Std. Pack. Qty: 10

A	P	Isolating transformer
16	5	13601
32	5	13613



Connector PowerTOP Xtra R with ErgoCONTACT

screw terminals ErgoCONTACT, X-CONTACT, highly heat resistant contact carrier, nickel plated contacts, ergonomic enclosure design with nubbed grip areas, thread lock and safety slide
IP54
Std. Pack. Qty: 10

A	P	Isolating transformer
16	5	14601

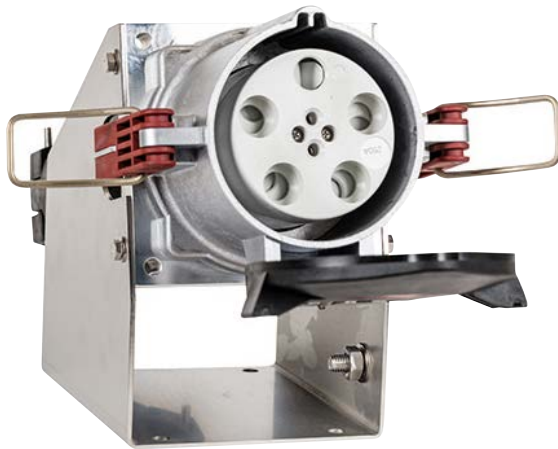


160 A - 600 A Heavy duty versions for industry.

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

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

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



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

Special plugs and sockets – Energy and data

Protection type IP44.

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

Cepex data port sockets.



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

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

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

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

5 Visible labeling field.



Simple:

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



Extra:

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



Title

Network enclosure AMAXX

Fitted with

2 Cepex enclosures (part no.: 4345G) prepared for 4 RJ45 connection modules, type E-DAT module or OpDAT module LC or ST (brand 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 light grey

Special plugs and sockets – Energy and data


Colours: light grey (RAL 7035), pure white (RAL 9010), grey (RAL 9006), deep black (RAL 9005). For drawings and dimensions see page 100 - 111.



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

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 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, light grey
as panel mounted socket, for installation of RJ45 data port sockets, 2 keys, identical lock:
Part no. + Index "G"

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 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, pure white
as panel mounted socket, for installation of RJ45 data port sockets, 2 keys, identical lock:
Part no. + Index "G"

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 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, grey
as panel mounted socket, for installation of RJ45 data port sockets, 2 keys, identical lock:
Part no. + Index "G"

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 305

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



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

IP44
Std. Pack. Qty: 5
Drawing: 1 MB 305

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

* Keystones

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

Special plugs and sockets – Energy and data



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 UPOS), suitable for Cepex data port sockets, Part no. 4320 and versions

Std. Pack. Qty: 10

Part no.

41492



Data module

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

Std. Pack. Qty: 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.

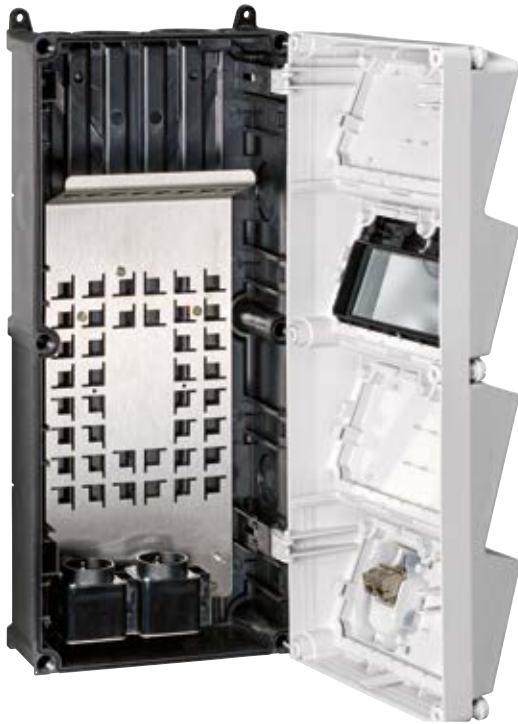
25042

Special plugs and sockets – Energy and data

Protection type IP44.

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

MENNEKES network distributor.



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

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

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

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



AMAXX cable gland set

enclosed with each media distributor
Deep black RAL 9005,
2 screw fittings M 40
2 multiple seals with
6 openings for a cable diameter
of 6-9 mm
including each 5 blind plugs
1 screw fitting M 20

Fitted with

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

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

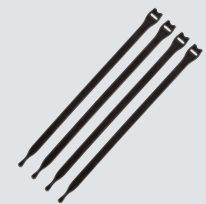
1 Cepex data port socket (deep black RAL 9005) with 2 RJ45 right angle connector modules for direct connection of patch cables

4 Velcro connectors for fastening installed components on the base plate

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

1 screw fitting M 20

1 screw set



Velcro connector

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

Enclosure size

520 x 225 mm (H x W)

Part no.

25405

Plugs and sockets for reefer containers On ships and in terminals.



AM-TOP plugs and connectors.

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



Wall mounted sockets, switched and interlocked.

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

Combination units with sockets, switched and interlocked.

**380-
440V**







32 A

3 h

3 p+ ⚡





Special plugs and sockets – For reefer containers

Ground contact at 3 o'clock position conforming to DIN VDE 0623, EN 60309-2.  Highly resistant to chemicals.
Other versions available on request. For drawings and dimensions see page 100 - 111.

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

Special plugs and sockets – For reefer containers

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 100 - 111.

 <p>Panel mounted inlet with highly heat resistant contact carrier and nickel plated contacts, with hinged lid</p> <p>IP67 Std. Pack. Qty: 10 Drawing: 2 MB 40</p>	<table border="1"> <thead> <tr> <th>A</th> <th>P</th> <th>380 - 440 V 50 a. 60 Hz</th> </tr> </thead> <tbody> <tr> <td>32</td> <td>4</td> <td>2692</td> </tr> </tbody> </table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	2692	<table border="1"> <thead> <tr> <th>A</th> <th>P</th> <th>380 - 440 V 50 a. 60 Hz</th> </tr> </thead> <tbody> <tr> <td>32</td> <td>4</td> <td>2177A</td> </tr> </tbody> </table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	2177A
A	P	380 - 440 V 50 a. 60 Hz												
32	4	2692												
A	P	380 - 440 V 50 a. 60 Hz												
32	4	2177A												
 <p>Connector AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body</p> <p>IP67 Std. Pack. Qty: 10</p>	<table border="1"> <thead> <tr> <th>A</th> <th>P</th> <th>380 - 440 V 50 a. 60 Hz</th> </tr> </thead> <tbody> <tr> <td>32</td> <td>4</td> <td>2177A</td> </tr> </tbody> </table>	A	P	380 - 440 V 50 a. 60 Hz	32	4	2177A	<table border="1"> <thead> <tr> <th colspan="2">Part no.</th> </tr> </thead> <tbody> <tr> <td colspan="2">40841</td> </tr> </tbody> </table>	Part no.		40841			
A	P	380 - 440 V 50 a. 60 Hz												
32	4	2177A												
Part no.														
40841														
 <p>Protective cap for plugs 32 A, 4 p</p> <p>Std. Pack. Qty: 10</p>	<table border="1"> <thead> <tr> <th colspan="2">Part no.</th> </tr> </thead> <tbody> <tr> <td colspan="2">41342</td> </tr> </tbody> </table>	Part no.		41342		<table border="1"> <thead> <tr> <th colspan="2">Part no.</th> </tr> </thead> <tbody> <tr> <td colspan="2">41342</td> </tr> </tbody> </table>	Part no.		41342					
Part no.														
41342														
Part no.														
41342														
 <p>Houlder for plugs 32 A, 4 p</p> <p>Std. Pack. Qty: 10</p>	<table border="1"> <thead> <tr> <th colspan="2">Part no.</th> </tr> </thead> <tbody> <tr> <td colspan="2">41342</td> </tr> </tbody> </table>	Part no.		41342		<table border="1"> <thead> <tr> <th colspan="2">Part no.</th> </tr> </thead> <tbody> <tr> <td colspan="2">41342</td> </tr> </tbody> </table>	Part no.		41342					
Part no.														
41342														
Part no.														
41342														

Special plugs and sockets – For reefer containers

Protection type IP67.

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



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

CEE sockets

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

CEE sockets

Sockets British standard

Fusing

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

Connection

For 1 cable up to 5 x 25 mm²

Connection and load values

Pre-fuse max. 100 A
InA 58 A
RDF 0.6

Enclosure size

520 x 225 mm (H x W)

Part no.

940027



Jos. L. Meyer-Werft, Papenburg, Germany

Special plugs and sockets – TM for military purpose

to DIN EN 60309-2, colour: bronze-green RAL 6031-F9. Other voltages and frequencies available on request.
For drawings and dimensions see page 100 - 111.

Defence Equipment Standard 96919 and 96926.



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



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

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

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
16	3	22928 AS013			
16	5		20458 AS001	23163 AS003	23175 AS004
32	3	23293A AS042			
32	5		20459 AS005		23176 AS008
63	5		20460 AS009	23165 AS011	23177 AS012



Panel mounted socket TM
X-CONTACT, highly heat resistant contact carrier, nickel plated contacts, straight, (form AS)

IP67
Std. Pack. Qty: 5
Drawing: 1 MB 212/258

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



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

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

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
16	3	24630 BS017			
16	5		24640 BS001		24643 BS004
32	3	24730 BS042			
32	5		24740 BS005		
63	5		24840 BS009		




Panel mounted socket TM
X-CONTACT, highly heat resistant contact carrier, nickel plated contacts, 15° inclination, (form BS)

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

Special plugs and sockets – TM for military purpose


to DIN EN 60309-2, colour: bronze-green RAL 6031-F9. Other voltages and frequencies available on request.
For drawings and dimensions see page 100 - 111.



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

IP67
Std. Pack. Qty: 10


A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
16	3	24660 CP017			
16	5	24671 CP002	24670 CP001	24672 CP003	
32	3	24760 CP042			
32	5		24770 CP005	24772 CP007	24773 CP008



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

IP67
Std. Pack. Qty: 5


A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
63	5		24870 CP009		24873 CP012
125	5		24970 CP013		24973 CP016



Panel mounted inlet TM
highly heat resistant contact carrier, nickel plated contacts, with protective cap, (form BP)

IP67
Std. Pack. Qty: 10/5
Drawing: 2 MB 62/1


A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
16	3	24210 BP013			
16	5		20461 BP001		
32	3	23249 BP042			
32	5		20462 BP005		
63	5		20463 BP009		



Panel mounted inlet TM
highly heat resistant contact carrier, nickel plated contacts, with protective cap, (form AP)

IP67
Std. Pack. Qty: 5
Drawing: 2 MB 206


A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
125	5		23433		



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

IP67
Std. Pack. Qty: 10

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
16	3	24675 DS017			
16	5	24686 DS002	24685 DS001	24687 DS003	
32	3	24775 DS042			
32	5		24785 DS005	24787 DS007	24788 DS008



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

IP67
Std. Pack. Qty: 5

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	>50 - 500 V >300-500 Hz
63	5		24885 DS009		24888 DS012
125	5		24985 DS013		24988 DS016

Special plugs and sockets – Camping

For drawings and dimensions see page 100 - 111.

	<p>Wall mounted socket with TwinCONTACT screwless spring terminal, external fixing</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 1 MB 463</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>16 A, 3 p, 230 V</td> <td>1341</td> </tr> </tbody> </table>	Description	Part no.	16 A, 3 p, 230 V	1341					
Description	Part no.										
16 A, 3 p, 230 V	1341										
	<p>Panel mounted socket with eyelet, 20° inclination, flange: 68 x 62 mm, fixing hole spacing: 47 x 47 mm</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 1 MB 456</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>16 A, 3 p, 230 V</td> <td>851</td> </tr> <tr> <td>Plug with eyelet 16 A, 3 p, 230 V, for panel mounted socket 851</td> <td>852</td> </tr> </tbody> </table>	Description	Part no.	16 A, 3 p, 230 V	851	Plug with eyelet 16 A, 3 p, 230 V, for panel mounted socket 851	852			
Description	Part no.										
16 A, 3 p, 230 V	851										
Plug with eyelet 16 A, 3 p, 230 V, for panel mounted socket 851	852										
	<p>Plug ProTOP cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock and safety slide</p> <p>IP44 Std. Pack. Qty: 10</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>16 A, 3 p, 230 V</td> <td>13502</td> </tr> </tbody> </table>	Description	Part no.	16 A, 3 p, 230 V	13502					
Description	Part no.										
16 A, 3 p, 230 V	13502										
	<p>Built-in Plug nickel plated contacts</p> <p>IP44 Std. Pack. Qty: 10 Drawing: 2 MB 70</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>16 A, 3 p, 230 V, Lid: electric grey</td> <td>8001</td> </tr> <tr> <td>16 A, 3 p, 230 V, Lid: black</td> <td>8008</td> </tr> <tr> <td>Counter frame for built-in plugs CaraCONTACT 8001 and 8008</td> <td>40744</td> </tr> </tbody> </table>	Description	Part no.	16 A, 3 p, 230 V, Lid: electric grey	8001	16 A, 3 p, 230 V, Lid: black	8008	Counter frame for built-in plugs CaraCONTACT 8001 and 8008	40744	
Description	Part no.										
16 A, 3 p, 230 V, Lid: electric grey	8001										
16 A, 3 p, 230 V, Lid: black	8008										
Counter frame for built-in plugs CaraCONTACT 8001 and 8008	40744										
	<p>Connector ProTOP cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock and safety slide</p> <p>IP44 Std. Pack. Qty: 10</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>16 A, 3 p, 230 V</td> <td>14502</td> </tr> </tbody> </table>	Description	Part no.	16 A, 3 p, 230 V	14502					
Description	Part no.										
16 A, 3 p, 230 V	14502										
	<p>Angled connector with grommet</p> <p>IP44 Std. Pack. Qty: 10</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>16 A, 3 p, 230 V</td> <td>1438</td> </tr> </tbody> </table>	Description	Part no.	16 A, 3 p, 230 V	1438					
Description	Part no.										
16 A, 3 p, 230 V	1438										

Special plugs and sockets – Switch disconnectors made of AMELAN






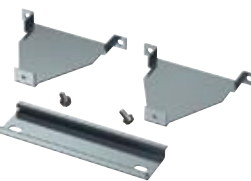
Disconnecting property in acc. with EN 60947 (up to 690 V). Finger protection in acc. with DIN 57106 / VDE 0106 T.100. Products with additional aux.contact (1 x NO and 1 x NC). For drawings and dimensions see page 100 - 111.

Rated Current Amperes	Poles	Auxiliary contact	BS Motor rating AC3/440 V kilowatt	Part no.
25	3		7,5	52241
25	3	✓	7,5	52242
40	3		18,5	52243
40	3	✓	18,5	52244
80	3		30,0	52245
80	3	✓	30,0	52246

Characteristics switch disconnector						
			without aux. contact	with aux. contact	without aux. contact	with aux. contact
Part numbers			52241	52242	52243	52244
Rated operational voltage U_e						
IEC / EN / VDE / SEV			690 V		690 V	
Main switch: Isol. voltage up to			690 V		690 V	
Rated continuous current I_u						
IEC / EN / VDE			25 A		40 A	
Rated operational current I_e						
IEC / EN			25 A		40 A	
Rated operational current at 50 up to 60 Hz						
AC-23A	IEC / EN / VDE					
	3 phase	220-240 V	5.5 kW		11.0 kW	
	3 pole	380-440 V	11.0 kW		22.0 kW	
		600-690 V	11.0 kW		18.5 kW	
AC-3	IEC / EN / VDE					
	3 phase	220-240 V	4.0 kW		7.5 kW	
	3 pole	380-440 V	7.5 kW		18.5 kW	
		600-690 V	7.5 kW		15.0 kW	
Rated breaking capacity						
AC-23 A / AC-3 motor switch		220-240 V	220 A		350 A	
		380-440 V	220 A		350 A	
		600-690 V	135 A		190 A	
Maximum fuse size (gL)			35 A		63 A	
Terminal cross section						
Single / multiple wire		min.	1.0 mm ²		4.0 mm ²	
		max.	6.0 mm ²		16.0 mm ²	
Fine-strand wire with sleeve		min.	0.75 mm ²		2.5 mm ²	
		max.	4.0 mm ²		10.0 mm ²	

Characteristics auxiliary contacts						
Part numbers			52242	52244	52246	
Auxiliary module			500 V		690 V	
Rated operational voltage U_e						
Rated continuous current I_u			16 A		16 A	
Rated operational current I_e			220-240 V			
AC-15A	IEC / EN		380-440 V		2.5 A / 1.5 A	
			6 A / 3 A		6 A / 4 A	
Terminal cross section						
Single / multiple wire		min.	1.0 mm ²		1.0 mm ²	
Fine-strand wire with sleeve		max.	1.5 mm ²		2.5 mm ²	

Special plugs and sockets – Hinged windows

	<p>Hinged window without protective cover, with knurled screws, frame colour electric grey, window smoked glass</p> <p>IP44 Std. Pack. Qty: 100</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>2 modules</td> <td>40444</td> </tr> <tr> <td>5 modules 40871 without springs to close window automatically</td> <td>40871</td> </tr> </tbody> </table>	Description	Part no.	2 modules	40444	5 modules 40871 without springs to close window automatically	40871			
Description	Part no.										
2 modules	40444										
5 modules 40871 without springs to close window automatically	40871										
	<p>Hinged window without protective cover, with knurled screws, frame colour electric grey, window smoked glass</p> <p>IP44 Std. Pack. Qty: 50</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>5 modules without springs to close window automatically</td> <td>40243</td> </tr> </tbody> </table>	Description	Part no.	5 modules without springs to close window automatically	40243					
Description	Part no.										
5 modules without springs to close window automatically	40243										
	<p>Hinged window without protective cover, with knurled screws, frame colour electric grey, window smoked glass</p> <p>IP67 Std. Pack. Qty: 50</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>6 modules</td> <td>40985</td> </tr> <tr> <td>8 modules</td> <td>40978</td> </tr> <tr> <td>12 modules</td> <td>40980</td> </tr> </tbody> </table>	Description	Part no.	6 modules	40985	8 modules	40978	12 modules	40980	
Description	Part no.										
6 modules	40985										
8 modules	40978										
12 modules	40980										
	<p>Hinged window without protective cover, with knurled screws, frame colour black, window smoked glass</p> <p>IP67 Std. Pack. Qty: 50</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>6 modules</td> <td>40985ZB</td> </tr> <tr> <td>8 modules</td> <td>40978ZA</td> </tr> <tr> <td>12 modules</td> <td>40980ZC</td> </tr> </tbody> </table>	Description	Part no.	6 modules	40985ZB	8 modules	40978ZA	12 modules	40980ZC	
Description	Part no.										
6 modules	40985ZB										
8 modules	40978ZA										
12 modules	40980ZC										
	<p>Hinged window without protective cover, with knurled screws, frame colour electric grey, window smoked glass</p> <p>IP67 Std. Pack. Qty: 50</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>6 modules</td> <td>40986</td> </tr> <tr> <td>8 modules</td> <td>40979</td> </tr> <tr> <td>12 modules</td> <td>40981</td> </tr> </tbody> </table>	Description	Part no.	6 modules	40986	8 modules	40979	12 modules	40981	
Description	Part no.										
6 modules	40986										
8 modules	40979										
12 modules	40981										
	<p>Installation kit for hinged window with protective cover, for fitting modules in doors and enclosure covers</p> <p>Std. Pack. Qty: 10</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>for 6 modules for hinged window 40986</td> <td>41431</td> </tr> <tr> <td>for 8 modules for hinged window 40979</td> <td>41432</td> </tr> <tr> <td>for 12 modules for hinged window 40981</td> <td>41433</td> </tr> </tbody> </table>	Description	Part no.	for 6 modules for hinged window 40986	41431	for 8 modules for hinged window 40979	41432	for 12 modules for hinged window 40981	41433	
Description	Part no.										
for 6 modules for hinged window 40986	41431										
for 8 modules for hinged window 40979	41432										
for 12 modules for hinged window 40981	41433										

Service – References



BMW motorcycle plant, Berlin – Germany



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



Formula 1 circuit, Manama – Bahrain



Constitution, Heerema Marine Contractors – Netherland



Port of Salalah – Oman



Container Terminal, Le Havre – France

Service – References



Container Terminal, Altenwerder – Germany



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



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



Brunnenmarkt, (Market Square), Vienna – Austria



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



Bauernmarkt, (Market Square), Hannover – Germany

Service – Regulations and standards

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

Installation guidelines

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

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

IEC 60309-1
IEC 60309-2
EN 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 sockets for low voltage systems have become the standard all over the world. Basically suitable for indoor and outdoor applications in industry, they are also used on building sites, farms, commercial premises, for caravans, mobile homes, boats, yachts and in households. CEE plugs and sockets are polarised and non-reversible.

Ambient temperature

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

Low voltage directive 2014/35/EU

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

Service – Regulations and standards

Declaration of Conformity

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

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

Cable glands

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

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

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

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

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

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

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

The IEC 61439 consists of the following parts:

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

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

Design verification

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

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

Original manufacturer

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

Manufacturer of the switchgear and control gear assembly

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

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“.

Service – Regulations and standards

Heating

The max. ambient temperature is +40 °C.

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

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

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

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

Heating – replacement of components

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

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

The requirement of 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

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

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

• Rated current of a main circuit I_{nc}

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

• Rated load factor RDF

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

Table 101 from IEC 61439-3 Values for assumed load

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

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

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

Service – Regulations and standards

Characteristic	Standard value	Normative option	MENNEKES standard
Information of loads that could possibly contribute to short-circuit current	No loads are permitted that could possibly contribute to the shortcircuit current	none	none
Type of protection against electric shock – basic protection	Basic protection	Comply with local requirements	Basic protection
Type of protection against electric shock – earth fault protection	Protection against indirect contact / comply with local requirements	Automatic disconnection of the power supply / protective separation / Double or reinforced insulation	Item-dependent
Installation site	Execution of the manufacturer	Indoors / outdoors	Item-dependent
Protection type	Indoors min. IP 2x / outdoors min. IP23	IP xx (A-D)	IP44
Protection against mechanical effects		if necessary specification of the IK code (IEC 62208)	Information on request
Resistance to UV radiation		Required for enclosures in outdoor installation	Information on request
Resistance to corrosion	For indoor and outdoor installation	yes / no	Item-dependent
Ambient temperature limit values	Indoors: min. -5 °C Outdoors: min. -25 °C High limit (both): +40 °C max. average value (24 h): +35 °C	none	Standard values! see product for deviations
Maximum relative humidity	indoor: 95 % at -5 °C to +30 °C 70 % at +35 °C 57 % at +40 °C Outdoor: 100 % at -25 °C to +27 °C 60 % at 35 °C 46 % at 40 °C	indoor: 95 % at -5 °C to +30 °C 70 % at +35 °C 57 % at +40 °C Outdoor: 100 % at -25 °C to +27 °C 60 % at 35 °C 46 % at 40 °C	Standard values! see product for deviations
Pollution degree	Industrial environment 3	1, 2, 3, 4	3
Altitude	≤ 2000 m	Pay attention to the factors	≤ 2000 m
EMC environment	A or B	A / B	B
Special operating conditions (vibration, Ex-area, strong magnetic fields or contamination)	No particular conditions	none	Not defined!
External structural design	in accordance with manufacturer's specifications	Open / closed / standing / in-wall installation & on-wall installation / console	closed
Mobile or stationary	stationary	yes / no	Item-dependent
Dimensions and masses	in accordance with manufacturer's specifications	none	Item-dependent
Type of conductors introduced from outside	in accordance with manufacturer's specifications	Cables / busbar trunking systems	Cables
Materials of the conductors introduced from the outside	Copper	Copper / 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
Type of interior subdivision	in accordance with manufacturer's specifications	Form 1, 2, 3, 4	none

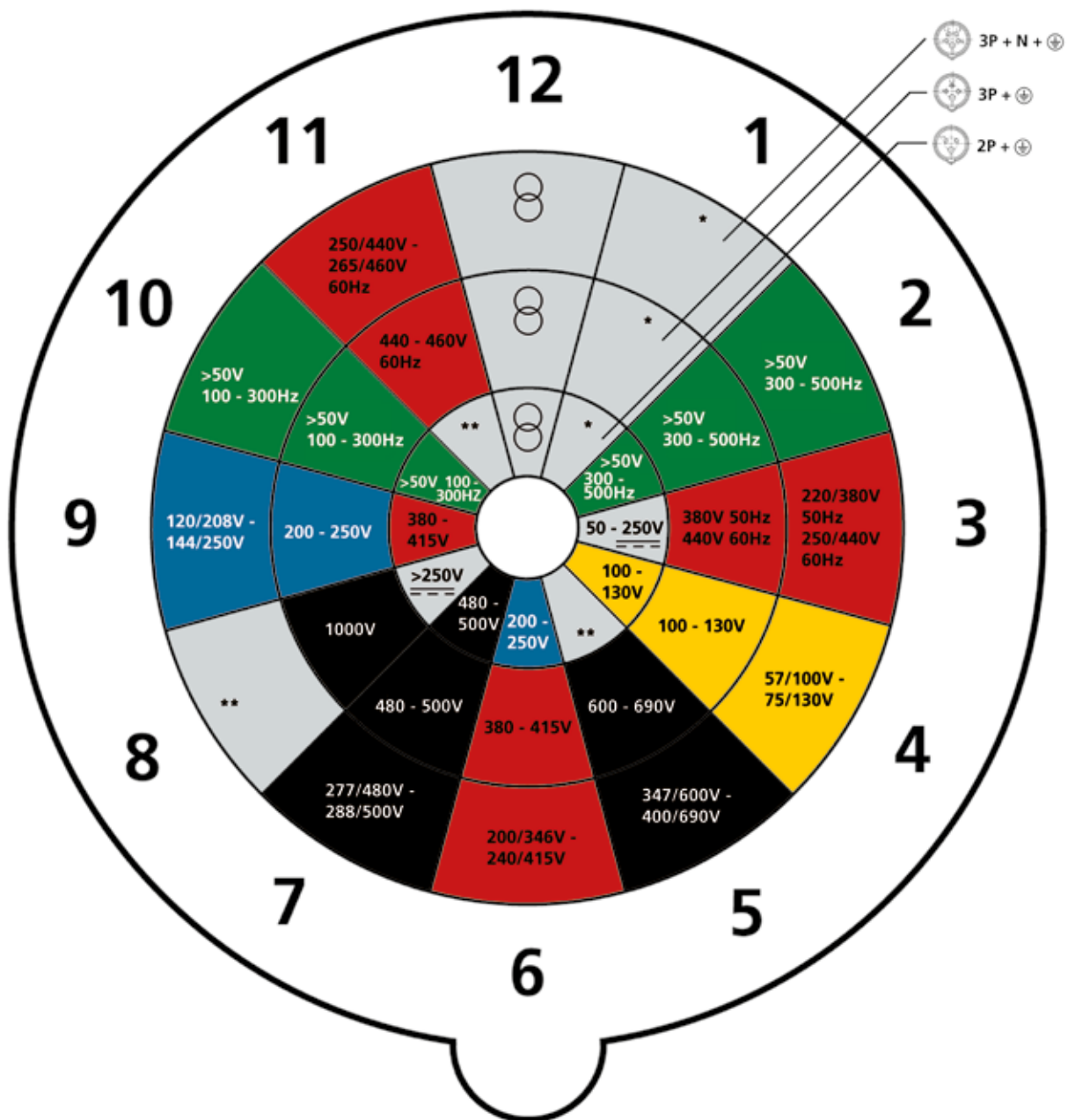
Service – Regulations and standards

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

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

Clock positions acc. to 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.








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

** Clock positions not used.

Service – Regulations and standards

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 60309-1:2013

CEE plugs and sockets for rated operating voltages above 50 V

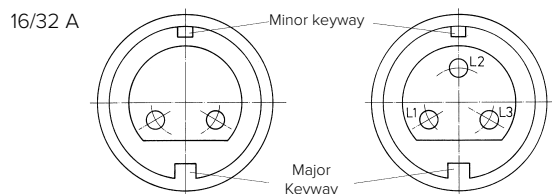
Position of the earth contact

Plugs and sockets with rated voltages above 50 V must have an earth contact. To prevent incorrect insertion, a nose on the plug fits into a keyway in the socket, thus ensuring that the earth contact pin or tube is correctly positioned in accordance with the required electrical standard. The earth contact positions for the various frequencies and voltages are assigned a clockface position, in accordance with table 104 taken from EN 60309-2:1999 + A1:2007 + A2:2012 (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 (VDE 0623-2): 2013-01, standard sheet 2-VIII (and in the following drawings).

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





Arrangement of the minor keyway (major keyway 6 o'clock) for various voltages and frequencies using clockface positions in accordance with table 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)	Positions 1 and 9 are reserved for future standards. For design reasons, positions 5, 6 and 7 are not available for use.
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.	

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, table 2:

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

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

Service – Regulations and standards

Interlocks and breaking capacity

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

- mechanical interlocks
- electrical interlocks.

In the case of sockets and connectors $\geq 63/60$ A, 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 $\geq 63/60$ A versions are fitted with short contact tubes without pilot contact. In the 63 A and 125 A versions, the short contact tubes meet the finger-touch requirements of IEC 60529. Sockets and connectors 63/60 A for electrical interlocking are fitted with long contact tubes and pilot contact for leading and lagging. The interlock makes up for the lack of finger-touch safety.

Plugs and sockets with mechanical interlocks

Mechanical interlocks for plugs and sockets with a rated operating voltage greater than 50 V must conform to EN 60309-2:2013, standard sheet 2-V. The mechanical switch of a mechanically interlocked socket or connector must not be operational until the proper plug has been inserted. Built-in switches for mechanical interlocking of switched AC sockets must have a breaking capacity conforming at least to IEC 60947-3 (VDE 0660 part 107), utilisation category AC 22. The breaking capacity must be suitable for the appliance connected.

Plugs and sockets with electrical interlocks

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

Plugs and sockets for isolating and switching purposes

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

Shock hazard protection



Shock hazard protection must be achieved in accordance with EN 60309-1:2013, section 9 by designing plugs and sockets in such a way that, when engaged properly, no live parts of sockets, connectors, plugs and inlets are exposed so that they may be touched.

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

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

Protection type

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

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

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

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

IP67 = Protection from dust ingress, protection against temporary immersion

Information on IP protection (IP code) can be found in IEC 60529:2014-09 (VDE 0470 part 1).

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

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

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

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

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

IP44 or IP67 is indicated on the appliances.

Notice for the use of mobile power distribution boxes:

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

Service – Regulations and standards

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

Important application instructions concerning the change in the standard.

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

Attention!

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


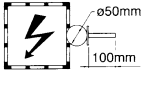

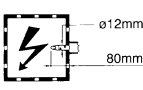

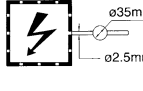

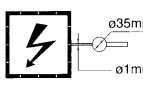


Notice for the use of mobile power distribution boxes with RJ45 data sockets:

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

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



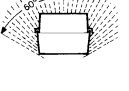

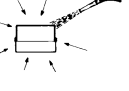
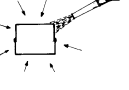
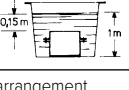
1st number of the code:

Protection against the ingress of foreign bodies and shock hazard protection.

Code	Description	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 than 12.5 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		 Gauge probe diameter Ø 1 mm
5	Dust in harmful quantities	 Talc	Wire	
6	Dust overall	 Talc		

2nd number of the code:

Protection against the ingress of moisture

Code	Description	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	

Service – Drawings and dimensions

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

1 MB 27/30

Drawing 1 MB 27/30
Dim. in mm

1 MB 43

Drawing	Amp. Poles	16		32		
1 MB 43		4	5	3	4	5
Dim. in mm	a	128	128	128	128	128
	b	84	84	84	84	84
	c	122	124	136	136	138
	d	11	11	11	11	11
	e	68	68	68	68	68
	f	5.3	5.3	5.3	5.3	5.3
	g	4	4	4	4	4
	h	144	145	158	158	160
	M	25	25	32	32	32
	M*	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.		1.5	1.5	2.5	2.5	2.5
		-4	-4	-10	-10	-10

1 MB 43/257

Drawing	Amp. Poles	16		32		
1 MB 43_257		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.		1.5	1.5	2.5	2.5	2.5
		-4	-4	-10	-10	-10

1 MB 112

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

1 MB 136

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

1 MB 137

Drawing	Amp. Poles	16		32	
1 MB 137		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	4	4	4
		-2x6	-10	-2x6	-10

1 MB 141

Drawing	Amp. Poles	16			32		
1 MB 141		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	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-10	-10	-10

1 MB 162

Drawing	Amp. Poles	125	
1 MB 162		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	25
		-35	-35

1 MB 168

Drawing	Amp. Poles	16			32		
1 MB 168		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		1x25 and 1x32	
	M*	2x25		2x25		2x25	
Max. cable diam. (mm)		25	25	25	25	25	25
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-10	-10	-10

1 MB 177

Drawing	Amp. Poles	125		
1 MB 177		3	4	5
Dim. in mm	a	460	460	460
	b	260	260	260
	c	270	270	270
	d	434	434	434
	e	234	234	234
	f	11	11	11
	g	9	9	9
	h	519	519	519
	M	63	63	63
	M*	2x63	2x63	2x63
Max. cable diam. (mm)		44	44	44
Terminal for cond. cross section (mm²) min.-max.		25	25	25
		-70	-70	-70

1 MB 180

Drawing	Amp. Poles	63		
1 MB 180		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
Max. cable diam. (mm)		27	27	27
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		-25	-25	-25

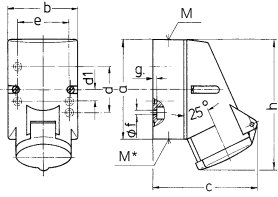
1 MB 181/620

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

Service – Drawings and dimensions

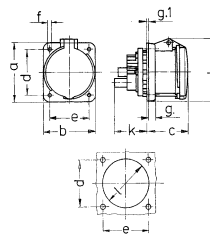
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 209



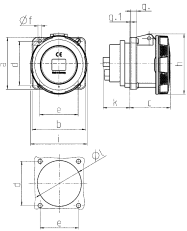
Drawing	Amp.	16		
		Poles		
1 MB 209		3	4	5
Dim. in mm	a	87	100	100
	b	64	75	75
	c	99	110	113
	d	40	-	-
	d1	-	11	11
	e	50	59	59
	f	4.5	5	5
	g	4	4	4
	h	115	125	128
	M	20	20	20
	M*	M20 (blind) to be cut out		
Max. cable diam. (mm)		15	15	15
Terminal for cond. cross section (mm ²) min.-max.		1.5	1.5	1.5
		-4	-4	-4

1 MB 211



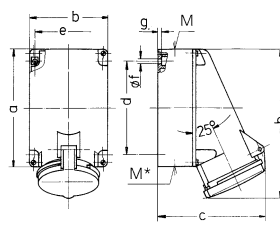
Drawing	Amp.	63		
		Poles		
1 MB 211		3	4	5
Dim. in mm	a	107	107	107
	b	100	100	100
	c	80	80	80
	d	85	85	85
	e	77	77	77
	f	6	6	6
	g	12	12	12
	g,1	2	2	2
	h	113	113	113
	k	55	55	55
	l	88	88	88
Terminal for cond. cross section (mm ²) min.-max.		6	6	6
		-25	-25	-25

1 MB 212/258



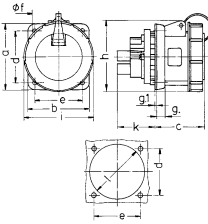
Drawing	Amp.	63			125	
		Poles			Poles	
1 MB 212/258		3	4	5	4	5
Dim. in mm	a	107	107	107	130	130
	b	100	100	100	130	130
	c	81	81	81	119	119
	d	85	85	85	104	104
	e	77	77	77	104	104
	f	6	6	6	6.5	6.5
	g	12	12	12	18	18
	g,1	2	2	2	2	2
	h	117	117	117	129	129
	i	113	113	113	126	126
	k	55	55	55	43	43
	l	88	88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

1 MB 213



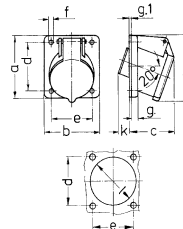
Drawing	Amp.	63		
		Poles		
1 MB 213		3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	164	164	164
	d	134.5	134.5	134.5
	e	103	103	103
	f	6.1	6.1	6.1
	g	6	6	6
	h	216	216	216
	M	40	40	40
	M*	2xM40 (blind) to be cut out		
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm ²) min.-max.		6	6	6
		-25	-25	-25

1 MB 217/1



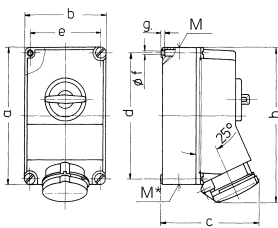
Drawing	Amp.	16		32		63	
		Poles		Poles		Poles	
1 MB 217/1		3	5	3	5	3	5
Dim. in mm	a	75	75	85	85	107	107
	b	75	75	75	75	100	100
	c	60	60	67	73	82	82
	d	60	60	60	60	85	85
	e	60	60	60	60	77	77
	f	5.5	5.5	5.5	5.5	6.5	6.5
	g	8	8	8	8	12	12
	g,1	2	2	2	2	2	2
	h	81	95	95	106	115	115
	i	70	88	94	102	114	114
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

1 MB 231



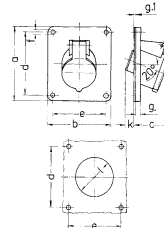
Drawing	Amp.	16		32	
		Poles		Poles	
1 MB 231		2	3	2	3
Dim. in mm	a	68	68	68	68
	b	62	62	62	62
	c	42	42	42	42
	d	53	53	53	53
	e	47	47	47	47
	f	4.5	4.5	4.5	4.5
	g	8	8	8	8
	g,1	2	2	2	2
	h	72	72	72	72
	k	32	32	32	32
	l	55	55	55	55
Terminal for cond. cross section (mm ²) min.-max.		4	4	4	4
		-10	-10	-10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

1 MB 234



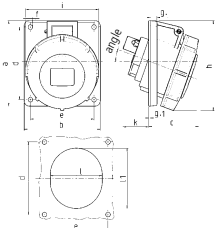
Drawing	Amp.	63		
		Poles		
1 MB 234		3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	192	192	192
	d	240	240	240
	e	140	140	140
	f	8.1	8.1	8.1
	g	8	8	8
	h	300	300	300
	M	40	40	40
	M*	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27
Terminal for cond. cross section (mm ²) min.-max.		6	6	6
		-25	-25	-25

1 MB 236



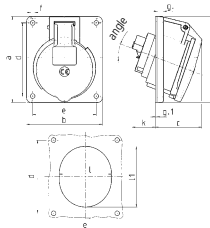
Drawing	Amp.	32
		Poles
1 MB 236		3
Dim. in mm	a	100
	b	92
	c	42
	d	85
	e	77
	f	5.1
	g	8
	g,1	2
	k	31
	l	60
Terminal for cond. cross section (mm ²) min.-max.		4
		-10

1 MB 251



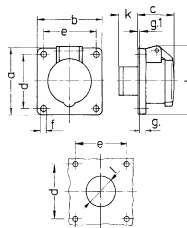
Drawing	Amp.	16			32		
		Poles			Poles		
1 MB 251		3	4	5	3	4	5
Dim. in mm	a	73.5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	60	62	64	64	66
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g,1	2	2	2	2	2	2
	h	84	100	105	109	109	113
	i	78	85	96	103	103	110
	k	43	32	32	53	53	45
	l	52	55	65	67	67	72
	l1	60	63	72	82	82	85
	o	20°	20°	20°	20°	20°	20°
Terminal for cond. cross section (mm ²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-10	-10	-10

1 MB 260



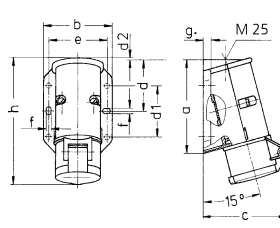
Drawing	Amp.	16			32		
		Poles			Poles		
1 MB 260		3	4	5	3	4	5
Dim. in mm	a	73.5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	50	59	58	62	62	61
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	7	8	8	8	8	8
	g,1	2	2	2	2	2	2
	h	79	100	100	103	103	106
	k	44	34	34	54	54	49
	l	52	55	65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

1 MB 292



Drawing	Amp.	16		32	
		Poles		Poles	
1 MB 292		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 (mm ²) min.-max.		4	4	4	4
		-10	-10	-10	-10

1 MB 294

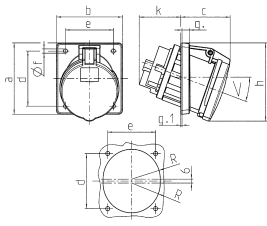


Drawing	Amp.	16		32	
		Poles		Poles	
1 MB 294		2	3	2	3
Dim. in mm	a	96	96	96	96
	b	73	73	73	73
	c	90	90	90	90
	d	53	53	53	53
	d1	52	52	52	52
	e	2	2	2	2
	d2	62	62	62	62
	f	5.3	5.3	5.3	5.3
	g	8	8	8	8
	h	129	129	129	129
Terminal for cond. cross section (mm ²) min.-max.		4	4	4	4
		-10	-10	-10	-10

Service – Drawings and dimensions

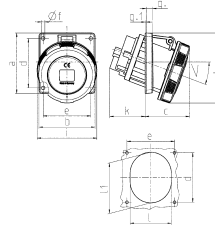
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 297



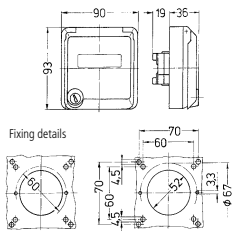
Drawing 1 MB 297	Amp. Poles	63		
		3	4	5
Dim. in mm	a	110	110	110
	b	106	106	106
	c	82	82	82
	d	85	85	85
	e	77	77	77
	f	6.5	6.5	6.5
	g	12	12	12
	g-1	2	2	2
	h	122	122	122
	k	69	69	69
	R	46	46	46
	α	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		-25	-25	-25

1 MB 298/601



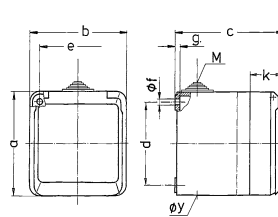
Drawing 1 MB 298 1 MB 601	Amp. Poles	63			125		
		3	4	5	3	4	5
Dim. in mm	a	110	110	110	114	114	114
	b	106	106	106	110	110	110
	c	85	85	85	75	75	75
	d	85	85	85	90	90	90
	e	77	77	77	90	90	90
	f	6.2	6.2	6.2	6.2	6.2	6.2
	g	12	12	12	13	13	13
	g-1	2	2	2	2	2	2
	h	128	128	128	133	133	133
	i	113	113	113	126	126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

1 MB 305



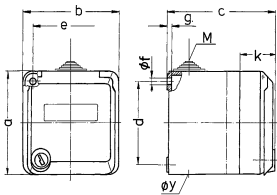
Drawing
1 MB 305
Dim. in mm

1 MB 312



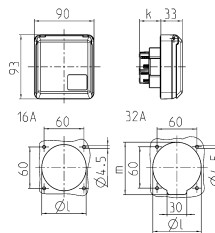
Drawing 1 MB 312	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	87	87	87	99	99	99
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	4.2	4.2	4.2	4.2	4.2	4.2
	k	33	33	33	33	33	33
	y	25.5	25.5	25.5	25.5	25.5	25.5
	M	25x1.5	25x1.5	25x1.5	25x1.5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

1 MB 313



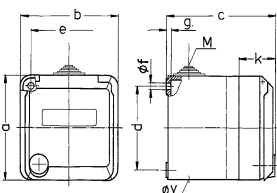
Drawing 1 MB 313	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	90	90	90	102	102	102
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	4.2	4.2	4.2	4.2	4.2	4.2
	k	36	36	36	36	36	36
	y	25.5	25.5	25.5	25.5	25.5	25.5
	M	25x1.5	25x1.5	25x1.5	25x1.5	25x1.5	25x1.5
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-6	-6	-6

1 MB 315



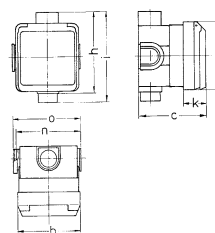
Drawing 1 MB 315	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
	l	50	60	67	65	65	73
	m	-	-	-	70	70	76
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-6	-6	-6

1 MB 317



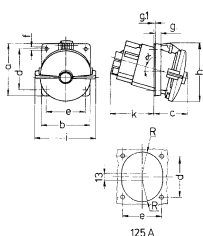
Drawing 1 MB 317	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	88	88	88	100	100	100
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	4.2	4.2	4.2	4.2	4.2	4.2
	k	34	34	34	34	34	34
	y	25.5	25.5	25.5	25.5	25.5	25.5
	M	25x1.5	25x1.5	25x1.5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

1 MB 336



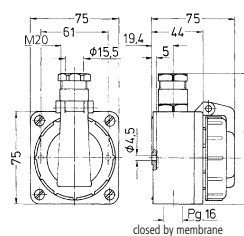
Drawing 1 MB 336	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	95	95	95	95	95	95
	h	111	111	111	111	111	111
	i	124	124	124	124	124	124
	k	33	33	33	33	33	33
	n	91	91	91	91	91	91
	o	95	95	95	95	95	95
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5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

1 MB 339



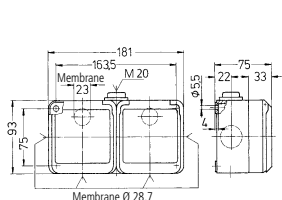
Drawing 1 MB 339	Amp. Poles	125	
		4	5
Dim. in mm	a	114	114
	b	110	110
	c	85	85
	d	90	90
	e	90	90
	f	6.2	6.2
	g	13	13
	g-1	2	2
	h	135	135
	i	135	135
	k	103	103
	R	47	47
	α	15°	15°
Terminal for cond. cross section (mm²) min.-max.		25	25
		70	70

1 MB 347



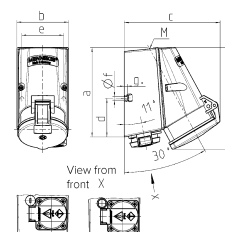
Drawing
1 MB 347
Dim. in mm

1 MB 350



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

1 MB 354

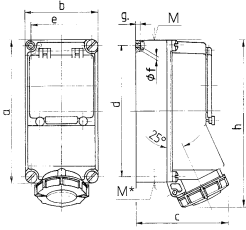


Drawing 1 MB 354	Amp. Poles	16			32		
		4	5	5	4	5	5
Dim. in mm	a	141	141	141	141	141	141
	b	84	84	85	84	84	85
	c	136	140	158	136	140	158
	d	61	61	61	61	61	61
	e	68	68	68	68	68	68
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	5	5	5	5	5	5
	h	142	145	161	142	145	161
	M	25	25	25	25	25	25
Max. cable diam. (mm)		18	18	18	18	18	18
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	2.5	1.5	1.5	2.5
		-4	-4	-10	-4	-4	-10

Service – Drawings and dimensions

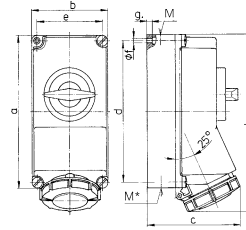
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 378



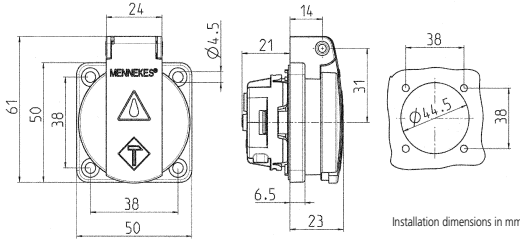
Drawing 1 MB 378	Amp. Poles	16			32		
		3	4	5	4	5	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	144	146	147	152	153	153
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6.3	6.3	6.3	6.3	6.3	6.3
	g	8	8	8	8	8	8
	h	252	255	259	268	274	274
	M	1x25 and 1x32			1x25 and 1x32		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

1 MB 382



Drawing 1 MB 382	Amp. Poles	16		32	
		7	7	7	7
Dim. in mm	a	225	225	225	225
	b	118	118	118	118
	c	147	147	153	153
	d	208	208	208	208
	e	101	101	101	101
	f	6.3	6.3	6.3	6.3
	g	8	8	8	8
	h	259	274	274	274
	M	1x25 and 1x32		1x25 and 1x32	
	M*	2x25		2x25	
Max. cable diam. (mm)		25		25	
Terminal for cond. cross section (mm ²) min.-max.		1.5		2.5	
		-4		-10	

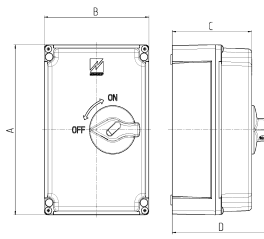
1 MB 410



Drawing
1 MB 410
Dim. in mm

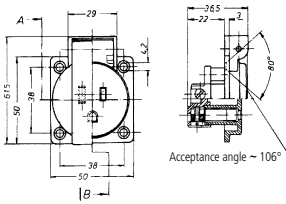
Installation dimensions in mm

1 MB 412/3



Drawing 1 MB 412/3	Amp. Pole	25		40		80	
		3/3+HS	3/3+HS	3/3+HS	3/3+HS	3/3+HS	3/3+HS
Dim. in mm	A	170	263	263	263	263	263
	B	118	168.5	168.5	168.5	168.5	168.5
	C	98	130	130	130	130	130
	D	131	161	161	161	161	161

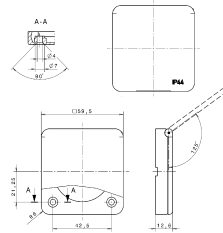
1 MB 421



Drawing
1 MB 421
Dim. in mm

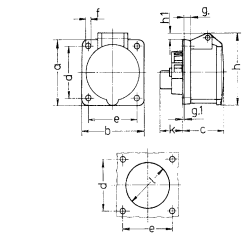
Acceptance angle ~ 106°

1 MB 422



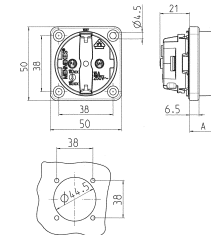
Drawing
1 MB 422
Dim. in mm

1 MB 426



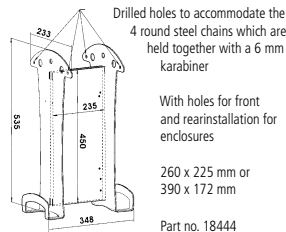
Drawing 1 MB 426	Amp. Poles	16		
		3	4	5
Dim. in mm	a	55	55	55
	b	55	55	55
	c	54	54	54
	d	45	45	45
	e	45	45	45
	f	5.5	5.5	5.5
	g	8	8	8
	g.1	2	2	2
	h	70	70	70
	h.1	12	12	12
	k	28	28	28
	l	47	47	47
Terminal for cond. cross section (mm ²) min.-max.		1.5	1.5	1.5
		-4	-4	-4

1 MB 450



Drawing 1 MB 450	Dim. A
SCHUKO	18.3
French/Belgian standards	15.8
Danish standards	15.8

1 MB 451



Drawing
1 MB 451
Dim. in mm

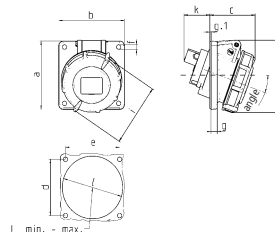
Drilled holes to accommodate the 4 round steel chains which are held together with a 6 mm karabiner

With holes for front and rear installation of enclosures

260 x 225 mm or 390 x 172 mm

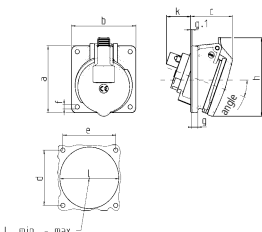
Part no. 18444

1 MB 452



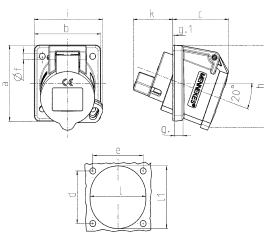
Drawing 1 MB 452	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	57	59	60	68	68	72
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	87	91	99	105	105	110
	i	78	85	96	103	103	110
	k	39	34	33	53	53	41
	l min.	57	64	70	78	78	78
	l max.	78	78	78	78	78	78
Terminal for cond. cross section (mm ²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-10	-10	-10

1 MB 453



Drawing 1 MB 453	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	53	57	57	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 (mm ²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-10	-10	-10

1 MB 456

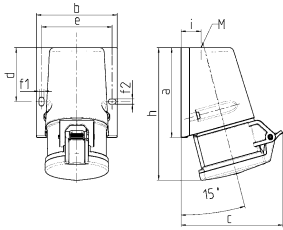


Drawing 1 MB 456	Amp. Poles	16	
		3	3
Dim. in mm	a	68	68
	b	62	62
	c	52	52
	d	47	47
	e	47	47
	of	5.5	5.5
	g	8	8
	g.1	1.5	1.5
	h	74	74
	i	64	64
	k	37	37
	l	52	52
	ll	56	56
Terminal for cond. cross section (mm ²) min.-max.		1.5	1.5
		-4	-4

Service – Drawings and dimensions

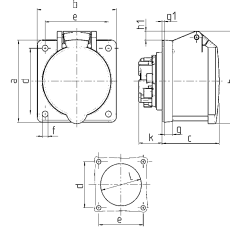
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 463



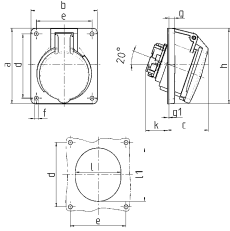
Drawing 1 MB 463	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	95	93	92.5	102	102	102
	b	73.5	87.5	87.5	94	94	94
	c	93	107.5	110	115.5	115.5	119.5
	d	55.5	55.5	55.5	62	62	62
	e	61	76	76	84	84	84
	f1	5.3	5.3	5.3	5.1	5.1	5.1
	f2	5.3	5.3	5.3	5.1	5.1	5.1
	h	139	139	136.5	160	160	156.5
	i	19.8	21.5	21.5	26.5	26.5	26.5
	M	M20x	M25x	M25x	M25x	M32x	M32x
		1.5	1.5	1.5	1.5	1.5	1.5
		1.5	1.5	1.5	2.5	2.5	2.5
	Terminal for cond. cross section (mm ²) min.-max.	-4	-4	-4	-6	-6	-6

1 MB 464



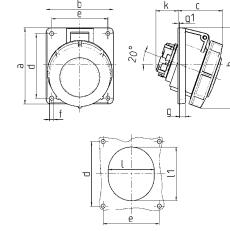
Drawing 1 MB 464	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	54	64	64	64
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	h	75	80	85	89	89	95
	g-1	2	2	2	2	2	2
	k	22	22	22	28	28	28
	l	43	52	57	60	60	64
	Terminal for cond. cross section (mm ²) min.-max.	1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-6	-6	-6

1 MB 465



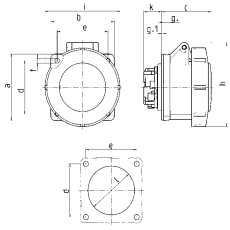
Drawing 1 MB 465	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	73.5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	58	58	61	61	60
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	7	8	8	8	8	8
	g-1	2	2	2	2	2	2
	h	79	100	100	103	103	105
	k	31	31	31	44	44	54
	l	52	55	65	70	70	73
	l1	60	63	72	82	82	85
	Terminal for cond. cross section (mm ²) min.-max.	-4	-4	-4	-6	-6	-6

1 MB 466



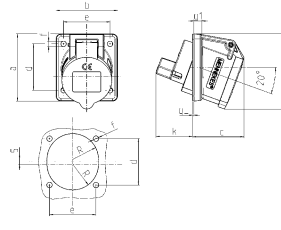
Drawing 1 MB 466	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	73.5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	60	62	66	66	66
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	7	8	8	8	8	8
	g-1	2	2	2	2	2	2
	h	84	100	106	109	109	113
	k	31	31	31	44	44	54
	l	52	55	65	70	70	73
	l1	60	63	72	82	82	85
	Terminal for cond. cross section (mm ²) min.-max.	-4	-4	-4	-6	-6	-6

1 MB 467



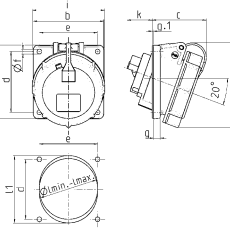
Drawing 1 MB 467	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	69	69	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g-1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	21	21	21	28	28	38
	l	43	52	54	60	60	65
	l1	1.5	1.5	1.5	2.5	2.5	2.5
	Terminal for cond. cross section (mm ²) min.-max.	-4	-4	-4	-6	-6	-6

1 MB 472



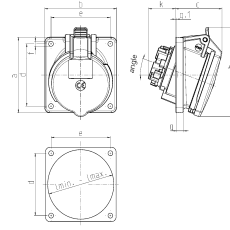
Drawing 1 MB 472	Amp. Poles	16		
		3	4	5
Dim. in mm	a	68		
	b	62		
	c	52		
	d	47		
	e	47		
	f	5.5		
	g	8		
	g-1	1.5		
	h	76		
	k	37		
	Terminal for cond. cross section (mm ²) min.-max.	-4		

1 MB 474



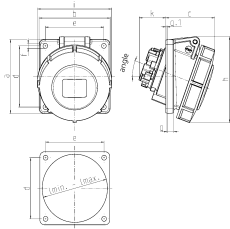
Drawing 1 MB 474	Amp. Pole	16		32		63	
		3	5	3/4	5	3/4/5	5
Dim. in mm	a	85	85	85	85	85	114
	b	85	85	85	85	85	114
	c	71	65	65	80	98	
	d	70	70	70	70	90	
	e	70	70	70	70	90	
	f	5.5	5.5	5.5	5.5	5.5	
	g	8	8	8	8	12	
	g-1	2	2	2	2	2	
	h	92	98	101	115	135	
	i	70	87	94	101	112	
	k	39	33	53	53	70	
	l min.	57	70	78	78	92	
	l max.	78	78	78	78	105	
	l1	-	-	-	-	105	
	Terminal for cond. cross section (mm ²) min.-max.	1.5	1.5	2.5	2.5	6	
		-4	-4	-10	-10	-25	

1 MB 519



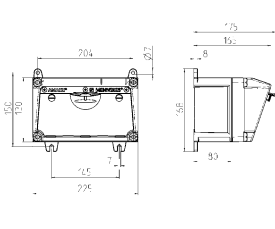
Drawing 1 MB 519	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	52	57	55	61	60	66
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	8	8	8	8	8	8
	g-1	2	2	2	2	2	2
	h	86	96	100	96	104	110
	k	31	32	33	43	44	48
	l min.	57	64	70	78	78	78
	l max.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

1 MB 520



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

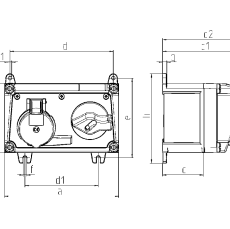
1 MB 523



Drawing 1 MB 531			
Depth dimensions at various fittings.			
Sockets	Degrees	Depth	
SCHUKO®16A, 230 V	IP 44	175 mm	
	IP 67	194 mm	
CEE 16A, 3p, 230V	IP 44	204 mm	
	IP 67	205 mm	
CEE 16A, 5p, 400V	IP 44	209 mm	
	IP 67	213 mm	
CEE 32A, 5p, 400V	IP 44	221 mm	
	IP 67	227 mm	
CEE 63A, 5p, 400V	IP 44	248 mm	
	IP 67	248 mm	

Cable entries: closed for cut out. 2 x M 25 each on top and bottom, 2 x M 20 each on top and bottom for cut out.

1 MB 550

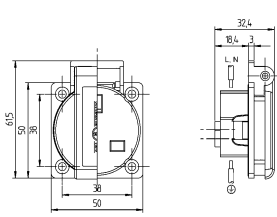


Drawing 1 MB 550	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	168	168	168	168	168	168
	b1	130	130	130	130	130	130
	c	80	80	80	80	80	80
	c1	166	166	166	166	166	166
	c2	182	183	183	193	193	193
	d	204	204	204	204	204	204
	d1	145	145	145	145	145	145
	e	150	150	150	150	150	150
	f	7	7	7	7	7	7
	f1	07	07	07			

Service – Drawings and dimensions

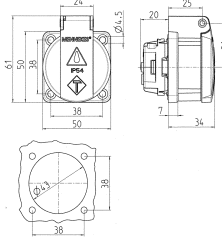
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 584



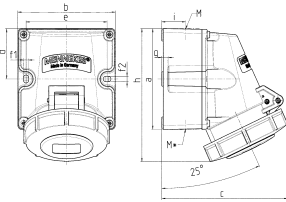
Drawing 1 MB 584
Dim. in mm

1 MB 586



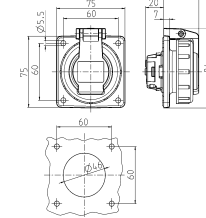
Drawing 1 MB 586

1 MB 622



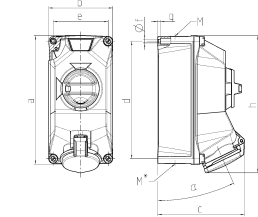
Drawing 1 MB 622	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	100	100	100	100	100	100
	b	101	101	101	109	109	109
	c	117	125	131	157	157	160
	d	50	50	50	50	50	50
	e	84	84	84	92	92	92
	f1	5.3	5.3	5.3	5.3	5.3	5.3
	f2	5.3	5.3	5.3	5.3	5.3	5.3
	g	6.5	6.5	6.5	6.5	6.5	6.5
	h	131	131	132	148	148	148
	i	24.7	24.7	24.7	27.5	27.5	27.5
	M	25 (optional M20)			32 (optional M25)		
	M*	2x25 (blind) to be cut out			2x25 (blind) to be cut out		
		18 (M25) and 15 (M20)			25 (M32) and 18 (M25)		
Max. cable diam. (mm)		1.5	1.5	1.5	2.5	2.5	2.5
Terminal for cond. cross section (mm²) min.-max.		-4	-4	-4	-6	-6	-6

1 MB 627



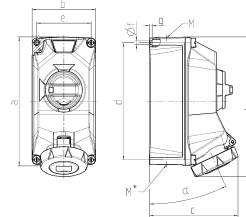
Drawing 1 MB 627
Dim. in mm

1 MB 713



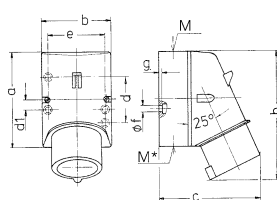
Drawing 1 MB 713	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	160	160	160	162	162	162
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6.4	6.4	6.4	6.4	6.4	6.4
	g	5	5	5	5	5	5
	h	238	244	243	249	249	250
	i	25	25	25	25	25	25
	M	1x25 and 1x32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

1 MB 714



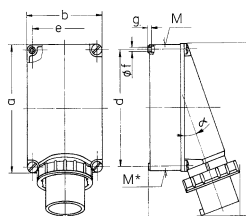
Drawing 1 MB 714	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	163	163	165	168	168	169
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6.4	6.4	6.4	6.4	6.4	6.4
	g	5	5	5	5	5	5
	h	241	245	249	252	252	255
	i	25	25	25	25	25	25
	M	1x25 and 1x32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

2 MB 32



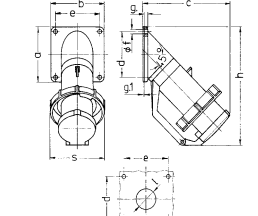
Drawing 2 MB 32	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	87	100	100	128	128	128
	b	64	75	75	84	84	84
	c	93	106	110	133	133	135
	d	40	—	—	—	—	—
	e	—	10.5	10.5	11	11	11
	f	50.5	59	59	68	68	68
	g	4.5	5	5	5.3	5.3	5.3
	h	4	4	4	4	4	4
	i	122	133	135	169	169	170
	M	20	20	20	32	32	32
	M*	1x20 (blind) to be cut out			2x25 (blind) to be cut out		
		15			18/25		
Max. cable diam. (mm)		1	1	1	2.5	2.5	2.5
Terminal for cond. cross section (mm²) min.-max.		-2.5	-2.5	-2.5	-6	-6	-6

2 MB 36



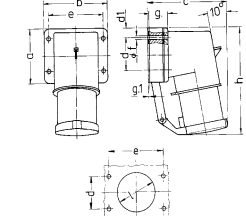
Drawing 2 MB 36	Amp. Poles	63			125	
		3	4	5	4	5
Dim. in mm	a	170	170	170	264	264
	b	118	118	118	163	163
	c	171	171	171	205	205
	d	134.5	134.5	134.5	240	240
	e	103	103	103	140	140
	f	6.1	6.1	6.1	8.1	8.1
	g	6	6	6	8	8
	h	250	250	250	355	355
	M	40	40	40	50	50
	M*	2x40			2x40	
	α	25°	25°	25°	20°	20°
Max.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

2 MB 40



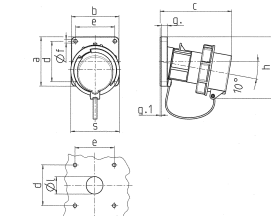
Drawing 2 MB 40	Amp. Poles	16			32			63		
		5	3	4	5	4	5	4	5	
Dim. in mm	a	85	85	85	85	114	114	114	114	
	b	85	85	85	85	114	114	114	114	
	c	141	141	141	144	180	180	180	180	
	d	70	70	70	70	90	90	90	90	
	e	70	70	70	70	90	90	90	90	
	f	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	
	g	6	6	6	6	6	6	6	6	
	g.1	2	2	2	2	2	2	2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

2 MB 43



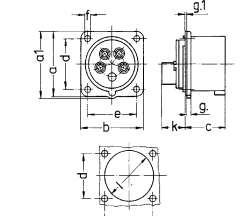
Drawing 2 MB 43	Amp. Poles	16			32		
		4	5	3	4	5	
Dim. in mm	a	85	85	75	75	75	
	b	85	85	90	90	90	
	c	104	106	115	115	117	
	d	64	64	45	45	45	
	e	10	10	13	13	13	
	f	64	64	78	78	78	
	g	5.5	5.5	5.5	5.5	5.5	
	g.1	27	27	27	27	27	
	h	2	2	1	1	1	
	l	140	140	150	150	150	
	i	50	50	55	55	55	
Terminal for cond. cross section (mm²) min.-max.		1	1	2.5	2.5	2.5	
		-2.5	-2.5	-6	-6	-6	

2 MB 62/1



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

2 MB 68

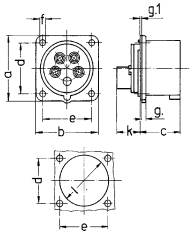


Drawing 2 MB 68	Amp. Poles	16		32	
		5	3	5	5
Dim. in mm	a	66	66	72	72
	a1	69	69	78	78
	b	66	66	72	72
	c	43	43	52	52
	d	52	52	60	60
	e	52	52	60	60
	f	4.5	4.5	4.5	4.5
	g	4.5	4.5	4.5	4.5
	g.1	2	2	2	2
	k	27	27	32	32
	l	59	59	63	63
Terminal for cond. cross section (mm²) min.-max.		1	1	2.5	2.5
		-2.5	-2.5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

Service – Drawings and dimensions

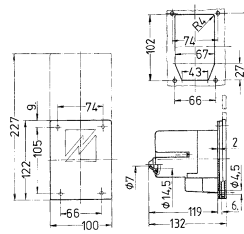
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

2 MB 68/853



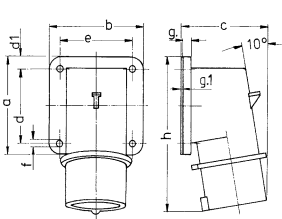
Drawing	Amp.	16	
2 MB 68/853	Poles	5	
Dim. in mm	a	75	
	b	75	
	c	42	
	d	60	
	e	60	
	f	5.5	
	g	7.3	
	g.1	2	
	k	13	
	l	52	
Terminal for cond. cross section (mm ²) min.-max.		1	
		-2.5	

2 MB 70



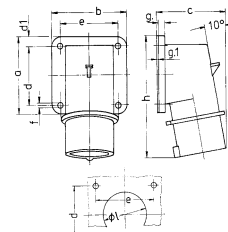
Drawing	Amp.	16	
2 MB 70	Poles	5	
Dim. in mm	a	75	
	b	75	
	c	42	
	d	60	
	e	60	
	f	5.5	
	g	7.3	
	g.1	2	
	k	13	
	l	52	
Terminal for cond. cross section (mm ²) min.-max.		1	
		-2.5	

2 MB 71



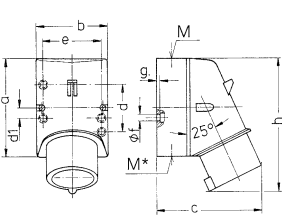
Drawing	Amp.	16		32	
2 MB 71	Poles	7		7	
Dim. in mm	a	85	75	85	75
	b	85	90	85	90
	c	79	90	79	90
	d	64	45	64	45
	d1	10	13	10	13
	e	64	78	64	78
	f	5.5	5.5	5.5	5.5
	g	6	6	6	6
	g.1	2	2	2	2
	h	129	138	129	138
Terminal for cond. cross section (mm ²) min.-max.		1	2.5	1	2.5
		-2.5	-6	-2.5	-6

2 MB 73



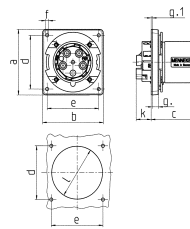
Drawing	Amp.	16		32		
2 MB 73	Poles	4		5		
Dim. in mm	a	85	85	75	75	75
	b	85	85	90	90	90
	c	75	79	87	87	90
	d	64	64	45	45	45
	d1	10	10	13	13	13
	e	64	64	78	78	78
	f	5.5	5.5	5.5	5.5	5.5
	g	6	6	6	6	6
	g.1	2	2	2	2	2
	h	129	129	137	137	138
	l	50	50	55	55	55
Terminal for cond. cross section (mm ²) min.-max.		1	1	2.5	2.5	2.5
		-2.5	-2.5	-6	-6	-6

2 MB 147



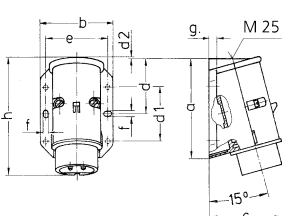
Drawing	Amp.	16		32	
2 MB 147	Poles	7		7	
Dim. in mm	a	100	128	100	128
	b	75	84	75	84
	c	110	135	110	135
	d	—	—	—	—
	d1	10.5	11	10.5	11
	e	59	68	59	68
	f	5	5.3	5	5.3
	g	4	4	4	4
	g	135	170	135	170
	M	20	32	20	32
	M*	20 (blind) to be cut out		2x25 (blind) to be cut out	
Max. cable diam. (mm)		15	18	15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

2 MB 155



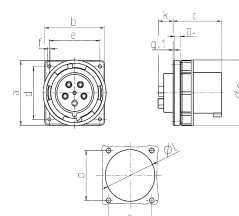
Drawing	Amp.	63		
2 MB 155	Poles	3	4	5
Dim. in mm	a	110	110	110
	b	106	106	106
	c	86	86	86
	d	90	90	90
	e	90	90	90
	f	5.5	5.5	5.5
	g	12	12	12
	g.1	2	2	2
	k	28	28	28
	l	88.5	88.5	88.5
Terminal for cond. cross section (mm ²) min.-max.		6	6	6
		-16	-16	-16

2 MB 160



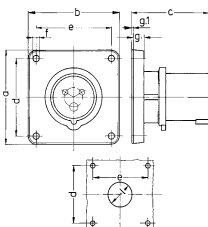
Drawing	Amp.	16		32	
2 MB 160	Poles	2		3	
Dim. in mm	a	96	96	96	96
	b	73	73	73	73
	c	74	74	74	74
	d	53	53	53	53
	d1	52	52	52	52
	d2	2	2	2	2
	e	62	62	62	62
	f	5.3	5.3	5.3	5.3
	g	8	8	8	8
	h	116	116	116	116
Terminal for cond. cross section (mm ²) min.-max.		4	4	4	4
		-10	-10	-10	-10

2 MB 166



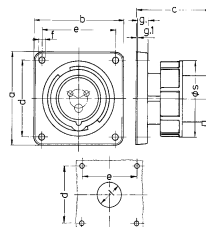
Drawing	Amp.	63			125		
2 MB 166	Poles	3	4	5	3	4	5
Dim. in mm	a	110	110	110	130	130	130
	b	106	106	106	130	130	130
	c	86	86	86	112	112	112
	d	90	90	90	104	104	104
	e	90	90	90	104	104	104
	f	5.5	5.5	5.5	6.5	6.5	6.5
	g	12	12	12	18	18	18
	g.1	2	2	2	2	2	2
	k	28	28	28	28	28	28
	l	88.5	88.5	88.5	98	98	98
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

2 MB 173/2



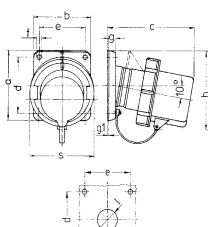
Drawing	Amp.	16			32		
2 MB 173/2	Poles	3	4	5	3	4	5
Dim. in mm	a	85.7	85.7	85.7	85.7	85.7	85.7
	b	85.7	85.7	85.7	85.7	85.7	85.7
	c	72	72	72	90	90	90
	d	69.5	69.5	69.5	69.5	69.5	69.5
	e	69.5	69.5	69.5	69.5	69.5	69.5
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	11	11	11	11	11	11
	g.1	2	2	2	2	2	2
	l	32	36	36	47	47	47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

2 MB 187/2



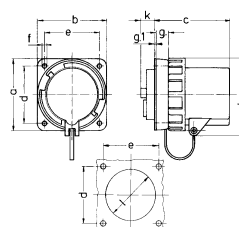
Drawing	Amp.	16			32		
2 MB 187/2	Poles	3	4	5	3	4	5
Dim. in mm	a	85.7	85.7	85.7	85.7	85.7	85.7
	b	85.7	85.7	85.7	85.7	85.7	85.7
	c	72	72	72	90	90	90
	d	69.5	69.5	69.5	69.5	69.5	69.5
	e	69.5	69.5	69.5	69.5	69.5	69.5
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	11	11	11	11	11	11
	g.1	2	2	2	2	2	2
	l	32	36	36	47	47	47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

2 MB 203



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

2 MB 206

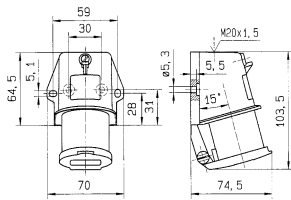


Drawing	Amp.	125	
2 MB 206	Poles	5	
Dim. in mm	a	130	
	b	130	
	c	120	
	d	104	
	e	104	
	f	6.5	
	g	18	
	g.1	2	
	h	131	
	k	28	
	l	98	
Terminal for cond. cross section (mm ²) min.-max.		25	
		-70	

Service – Drawings and dimensions

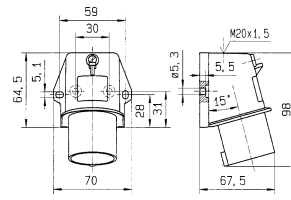
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

2 MB 212



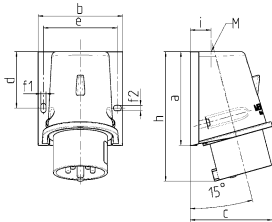
Drawing
2 MB 212
Dim. in mm

2 MB 213



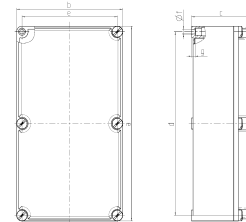
Drawing
2 MB 213
Dim. in mm

2 MB 221



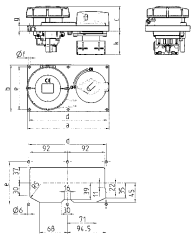
Drawing 2 MB 221 Dim. in mm	Amp. Poles	16		32		
		4	5	3	4	5
a		92.5	92.5	102	102	102
b		87	87	94	94	94
c		84.5	84.5	94	94	94
d		55.5	55.5	62	62	62
e		76	76	84	84	84
f1		5.3	5.3	5.3	5.3	5.3
f2		5.3	5.3	5.3	5.3	5.3
h		128	128	146	146	146
i		21.5	21.5	26	26	26
M		25x1.5	25x1.5	25x1.5	25x1.5	32x1.5

5 MB 30



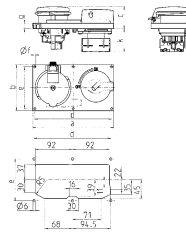
Drawing 5 MB 30 Dim. in mm	Typ	10186 / 10188	10189	10441 / 10442
		a	460	460
b	260	260	180	
c	150	228	148	
d	434	434	440	
e	234	234	160	
f	11	11	8.1	
g	9	9	8	

5 MB 57



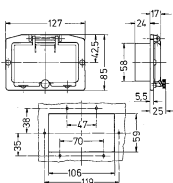
Drawing 5 MB 57 Dim. in mm	Amp. Poles	16			32		
		3	4	5	3	4	5
a		200	200	200	200	200	200
b		110	110	110	110	110	110
c		47	50	51	59	59	60
d		190	190	190	190	190	190
e		100	100	100	100	100	100
f		5	5	5	5	5	5
g		13	13	13	13	13	13
k max.		56	56	56	56	56	56

5 MB 59



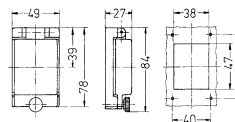
Drawing 5 MB 59 Dim. in mm	Amp. Poles	16			32		
		3	4	5	3	4	5
a		200	200	200	200	200	200
b		110	110	110	110	110	110
c		46	49	46	56	56	53
d		190	190	190	190	190	190
e		100	100	100	100	100	100
f		5	5	5	5	5	5
g		13	13	13	13	13	13
k max.		56	56	56	56	56	56

6 MB 2 / 5 TE



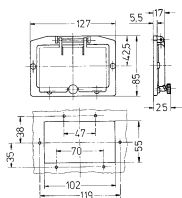
Part no. 40243 / Draw. 6 MB 2 / 5 modules

6 MB 3 / 2 TE



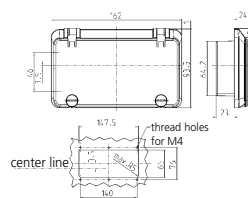
Part no. 40444 / Draw. 6 MB 3 / 2 modules

6 MB 4 / 5 TE



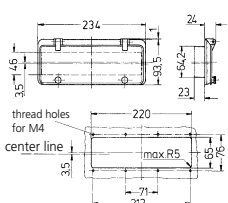
Part no. 40871 / Draw. 6 MB 4 / 5 modules

6 MB 12 / 8 TE



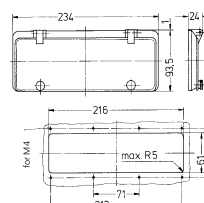
Part no. 409792A / Draw. 6 MB 12 / 8 modules

6 MB 13 / 12 TE



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

6 MB 14 / 12 TE

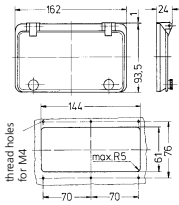


Part no. 40980 / Draw. 6 MB 14 / 12 modules

Service – Drawings and dimensions

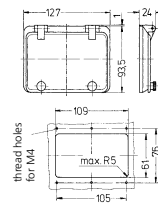
The sizes for the entries on the drawings can be different to the real existing entry sizes. Subject to modification and amendments without prior notice. Errors and omissions excepted.

6 MB 15 / 8 TE



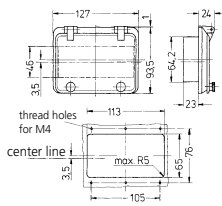
Part no. 40978 / Draw. 6 MB 15 / 8 modules

6 MB 16 / 6 TE



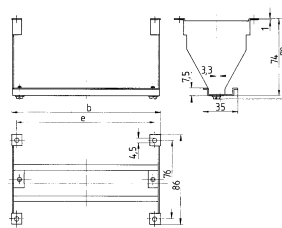
Part no. 40985 / Draw. 6 MB 16 / 6 modules

6 MB 17 / 6 TE



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

6 MB 18



Drawing
6 MB 18

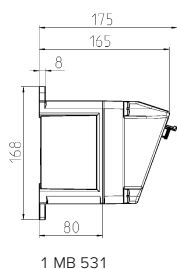
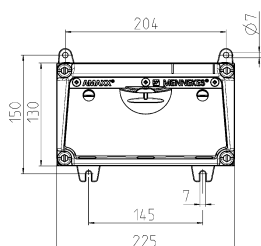
		Number of spacing modules		
		6	8	12
Dim. in mm	b	115	150	222
	e	105	140	212

Service – Drawings and dimensions

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

AMAXX. Combination units.

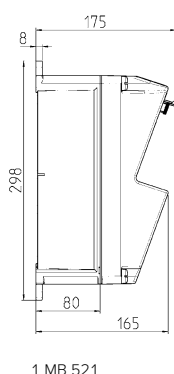
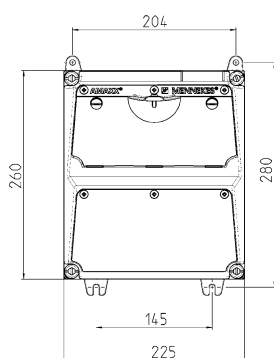
AMAXX with 1 segment



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

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

AMAXX with 2 segments



Cable entries: closed for cut out.

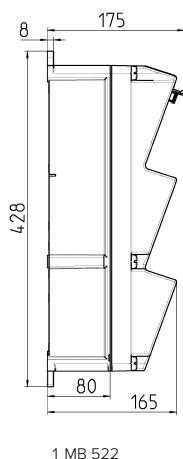
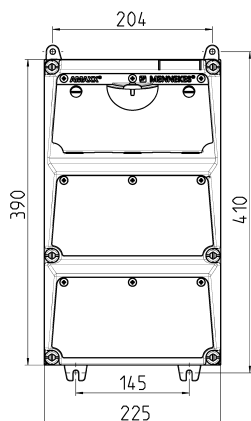
single enclosure 130 mm x 225 mm:
2 x M 25 on top and bottom

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

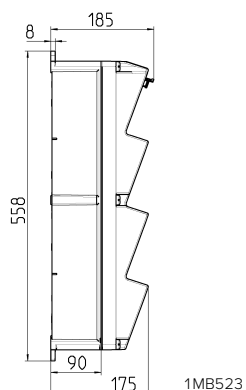
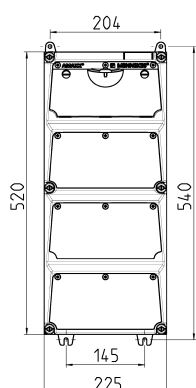
triple enclosure 390 mm x 225 mm:
2 x M 40 on top and bottom

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

AMAXX with 3 segments



AMAXX with 4 segments



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

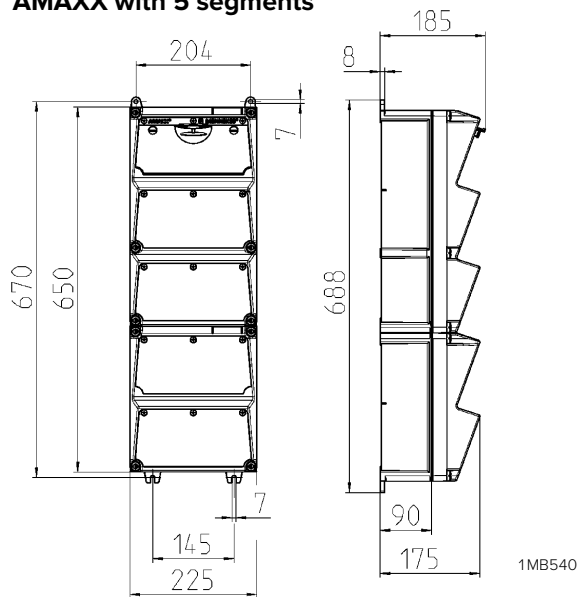
Sockets	IP-degrees	Depth
SCHUKO® 16 A, 230 V	IP44	186 mm
	IP67	208 mm
CEE 16 A, 3 p, 230 V	IP44	216 mm
	IP67	220 mm
CEE 16 A, 5 p, 400 V	IP44	222 mm
	IP67	226 mm
CEE 32 A, 5 p, 400 V	IP44	231 mm
	IP67	236 mm
CEE 63 A, 5 p, 400 V	IP44	260 mm
	IP67	260 mm

Service – Drawings and dimensions

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

AMAXX. Combination units.

AMAXX with 5 segments



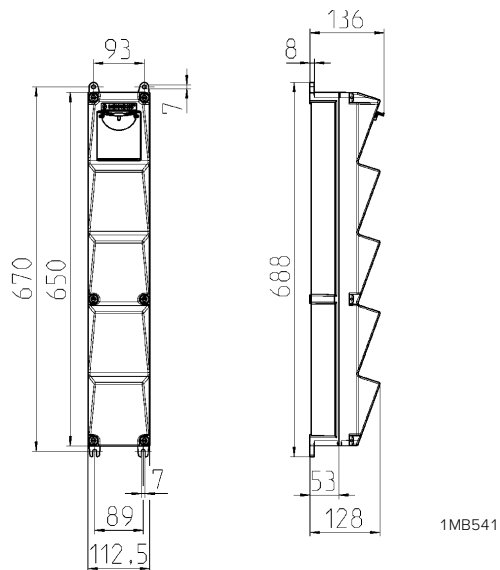
Cable entries: closed for cut out.

quadruple enclosure 520 mm x 225 mm :

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

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

AMAXXs with 5 segments



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

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

Cable entries: closed for cut out.

AMAXX s 650 mm x 112,5 mm:

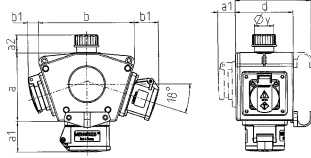
1 x M 25 each on top and bottom or
1 x M 32 each on top and bottom

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

Service – Drawings and dimensions

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

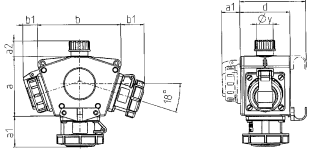
3 MB 44



3 MB 44			
Pos.	Receptacles	IP-degrees	Dim.
a			114.0 mm
a1	SCHUKO® 16 A, 230 V	IP 44	max. 30.0 mm
a1	CEE 16 A, 3 p, 230 V	IP 44	52.7 mm
a1	CEE 16 A, 5 p, 400 V	IP 44	50.5 mm
a1	CEE 32 A, 5 p, 400 V	IP 44	64.0 mm
a2			30.0 mm
b			160.0 mm
b1	SCHUKO® 16 A, 230 V	IP 44	max. 18.0 mm
b1	CEE 16 A, 3 p, 230 V	IP 44	42.0 mm
b1	CEE 16 A, 5 p, 400 V	IP 44	40.0 mm
b1	CEE 32 A, 5 p, 400 V	IP 44	53.0 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

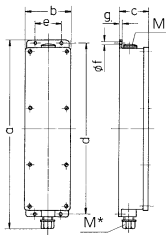
3 MB 45



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

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

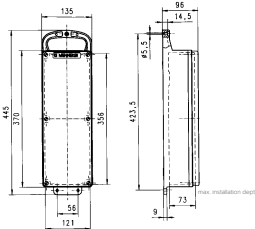
5 MB 35



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

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

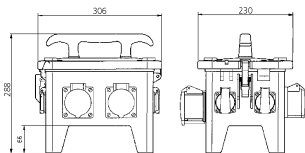
5 MB 44



Drawing 5 MB 44
Dim. in mm

Enclosure size: 445 x 135 mm

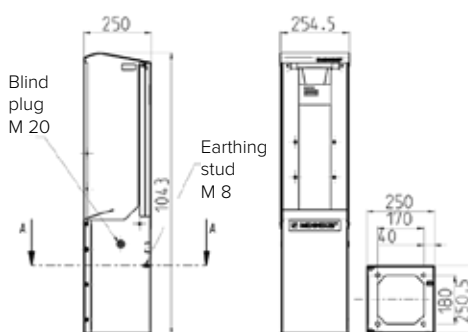
5 MB 48a



Drawing 5 MB 48a
Dim. in mm

Enclosure size: 300 x 230 x 287.5 mm

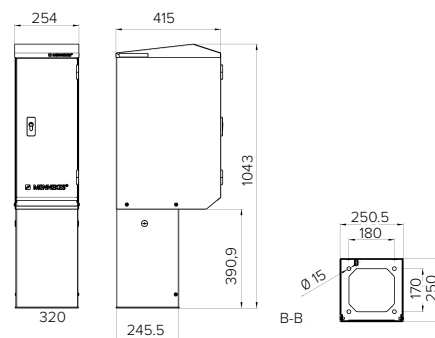
1 MB 517



Drawing 1 MB 517
Dim. in mm

for part no.
15678 and 15679

1 MB 518



Drawing 1 MB 518
Dim. in mm

for part no.
15680 and 15681

Service – Index of part numbers

Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page
31	16	250	33	348	35	524	40	675A	73	838	36	1217	35
32	16	251	33	349	35	525	40	676A	73	839	36	1247A	23
100	14	253	33	352	35	527	40	677A	73	840	36	1248A	23
101	14	254	33	353	35	528	40	707A	73	843	35	1249A	23
102	14	255	33	354	35	529	40	708A	73	844	35	1252A	23
103	14	259	33	355	35	530	40	713A	73	846	35	1260A	23
104	14	261	33	356	35	531	40	714A	73	847	35	1261A	23
105	14	262	33	357	35	539	41	715A	73	851	87	1263A	24
106	14	263	33	358	35	540	41	716A	73	852	87	1264A	24
107	14	265	33	359	35	541	41	720A	73	853	36	1265A	24
109	14	266	33	360	35	542	41	721A	73	855	39	1270	72
110	14	267	33	361	35	543	41	726A	73	856	14	1271	72
111	14	277	34	362	35	544	41	727A	73	857	23	1272	72
128A	14	278	34	363	35	545	41	728A	73	858	23	1273	72
129A	14	279	34	364	35	546	41	729A	73	891	34	1340	16
130A	14	280	34	365	35	548	41	733	67	903	24	1341	16,87
131A	14	281	34	367	35	549	41	734	67	905	24	1342	16
132A	14	282	34	368	35	550	41	735	67	913	39	1343	16
133A	14	283	34	371	37	551	41	736	67	921	35	1344	16
134A	14	284	34	372	37	552	41	737	67	922	35	1345	16
135A	14	285	34	373	37	553	41	738	67	1035	67	1346	16
136A	14	286	34	379	37	554	41	739	67	1040	67	1347	16
137	15	287	34	380	37	555	41	740	67	1045	67	1348	16
138	15	288	34	381	37	556	41	741	67	1050	67	1349	16
139	15	289	34	383	37	557	41	742	67	1055	67	1365	23
140	15	290	34	384	37	558	41	743	67	1060	67	1366	23
142	15	291	34	385	37	560	41	744	67	1065	68	1367	23
143	15	292	34	386	37	561	41	745	68	1070	68	1384	23
203A	24	293	34	390	37	562	41	746	68	1075	68	1385	23
204A	24	294	34	391	37	577	71	747	68	1080	68	1386	23
205A	24	295	34	392	37	578	71	748	68	1081	24	1388	23
206A	24	296	34	393	37	583	71	749	68	1082	24	1389	23
207A	24	297	34	394	37	584	71	750	68	1103	24	1390	23
208A	24	298	34	395	37	585	71	751	68	1107	35	1391	23
209A	24	299	34	396	38	586	71	752	68	1123A	24	1392	23
211A	24	300	34	397	38	590	71	800	35	1124A	24	1393	23
212A	24	315	34	398	37	591	71	801	35	1125A	24	1394	23
213A	24	318	38	399	37	596	71	802	35	1127A	24	1395	23
215A	24	319	38	400	37	597	71	803	35	1128A	24	1396	23
216A	24	321	38	401	37	598	71	804	35	1131	26	1398	23
217A	24	322	38	402	37	599	71	812	36	1136A	14	1399	23
218A	24	325	38	403	37	603	72	813	36	1137A	14	1400	23
219A	24	327	38	405	37	604	72	814	36	1140A	14	1401	23
221A	24	328	38	406	37	609	72	815	36	1141A	14	1402	23
222A	24	329	39	407	37	610	72	817	36	1142A	14	1408	36
223A	24	330	39	410	37	611	72	819	36	1144A	14	1409	36
224A	24	331	35	411	37	612	72	820	36	1145A	14	1410	34
226A	24	332	35	412	37	616	72	821	36	1146A	23	1411	34
227A	24	333	35	418	16	617	72	824	36	1147A	23	1414	37
228A	24	334	35	419	16	622	72	825	36	1148A	23	1415	37
229A	24	335	35	420	16	623	72	826	36	1149A	23	1418	14
230A	24	336	35	421	16	624	72	827	36	1150A	23	1419	14
231A	24	337	35	422	16	625	72	828	36	1151A	23	1420	14
232A	24	338	38	509	40	655A	73	829	36	1152A	23	1421	14
233A	24	339	38	511	40	656A	73	830	36	1153A	23	1422	14
234A	24	340	35	512	40	661A	73	831	36	1154A	23	1423	14
235A	24	341	35	513	40	662A	73	832	36	1155A	23	1424	14
236A	24	342	35	515	40	663A	73	833	36	1168	26	1425	14
239A	24	343	35	516	40	664A	73	834	36	1169	26	1426	14
240A	24	344	35	517	40	668A	73	835	36	1171	26	1427	14
247	33	345	35	521	40	669A	73	836	36	1173	26	1428	14
249	33	347	35	523	40	674A	73	837	36	1216	35	1436	37

Service – Index of part numbers

Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page
1437	37	1633	25	1740	25	1858	16	2478	39	3187	23	3657	36
1438	40,87	1635	25	1741	25	1859	16	2488A	72	3188	23	3658	36
1455	24	1637	25	1742	25	1860	16	2493	40	3189	23	3665	36
1456	24	1638	25	1743	25	1861	16	2495	40	3190	23	3704	36
1457	24	1639	25	1744	25	1862	16	2511	39	3191	23	3718	82
1458	24	1640	25	1745	25	1864	16	2517	40	3192	23	3773	15
1460	24	1641	25	1746	25	1955	73	2617A	72	3193	23	3774	15
1461	24	1642	25	1747	25	1959	73	2668	35	3197	24	3775	67
1462	23	1643	25	1749	25	1961	73	2674	40	3200	24	3776	68
1463	23	1644	25	1750	16	1962	73	2692	83	3201	23	3777	68
1464	23	1646	25	1751	16	1965	73	2837	72	3202	23	3778	41
1465	23	1649	16	1752	16	1967	73	2841	72	3231	37	3783	68
1466	23	1650	16	1753	16	1968	73	2845	72	3232	37	3784	68
1467	23	1651	16	1754	16	1972	73	2852	72	3254	24	3794	34
1468	23	1657	72	1755	16	1974	73	2855	72	3256	24	3796	34
1469	23	1661	72	1756	16	1975	73	2860	72	3266	34	3799	34
1470	23	1667	25	1757	16	1978	73	2864	72	3283	24	3807	34
1471	23	1668	25	1786	25	1980	73	2869	72	3290	72	3809	34
1472	23	1669	25	1787	25	1981	36	2870	72	3306	34	3810	34
1473	23	1671	25	1788	25	1982	36	2883	67	3312	34	3811	34
1474	24	1672	25	1790	25	1983	36	3004	25	3331	16	3819	34
1475	24	1673	25	1791	25	1984	36	3008	25	3338	38	3821	34
1476	24	1674	25	1792	25	2000	14	3028	14	3339	38	3823	34
1477	24	1675	25	1793	25	2007A	14	3030	14	3340	38	3829	34
1478	24	1676	25	1794	25	2015	33	3031	23	3341	38	3830	34
1479	24	1677	25	1795	25	2123A	82	3032	14	3342	39	3832	34
1480	24	1678	25	1796	25	2139	15	3034	14	3343	39	3841	34
1481	24	1679	25	1797	25	2166	68	3035	14	3345	39	3842	34
1484	24	1680	25	1798	25	2167	68	3036	23	3346	39	3844	34
1485	24	1682	25	1800	25	2168	33	3039	14	3347	39	3851	34
1486	23	1688	36	1801	26	2169	14	3043	14	3368	39	3853	34
1487	23	1693	72	1802	26	2175B	82	3045	14	3380	24	3855	34
1490	24	1700	26	1803	26	2177A	83	3046	14	3385	25	3859	41
1491	23	1701	26	1804	26	2178	33	3048	25	3413	36	3860	41
1492	23	1702	26	1805	26	2179A	24	3049	25	3420	37	3862	41
1493	23	1703	26	1806	26	2180A	24	3054	23	3424	34	3871	41
1494	23	1704	26	1808	26	2181A	24	3055	23	3447	23	3872	41
1495	23	1705	26	1809	26	2189	33	3057	23	3449	23	3873	41
1496	23	1706	26	1810	26	2193	40	3059	23	3451	23	3879	41
1497	23	1707	26	1813	26	2195	33	3060	23	3452	23	3881	41
1498	23	1708	26	1814	26	2196	40	3070	25	3454	23	3883	41
1499	23	1709	26	1815	26	2199	14	3072	23	3455	23	3887	41
1500	23	1710	26	1818	26	2212	67	3074	23	3458	37	3888	41
1501	24	1711	26	1819	26	2213	68	3093	23	3459	37	3891	41
1502	24	1712	26	1820	26	2241	14	3110	23	3460	37	3897	41
1503	24	1713	26	1823	72	2243	33	3112	23	3461	37	3898	41
1504	24	1714	26	1825	71	2244	33	3114	23	3473	25	3899	41
1505	24	1716	26	1829	71	2245	40	3124	25	3485	26	3907	41
1506	24	1717	26	1831	71	2255	68	3126	25	3507	24	3909	41
1507	24	1719	16	1832	71	2271	33	3134	14	3524	24	3913	68
1551	24	1720	16	1835	71	2296	67	3136	23	3527	37	3914	68
1555	14	1721	16	1837	71	2317	67	3139	14	3528	37	3915	68
1556	14	1723	16	1838	71	2324	68	3140	23	3566	26	3916	68
1557	14	1724	16	1842	71	2341	33	3141	14	3573	26	3917	37
1579	72	1725	16	1844	71	2359	35	3149	14	3575	24	3980	34
1594	72	1727	16	1845	71	2386	35	3152	14	3581	26	3981	34
1602	72	1730	16	1848	71	2400	35	3153	23	3583	36	3982	34
1603	72	1733	25	1850	71	2405	68	3154	14	3587	26	3983	34
1618	25	1734	25	1851	16	2406	68	3155	25	3590	26	3987	34
1619	25	1735	25	1852	16	2441	40	3157	25	3600	36	3999	41
1631	25	1737	25	1856	16	2459	67	3171	25	3646	34	4101	22
1632	25	1739	25	1857	16	2460	68	3186	23	3656	36	4102	22

Service – Index of part numbers

Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page
4103	22	5111A	17	7516	27	9323	14	11181	63	13519	33	14519	40
4104	22	5112A	17	7520	27	9341	14	11182	63	13520	33	14520	40
4105	22	5113A	17	7521	27	9342	14	11310	63	13521	33	14561	41
4106	22	5690A	18	7523	27	9350	14	11311	63	13522	33	14562	41
4107	22	5691A	18	7524	27	9351	14	11312	63	13523	33	14563	41
4108	22	5692A	18	7525	27	9352	14	11313	63	13561	34	14565	41
4110	22	5692AM	21	7526	27	9370	14	11330	63	13562	34	14567	41
4111	22	5759A	17	7530	27	9371	14	11331	63	13563	34	14582	41
4112	22	5887A	18	7531	27	9372	14	11332	63	13564	34	14584	41
4113	22	5888A	18	7534	27	9373	14	11333	63	13565	34	14585	41
4114	22	5911A	17	7535	27	9380	14	11511	63	13567	34	14586	41
4115	22	5925A	17	7536	27	9381	14	11512	63	13582	34	14587	41
4116	22	5946A	82	7602	17	9382	14	11531	63	13583	34	14597	70
4117	22	5955A	17	7603	17	9530	67	11532	63	13584	34	14599	69
4118	22	5956A	17	7604	17	9531	67	11561	63	13585	34	14601	74
4119	22	5957A	17	7605	17	9532	67	11581	63	13586	34	14609	70
4120	22	5959A	17	7607	17	9562	82	11611	64	13587	34	15678	61
4122	22	6571	17	7612	17	9590	67	11661	64	13597	70	15679	61
4123	22	7000	18	7613	17	9591	67	11681	64	13599	69	15680	61
4125	22	7123	19	7614	17	9592	67	13101	33	13601	74	15681	61
4127	22	7125	19	7616	17	10081	63	13102	33	13609	70	15696	52
4128	22	7126	19	7620	18	10082	63	13105	33	13610	69	15738	61
4130	22	7127	19	7621	18	10083	63	13106	33	13613	74	15739	61
4132	22	7148	19	7624	18	10087	64	13107	33	14101	40	15740	61
4133	22	7150	19	7625	18	10092	63	13111	33	14102	40	15741	61
4135	22	7152	19	7626	18	10713	64	13112	33	14105	40	17002	65
4137	22	7245UK	21	7628	18	10718	64	13201	34	14106	40	17006	65
4138	22	7246UK	21	7629	18	10749	64	13202	34	14107	40	17014	65
4140	22	7247UK	21	7633	18	10751	64	13203	34	14111	40	18430	54
4204	22	7248UK	21	7634	18	10754	64	13204	34	14112	40	18431	54
4219	22	7249UK	21	7635	18	10755	64	13205	34	14201	41	18444	54
4220	22	7250	21	7636	18	10828	65	13206	34	14202	41	20458	85
4224	22	7251	21	8001	87	10833	65	13207	34	14203	41	20459	85
4226	22	7252	21	8008	87	10837	64	13208	34	14204	41	20460	85
4233	22	7253	21	9104	16	10838	64	13209	34	14205	41	20461	86
4254	22	7254UK	21	9105	16	10839	64	13210	34	14206	41	20462	86
4300	77	7255	21	9106	16	10840	64	13211	34	14207	41	20463	86
4302	77	7256UK	21	9120	16	10841	64	13212	34	14208	41	22189A	85
4304	77	7257	21	9121	16	10842	64	13213	34	14209	41	22928	85
4320	77	7258	21	9122	16	10843	64	13214	34	14210	41	23163	85
4322	77	7260	21	9123	16	10844	64	13215	34	14211	41	23165	85
4324	77	7289	18	9124	16	10845	64	13216	34	14212	41	23175	85
4326	77	7290	18	9125	16	10846	64	13217	34	14213	41	23176	85
4340	77	7291ZA	19	9140	16	10863	65	13218	34	14214	41	23177	85
4342	77	7292	19	9141	16	11010	63	13219	34	14215	41	23249	86
4344	77	7294	19	9142	16	11011	63	13220	34	14216	41	23293A	85
4345	77	7295	19	9150	16	11012	63	13223	34	14217	41	23432	85
4350	77	7296	19	9151	16	11013	63	13224	34	14218	41	23433	86
4352	77	7306	67	9152	16	11030	63	13225	34	14219	41	24210	86
4354	77	7307	67	9171	16	11031	63	13226	34	14220	41	24630	85
4360	77	7312	19	9172	16	11032	63	13227	34	14223	41	24640	85
4362	77	7313	19	9173	16	11033	63	13236	69	14224	41	24643	85
4364	77	7393UK	21	9174	16	11060	63	13237	69	14225	41	24660	86
4367	77	7394	19	9180	16	11061	63	13238	69	14226	41	24670	86
4370	77	7434	21	9181	16	11081	63	13239	69	14227	41	24671	86
4372	77	7469	19	9182	16	11110	63	13502	33,87	14502	40,87	24672	86
4374	77	7470UK	21	9300	14	11111	63	13506	33	14506	40	24675	86
4375	77	7502	27	9301	14	11131	63	13509	33	14509	40	24685	86
4377	77	7503	27	9302	14	11160	63	13510	33	14510	40	24686	86
4378	77	7505	27	9320	14	11161	63	13511	33	14511	40	24687	86
5109A	17	7507	27	9321	14	11162	63	13513	33	14513	40	24730	85
5110A	17	7512	27	9322	14	11180	63	13516	33	14516	40	24740	85

Service – Index of part numbers

Part no.	Page	Part no.	Page	Part no.	Page
24760	86	52241	88	941137	49
24770	86	52242	88	941142	53
24772	86	52243	88	960043	48
24773	86	52244	88	990606	52
24775	86	52245	88	990607	52
24785	86	52246	88	990608	52
24787	86	70029	59	990609	52
24788	86	90839	55	990610	52
24840	85	92658	55	990611	52
24870	86	92893	55	990612	52
24873	86	92917	55	990620	52
24885	86	95472	57	990623	52
24888	86	96227	57	990625	52
24970	86	96489	57	990627	52
24973	86	96703	57	5601304G	17
24985	86	900946	51	5601306G	17
24988	86	910214	47	5601406G	17
25042	79	910244	20	5601407G	17
25056	79	910245	20	5601409G	17
25102	76	910253	19	5601506G	17
25102GE	76	910355	50	5601507G	17
25405	80	910394	47	5602304G	17
27001	14	910584	20	5602306G	17
27002	14	920278	20	5602406G	17
27003	14	920286	47	5602506G	17
27004	14	920464	48	5603304G	17
27005	14	920649	20,50	5603306G	17
27006	14	920666	21	5603404G	17
27007	14	920668	21	5603406G	17
27008	14	920670	21	5603407G	17
40243	89	920700	20,50	5603409G	17
40444	89	920714	50	5603506G	17
40744	87	920791	20	5603507G	17
40778	38	920821	20,53	5603509G	17
40784	38	920838	20	5604304G	17
40785	38	920845	20	5604306G	17
40786	38	920851	49	5604406G	17
40787	38	920860	20,48	5604407G	17
40788	38	920863	20	5604409G	17
40841	38,83	920958	19	5604506G	17
40871	89	920961	19	5604509G	17
40978	89	920962	19	5704403G	82
40978ZA	89	921015	47	5802306G	17
40979	89	921024	53	5802406G	17
40980	89	921160	20	5802506G	17
40980ZC	89	921380	20	5804306G	17
40981	89	921442	20	5804406G	17
40985	89	922218	20	5804506G	17
40985ZB	89	922452	20	7420224	59
40986	89	922453	20	8063261	56
41000	24,26	922517	20	8067864	56
41342	83	922518	20	15452000	41
41416	38	922519	20	15453000	41
41431	89	923275	20		
41432	89	923276	20		
41433	89	923297	20		
41452	79	931227	48		
41455	79	931234	49		
41457	79	931539	20		
41482	35	932285	20		
41489	35	934285	20		
41492	79	940027	84		



Ultima Kft.
Központi raktár: 1172 Budapest, Rétifarkas utca 6.
Telefon: +36 1 432 8820
www.ultima.hu

