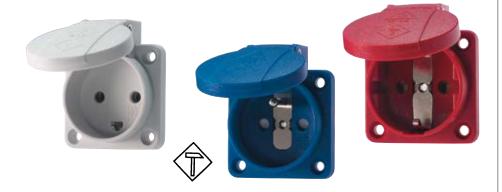
Plugs and sockets for harsh conditions.

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 strenght. Durable due to resistance against embrittlement.



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

The attachment receptacles 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 IP 54 degree of protection in every position.

Even with the compatible IP 44 plug, plugged-in, the IP 44 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

$\label{eq:schuko} \textbf{SCHUKO}^{\text{@}}. \ \textbf{Pressure watertight}.$

Whether fixed or mobile: in the event of flooding or water jets, pressure watertight plugs and receptacles are the first choice. Protection type IP 68.





5

Products with extended versions and special devices - 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 105 - 117.



Panel mounted receptacle SCHUKO®

with hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm²

IP 54 Std. Pack. Qty: 100/20 Drawing: 1 MB 410

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



Panel mounted receptacle SCHUKO® with front gasket

with hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm²

IP 54 Std. Pack. Qty: 100 Drawing: 1 MB 586

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



Panel mounted receptacle SCHUKO®

without hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 $\,$ mm 2

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

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



Wall mounted receptacle SCHUKO®

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

IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30

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



Wall mounted receptacle grounding-type

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

IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30

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



Panel mounted receptacle grounding-type

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

IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 410

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
grey	16	230		11110	
blue	16	230		11111	11131
grey	16	230	✓	11160	11180
blue	16	230	✓	11161	11181
black	16	230	✓	11162	11182

Products with extended versions and special devices - 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 105 - 117.



Panel mounted receptacle grounding-type

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

IP 20	
Std. Pack. Qty: 100/2	C
Drawing: 1 MB 450	

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



Panel mounted receptacle grounding-type

British standard, with hinged lid and seal; flange 50 \times 50 mm, fixing holes 38 \times 38 mm

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

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



Panel mounted receptacle grounding-type

British standard, matching cover frame, with hinged lid and seal

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

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



Panel mounted receptacle NEMA

USA and Canada, with hinged lid

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

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



Plug SCHUKO®

with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to $3 \times 2.5 \text{ mm}^2$ up to H07RN-F

IP 44 Std. Pack. Qty: 20

Colour	Ampere	Voltage	Part no.
grey	16	230	10749
black	16	230	10754
orange	16	230	10837
blue	16	230	10838
red	16	230	10839
yellow	16	230	10840
green	16	230	10841



Connector SCHUKO®

with grommet and lid for cables up to 3 \times 2.5 mm^2 up to H07RN-F

IP 44 Std. Pack. Qty: 10

Colour	Ampere	Voltage	Part no.
grey	16	230	10751
black	16	230	10755
orange	16	230	10842
blue	16	230	10843
red	16	230	10844
yellow	16	230	10845
green	16	230	10846

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Products with extended versions and special devices - SCHUKO® and grounding-type

to DIN 49442/43 and DIN VDE 0620. Other versions available on request. For drawings and dimensions see page 105 - 117.



Wall mounted receptacle SCHUKO®

with hinged bayonet lock lid

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



Panel mounted receptacle SCHUKO® or NF

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

IP 68

with hinged bayonet lock lid, rectangular flange, four fixing holes or two stamped recesses for quick perforation

IP 68 Std. Pack. Qty: 10 Drawing: 1 MB 627

Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
blue / grey	16	230		17002	17006
blue / grey	16	230	✓		17014
NF					
blue / grey	16	230	✓	17060	17064



Plug SCHUKO®

combined PE-conductor acc. to German and French/Belgian standards, with bayonet ring, with protective cap attached by a strap, for cables up to $3\times2.5~\text{mm}^2$, up to H07RN-F

IP 68 Std. Pack. Qty: 10

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



Connector SCHUKO®

with bayonet lock lid attached by a strap, for cables up to $3 \times 2.5 \text{ mm}^2$, up to H07RN-F

IP 68 Std. Pack. Qty: 10

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

7 pole

For multifunctional applications.



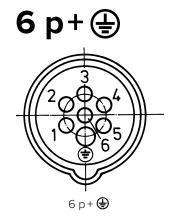
These 7 pole plugs and sockets provide solutions where there are multifunctional requirements in industry, farming and commerce.

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 + 🖨, 16 A and 32 A.

Hz	Rated operating voltage V	Position of ground contact
100 to 300	above 50	10
above 300 to 500	above 50	2
	110	4
F0	230	9
50	400	6
	500	7
50	220 to 240 downstream from isolating transformer	12



Products with extended versions and special devices - 7 pole

to DIN VDE 0623-1, EN 60309-1. Colour: electric grey and/or colour code. SHighly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 105 - 117.



Wall mounted receptacle

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

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

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



Wall mounted receptacle

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

IP 67			
Std. Pack	. (પ્રેty:	10
Drawing:	1	MB	622

A	Р	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	9530	9531	9532
32	7	9590	9591	9592



Wall mounted receptacle

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

IP 67 Std. Pack. Qty: 1 Drawing: 1 MB 382

A P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
with 6 p	pole switch:		
16 7		7306	
32 7		7307	
with 3 p	pole switch:		
16 7		5785	
32 7		6106	



Panel mounted receptacle

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

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

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



Panel mounted receptacle

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

IP 67
Std. Pack. Qty: 10
Drawing: 1 MB 251

A F	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16 7	7 2883	2459	2296
32 7	3775	2317	2212



Plug AM-TOP

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

IP 4	4		
Std	Pack	Otv:	10

Р	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
7	741	742	1055
7	743	744	1060
	7	50 a. 60 Hz 7 741	7 741 50 a. 60 Hz 742

to DIN VDE 0623-1, EN 60309-1. Colour: electric grey and/or colour code. Other voltages and frequencies available on request. For drawings and dimensions see page 105 - 117.



Plug AM-TOP

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

IP 67		
Std. Pack.	Qty:	10

A	Р	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	3776	3777	3913
32	7	2405	2324	2213



Wall mounted inlet

highly heat resistant contact carrier, nickel plated contacts

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





Panel mounted inlet

highly heat resistant contact carrier, nickel plated contacts

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

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



Panel mounted inlet

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

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

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



Connector AM-TOP

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

IP 44 Std. Pack. Qty: 10

A	Р	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	745	746	1065
32	7	747	748	1070



Connector AM-TOP

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

IP 67		
Std. Pack.	Qty:	10

A	P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
16	7	3783	3916	3784
32	7	2406	2255	2460

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Products with extended versions and special devices - For low voltage

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 105 - 117.



Wall mounted receptacle

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

AP	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	182	5 1831		1829
16 3	183	2 1837	1835	
32 2	183	8 1844		1842
32 3	184	5 1850	1848	



Wall mounted receptacle

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

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



Panel mounted receptacle

flange 55×55 mm, straight

IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 136

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



Panel mounted receptacle

flange 75 x 75 mm, straight

IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 292

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	===
2	1602	1603		2617A
3	1657	1661	1823	
2	1693	3290		2488A
3	1594	1595	1579	
	2 3 2	50 a. 60 Hz 2 1602 3 1657 2 1693	50 a. 60 Hz 50 a. 60 Hz 2 1602 1603 3 1657 1661 2 1693 3290	40 - 50 V 50 a. 60 Hz 100-200 Hz 2 1602 1603 3 1657 1661 1823 2 1693 3290



Panel mounted receptacle

flange 68 x 62 mm, 20° inclination

IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 231

A	P	20 - 25 V	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	1270	2855		2841
16	3	2845	1272	2860	
32	2	1271	2864		2869
32	3	2870	1273	2852	



Panel mounted receptacle

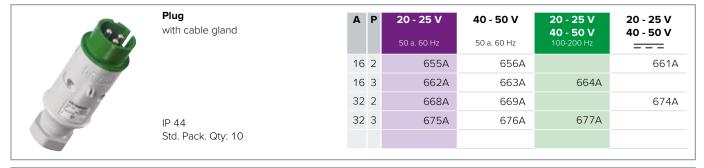
20° inclination

IP 44		
Std. Pack. (Qty:	10
Drawing: 1	MB	236

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

Products with extended versions and special devices - For low voltage

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 105 - 117.





Wall mounted inlet

IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 160

A F	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	2	1955	1961		1959
16 3	3	1962	1967	1965	
32 2	2	1968	1974		1972
32 3	3	1975	1980	1978	



Connector with cable gland

IP 44 Std. Pack. Qty: 10

A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V = = =
16	2	707A	708A		713A
16	3	714A	715A	716A	
32	2	720A	721A		726A
32	3	727A	728A	729A	

Low voltages.

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

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

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

Requirements on plugs and sockets for low voltages.

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





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200 A - 400 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 200 A, 250 A and 400 A and rated voltages of up to 1000 V.

Their design is based on the following standards: IEC 309-1, EN 60309-1, DIN VDE 0623, part 1.



Shock hazard protected using contact covers.

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



Mechanical lock.

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

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

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



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

Surface protection for contacts.

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



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



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

Products with extended versions and special devices - 200 A up to 400 A

Design based on IEC 309-1, EN 60309-1, DIN VDE 0623 part 1. Other voltages and frequencies available on request. For drawings and dimensions see page 105 - 117.



Wall mounted receptacle

with cable gland, seawater resistant design available on request

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

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



Wall mounted receptacle

switched, mechanical interlock, seawater resistant design available on request

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

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



Wall mounted receptacle

switched, electrical interlock, seawater resistant design available on request

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

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



Panel mounted receptacle

seawater resistant design available on request

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

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



Panel mounted receptacle

15° inclination, seawater resistant design available on request

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

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



Plug

with cable gland, seawater resistant design available on request

		50 a. 60 Hz
200	4	75201
200	5	75206
250	4	75001
250	5	75091
400	4	75006
400	5	75096

IP 67 Std. Pack. Qty: 1 A P

Products with extended versions and special devices - 200 A up to 400 A

Design based on IEC 309-1, EN 60309-1, DIN VDE 0623 part 1. Other voltages and frequencies available on request. For drawings and dimensions see page 105 - 117.



Inlet

with cable gland, seawater resistant design are available on request

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

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



Panel mounted inlet

seawater resistant design are available on request

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

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



Panel mounted inlet

15° inclination, seawater resistant design are available on request

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

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



Connector

with cable gland, seawater resistant design are available on request

IP 67 Std. Pack. Qty: 1

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