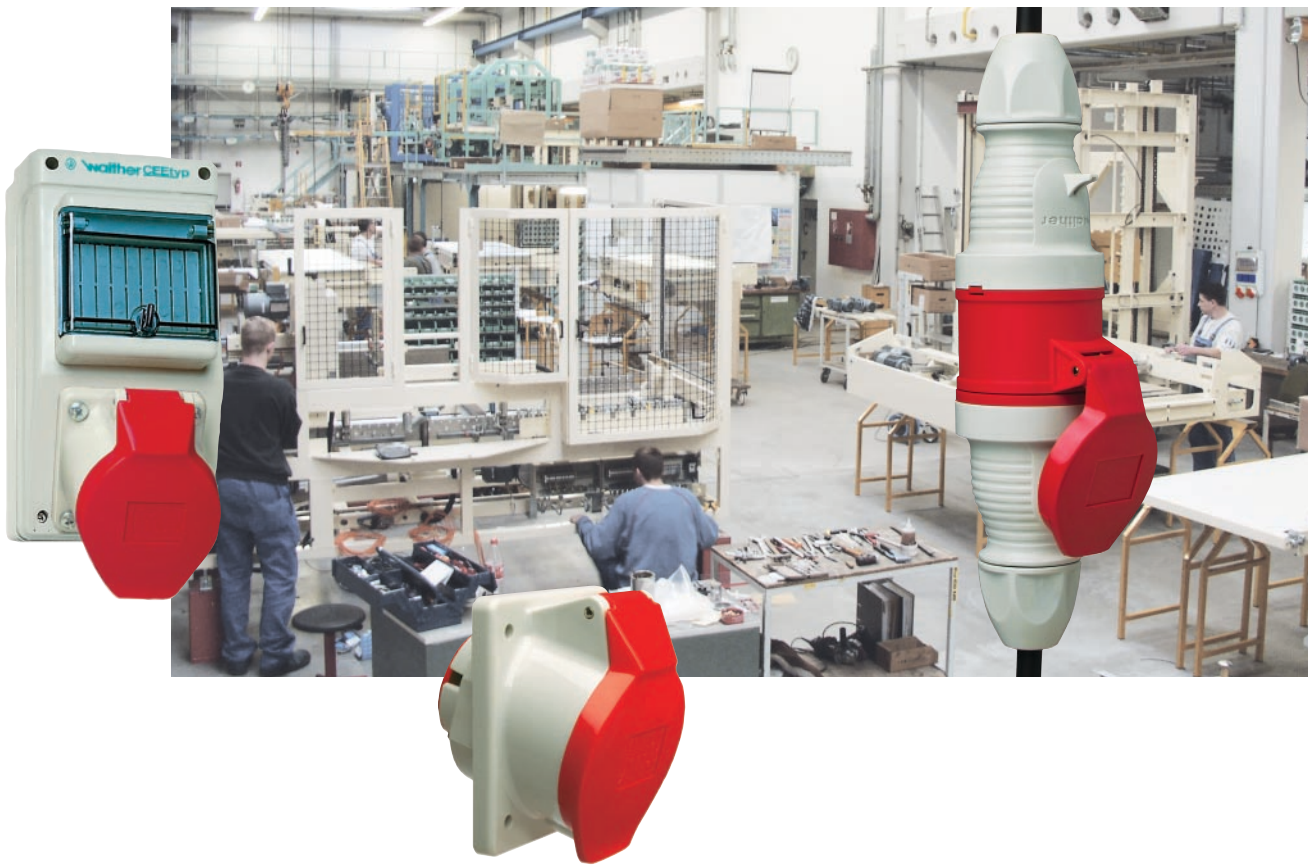
walther
Elektrotechnische Systeme



CEEtyp catalogue 2005

CEEtyp Plugs and Sockets 2005

The indicated extracts out of standards are for your information but without any liability. In case of doubt please refer to the complete original standard or regulation. The quotes from the standards are hints where you can get additional information on a special topic.

All details are valid September 2002.

We reserve the right for technical changes.

For prices please refer to our current trade price list.

A strong brand in profile ...

Headquarters of Walther Werke in Eisenberg, Germany

More than 100 years of competence

The Walther business was founded in Grimma near Leipzig in 1897 by Ferdinand Walther.

In 1945 Walther Werke moved to Bavaria and then in 1970 to new larger premises in Eisenberg, Rhineland-Palatinate.

This excellent location near Mannheim is close to the arterial link motorways enabling fast service to all our European market partners.

Walther Werke has over 250 employees. The main site of 11.500 m² in Eisenberg houses the Sales, Administration and Production Divisions.

Walther products are developed in continuous consultation with all sectors of the electrical industry.

Walther has been a member of the European Installation Bus Association s.c., Brussels, since April 1998, and increasingly offers solutions for building automation.

The Walther quality management system is certified to (DQS) DIN EN ISO 9001-2000.

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Products:

Plugs and Sockets
Three plug and socket systems

PROCON
Heavy Duty Connectors

Main application areas are for use with machine tools, lighting and stage control, crane control, fairground equipment, switchgear and control components.

Double locking levers for easy operation.

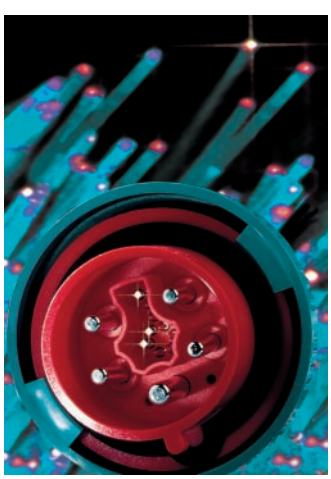
Connection techniques:

- screw
- crimp
- insulation displacement (screwless)

CEEtyp
Plugs and Sockets

The CEEtyp product range comprises everything - from 16 to 125 A and NORVO low voltage plugs and sockets up to 50 Volts.

CEPro Plugs and Sockets for Power and Control



CEPro has the capability to transmit both power and control signals simultaneously within one compact system. You save one connector system and with the hybrid cable you save an additional cable.
A compact system.

The control part can be equipped with the usual crimp contacts or with POF crimp contacts.

Building Installation
Consumer boxes/socket combinations

Building Automation
EIB devices for DIN-rail mounting

16-fold switch actuators

Modular system up to 20 fold for EIB

WALTHER makes bus technology affordable

Energy distributors for outside areas

System Bosecker

Assemblies for construction sites

Distributors for marinas

Distributors for fair-grounds and market places

Distributors for camping sites

Design and Production

Experienced designers use the latest CAD technology systems to plan devices for practical use which comply with valid standards and regulations.

Customers' requirements always have highest priority, like:

- easy assembly
- plenty of wiring space
- first-class contacts
- attractive design.

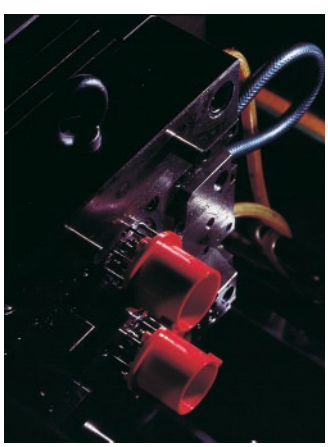
From the smallest connector up to complex combinations WALTHER manufactures the entire product range in Eisenberg, Rhineland-Palatinate.

Tools

Of course also high precision tools which are required for production are manufactured at WALTHER - using C.N.C. controlled milling machines and electronically controlled spark eroding and cutting machines.

First grade quality mouldings

Only type-tested first grade virgin material is used to produce Walther plastic mouldings. Centrally controlled moulding machines together with an integrated supervision programme ensure that constantly high quality is maintained.



All plastic items have a smooth glossy and stain resistant surface.

Die-cast housings

Housings for Walther PROCON multipole heavy duty connectors are produced on die-cast machines with built-in quality control.

The supervision ensures that only first-class products are accepted for further processing and assembly.

Aluminium bars

Aluminium smelter

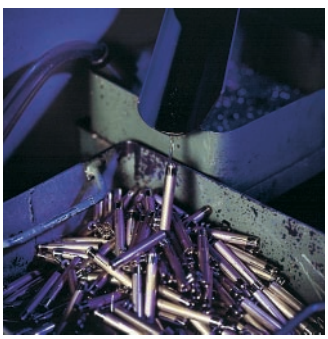
Die-cast aluminium housings

Powder coating facility

Here the aluminium die-cast housings are provided with a high-quality powder coating.

Contacts

The heart of plugs and sockets and heavy duty connectors are their contacts.



Each contact is automatically controlled by rotary transfer machines.

Pins and sleeves have to meet high quality standards. This ensures constantly easy plugging and withdrawing for years.

Furthermore all contact parts are equipped with open captive screws for faster assembly.

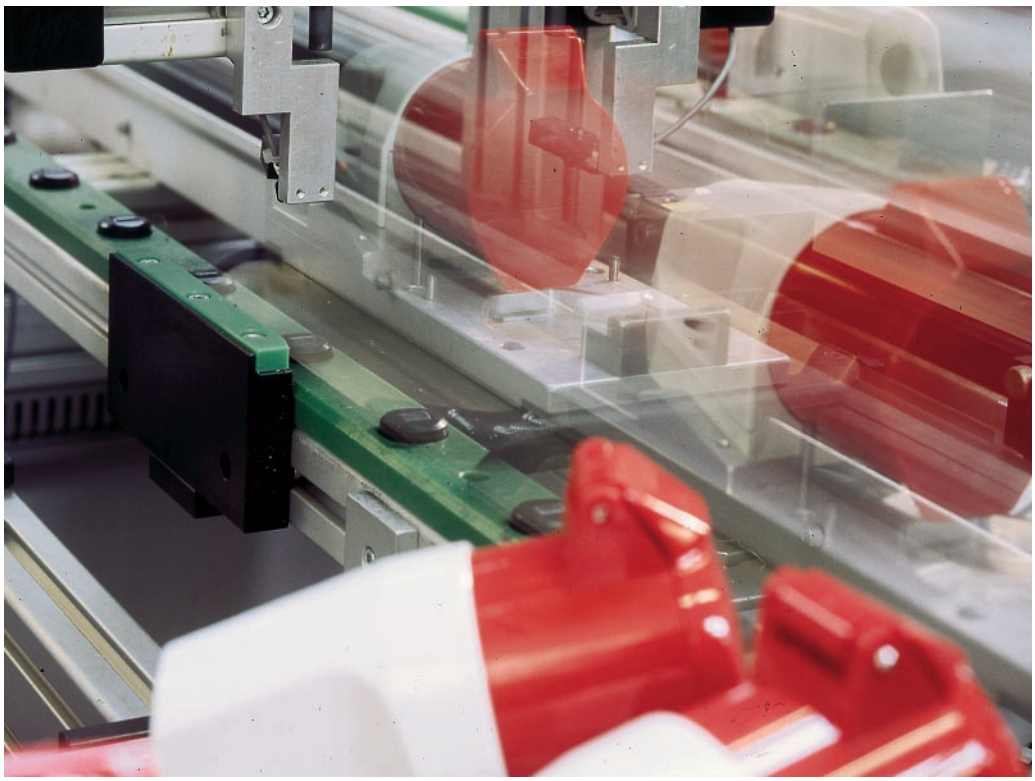
Customer's satisfaction guaranteed by highest quality is always first priority for Walther employees.

Efficient Assembly - Proven Safety

High volume bulk production items are produced on fully automatic assembly lines.

After each assembly operation the product is electronically tested.

Each terminal is fitted with two terminal screws for extra safe and secure connection. Terminal screws supplied in friction fit open position to assist quick and easy wiring.



Universal screw-feed drive

All screws have combination heads for use with electrical, pneumatic or manual screwdrivers. Pozidrive-, Philips- as well as slot blades can be used.

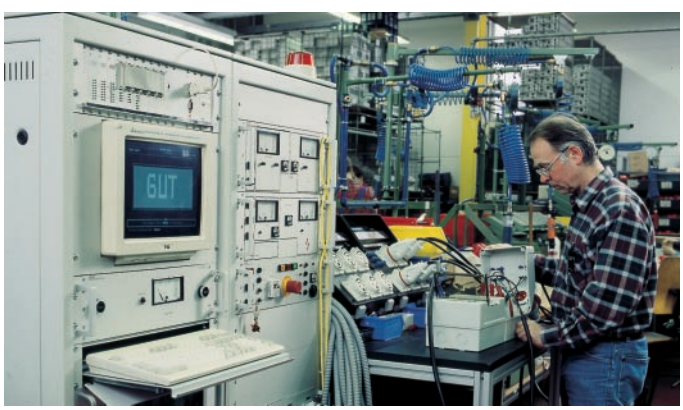
Checked in detail

All combinations - including OEM devices like RCDs and MCBs - pass a complete electrical function test.

A test certificate with document number is enclosed in every combination unit. All data is saved and can be recalled.

Worldwide approvals

WALTHER-products gained more than 6.000 approvals worldwide. Regular unannounced inspection visits on behalf of various test houses continously monitor production, testing and product compliance.



During and after assembly all products are double checked

Marketing and Service

Fairs and exhibitions

Close contact to the customer, for example during German and International electrotechnical Fairs, is one of the principles of Walther Werke.

The results hereof are permanent innovations and improvements.

Visitors are always welcome at the production plant in Eisenberg.

Information

Informative leaflets on special topics and short overviews for special product groups give detailed information to the end-user:

- CEE-catalogue
- EIB-catalogue
- Catalogue „Assemblies for construction sites“
- PROCON-catalogue
- Short overviews (CEE/PROCON)

Service and Advice

Walther supports the customers actively in their own marketing activities. Walther sales engineers advise and support projects of all electrical installations with the whole Walther product range.

Technique and Design

The services of a respected Industrial Designer, Jürgen R. Göpfert, are retained to ensure modern, pleasing as well as functional design.

Several industry design awards „Good Industry Design IF“ have been won by Walther products. This shows that functionality and pleasant design don’t have to be inconsistent.

CEE-plug/coupler

Angled CEE-plug

Mini combination

Mondo flush-type wall socket

Switched wall socket and socket combination

Program family consumer boxes AutoboxX

WALTHER: technique and design in perfect harmony

3 2P+E	4 3P+E	5 3P+N+E	Ampère	Poles	110 V 50 a. 60 Hz (3pole 4h / 4pole 4h / 5pole 4h)	230 V 50 a. 60 Hz (3pole 6h / 4pole 9h / 5pole 9h)	400 V 50 a. 60 Hz (3pole 9h / 4pole 6h / 5pole 6h)	500 V 50 a. 60 Hz (3pole 7h / 4pole 7h / 5pole 7h)	> 50 - 500 V 100 - 300 Hz (3pole 10h / 4pole 10h / 5pole 10h)	> 50 - 500 V over 300 - 500 Hz (3pole 2h / 4pole 2h / 5pole 2h)		g
					Part numbers							
			16	3	110 304	**110 306**	110 309				10/60	161
			16	3		110 306 AS = *lockable with padlock (padlock is not included)*						
			16	4	110 404	110 409	**110 406**	110 407	110 410	110 402	10	209
			16	5	110 504	110 509	**110**				10/60	227
			16	5			110 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
			32	3	130 304	**130 306**	130 309				10	291
			32	4	130 404	130 409	**130 406**	130 407	130 410	130 402	10	300
			32	5	130 504	130 509	**130**				10/60	320
			32	5			130 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
pic.130			**Wall sockets** IP 44, external fixing, 1 top cable entry									
			16	3	111 304	**111 306**	111 309				5	356
			16	4	111 404	111 409	**111 406**	111 407	111 410	111 402	5	389
			16	5	111 504	111 509	**111**				5	425
			16	5			111 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
			32	3	131 304	**131 306**	131 309				5	426
			32	4	131 404	131 409	**131 406**	131 407	131 410	131 402	5	453
			32	5	131 504	131 509	**131**				5	489
			32	5			131 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
pic. 131			**Wall sockets** IP 44, internal fixing, 2 cable entries both, top and bottom									
			16	3		**114 306**					5	457
			16	3		**115 306** 2)					5	467
			32	3		**134 306** 3)					5	563
			32	3		**135 306** 2)					5	595
			16	5			**114**				5	525
			16	5			**114 UV** 1)				5	525
			16	5			**115** 2)				5	537
			16	5			115 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
			32	5			**134** 3)				5	538
			32	5			**134 UV** 1, 3)				5	538
			32	5			**135** 2)				5	619
pic.134			**Mini combinations** IP 44, CEEtyp wall socket with Schuko socket									
			63	3	161 304	**161 306**	161 309				1	825
			63	4	161 404	161 409	**161 406**	161 407	161 410	161 402	2	1046
			63	5	161 504	161 509	**161**				2	1105
			63	5			161 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
pic.161			**Wall sockets,** internal fixing, IP 44									
			63	3	163 304	**163 306**	163 309				1	1590
			63	4	163 404	163 409	**163 406**	163 407	163 410	163 402	2	1830
			63	5	163 504	163 509	**163**				2	1900
pic.163			**Wall sockets** IP 44, internal fixing, cable entries: 2 x top, 2 x bottom (knock-out)									

mondo Wall Sockets IP 44

walther

2P+E	3P+E	3P+N+E	Ampère	Poles	110 V 50 a. 60 Hz (3pole 4h / 4pole 4h / 5pole 4h)	230 V 50 a. 60 Hz (3pole 6h / 4pole 9h / 5pole 9h)	400 V 50 a. 60 Hz (3pole 9h / 4pole 6h / 5pole 6h)	500 V 50 a. 60 Hz (3pole 7h / 4pole 7h / 5pole 7h)	> 50 - 500 V 100 - 300 Hz (3pole 10h / 4pole 10h / 5pole 10h)	> 50 - 500 V over 300 - 500 Hz (3pole 2h / 4pole 2h / 5pole 2h)		g
					Part numbers							
			16	3	116 304	**116 306**	116 309				5	311
			16	4	116 404	116 409	**116 406**	116 407	116 410	116 402	5	320
			16	5	116 504	116 509	**116**				5	328
			32	3	136 304	**136 306**	136 309				5	368
			32	4	136 404	136 409	**136 406**	136 407	136 410	136 402	5	370
			32	5	136 504	136 509	**136**				5	380

pic.136

mondo wall sockets IP 44 ⚠, surface mounting, RAL 7035 light grey

			32	3	436 304	436 306	436 309				10	361
			32	4	436 404	436 409	436 406	436 407	436 410	436 402	10	379
			32	5	436 504	436 509	436				10	389

*To order a wall socket **with inscription label** please add **„BS“** to the standard part no.*

*To order a **lockable** wall socket **with inscription label** please add **„AS“** to the standard part no.*

pic. 436

mondo wall sockets IP 44 ⚠, flush type, RAL 1013 pearl white, with flush-type socket

			16	3	117 304	**117 306**	117 309				10	187

pic. 117306

mondo wall sockets IP 44 ⚠, small version, surface mounting, RAL 7035 light grey

			16	3	418 304	**418 306**	418 309				10	155

pic. 418306

mondo wall sockets IP 44 ⚠, small version, flush-type, RAL 1013 pearl white

			16	2		**10 007**					10	153

pic. 10007

Earthing contact socket IP44 ⚠, mondo surface mounting wall socket, RAL7035 light grey

			16	2		**10 008**					10	120

pic. 110306

Schuko socket IP44 ⚠, mondo flush mounting wall socket, RAL1013 pearl white

Ampère	Poles	110 V 50 a. 60 Hz 3pole 4h	110 V 50 a. 60 Hz 4pole 4h	110 V 50 a. 60 Hz 5pole 4h	230 V 50 a. 60 Hz 3pole 6h	230 V 50 a. 60 Hz 4pole 9h	230 V 50 a. 60 Hz 5pole 9h	400 V 50 a. 60 Hz 3pole 9h	400 V 50 a. 60 Hz 4pole 6h	400 V 50 a. 60 Hz 5pole 6h	500 V 50 a. 60 Hz 3pole 7h	500 V 50 a. 60 Hz 4pole 7h	500 V 50 a. 60 Hz 5pole 7h	> 50 - 500 V 100 - 300 Hz 3pole 10h	> 50 - 500 V 100 - 300 Hz 4pole 10h	> 50 - 500 V 100 - 300 Hz 5pole 10h	> 50 - 500 V over 300 - 500 Hz 3pole 2h	> 50 - 500 V over 300 - 500 Hz 4pole 2h	> 50 - 500 V over 300 - 500 Hz 5pole 2h		g
								Part numbers													
16	3	119 304			**119 306**			119 309												5	409
16	4	119 404			119 409			**119 406**			119 407			119 410			119 402			5	440
16	5	119 504			119 509			**119**												5	470
32	3	139 304			**139 306**			139 309												5	492
32	4	139 404			139 409			**139 406**			139 407			139 410			139 402			5	492
32	5	139 504			139 509			**139**												5	551
32	5							139 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													

pic. 139

Wall sockets IP 67, internal fixing, 2 knock-out cable entries both, top and bottom

63	3	168 304			**168 306**			168 309												2	1600
63	4	168 404			168 409			**168 406**			168 407			168 410			168 402			2	1930
63	5	168 504			168 509			**168**												2	2000

pic. 168

Wall sockets IP 67, internal fixing, cable entries: 2 x top, 2 x bottom (knock-out)

63	3	169 304			**169 306**			169 309												2	865
63	4	169 404			169 409			**169 406**			169 407			169 410			169 402			2	1086
63	5	169 504			169 509			**169**												2	1148
63	5							169 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													

pic. 169

Wall sockets IP 67**,** internal fixing

125	3	178 304			**178 306**			178 309												1	2540
125	4	178 404			178 409			**178 406**			178 407			178 410			178 402			1	3180
125	5	178 504			178 509			**178**												1	3890
125	3	178 304 OK			**178 306 OK**			178 309 OK			*(OK = without terminal block)*									1	1970

pic. 178

Wall sockets with multi contacts IP 67, internal fixing, with terminal block 5 x 50 mm²

125	3	179 304			**179 306**			179 309												1	2720
125	4	179 404			179 409			**179 406**			179 407			179 410			179 402			1	3260
125	5	179 504			179 509			**179**												1	3800
125	5							179 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
125	3	179 304 OK			**179 306 OK**			179 309 OK												1	1170
125	4	179 404 OK			179 409 OK			**179 406 OK**			179 407 OK			179 410 OK			179 402 OK			1	1710
125	5	179 504 OK			179 509 OK			**179 OK**			*(OK = without terminal block)*									1	2250

pic. 179

Wall sockets with multi contacts IP 67**,** internal fixing, with terminal block 5 x 50 mm²

Plugs IP 44 ⚠ IEC/EN 60 309

walther

3 (2P+E) / 4 (3P+E) / 5 (3P+N+E)	Ampère	Poles	110 V 50 a. 60 Hz (3pole 4h / 4pole 4h / 5pole 4h)	230 V 50 a. 60 Hz (3pole 6h / 4pole 9h / 5pole 9h)	400 V 50 a. 60 Hz (3pole 9h / 4pole 6h / 5pole 6h)	500 V 50 a. 60 Hz (3pole 7h / 4pole 7h / 5pole 7h)	> 50 - 500 V 100 - 300 Hz (3pole 10h / 4pole 10h / 5pole 10h)	> 50 - 500 V over 300 - 500 Hz (3pole 2h / 4pole 2h / 5pole 2h)		g
			Part numbers							
 pic. 210SL	16	5			**210 SL**				10/60	246
	Screwless plug with insulation displacement technique, ⚠ IP 44, flexible cable entry									
 pic. 210306 CK	16	3	210 304 CK	**210 306 CK**	*(CK = with crimp contacts)*		**Plug with crimp contacts,** completely screwless, click-together assembly, nonrewireable, tamper-proof, maintenances-free			
	Plug with crimp contacts ⚠ IP 44									
 pic. 230 pic. 260	16	3	210 304	**210 306**	210 309				10	111
	16	4	210 404	210 409	**210 406**	210 407	210 410	210 402	10	147
	16	5	210 504	210 509	**210**				10/60	176
	16	5			210 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
	32	3	230 304	**230 306**	230 309				10	202
	32	4	230 404	230 409	**230 406**	230 407	230 410	230 402	10	226
	32	5	230 504	230 509	**230**				10/60	250
	32	5			230 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
	63	3	260 304	**260 306**	260 309				5	475
	63	4	260 404	260 409	**260 406**	260 407	260 410	260 402	5	527
	63	5	260 504	260 509	**260**				5	575
	63	5			260 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
	Plugs ⚠ IP 44, with flexible cable entry									
 215 306 212 306	16	3	215 304	**215 306**	215 309 *(inverted cable entry)*				10	101
	16	3	212 304	**212 306**	212 309 *(flexible cable gland, eye hook for padlock)*				10	113
	Plugs ⚠ IP 44									
 pic. 231	16	3	211 304	**211 306**	211 309				10	112
	16	4	211 404	211 409	**211 406**	211 407	211 410	211 402	10	154
	16	5	211 504	211 509	**211**				10	170
	16	5			211 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
	32	3	231 304	**231 306**	231 309				10	211
	32	4	231 404	231 409	**231 406**	231 407	231 410	231 402	10	217
	32	5	231 504	231 509	**231**				10	240
	32	5			231 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
	63	3	261 304	**261 306**	261 309				5	475
	63	4	261 404	261 409	**261 406**	261 407	261 410	261 402	5	566
	63	5	261 504	261 509	**261**				5	613
	63	5			261 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
	Plugs ⚠ IP 44, with cable gland									
 pic. 232	16	5			**212**				10	172
	32	5			**232**				10	257
	Plugs ⚠ IP 44, with cable gland for large cable sizes									

Plugs IP 44 and IP 67 IEC/EN 60 309

CEEtyp

2P+E	3P+E	3P+N+E	Ampère	Poles	110 V 50 a. 60 Hz 3pole 4h	110 V 50 a. 60 Hz 4pole 4h	110 V 50 a. 60 Hz 5pole 4h	230 V 50 a. 60 Hz 3pole 6h	230 V 50 a. 60 Hz 4pole 9h	230 V 50 a. 60 Hz 5pole 9h	400 V 50 a. 60 Hz 3pole 9h	400 V 50 a. 60 Hz 4pole 6h	400 V 50 a. 60 Hz 5pole 6h	500 V 50 a. 60 Hz 3pole 7h	500 V 50 a. 60 Hz 4pole 7h	500 V 50 a. 60 Hz 5pole 7h	> 50 - 500 V 100 - 300 Hz 3pole 10h	> 50 - 500 V 100 - 300 Hz 4pole 10h	> 50 - 500 V 100 - 300 Hz 5pole 10h	> 50 - 500 V over 300 - 500 Hz 3pole 2h	> 50 - 500 V over 300 - 500 Hz 4pole 2h	> 50 - 500 V over 300 - 500 Hz 5pole 2h		g
							Part numbers																	
			16	3	216 304			**216 306**			216 309												10	106
			16	4	216 404			216 409			**216 406**			216 407			216 410			216 402			10	150
			16	5	216 504			216 509			**216**												10/60	163
			32	3	236 304			**236 306**			236 309												10	214
			32	4	236 404			236 409			**236 406**			236 407			236 410			236 402			10	230
			32	5	236 504			236 509			**236**												10	251
pic. 236			**Plugs** ⚠ IP 44, angled, back part RAL 7035 light grey																					
			16	5							**210 PH**												10	180
			16	5							210 PHNI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			32	5							**230 PH**												10	257
			32	5							230 PHNI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
pic. 230 PH			**Phase inverters** ⚠ IP 44, with flexible cable entry																					
			16	5							**211 PH**												10	174
			16	5							211 PHNI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			32	5							**231 PH**												10	245
			32	5							231 PHNI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
pic. 231 PH			**Phase inverters** ⚠ IP 44, with cable gland																					
								**for voltage ranges of 110 V - 690 V**																
			16	4							**210 406 DF**												10	144
			16	5							**210 DF**												10	173
			32	4							**230 406 DF**												10	198
			32	5							**230 DF**												10	241
			63	4							**260 406 DF**												10	603
			63	5							**260 DF**												5	685
pic. 230DF			**Phase sequence control plugs** ⚠ IP 44																					
			16	3	219 304			**219 306**			219 309												10	133
			16	4	219 404			219 409			**219 406**			219 407			219 410			219 402			10	177
			16	5	219 504			219 509			**219**												10	198
			32	3	239 304			**239 306**			239 309												10	242
			32	4	239 404			239 409			**239 406**			239 407			239 410			239 402			10	257
			32	5	239 504			239 509			**239**												10	285
pic. 239			**Plugs** ⚠ IP 67, with cable gland																					
			63	3	269 304			**269 306**			269 309												5	501
			63	4	269 404			269 409			**269 406**			269 407			269 410			269 402			5	623
			63	5	269 504			269 509			**269**												5	668
			125	3	279 304			**279 306**			279 309												2	1185
			125	4	279 404			279 409			**279 406**			279 407			279 410			279 402			2	1329
			125	5	279 504			279 509			**279**												2	1473
pic. 269			**Plugs** ⚠ IP 67, with cable gland																					

Other voltages and frequencies on request

Appliance inlets IP 44 ⚠ IEC/EN 60 309

walther

3 (2P+E) / 4 (3P+E) / 5 (3P+N+E)	Ampère	Poles	110 V 50 a. 60 Hz (3pole 4h, 4pole 4h, 5pole 4h)	230 V 50 a. 60 Hz (3pole 6h, 4pole 9h, 5pole 9h)	400 V 50 a. 60 Hz (3pole 9h, 4pole 6h, 5pole 6h)	500 V 50 a. 60 Hz (3pole 7h, 4pole 7h, 5pole 7h)	> 50 - 500 V 100 - 300 Hz (3pole 10h, 4pole 10h, 5pole 10h)	> 50 - 500 V over 300 - 500 Hz (3pole 2h, 4pole 2h, 5pole 2h)	Packing	g

Part numbers

pic. 630

Ampère	Poles	110 V	230 V	400 V	500 V	100 - 300 Hz	300 - 500 Hz	Packing	g
16	3	610 304	**610 306**	610 309			10	126	
16	4	610 404	610 409	**610 406**	610 407	610 410	610 402	10	164
16	5	610 504	610 509	**610**			10/60	177	
16	5			610 NI	*(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*				
16	5			610 PH	*(PH = with phase inverter)*			10	184
16	5			610 PHNI	*(PHNI = with phase inverter, nickel plated contacts and glass-fibre reinforced enclosure)*				
32	3	630 304	**630 306**	630 309			10	219	
32	4	630 404	630 409	**630 406**	630 407	630 410	630 402	10	237
32	5	630 504	630 509	**630**			10	256	
32	5			630 NI	*(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*				
32	5			630 PH	*(PH = with phase inverter)*			10	264
32	5			630 PHNI	*(PHNI = with phase inverter, nickel plated contacts and glass-fibre reinforced enclosure)*				

Wall mount appliance inlets ⚠ IP 44, external fixing means, 1 top cable entry

pic. 636

Ampère	Poles	110 V	230 V	400 V	500 V	100 - 300 Hz	300 - 500 Hz	Packing	g
16	4	616 404	616 409	**616 406**	616 407	616 410	616 402	5	323
16	5	616 504	616 509	**616**				5	352
32	3	636 304	**636 306**	636 309				5	349
32	4	636 404	636 409	**636 406**	636 407	636 410	636 402	5	372
32	5	636 504	636 509	**636**				5	399

Wall mount appliance inlets ⚠ IP 44, internal fixing means, 2 cable entries top & bottom

pic. 631

Ampère	Poles	110 V	230 V	400 V	500 V	100 - 300 Hz	300 - 500 Hz	Packing	g
16	3	611 304	**611 306**	611 309			10	122	
16	4	611 404	611 409	**611 406**	611 407	611 410	611 402	10	176
16	5	611 504	611 509	**611**			10	207	
16	5			611 PH	*(PH = with phase inverter)*			10	205
16	5			611 PHNI	*(PHNI = with phase inverter, nickel plated contacts and glass-fibre reinforced enclosure)*				
32	3	631 304	**631 306**	631 309			10	230	
32	4	631 404	631 409	**631 406**	631 407	631 410	631 402	10	293
32	5	631 504	631 509	**631**			10	276	
32	5			631 NI	*(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*				
32	5			631 PH	*(PH = with phase inverter)*			10	283
32	5			631 PHNI	*(PHNI = with phase inverter, nickel plated contacts and glass-fibre reinforced enclosure)*				
63	3	661 304	**661 306**	661 309			5	456	
63	4	661 404	661 409	**661 406**	661 407	661 410	661 402	5	513
63	5	661 504	661 509	**661**			5	553	

Panel mounting appliance inlets IP 44 ⚠, right-angled, flange screwed on

pic. 635

Ampère	Poles	110 V	230 V	400 V	500 V	100 - 300 Hz	300 - 500 Hz	Packing	g
16	3	615 304	**615 306**	615 309				10	94
16	4	615 404	615 409	**615 406**	615 407	615 410	615 402	10	131
16	5	615 504	615 509	**615**				10	145
16	5			**615 PH**	*(PH = with phase inverter)*			10	145
32	3	635 304	**635 306**	635 309				10	150
32	4	635 404	635 409	**635 406**	635 407	635 410	635 402	10	166
32	5	635 504	635 509	**635**				10	191
32	5			**635 PH**	*(PH = with phase inverter)*			10	191

Panel mounting appliance inlets IP 44 ⚠, straight, flange screwed on

pic. 612306

Ampère	Poles	110 V	230 V	400 V	500 V	100 - 300 Hz	300 - 500 Hz	Packing	g
16	3	**612 306** *(white)*	*(fastening frame also serving as template for drilling holes)*					1	242
16	3	**613 306** *(brown)*						1	242
16	3	**614 306** *(black)*						1	242

Caravan built-in appliance inlet, IP 44 ⚠

Part numbers in bold letters are standard versions.

Appliance Inlets IP 67 IEC/EN 60 309

CEEtyp

3 2P+E	4 3P+E	5 3P+N+E	Ampère	Poles	110 V 50 a. 60 Hz 3pole 4h	4pole 4h	5pole 4h	230 V 50 a. 60 Hz 3pole 6h	4pole 9h	5pole 9h	400 V 50 a. 60 Hz 3pole 9h	4pole 6h	5pole 6h	500 V 50 a. 60 Hz 3pole 7h	4pole 7h	5pole 7h	> 50 - 500 V 100 - 300 Hz 3pole 10h	4pole 10h	5pole 10h	> 50 - 500 V over 300 - 500 Hz 3pole 2h	4pole 2h	5pole 2h		g
													Part numbers											
 pic. 638			16	3	618 304			**618 306**			618 309												5	357
			16	4	618 404			618 409			**618 406**			618 407			618 410			618 402			5	328
			16	5	618 504			618 509			**618**												5	357
			32	3	638 304			**638 306**			638 309												5	421
			32	4	638 404			638 409			**638 406**			638 407			638 410			638 402			5	427
			32	5	638 504			638 509			**638**												5	463
			Wall mounting appliance inlets IP 67, internal fixing																					
 pic. 639			16	3	619 304			**619 306**			619 309												5	195
			16	4	619 404			619 409			**619 406**			619 407			619 410			619 402			5	206
			16	5	619 504			619 509			**619**												10	217
			16	5							619 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			32	3	639 304			**639 306**			639 309												10	223
			32	4	639 404			639 409			**639 406**			639 407			639 410			639 402			10	259
			32	5	639 504			639 509			**639**												5	295
			32	5							639 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			63	3	669 304			**669 306**			669 309												5	525
			63	4	669 404			669 409			**669 406**			669 407			669 410			669 402			5	569
			63	5	669 504			669 509			**669**												5	613
			63	5							669 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			Panel mounting appliance inlets IP 67, right-angled, flange screwed on																					
 pic. 668			63	3	668 304			**668 306**			668 309												2	825
			63	4	668 404			668 409			**668 406**			668 407			668 410			668 402			2	827
			63	5	668 504			668 509			**668**												2	891
			Wall mounting appliance inlets IP 67, external fixing, 1 top cable entry																					
 pic. 678			125	3	678 304			**678 306**			678 309												1	2700
			125	4	678 404			678 409			**678 406**			678 407			678 410			678 402			1	3005
			125	5	678 504			678 509			**678**												1	3800
			125	3	678 304 OK			**678 306 OK**			678 309 OK												1	860
			125	4	678 404 OK			678 409 OK			**678 406 OK**			678 407 OK			678 410 OK			678 402 OK			1	1455
			125	5	678 504 OK			678 509 OK			**678 OK**			*OK = without terminal block set*									1	2250
			Wall mounting appliance inlets IP 67, internal fixing, with terminal block set																					
 pic. 679			125	3	679 304			**679 306**			679 309												2	673
			125	4	679 404			679 409			**679 406**			679 407			679 410			679 402			2	910
			125	5	679 504			679 509			**679**												2	1147
			Panel mounting appliance inlets IP 67, straight, flange screwed on																					

Other voltages and frequencies on request

Couplers IP 44 ⚠ IEC/EN 60 309

walther

2P+E	3P+E	3P+N+E	Ampère	Poles	110 V 50 a. 60 Hz (3pole 4h / 4pole 4h / 5pole 4h)	230 V 50 a. 60 Hz (3pole 6h / 4pole 9h / 5pole 9h)	400 V 50 a. 60 Hz (3pole 9h / 4pole 6h / 5pole 6h)	500 V 50 a. 60 Hz (3pole 7h / 4pole 7h / 5pole 7h)	> 50 - 500 V 100 - 300 Hz (3pole 10h / 4pole 10h / 5pole 10h)	> 50 - 500 V over 300 - 500 Hz (3pole 2h / 4pole 2h / 5pole 2h)		g
					Part numbers							
3	4	5	16	5			**310SL**				10/60	304

pic. 310SL

Screwless coupler with insulation displacement technique, IP 44 ⚠, flexible cable entry

16	3	310 304 CK	**310 306 CK**	**Plug with crimp contacts,** completely screwless, click-together assembly, nonrewireable, tamper-proof, maintenances-free					10	

pic. 310306 CK

Coupler with crimp contacts, IP 44 ⚠

16	3	310 304	**310 306**	310 309				10/60	150
16	3		310 306 AS = *lockable with padlock (padlock is not included)*						
16	4	310 404	310 409	**310 406**	310 407	310 410	310 402	10	192
16	5	310 504	310 509	**310**				10/60	219
16	5			310 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
32	3	330 304	**330 306**	330 309				10	280
32	4	330 404	330 409	**330 406**	330 407	330 410	330 402	10	290
32	5	330 504	330 509	**330**				10/60	311
32	5			330 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
63	3	360 304	**360 306**	360 309				5	672
63	4	360 404	360 409	**360 406**	360 407	360 410	360 402	5	719
63	5	360 504	360 509	**360**				5	782
63	5			360 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					

pic. 310 pic. 360

Couplers ⚠ IP 44, with flexible cable entry

16	3	315 304	**315 306**	315 309				10	140

pic. 315 306

Couplers IP 44 ⚠, with inverted cable entry

16	3	311 304	**311 306**	311 309				10	147
16	4	311 404	311 409	**311 406**	311 407	311 410	311 402	10	197
16	5	311 504	311 509	**311**				10	214
16	5			311 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
16	5			**312** *(with cable gland for larger cable sizes)*				10	217
32	3	331 304	**331 306**	331 309				10	265
32	4	331 404	331 409	**331406**	331 407	331 410	331 402	10	278
32	5	331 504	331 509	**331**				10	300
32	5			331 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
32	5			**332** *(with cable gland for larger cable sizes)*				10	317
63	3	361 304	**361 306**	361 309				5	656
63	4	361 404	361 409	**361 406**	361 407	361 410	361 402	5	771
63	5	361 504	361 509	**361**				5	787
63	5			361 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					

pic. 331

Couplers IP 44 ⚠, with gland entry

Couplers IP 67 and IP 44 IEC/EN 60 309

CEEtyp

2P+E	3P+E	3P+N+E	Ampère	Poles	110 V 50 a. 60 Hz 3pole 4h	4pole 4h	5pole 4h	230 V 50 a. 60 Hz 3pole 6h	4pole 9h	5pole 9h	400 V 50 a. 60 Hz 3pole 9h	4pole 6h	5pole 6h	500 V 50 a. 60 Hz 3pole 7h	4pole 7h	5pole 7h	> 50 - 500 V 100 - 300 Hz 3pole 10h	4pole 10h	5pole 10h	> 50 - 500 V over 300 - 500 Hz 3pole 2h	4pole 2h	5pole 2h		g
					Part numbers																			
			16	3	319 304			**319 306**			319 309												10	172
			16	4	319 404			319 409			**319 406**			319 407			319 410			319 402			10	224
			16	5	319 504			319 509			**319**												10	252
			16	5							319 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			32	3	339 304			**339 306**			339 309												10	308
			32	4	339 404			339 409			**339 406**			339 407			339 410			339 402			10	721
			32	5	339 504			339 509			**339**												10	346
			32	5							339 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			63	3	369 304			**369 306**			369 309												5	758
			63	4	369 404			369 409			**369 406**			369 407			369 410			369 402			5	796
			63	5	369 504			369 509			**369**												5	844
			63	5							369 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													

pic. 339

Couplers IP 67, with gland entry

			125	3	379 304			**379 306**			379 309												2	1362
			125	4	379 404			379 409			**379 406**			379 407			379 410			379 402			2	1536
			125	5	379 504			379 509			**379**												2	1710

pic. 339

Couplers IP 67, with cable gland, with multi contact

			16	4	314 404			314 409			**314 406**			314 407			314 410			314 402			10	203
			16	5							**314**												10	221
			32	3	334 304			**334 306**			334 309												10	274
			32	4	334 404			334 409			**334 406**			334 407			334 410			334 402			10	287
			32	5							**334**												10	307

pic. 334

Suspension couplers IP 44, with cable gland

			16	5							**315**												10	224

pic. 315

Suspension couplers IP 44, with cable gland for larger cable sizes

			16	3	316 304			**316 306**			316 309												10	138

pic. 316 306

Angled couplers IP 44

			16	3				**317 306**															10	152

pic. 317 306

Angled coupler IP 44, with Schuko socket on reverse side

Other voltages and frequencies on request

Channel installation sockets IP 44

Ampère	Poles	110 V 50 a. 60 Hz (3pole 4h / 4pole 4h / 5pole 4h)	230 V 50 a. 60 Hz (3pole 6h / 4pole 9h / 5pole 9h)	400 V 50 a. 60 Hz (3pole 9h / 4pole 6h / 5pole 6h)	500 V 50 a. 60 Hz (3pole 7h / 4pole 7h / 5pole 7h)	> 50 - 500 V 100 - 300 Hz (3pole 10h / 4pole 10h / 5pole 10h)	> 50 - 500 V over 300 - 500 Hz (3pole 2h / 4pole 2h / 5pole 2h)		g
			Part numbers						
16	3		**400 306**					1	233
16	4			**400 406**				1	249
16	5			**400**				1	259

RAL 7035 light grey (w/o suffix) / RAL 9010 clear white (with suffix 'RW') / RAL 9001 cream white (with suffix 'CW')

pic. 400

mondo channel installation socket IP 44 ⚠ for TEHALIT steel sheet channel, with label

16	3		**402 306**					1	255
16	4			**402 406**				1	271
16	5			**402**				1	281

RAL 7035 light grey (w/o suffix) / RAL 9010 clear white (with suffix 'RW') / RAL 9001 cream white (with suffix 'CW')

pic. 402

mondo channel installation socket IP 44 ⚠ for TEHALIT steel sheet channel, with label & lock

16	3		**401 306**					1	233
16	4			**401 406**				1	249
16	5			**401**				1	259

RAL 7035 light grey (w/o suffix) / RAL 9010 clear white (with suffix 'RW') / RAL 9001 cream white (with suffix 'CW')

pic. 401

mondo channel installation socket IP 44 ⚠ for TEHALIT plastic channels, with label

16	3		**403 306**					1	255
16	4			**403 406**				1	271
16	5			**403**				1	281

RAL 7035 light grey (w/o suffix) / RAL 9010 clear white (with suffix 'RW') / RAL 9001 cream white (with suffix 'CW')

pic. 403

mondo channel installation socket IP 44 ⚠ for TEHALIT plastic channels, with label & lock

Panel sockets IP 44 straight (also for installation channel)

IEC/EN 60 309

CEEtyp

3 2P+E	4 3P+E	5 3P+N+E	Ampère	Poles	110 V 50 a. 60 Hz (3pole 4h / 4pole 4h / 5pole 4h)	230 V 50 a. 60 Hz (3pole 6h / 4pole 9h / 5pole 9h)	400 V 50 a. 60 Hz (3pole 9h / 4pole 6h / 5pole 6h)	500 V 50 a. 60 Hz (3pole 7h / 4pole 7h / 5pole 7h)	> 50 - 500 V 100 - 300 Hz (3pole 10h / 4pole 10h / 5pole 10h)	> 50 - 500 V over 300 - 500 Hz (3pole 2h / 4pole 2h / 5pole 2h)		g
					Part numbers							
 pic. 430			16	3	411 304	**411 306**	411 309				10	128
			16	4	410 404	410 409	**410 406**	410 407	410 410	410 402	10	160
			16	5	410 504	410 509	**410**				10	165
			16	5			410 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
			32	3	430 304	**430 306**	430 309				10	208
			32	4	430 404	430 409	**430 406**	430 407	430 410	430 402	10	215
			32	5	430 504	430 509	**430**				10	226
			32	5			430 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
Panel sockets straight IP 44, fingerproof acc. to BGV A2												
 pic. 460			63	3	460 304	**460 306**	460 309				5	586
			63	4	460 404	460 409	**460 406**	460 407	460 410	460 402	5	645
			63	5	460 504	460 509	**460**				5	776
			63	5			460 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
Panel sockets straight IP 44, fingerproof acc. to BGV A2												
 pic. 431			16	4	411 404	411 409	**411 406**	411 407	411 410	411 402	10	200
			16	5	411 504	411 509	**411**				10	218
			32	3	431 304	**431 306**	431 309				10	223
			32	4	431 404	431 409	**431 406**	431 407	431 410	431 402	10	230
			32	5	431 504	431 509	**431**				10	283
Panel sockets straight IP 44, fingerproof acc. to BGV A2, flange screwed on												
 410 306			16	3	410 304	**410 306**	410 309				10/60	117
			16	3	412 304	**412 306**	412 309 *(flange screwed on)*				10	129
Panel sockets straight IP 44, fingerproof acc. to BGV A2												
 pic. 435			16	3	415 304	**415 306**	415 309				10	200
			16	4	415 404	415 409	**415 406**	415 407	415 410	415 402	10	214
			16	5	415 504	415 509	**415**				10	263
			32	3	435 304	**435 306**	435 309				10	265
			32	4	435 404	435 409	**435 406**	435 407	435 410	435 402	10	271
			32	5	435 504	435 509	**435**				10	276
mondo panel sockets straight IP 44, RAL 7035 light grey												
 pic. 417306			16	3	417 304	**417 306**	417 309				10	153
mondo panel sockets IP 44, also for installation channel, RAL 7035 light grey												
 pic. 10003			16	2		**10 003** (blue)					10	46
			16	2		**10 001** (grey)					10	46
						10 014 (**protection against accidental contact** acc. to BGV A2 for Schuko sockets)						
			16	2		**10 005** (blue, with extra flange)					10	70
			16	2		**10 006** (grey, with extra flange)					10	70
						fixing dimensions = 60 x 60 mm / flange dimensions = 75 x 75 mm						
Earthing contact socket IP 44, panel socket straight												
 pic. 10004			16	2		**10 004**					10	94
Earthing contact socket IP 44, mondo panel sockets straight, RAL 7035 light grey												

Other voltages and frequencies on request

Panel sockets IP 44 ⚠, angled (also for installation channel)

IEC/EN 60 309

2P+E	3P+E	3P+N+E	Ampère	Poles	110 V 50 a. 60 Hz 3pole 4h	110 V 50 a. 60 Hz 4pole 4h	110 V 50 a. 60 Hz 5pole 4h	230 V 50 a. 60 Hz 3pole 6h	230 V 50 a. 60 Hz 4pole 9h	230 V 50 a. 60 Hz 5pole 9h	400 V 50 a. 60 Hz 3pole 9h	400 V 50 a. 60 Hz 4pole 6h	400 V 50 a. 60 Hz 5pole 6h	500 V 50 a. 60 Hz 3pole 7h	500 V 50 a. 60 Hz 4pole 7h	500 V 50 a. 60 Hz 5pole 7h	> 50 - 500 V 100 - 300 Hz 3pole 10h	> 50 - 500 V 100 - 300 Hz 4pole 10h	> 50 - 500 V 100 - 300 Hz 5pole 10h	> 50 - 500 V over 300 - 500 Hz 3pole 2h	> 50 - 500 V over 300 - 500 Hz 4pole 2h	> 50 - 500 V over 300 - 500 Hz 5pole 2h		g
																							Part numbers	
			16	3	510 304			**510 306**			510 309												10	120
			16	4	510 404			510 409			**510 406**			510 407			510 410			510 402			10	160
			16	5	510 504			510 509			**510**												10	175
			16	5							510 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			32	3	530 304			**530 306**			530 309												10	207
			32	4	530 404			530 409			**530 406**			530 407			530 410			530 402			10	216
			32	5	530 504			530 509			**530**												10	240
			32	5							530 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
pic. 530			**Panel sockets angled** IP 44 ⚠, fingerproof acc. to BGV A2																					
			16	4	511 404			511 409			**511 406**			511 407			511 410			511 402			10	181
			16	5	511 504			511 509			**511**												10	201
			32	3	531 304			**531 306**			531 309												10	218
			32	4	531 404			531 409			**531 406**			531 407			531 410			531 402			10	236
			32	5	531 504			531 509			**531**												10	254
			63	3	560 304			**560 306**			560 309												5	593
			63	4	560 404			560 409			**560 406**			560 407			560 410			560 402			5	677
			63	5	560 504			560 509			**560**												5	708
			63	5							560 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
pic. 531			**Panel sockets angled** IP 44 ⚠, fingerproof acc. to BGV A2																					
			16	5	512 504			512 509			**512**												10	198
			16	5							512 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			32	5	532 504			532 509			**532**												10	259
			32	5							532 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
			63	5	562 504			562 509			**562**												5	715
			63	5							562 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*													
pic. 532			**Panel sockets angled** IP 44 ⚠, 16 - 63 A fingerproof acc. to BGV A2																					
			16	3	514 304			**514 306**			514 309												10	158
			16	4	514 404			514 409			**514 406**			514 407			514 410			514 402			10	202
			16	5	514 504			514 509			**514**												10	220
			32	3	534 304			**534 306**			534 309												10	300
			32	4	534 404			534 409			**534 406**			534 407			534 410			534 402			10	285
			32	5	534 504			534 509			**534**												10	305
pic. 534			**Panel sockets angled** IP 44 ⚠, flange screwed on																					
			63	3	564 304			**564 306**			564 309												5	646
			63	4	564 404			564 409			**564 406**												5	695
			63	5	564 504			564 509			**564**												5	744
pic. 564			**Panel sockets angled** IP 44 ⚠, flange screwed on																					
			16	3	512 304			**512 306**			512 309												10	120
pic. 512 306			**Panel sockets angled** IP 44 ⚠, with eyehook for padlock																					

Panel sockets IP 67 (also for installation channel)

IEC/EN 60 309

CEEtyp

3 2P+E	4 3P+E	5 3P+N+E	Ampère	Poles	110 V 50 a. 60 Hz 3pole 4h / 4pole 4h / 5pole 4h	230 V 50 a. 60 Hz 3pole 6h / 4pole 9h / 5pole 9h	400 V 50 a. 60 Hz 3pole 9h / 4pole 6h / 5pole 6h	500 V 50 a. 60 Hz 3pole 7h / 4pole 7h / 5pole 7h	> 50 - 500 V 100 - 300 Hz 3pole 10h / 4pole 10h / 5pole 10h	> 50 - 500 V over 300 - 500 Hz 3pole 2h / 4pole 2h / 5pole 2h		g
					Part numbers							
			16	3	419 304	**419 306**	419 309				10	139
			16	4	419 404	419 409	**419 406**	419 407	419 410	419 402	10	186
			16	5	419 504	419 509	**419**				10	202
			16	5			419 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
			32	3	439 304	**439 306**	439 309				10	246
			32	4	439 404	439 409	**439 406**	439 407	439 410	439 402	10	252
			32	5	439 504	439 509	**439**				10	278
			32	5			439 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
			63	3	469 304	**469 306**	469 309				5	599
			63	4	469 404	469 409	**469 406**	469 407	469 410	469 402	5	699
			63	5	469 504	469 509	**469**				5	799
			63	5			469 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
pic. 439			**Panel sockets straight** IP 67, fingerproof acc. to BGV A2									
			125	3	479 304	**479 306**	479 309				2	990
			125	4	479 404	479 409	**479 406**	479 407	479 410	479 402	2	1155
			125	5	479 504	479 509	**479**				2	1319
pic. 479			**Panel sockets straight** IP 67, with multi contact, fingerproof acc. to BGV A2									
			16	3	519 304	**519 306**	519 309				10	142
			16	4	519 404	519 409	**519 406**	519 407	519 410	519 402	10	257
			16	5	519 504	519 509	**519**				10	223
			16	5			519 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
			32	3	539 304	**539 306**	539 309				10	263
			32	4	539 404	539 409	**539 406**	539 407	539 410	539 402	10	287
			32	5	539 504	539 509	**539**				10	303
			32	5			539 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
			63	3	569 304	**569 306**	569 309				5	638
			63	4	569 404	569 409	**569 406**	569 407	569 410	569 402	5	725
			63	5	569 504	569 509	**569**				5	832
			63	5			569 NI *(NI = with nickel plated contacts & glass-fibre reinforced enclosure)*					
pic. 539			**Panel sockets angled** IP 67, fingerproof acc. to BGV A2									
			125	3	579 304	**579 306**	579 309				2	988
			125	4	579 404	579 409	**579 406**	579 407	579 410	579 402	2	1152
			125	5	579 504	579 509	**579**				10	22
pic. 579			**Panel sockets angled** IP 67, **with multi contact,** fingerproof acc. to BGV A2									
			16	4	517 404	517 409	**517 406**	517 407	517 410	517 402	10	194
			16	5	517 504	517 509	**517**				10	212
			32	3	537 304	**537 306**	537 309				10	255
			32	4	537 404	537 409	**537 406**	537 407	537 410	537 402	10	273
			32	5	537 504	537 509	**537**				10	293
			63	5	567 504	567 509	**567**				5	843
pic. 537			**Panel sockets angled** IP 67, fingerproof acc. to BGV A2									
			16	3	518 304	**518 306**	518 309				10	238
			16	4	518 404	518 409	**518 406**	518 407	518 410	518 402	10	256
			16	5	518 504	518 509	**518**				10	274
			32	3	538 304	**538 306**	538 309				10	339
			32	4	538 404	538 409	**538 406**	538 407	538 410	538 402	10	330
			32	5	538 504	538 509	**538**				10	350
			63	3	568 304	**568 306**	568 309				5	661
			63	4	568 404	568 409	**568 406**	568 407	568 410	568 402	5	720
			63	5	568 504	568 509	**568**				5	779
pic. 538			**Panel sockets angled** IP 67, flange screwed on									

Other voltages and frequencies on request

Plugs & Sockets IP 44 ⚠ for Light & Stage Technique

IEC/EN 60 309

Ampère	Poles	110 V 50 u. 60 Hz (3pole 4h / 4pole 4h / 5pole 4h)	230 V 50 u. 60 Hz (3pole 6h / 4pole 9h / 5pole 9h)	400 V 50 u. 60 Hz (3pole 9h / 4pole 6h / 5pole 6h)	500 V 50 u. 60 Hz (3pole 7h / 4pole 7h / 5pole 7h)		g
		Part numbers					
16	3		**211 306 SW**			10	112
16	4			**211 406 SW**		10	154
16	5			**211 SW**		10	170
32	3		**231 306 SW**			10	211
32	4			**231 406 SW**		10	217
32	5			**231 SW**		10	240
63	3		**261 306 SW**			5	475
63	4			**261 406 SW**		5	566
63	5			**261 SW**		5	613
125	3		**279 306 SW**[1)]			2	1185
125	4			**279 406 SW**[1)]		2	1329
125	5			**279 SW**[1)]		2	1473

pic. 231SW

Plugs with cable gland, in 16 - 63 A = IP 44 ⚠, in 125 A = IP 67 💧 [1)]

16	3	215 304 SW	**215 306 SW**			10	101

pic. 215306SW

Plugs IP 44 ⚠ with inverted cable entry

16	5			**210 SW**		10/60	176
32	5			**230 SW**		10/60	250

pic. 230SW

Plugs IP 44 ⚠, with flexible cable entry

16	3		**311 306 SW**			10	147
16	4			**311 406 SW**		10	197
16	5			**311 SW**		10	214
32	3		**331 306 SW**			10	265
32	4			**331 406 SW**		10	278
32	5			**331 SW**		10	300
63	3		**361 306 SW**			5	656
63	4			**361 406 SW**		5	771
63	5			**361 SW**		5	787
125	3		**379 306 SW**[2)]			2	1362
125	4			**379 406 SW**[2)]		2	1536
125	5			**379 SW**[2)]		2	1710

pic. 331306SW

Couplers with cable gland, 16 - 63 A = IP 44 ⚠, 125 A = IP 67 💧 [2)]

16	3	315 304 SW	**315 306 SW**			10	140

pic. 315306SW

Couplers IP 44 ⚠, with inverted cable entry

16	5			**310 SW**		10/60	219
32	5			**330 SW**		10/60	311

pic. 315306SW

Couplers IP 44 ⚠, with flexible cable entry

16	3	410 304 SW	**410 306 SW**			10	128
16	4			**410 406 SW**		10	106
16	5			**410 SW**		10	165
32	3		**430 306 SW**			10	208
32	4			**430 406 SW**		10	215
32	5			**430 SW**		10	226
63	3		**460 306 SW**			5	586
63	4			**460 406 SW**		5	645
63	5			**460 SW**		5	776
125	3		**479 306 SW**[3)]			2	990
125	4			**479 406 SW**[3)]		2	1155
125	5			**479 SW**[3)]		2	1319

pic. 330SW

Panel sockets, straight, 16 - 63 A = IP 44 ⚠, 125 A = IP 67 💧[3)], fingerproof acc. to BGV A2

7-pole Plugs and Sockets IP 44 IEC/EN 60 309

6 P + E	Ampère	Poles	230 V 50/60 Hz 7pole 9h	400 V 50/60 Hz 7pole 6h	500 V 50/60 Hz 7pole 7h		g
			Part numbers				
 130706	16	7	**110 709**	**110 706**	**110 707**	10	251
	32	7	**130 709**	**130 706**	**130 707**	10	349
Wall sockets IP 44, external fixing, 1 top cable entry							
 230706	16	7	**210 709**	**210 706**	**210 707**	10	203
	32	7	**230 709**	**230 706**	**230 707**	10	291
Plugs IP 44, flexible cable entry							
 630706	16	7	**610 709**	**610 706**	**610 707**	10	204
	32	7	**630 709**	**630 706**	**630 707**	10	287
	16	7	**611 709**	**611 706**	**611 707**	10	204
	32	7	**631 709**	**631 706**	**631 707**	10	305
Wall mounting appliance inlet IP 44, external fixing, 1 top cable entry							
 330706	16	7	**310 709**	**310 706**	**310 707**	10	245
	32	7	**330 709**	**330 706**	**330 707**	10	339
Couplers IP 44, flexible cable entry							
 431706	16	7	**411 709**	**411 706**	**411 707**	10	218
	32	7	**431 709**	**431 706**	**431 707**	10	277
Panel mounting appliance inlets IP 44, angled, flange screwed on							
 534	16	7	**514 709**	**514 706**	**514 707**	10	240
	32	7	**534 709**	**534 706**	**534 707**	10	330
Couplers IP 44, flexible cable entry							
 631706	16	7	**611 709**	**611 706**			
	32	7	**631 709**	**631 706**			
Panel mounting appliance inlets IP 44, angled, flange screwed on							
 131706	16	7	**111 709**	**111 706**	**111 707**	5	449
	32	7	**131 709**	**131 706**	**131 707**	5	518
Wall sockets IP 44, internal fixing, 2 cable entries both, top and bottom, knock-out							

Other voltages and frequencies on request

Plugs and sockets IP 67 for containers IEC/EN 60 309

4 3 P + E	Ampère	Poles	400 - 440 V 50 - 60 Hz 4pole 3 h		g
			Part numbers		
 pic. 139403	32	4	**139 403**	5	502
Wall socket IP 67, internal fixing, 2 top cable entries, top & bottom knock-out					
 pic. 239403	32	4	**639 403**	10	250
Plug IP 67, with cable gland					
 pic. 639403	32	4	**239 403**	10	258
Panel mounting appliance inlet IP 67, **angled,** flange screwed on					
 pic. 339403	32	4	**339 403**	10	323
Coupler IP 67, with cable gland					
 pic. 439403	32	4	**439 403**	10	245
Panel socket, straight, IP 67, fingerproof acc. to BGV A2					
 pic. AT139403	32	4	**AT 139 403**	1	900
Wall socket, IP 67, with switch and double interlocking, switch 3pole					
 pic. AT139403	32	4	**AU 139 403 TS**	1	1155
Wall socket IP 67, with switch, DIN-rail and double interlocking, switch 3pole					
 pic. 633400	32	4	**633 400**	10	59
Protective caps IP 67, for plugs and appliance inlets, complete with cord					

Part numbers in bold letters are standard versions.

NORVO Plugs and Sockets up to 50 V 2pole/3pole IEC/EN 60 309

CEEtyp

2pole	3pole	Ampère	Poles	24~ V 50/60 Hz 2pole –	24~ V 50/60 Hz 3pole –	42~V 50/60 Hz 2pole 12h	42~V 50/60 Hz 3pole 12h	42~V 100/200 Hz 2pole 4h	42~V 100/200 Hz 3pole 4h	42~V 300 Hz 2pole 2h	42~V 300 Hz 3pole 2h	42~V 400 Hz 2pole 3h	42~V 400 Hz 3pole 3h	42~V >400/500Hz 2pole 11h	42~V >400/500Hz 3pole 11h	42 ⎓ V – 2pole 10h		g
				Part numbers														
 pic. 11110		16	2	**10 110**		**10 111**		10 112		10 113		10 114		10 115		10 116	10	169
		16	3	**10 150**		**10 151**		10 152		10 153		10 154		10 155			10	180
		32	2	**11 110**		**11 111**		11 112		11 113		11 114		11 115		11 116	10	169
		32	3	**11 150**		**11 151**		11 152		11 153		11 154		11 155			10	180
NORVO Wall sockets IP 44 ⚠, external fixing, 1 top cable entry																		
 pic. 11100		16	2	**10 100**		**10 101**		10 102		10 103		10 104		10 105		10 106	10	213
		16	3	**10 140**		**10 141**		10 142		10 143		10 144		10 145			10	224
		32	2	**11 100**		**11 101**		11 102		11 103		11 104		11 105		11 106	10	213
		32	3	**11 140**		**11 141**		11 142		11 143		11 144		11 145			10	224
NORVO Wall sockets IP 44 ⚠, external fixing, cable entries: top: 1 x M 25, bottom: 2 x M 20																		
 pic. 11290		16	2	**10 280**		**10 281**		10 282		10 283		10 284		10 285		10 286	10	110
		16	3	**10 290**		**10 291**		10 292		10 293		10 294		10 295			10	124
		32	2	**11 280**		**11 281**		11 282		11 283		11 284		11 285		11 286	10	110
		32	3	**11 290**		**11 291**		11 292		11 293		11 294		11 295			10	124
NORVO Plugs IP 44 ⚠, with flexible cable entry																		
 pic. 11250		16	2	**10 210**		**10 211**		10 212		10 213		10 214		10 215		10 216	10	108
		16	3	**10 250**		**10 251**		10 252		10 253		10 254		10 255			10	122
		32	2	**11 210**		**11 211**		11 212		11 213		11 214		11 215		11 216	10	108
		32	3	**11 250**		**11 251**		11 252		11 253		11 254		11 255			10	122
NORVO Plugs IP 44 ⚠, with cable gland																		
 pic. 11260		16	2	**10 220**		**10 221**		10 222		10 223		10 224		10 225		10 226	10	115
		16	3	**10 260**		**10 261**		10 262		10 263		10 264		10 265			10	128
		32	2	**11 220**		**11 221**		11 222		11 223		11 224		11 225		11 226	10	115
		32	3	**11 260**		**11 261**		11 262		11 263		11 264		11 265			10	128
NORVO Plugs IP 44 ⚠, with cable gland																		
 pic. 11840		16	2	**10 800**		**10 801**		10 802		10 803		10 804		10 805		10 806	10	128
		16	3	**10 840**		**10 841**		10 842		10 843		10 844		10 845			10	143
		32	2	**11 800**		**11 801**		11 802		11 803		11 804		11 805		11 806	10	128
		32	3	**11 840**		**11 841**		11 842		11 843		11 844		11 845			10	143
NORVO Wall mounting appliance inlets IP 44 ⚠, external fixing, 1 top cable entry																		

Other hour positions on request

2pole	3pole	Ampère	Poles	24~ V 50/60 Hz 2pole –	24~ V 50/60 Hz 3pole –	42~V 50/60 Hz 2pole 12h	42~V 50/60 Hz 3pole 12h	42~V 100/200 Hz 2pole 4h	42~V 100/200 Hz 3pole 4h	42~V 300 Hz 2pole 2h	42~V 300 Hz 3pole 2h	42~V 400 Hz 2pole 3h	42~V 400 Hz 3pole 3h	42~V >400/500Hz 2pole 11h	42~V >400/500Hz 3pole 11h	42 ⎓ V 2pole 10h		g
				Part numbers														
 pic. 11380		16	2	**10 380**		**10 381**		10 382		10 383		10 384		10 385		10 386	10	150
		16	3	**10 390**		**10 391**		10 392		10 393		10 394		10 395			10	162
		32	2	**11 380**		**11 381**		11 382		11 383		11 384		11 385		11 386	10	150
		32	3	**11 390**		**11 391**		11 392		11 393		11 394		11 395			10	162
		NORVO **Couplers** IP 44 ⚠, with flexible cable entry																
 pic. 11310		16	2	**10 310**		**10 311**		10 312		10 313		10 314		10 315		10 316	10	146
		16	3	**10 350**		**10 351**		10 352		10 353		10 354		10 355			10	158
		32	2	**11 310**		**11 311**		11 312		11 313		11 314		11 315		11 316	10	146
		32	3	**11 350**		**11 351**		11 352		11 353		11 354		11 355			10	158
		NORVO **Couplers** IP 44 ⚠, with cable gland																
 pic. 11320		16	2	**10 320**		**10 321**		10 322		10 323		10 324		10 325		10 326	10	153
		16	3	**10 360**		**10 361**		10 362		10 363		10 364		10 365			10	165
		32	2	**11 320**		**11 321**		11 322		11 323		11 324		11 325		11 326	10	153
		32	3	**11 360**		**11 361**		11 362		11 363		11 364		11 365			10	165
		NORVO **Couplers** IP 44 ⚠, with cable gland																
 pic. 11400		16	2	**10 400**		**10 401**		10 402		10 403		10 404		10 405		10 406	10	101
		16	3	**10 440**		**10 441**		10 442		10 443		10 444		10 445			10	115
		32	2	**11 400**		**11 401**		11 402		11 403		11 404		11 405		11 406	10	101
		32	3	**11 440**		**11 441**		11 442		11 443		11 444		11 445			10	115
		NORVO **Panel sockets, straight,** IP 44 ⚠ flange dimensions 50 x 50 mm																
 pic. 11600		16	2	**10 600**		**10 601**		10 602		10 603		10 604		10 605		10 606	10	115
		16	3	**10 640**		**10 641**		10 642		10 643		10 644		10 645			10	130
		32	2	**11 600**		**11 601**		11 602		11 603		11 604		11 605		11 606	10	115
		32	3	**11 640**		**11 641**		11 642		11 643		11 644		11 645			10	130
		NORVO **Panel sockets, straight,** IP 44 ⚠ flange dimensions 75 x 75 mm																
 pic. 11500		16	2	**10 500**		**10 501**		10 502		10 503		10 504		10 505		10 506	10	110
		16	3	**10 540**		**10 541**		10 542		10 543		10 544		10 545			10	122
		32	2	**11 500**		**11 501**		11 502		11 503		11 504		11 505		11 506	10	110
		32	3	**11 540**		**11 541**		11 542		11 543		11 544		11 545			10	122
		NORVO **Panel sockets, angled,** IP 44 ⚠ flange dimensions 68 x 62																

CEPro plugs and sockets
Power and control in one unit

„Power“ circuit contacts

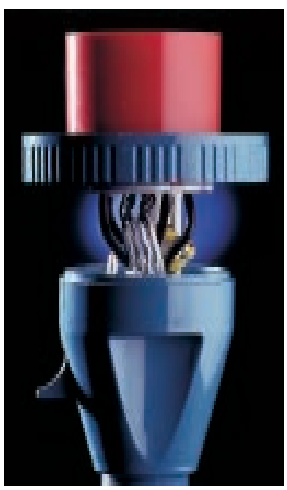
The CEPro Plug and Socket system is similar to the CEE system, the power contacts are arranged in a circle. However, phase, neutral and earth positions in CEPro are at a different angle which prevents incorrect mating to different systems.

Control contact section

The pins and sleeves are from the widely used and tested WALTHER PROCON range of multipole heavy duty connectors. These control contacts are shielded from the power contacts which prevents the risk of flashover between the two circuits.

Termination method inside the control contact section

The cables are connected to the different control contacts by means of crimping. An important advantage of crimping technique is that a gas tight connection can be made between contact and cable conductor thereby establishing a constantly low contact resistance.
The crimp contacts snap into place in the contact cavities and can be undone with a removal tool.



Scope of delivery

CEPro devices are provided with screw terminal power contacts.
The control contact section comes without pins and sleeves so that it can be equipped by the user himself with the required crimp contacts.

WALTHER-CEPro cable

In addition to the CEPro plugs and sockets WALTHER also offers special hybrid cables which guarantee safe transmission of power and control signals.

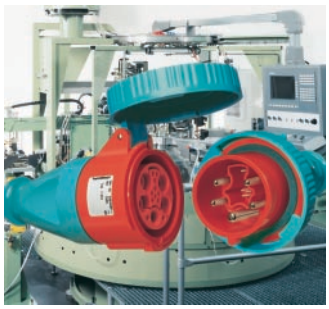
All cables consist of fine wire copper strands. The wires are twisted together and shielded in pairs.

This avoids influence by switching impulses from the power section and a good damping of interference from the outside is achieved.

The application is suitable for a temperature range of
- 30 up to + 80 °C with flexing cable, but the flexing radius should not be lower than 7.5 x cable diameter.

The wires in the cables are tested against each other and the power current section is tested to the control part with 3500 V. The outside coating is made of polyurethane (see page 182).

CEPro plugs and sockets in connection with CEPro cable ensure a safe power and signal transmission, guaranteeing the requirements of a „safe connection“ according to VDE 0100 T 410.



CEPro plugs and sockets can transmit both power and control signals simultaneously within one compact system.

CEPro devices can be plugged and withdrawn under load.

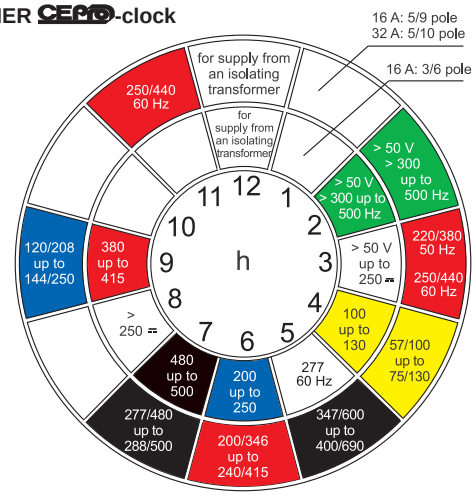
Application areas

This system is ideal for installations and machines which operate or utilise both power and control systems: For example Production Planning Systems (PPS) or Computer Integrated Manufacturing (CIM).

Other applications are for example connection to end-users with netware-backed-up systems, like:

- crane controls
- light- and stage control
- container control etc.

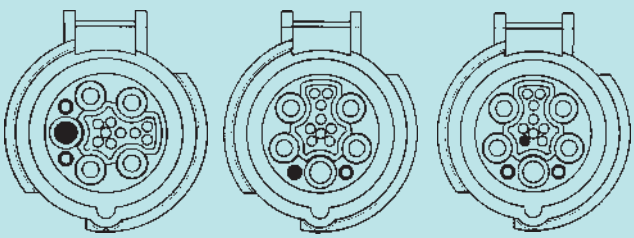
WALTHER CEPro-clock



The power voltage coding was adopted from IEC/EN 60 309 and is indicated by the position of the earth contact in relation to the hour position of the keyway and the corresponding colour, as well as the pre-mating/lagging earth contact connection when plugging/withdrawing.

CEPro coding

In installations where several CEPro sockets are in close proximity but performing different functions, the sockets and plugs have to be made unmistakable. This is achieved either by **mechanical** or **electronical coding.**



• 9-hour position **• key pin** **• dummy sleeve**

Mechanical Coding:

- Use of screwable key pins in connection with blanking plugs
- Allocation of different hour positions
- Snapping-in of blind sleeves in the control contact section.

Electronical Coding:

Electrical connections are only set-up in dependence of a stored program controller (SPS).

Since the complete control contact section is lagging the power contact section when plugging, there is a large number of different electrical locking possibilities by using different pairs of control contacts.

CEPro plugs and sockets for power and control

walther

2P+E / 3P+N+E	Ampère	Poles	Control contacts maximum	110 V 50 a. 60 Hz 3pole 4h	110 V 50 a. 60 Hz 5pole 4h	230 V 50 a. 60 Hz 3pole 6h	230 V 50 a. 60 Hz 5pole 9h	400 V 50 a. 60 Hz 3pole 9h	400 V 50 a. 60 Hz 5pole 6h	440 V 60 Hz 5pole 11h	500 V 50 a. 60 Hz 3pole 7h	500 V 50 a. 60 Hz 5pole 7h		g
				Part numbers										
 7119	16	3	6 ea.*	7 119 304		**7 119 306**		7 119 309					5	407
	16	5	9 ea.*	7 119 504		7 119 509		**7 119**		7 119 511	7 119 507		5	470
	32	5	10 ea.*	7 139 504		7 139 509		**7 139**		7 139 511	7 139 507		5	549
	Wall sockets IP 67, internal fixing, 2 knock-out cable entries (top & bottom)													
 7219	16	3	6 ea.*	7 219 304		**7 219 306**		7 219 309					10	137
	16	5	9 ea.*	7 219 504		7 219 509		**7 219**		7 219 511	7 219 507		10	207
	32	5	10 ea.*	7 239 504		7 239 509		**7 239**		7 239 511	7 239 507		10	314
	Plugs IP 67 with cable gland													
 7618	16	3	6 ea.*	7 618 304		**7 618 306**		7 618 309					5	312
	16	5	9 ea.*	7 618 504		7 618 509		**7 618**		7 618 511	7 618 507		5	406
	32	5	10 ea.*	7 638 504		7 638 509		**7 638**		7 638 511	7 638 507		5	479
	Wall mounting appliance inlets IP 67, internal fixing, 2 knock-out cable entries (top & bottom)													
 7518	16	3	6 ea.*	7 518 304		**7 518 306**		7 518 309					10	207
	16	5	9 ea.*	7 518 504		7 518 509		**7 518**		7 518 511	7 518 507		10	299
	32	5	10 ea.*	7 538 504		7 538 509		**7 538**		7 538 511	7 538 507		10	412
	Panel sockets IP 67, right-angled													
 7319	16	3	6 ea.*	7 319 304		**7 319 306**		7 319 309					10	178
	16	5	9 ea.*	7 319 504		7 319 509		**7 319**		7 319 511	7 319 507		10	270
	32	5	10 ea.*	7 339 504		7 339 509		**7 339**		7 339 511	7 339 507		10	384
	Couplers IP 67, with cable gland													
 7419	16	3	6 ea.*	7 419 304		**7 419 306**		7 419 309					10	159
	16	5	9 ea.*	7 419 504		7 419 509		**7 419**		7 419 511	7 419 507		10	247
	32	5	10 ea.*	7 439 504		7 439 509		**7 439**		7 439 511	7 439 507		10	320
	Panel sockets IP 67, straight													
 613300	16	3		**613 300**									10	34
	16	5		**613 500**									10	54
	32	5		**633 500**									10	89
	Protective caps IP 67, for plugs and appliance inlets													

Part numbers in bold letters are standard versions. * Please order crimp and glass fibre cable contacts separately

Switched Wall Sockets IP 44 and IP 67

CEEtyp

2P+E / 3P+E / 3P+N+E	Ampère	Poles	110 V 50 u. 60 Hz (3pole 4h / 4pole 4h / 5pole 4h)	230 V 50 u. 60 Hz (3pole 6h / 4pole 9h / 5pole 9h)	400 V 50 u. 60 Hz (3pole 9h / 4pole 6h / 5pole 6h)	500 V 50 u. 60 Hz (3pole 7h / 4pole 7h / 5pole 7h)
			Part numbers			
 pic. AT130	16	3	AT 110 304	**AT 110 306**	AT 110 309	
	16	4	AT 110 404	AT 110 409	**AT 110 406**	AT 110 407
	16	5	AT 110 504	AT 110 509	**AT 110**	
	32	3	AT 130 304	**AT 130 306**	AT 130 309	
	32	4	AT 130 404	AT 130 409	**AT 130 406**	AT 130 407
	32	5	AT 130 504	AT 130 509	**AT 130**	
			Wall sockets IP 44 with switch, with interlocking			
 pic. AE130	16	3	AE 110 304	**AE 110 306**	AE 110 309	
	16	4	AE 110 404	AE 110 409	**AE 110 406**	AE 110 407
	16	5	AE 110 504	AE 110 509	**AE 110**	
	32	3	AE 130 304	**AE 130 306**	AE 130 309	
	32	4	AE 130 404	AE 130 409	**AE 130 406**	AE 130 407
	32	5	AE 130 504	AE 130 509	**AE 130**	
	63	3	AE 160 304	**AE 160 306**	AE 160 309	
	63	4	AE 160 404	AE 160 409	**AE 160 406**	AE 160 407
	63	5	AE 160 504	AE 160 509	**AE 160**	
			Wall sockets IP 44 with switch, with interlocking			
 pic. AJ130	16	3	AJ 110 304	**AJ 110 306**	AJ 110 309	
	16	4	AJ 110 404	AJ 110 409	**AJ 110 406**	AJ 110 407
	16	5	AJ 110 504	AJ 110 509	**AJ 110**	
	32	3	AJ 130 304	**AJ 130 306**	AJ 130 309	
	32	4	AJ 130 404	AJ 130 409	**AJ 130 406**	AJ 130 407
	32	5	AJ 130 504	AJ 130 509	**AJ 130**	
	63	3	AJ 160 304	**AJ 160 306**	AJ 160 309	
	63	4	AJ 160 404	AJ 160 409	**AJ 160 406**	AJ 160 407
	63	5	AJ 160 504	AJ 160 509	**AJ 160**	
			Wall sockets IP 44, with switch, with interlocking			
 pic. AT139	16	3	AT 119 304	**AT 119 306**	AT 119 309	
	16	4	AT 119 404	AT 119 409	**AT 119 406**	AT 119 407
	16	5	AT 119 504	AT 119 509	**AT 119**	
	32	3	AT 139 304	**AT 139 306**	AT 139 309	
	32	4	AT 139 404	AT 139 409	**AT 139 406**	AT 139 407
	32	5	AT 139 504	AT 139 509	**AT 139**	
			Wall sockets IP 67 with switch, with interlocking			
 pic. AE139	16	3	AE 119 304	**AE 119 306**	AE 119 309	
	16	4	AE 119 404	AE 119 409	**AE 119 406**	AE 119 407
	16	5	AE 119 504	AE 119 509	**AE 119**	
	32	3	AE 139 304	**AE 139 306**	AE 139 309	
	32	4	AE 139 404	AE 139 409	**AE 139 406**	AE 139 407
	32	5	AE 139 504	AE 139 509	**AE 139**	
	63	3	AE 169 304	**AE 169 306**	AE 169 309	
	63	4	AE 169 404	AE 169 409	**AE 169 406**	AE 169 407
	63	5	AE 169 504	AE 169 509	**AE 169**	
			Wall sockets IP 67 with switch, with interlocking			
 pic. AJ139	16	3	AJ 119 304	**AJ 119 306**	AJ 119 309	
	16	4	AJ 119 404	AJ 119 409	**AJ 119 406**	AJ 119 407
	16	5	AJ 119 504	AJ 119 509	**AJ 119**	
	32	3	AJ 139 304	**AJ 139 306**	AJ 139 309	
	32	4	AJ 139 404	AJ 139 409	**AJ 139 406**	AJ 139 407
	32	5	AJ 139 504	AJ 139 509	**AJ 139**	
	63	3	AJ 169 304	**AJ 169 306**	AJ 169 309	
	63	4	AJ 169 404	AJ 169 409	**AJ 169 406**	AJ 169 407
	63	5	AJ 169 504	AJ 169 509	**AJ 169**	
			Wall sockets IP 67, with switch, with interlocking			

On request: If the **neutral** shall be **switched**, the third digit of the part number must be „7“ instead of „1“

Wall Sockets IP 44 ⚠ and IP 67 💧💧 with DIN-rail or MCBs

walther

Ampère	Poles	110 V 50 u. 60 Hz (3pole 4h / 4pole 4h / 5pole 4h)	230 V 50 u. 60 Hz (3pole 6h / 4pole 9h / 5pole 9h)	400 V 50 u. 60 Hz (3pole 9h / 4pole 6h / 5pole 6h)	500 V 50 u. 60 Hz (3pole 7h / 4pole 7h / 5pole 7h)
		Part numbers			
16	3	AR 110 304 TS	**AR 110 306 TS**	AR 110 309 TS	
16	4	AR 110 404 TS	AR 110 409 TS	**AR 110 406 TS**	AR 110 407 TS
16	5	AR 110 504 TS	AR 110 509 TS	**AR 110 TS**	
32	3	AR 130 304 TS	**AR 130 306 TS**	AR 130 309 TS	
32	4	AR 130 404 TS	AR 130 409 TS	**AR 130 406 TS**	AR 130 407 TS
32	5	AR 130 504 TS	AR 130 509 TS	**AR 130 TS**	
		Wall sockets IP 44 ⚠, with DIN-rail			
16	3	AR 110 304 AC	**AR 110 306 AC**	AR 110 309 AC	
16	4	AR 110 404 AC	AR 110 409 AC	**AR 110 406 AC**	AR 110 407 AC
16	5	AR 110 504 AC	AR 110 509 AC	**AR 110 AC**	
32	3	AR 130 304 AC	**AR 130 306 AC**	AR 130 309 AC	
32	4	AR 130 404 AC	AR 130 409 AC	**AR 130 406 AC**	AR 130 407 AC
32	5	AR 130 504 AC	AR 130 509 AC	**AR 130 AC**	

pic. AR130AC

		Wall sockets IP 44 ⚠ with MCBs			
63	3	AS 160 304 TS	**AS 160 306 TS**	AS 160 309 TS	
63	4	AS 160 404 TS	AS 160 409 TS	**AS 160 406 TS**	AS 160 407 TS
63	5	AS 160 504 TS	AS 160 509 TS	**AS 160 TS**	
		Wall sockets IP 44 ⚠ with DIN-rail			
63	3	AS 160 304 AC	**AS 160 306 AC**	AS 160 309 AC	
63	4	AS 160 404 AC	AS 160 409 AC	**AS 160 406 AC**	AS 160 407 AC
63	5	AS 160 504 AC	AS 160 509 AC	**AS 160 AC**	

pic. AS160AC

		Wall sockets IP 44 ⚠ with MCBs			
16	3	AR 119 304 TS	**AR 119 306 TS**	AR 119 309 TS	
16	4	AR 119 404 TS	AR 119 409 TS	**AR 119 406 TS**	AR 119 407 TS
16	5	AR 119 504 TS	AR 119 509 TS	**AR 119 TS**	
32	3	AR 139 304 TS	**AR 139 306 TS**	AR 139 309	
32	4	AR 139 404 TS	AR 139 409 TS	**AR 139 406 TS**	AR 139 407 TS
32	5	AR 139 504 TS	AR 139 509 TS	**AR 139 TS**	
		Wall sockets IP 67 💧💧 with DIN-rail			
16	3	AR 119 304 AC	**AR 119 306 AC**	AR 119 309 AC	
16	4	AR 119 404 AC	AR 119 409 AC	**AR 119 406 AC**	AR 119 407 AC
16	5	AR 119 504 AC	AR 119 509 AC	**AR 119 AC**	
32	3	AR 139 304 AC	**AR 139 306 AC**	AR 139 309 AC	
32	4	AR 139 404 AC	AR 139 409 AC	**AR 139 406 AC**	AR 139 407 AC
32	5	AR 139 504 AC	AR 139 509 AC	**AR 139 AC**	

pic. AR139AC

		Wall sockets IP 67 💧💧 with MCBs			
63	3	AS 169 304 TS	**AS 169 306 TS**	AS 169 309 TS	
63	4	AS 169 404 TS	AS 169 409 TS	**AS 169 406 TS**	AS 169 407 TS
63	5	AS 169 504 TS	AS 169 509 TS	**AS 169 TS**	
125	3	AS 179 304 TS	**AS 179 306 TS**	AS 179 309 TS	
125	4	AS 179 404 TS	AS 179 409 TS	**AS 179 406 TS**	AS 179 407 TS
125	5	AS 179 504 TS	AS 179 509 TS	**AS 179 TS**	
		Wall sockets IP 67 💧💧 with DIN-rail			
63	3	AS 169 304 AC	**AS 169 306 AC**	AS 169 309 AC	
63	4	AS 169 404 AC	AS 169 409 AC	**AS 169 406 AC**	AS 169 407 AC
63	5	AS 169 504 AC	AS 169 509 AC	**AS 169 AC**	

pic. AS169AC

		Wall sockets IP 67 💧💧 with MCBs			

Part numbers in bold letters are standard versions.

CEEtyp sockets: IEC/EN 60 309-1,2 / Schuko sockets: DIN 49 440
Available in compliance with French, Belgian, Danish, British, Swiss and other national standards on request.
Completely wired, plastic enclosed, IP 44.

Enclosures 657 / 658 / 659 (Cable entry 2 x top and bottom M 20/25, knock-out)

1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
unfused, wired on terminal blocks

External dimensions (H x W x D):
237 x 125 x 100,5 mm

Part No. 657 01 05
(EAN No. 4015609156085)

stock item

1 CEEtyp panel socket 5 x 16 A
1 Schuko socket
1 MCB 1 pole 16 A »B« •

External dimensions (H x W x D):
237 x 125 x 124 mm

Part No. 658 01 05
(EAN No. 4015609156504)

stock item

• Alternative:
1 MCB 1 pole 16 A »C«

Part No. 658 01 04
(EAN No. 4015609158515)

1 CEEtyp panel socket 5 x 32 A
1 Schuko socket
1 MCB 1 pole 16 A »B« •

External dimensions (H x W x D):
237 x 125 x 124 mm

Part No. 658 11 03
(EAN No. 4015609158539)

stock item

• Alternative:
1 MCB 1 pole 16 A »C«

Part No. 658 11 04
(EAN No. 4015609158546)

2 Schuko sockets
2 MCBs 1 pole 16 A »B«
1 RCD 2 pole 25 A,
$I_{\Delta n}$ = 0.03 A

External dimensions (H x W x D):
237 x 125 x 124 mm

Part No. 659 00 01
(EAN No. 4015609159215)

Enclosures 691 / 692 (Cable entry 2 x top and bottom M 25/32. knock-out)

1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
3 Schuko sockets
unfused, wired on terminal blocks

External dimensions:
237 x 183 x 152 mm

Part No. 691 30 01
(EAN No. 401560990280)

4 Schuko sockets
4 MCBs 1 pole 16 A »B« •
1 RCD 4 pole 40 A,
$I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 10 pole

External dimensions:
237 x 183 x 152 mm

Part No. 692 00 03
(EAN No. 401560990372)

• Alternative:
4 MCBs 1 pole 16 A »C«

Part No. 692 00 04
(EAN No. 401560990389)

1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
1 MCB 3 pole 16 A »C«
2 MCBs 1 pole 16 A »B« •
1 terminal block set K 25, 5 pole

External dimensions:
237 x 183 x 152 mm

Part No. 692 01 08
(EAN No. 401560990730)

stock item

• Alternative:
2 MCBs 1 pole 16 A »C«

Part No. 692 01 13
(EAN No. 401560990785)

Other versions of combination units according to your requirements on request.

CEEtyp sockets: IEC/EN 60 309-1,2 / Schuko sockets: DIN 49 440
Available in compliance with French, Belgian, Danish, British, Swiss and other national standards on request.
Completely wired, plastic enclosed, IP 44.

Enclosures 698 Cable entry 2 x top & bottom M 25/32, knock-out

2 CEEtyp panel sockets 5 x 16 A
3 Schuko sockets
2 MCBs 3 pole 16 A »C«
3 MCBs 1 pole 16 A »B« •
1 terminal block set K 25, 5 pole

External dimensions (H x W x D):
370 x 183 x 152 mm

Part No. 698 02 02
(EAN No. 401560993922)

• Alternative:
3 MCBs 1 pole 16 A »C«

Part No. 698 02 03
(EAN No. 4015609156993)

Enclosures 682 (cable entry 3 x top and bottom M 32/50, knock-out)

1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
4 Schuko sockets
1 MCB 3 pole 32 A »C«
1 MCB 3 pole 16 A »C«
4 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A,
$I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 10 pole

External dimensions (H x W x D):
404 x 290 x 171,5 mm

Part No. 682 30 01
(EAN No. 4015609156597)

stock item

1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
1 MCB 3 pole 32 A »C«
1 MCB 3 pole 16 A »C«
2 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A,
$I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 10 pole

External dimensions (H x W x D):
404 x 290 x 171,5 mm

Part No. 682 30 06
(EAN No. 4015609180806)

stock item

Enclosures 689

(Enclosure 682 and 683 joined)
Cable entry 3 x top and bottom M 32/50, knock-out

2 CEEtyp panel socket 5 x 32 A
2 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
2 MCBs 3 pole 32 A »C«
2 MCBs 3 pole 16 A »C«
2 MCBs 1 pole 16 A »B«
1 RCD 4 pole 63 A,
$I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 5 pole

External dimensions (H x W x D):
655 x 290 x 171,5 mm

Part No. 689 33 01
(EAN No. 4015609185535)

Enclosures 685

(Enclosure 681 and 686 joined)
Cable entry 3 x top and bottom M 32/50, knock-out

1 CEEtyp panel socket 5 x 32 A
2 CEEtyp panel sockets 5 x 16 A
3 CEEtyp panel sockets 3 x 16 A
4 Schuko sockets
1 MCB 3 pole 32 A »C«
2 MCBs 3 pole 16 A »C«
3 MCBs 1 pole 16 A »C«
4 MCBs 1 pole 16 A »B«
1 RCD 4 pole 63 A,
$I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 5 pole

External dimensions (H x W x D):
809 x 290 x 171,5 mm

Part No. 685 35 01
(EAN No. 4015609185481)

Other versions of combination units according to your requirements on request.

CEEtyp

CEEtyp sockets: IEC/EN 60 309-1,2
Schuko sockets: DIN 49 440
Available in compliance with French, Belgian, Danish, British, Swiss and other national standards on request.

Combination units, PBT plastic, chemical resistant

completely wired, plastic enclosed, IP 44

Enclosures of chemical resistant PBT plastic are for use in areas where chemicals and aggressive media are used.

Looking for different combination units?

All standard versions are also available in chemical resistant PBT plastic. To order a standard enclosure in PBT plastic just add „**CB**“ after the standard part number.

Or simply call us - we will assist you.

Chemical resistant enclosure
1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
unfused, wired on terminal blocks

External dimensions (H x W x D):
237 x 125 x 100,5 mm

Part No. 657 01 05 CB
(EAN No. 4015609291991)

Chemical resistant enclosure
1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
3 Schuko sockets
unfused, wired on terminal blocks

External dimensions (H x W x D):
237 x 183 x 152 mm

Part No. 691 30 01 CB
(EAN No. 4015609292004)

Chemical resistant enclosure
2 CEEtyp panel sockets 5 x 16 A
3 Schuko sockets
2 MCBs 3 pole 16 A »C«
3 MCBs 1 pole 16 A »B«
1 terminal block set K 25, 5 pole

External dimensions (H x W x D):
370 x 183 x 152 mm

Part No. 698 02 02 CB
(EAN No. 4015609292035)

Portable combination units, enclosures 692 and 698

Enclosure 692 with handle
4 Schuko sockets
4 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G6
with CEEtyp plug 5 x 32 A

External dimensions (H x W x D):
237 x 183 x 152 mm

Part No. 692 00 07 (EAN 401560990419)

Enclosure 692 with handle
1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
1 MCB 3 pole 16 A »C«
2 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G6
with CEEtyp plug 5 x 32 A

External dimensions (H x W x D):
237 x 183 x 152 mm

Part No. 692 01 66 (EAN 4015609185580)

Enclosure 692 with handle
2 CEEtyp panel sockets 5 x 16 A
2 MCBs 3 pole 16 A »C«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G6
with CEEtyp plug 5 x 32 A

External dimensions (H x W x D):
237 x 183 x 152 mm

Part No. 692 02 08 (EAN 4015609230754)

Enclosure 692 with handle
1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets, laterally
1 MCB 3 pole 16 A »C«
2 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G6
with CEEtyp plug 5 x 32 A

External dimensions (H x W x D):
237 x 183 x 152 mm

Part No. 692 30 19 (EAN 4015609247806)

Enclosure 698 with handle
6 Schuko sockets
6 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G6
with CEEtyp plug 5 x 32 A

External dimensions (H x W x D):
370 x 183 x 152 mm

Part No. 698 00 04 (EAN 4015609185597)

Enclosure 698 with handle
1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
3 Schuko sockets
1 MCB 3 pole 16 A »C«
3 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G6
with CEEtyp plug 5 x 32 A

External dimensions (H x W x D):
370 x 183 x 152 mm

Part No. 698 30 13 (EAN 4015609185603)

Other versions of combination units according to your requirements on request.

CEEtyp sockets: IEC/EN 60 309-1,2 / Schuko sockets: DIN 49 440
Available in compliance with French, Belgian, Danish, British, Swiss and other national standards on request.
Completely wired, plastic enclosed, IP 44.

1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
3 Schuko sockets
1 MCB 3 pole 16 A »C«
3 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40A,
$I_{\Delta n}$ = 0.03 A
1 CEEtyp appliance inlet 5 x 32 A

External dimensions (H x W x D):
310 x 270 x 270 mm

stock item

Part No. 649 30 16
(EAN No. 401560944634)

1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
3 Schuko sockets
1 MCB 3 pole 16 A »C«
3 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40A,
$I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G6
with CEEtyp plug 5 x 32 A

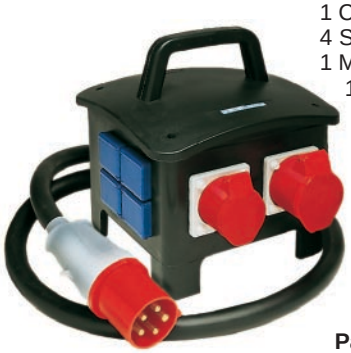
External dimensions
(H x W x D):
310 x 270 x 270 mm

Part No. 649 30 19
(EAN No. 4015609128662)

1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
4 Schuko sockets
1 MCB 3 pole 16 A »C«
2 MCBs 1 pole 16 A »B«
2 m supply cable H07RN-F5G6
with CEEtyp plug 5 x 32 A

External dimensions
(H x W x D):
310 x 270 x 270 mm

Part No. 649 30 06
(EAN No. 401560944597)



1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
4 Schuko sockets
1 MCB 3 pole 32 A »C«
1 MCB 3 pole 16 A »C«
4 MCBs 1 pole 16 A »B«
2 m supply cable H07RN-F5G16
with CEEtyp plug 5 x 63 A

External dimensions
(H x W x D):
310 x 270 x 270 mm

Part No. 649 30 02
(EAN No. 401560944566)

1 CEEtyp panel socket 5 x 32 A
2 CEEtyp panel sockets 5 x 16 A
4 Schuko sockets
2 MCBs 3 pole 16 A »C«
4 MCBs 1 pole 16 A »B«
1 CEEtyp appliance inlet 5 x 32 A

External dimensions (H x W x D):
310 x 270 x 270 mm

Part No. 649 31 08
(EAN No. 4015609129362)

2 CEEtyp panel sockets 5 x 32 A
2 CEEtyp panel sockets 5 x 16 A
2 Schuko sockets
2 MCBs 3 pole 16 A »C«
1 MCB 1 pole 16 A »B«
1 RCD 4 pole 40A,
$I_{\Delta n}$ = 0.03 A
1 CEEtyp appliance inlet 5 x 32 A

External dimensions (H x W x D):
310 x 270 x 270 mm

Part No. 649 33 09
(EAN No. 401560944719)

2 CEEtyp panel sockets 5 x 32 A
2 CEEtyp panel sockets 5 x 16 A
8 Schuko sockets
2 MCBs 3 pole 32 A »C«
2 MCBs 3 pole 16 A »C«
4 MCBs 1 pole 16 A »B«
1 RCD 4 pole 63A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G16
with CEEtyp plug 5 x 63 A

External dimensions (H x W x D):
450 x 270 x 270 mm

Tower version
Part No. 649 33 04
(EAN No. 401560969149)

1 CEEtyp panel socket 5 x 63 A
2 CEEtyp panel sockets 5 x 32 A
2 CEEtyp panel sockets 5 x 16 A
4 Schuko sockets
2 MCBs 3 pole 32 A »C«
2 MCBs 3 pole 16 A »C«
4 MCBs 1 pole 16 A »B«
1 RCD 4 pole 63A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G16
with CEEtyp plug 5 x 63 A

External dimensions (H x W x D):
450 x 270 x 270 mm

Tower version
Part No. 649 54 04
(EAN No. 401560944757)

Other versions of combination units according to your requirements on request.

CEEtyp sockets: IEC/EN 60 309-1,2 / Schuko sockets: DIN 49 440
Available in compliance with French, Belgian, Danish, British, Swiss and other national standards on request.
Completely wired, plastic enclosed, IP 44.

Solid rubber wall mounting distribution units, enclosures 646 / 647

2 CEEtyp panel sockets 5 x 16 A
6 Schuko sockets
unfused, wired on terminal blocks
1 M 32 cable gland on top
1 M 32 blanking plug on bottom

External dimensions (H x W x D):
370 x 280 x 130 mm

Part No. 646 02 01
(EAN No. 4015609247783)

2 CEEtyp panel sockets 5 x 16 A
3 Schuko sockets
2 MCBs 3 pole 16 A »C«
3 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 5 pole
1 M 32 cable gland on top
1 M 32 blanking plug on bottom

External dimensions (H x W x D):
370 x 248 x 190 mm

Part No. 647 02 01
(EAN No. 4015609122608)

1 CEEtyp panel sockets 5 x 32 A
1 CEEtyp panel sockets 5 x 16 A
3 Schuko sockets
1 MCB 3 pole 32 A »C«
1 MCB 3 pole 16 A »C«
3 MCBs 1 pole 16 A »B«
1 RCD 4 pole 63 A, $I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 5 pole
1 M 32 cable gland on top
1 M 32 blanking plug on bottom

External dimensions (H x W x D):
370 x 280 x 190 mm

Part No. 646 30 01
(EAN No. 4015609237425)

1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
3 Schuko sockets
1 MCB 3 pole 32 A »C«
1 MCB 3 pole 16 A »C«
3 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 5 pole
1 M 32 cable gland on top
1 M 32 blanking plug on bottom

External dimensions (H x W x D):
370 x 248 x 190 mm

Part No. 647 30 02
(EAN No. 401560944283)

stock item

Portable hard polyethylene distribution units, enclosures 654 / 656

2 CEEtyp panel sockets 5 x 16 A
3 Schuko sockets
1 RCD 4 pole 25 A,
$I_{\Delta n}$ = 0.03 A
1 CEEtyp appliance inlet 5 x 16 A

External dimensions (H x W x D):
199 x 210 x 252 mm

Part No. 654 02 02
(EAN No. 4015609185337)

2 CEEtyp panel sockets 5 x 16 A
4 Schuko sockets
2 MCBs 3 pole 16 A »C«
1 MCB 1 pole 16 A »B«
1 RCD 4 pole 40A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F5G6
with CEEtyp plug 5 x 32 A

Part No. 656 02 01
(EAN No. 4015609185344)

1 CEEtyp panel socket 5 x 32 A
2 CEEtyp panel sockets 5 x 16 A
3 Schuko sockets
2 MCBs 3 pole 16 A »C«
3 MCBs 1 pole 16 A »C«
2 m supply cable H07RN-F5G6
with CEEtyp plug
5 x 32 A

Part No. 656 31 01
(EAN No. 401560945211)

Other versions of combination units according to your requirements on request.

CEEtyp sockets: IEC/EN 60 309-1,2 / Schuko sockets: DIN 49 440
Available in compliance with French, Belgian, Danish, British, Swiss and other national standards on request.
Completely wired, plastic enclosed, IP 44.

Multiple extension outlet units, solid rubber, enclosures 640

3 CEEtyp panel sockets 3 x 16 A/4h
2 m supply cable H07RN-F3G2,5
with CEEtyp plug 3 x 16 A/4h

External dimensions (H x W x D):
323 x 95 x 72 mm

Part No. 640 07 01
(EAN No. 4015609185016)

1 transparent cover
(with space for 2.5 MCB below)
2 CEEtyp panel sockets 3 x 16 A/4h
1 RCD 2 pole 25 A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F3G2,5
with CEEtyp plug 3 x 16 A/4h

External dimensions (H x W x D):
323 x 95 x 72 mm

Part No. 640 07 02
(EAN No. 4015609185023)

1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
2 m supply cable H07RN-F5G2,5
with CEEtyp plug 5 x 16 A

External dimensions (H x W x D):
323 x 95 x 72 mm

Part No. 640 01 01
(EAN No. 4015609185009)

1 transparent cover
(with space for 2.5 MCB below)
1 CEEtyp panel socket 3 x 16 A
1 Schuko socket
1 RCD 2 pole 25 A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F3G2,5
with CEEtyp plug 3 x 16 A

External dimensions (H x W x D):
323 x 95 x 72 mm

Part No. 640 10 01
(EAN No. 4015609185030)

3 Schuko sockets
2 m supply cable H07RN-F3G1,5
with solid rubber Schuko plug

External dimensions (H x W x D):
323 x 95 x 72 mm

Part No. 640 00 01
(EAN No. 4015609184989)

1 transparent cover
(with space for 2.5 MCB below)
2 Schuko sockets
1 RCD 2 pole 25 A, $I_{\Delta n}$ = 0.03 A
2 m supply cable H07RN-F3G1,5
with solid rubber Schuko plug

External dimensions (H x W x D):
323 x 95 x 72 mm

Part No. 640 00 02
(EAN No. 4015609184996)

Other versions of combination units according to your requirements on request.

Combination units in stainless steel pillars

CEEtyp sockets: IEC/EN 60 309-1,2 / Schuko sockets: DIN 49 440
Available in compliance with French, Belgian, Danish, British, Swiss and other national standards on request.
Completely wired, plastic enclosed, IP 44.

Width: 220 mm

The pillars are made of stainless steel, material 1.4301.

Four fixing holes in the base for ground fixing.

The supply cables are covered and thus protected.

Special sizes and RAL-varnishes are available on request.

Part No.:	for combination units:
620 99 12	**691,692, 693, 696** & **697** EAN No. 4015609364558
620 99 15	**694** and **695** EAN No. 4015609364572
620 99 18	**698** EAN No. 4015609364589
620 99 19	**699** EAN No. 4015609364596

Part No.:	for combination units:
620 99 22	**681,682, 686** and **687** EAN No. 4015609390144
620 99 29	**689** EAN No. 4015609390151
620 99 46	**646** EAN No. 4015609390168
620 99 47	**647** EAN No. 4015609390175

Width: 330 mm

1 Stainless steel pillar, narrow, equipped with:
1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
1 MCB 3 pole 16 A »C«
2 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A

Part No. 692 01 30 ES
(EAN No. 4015609412501)

1 Stainless steel pillar, wide, equipped with:
1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
4 Schuko sockets
1 MCB 3 pole 32 A »C«
1 MCB 3 pole 16 A »C«
4 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 10-5 pole

Part No. 682 30 01 ES
(EAN No. 4015609291960)

1 Stainless steel pillar, narrow, equipped with:
1 CEEtyp panel socket 5 x 32 A
4 Schuko sockets
1 MCB 3 pole 32 A »C«
2 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 10 pole

Part No. 698 11 01 ES
(EAN No. 4015609291939)

1 Stainless steel pillar, wide, equipped with:
1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
3 Schuko sockets
1 MCB 3 pole 32 A »C«
1 MCB 3 pole 16 A »C«
3 MCBs 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 5 pole

Part No. 647 30 02 ES
(EAN No. 4015609291984)

1 Stainless steel pillar, narrow, equipped with:
3 CEEtyp panel sockets 5 x 16 A
2 Schuko sockets
3 MCBs 3 pole 16 A »C«
2 MCBs 1 pole 16 A »B«
1 RCD 4 pole 63 A, $I_{\Delta n}$ = 0.03 A
1 terminal block set K 25, 5 pole

Part No. 699 03 01 ES
(EAN No. 4015609291953)

For orders:

If you want to order a combination unit which is not listed here in a stainless steel pillar, please simply add the letters „**ES**“ after the part number.

For example: 682 02 05 **ES**

Other configurations on request.

Other versions of combination units according to your requirements on request.

Stainless steel distribution cabinets

CEEtyp sockets: IEC/EN 60 309-1,2 / Schuko sockets: DIN 49 440
Available in compliance with French, Belgian, Danish, British, Swiss and other national standards on request.
Completely wired, plastic enclosed, IP 44. **Distribution cabinets made of brushed stainless steel (material 1.4301).**

For **flush mounting** installation

- Door lockable with profile half cylinder. Standard locking G2123 (Profile half cylinder with rain protection cap & plastic rimlock)
- Can be equipped with Schuko sockets & CEE sockets up to 32 A
- 3 x top cable entry, 2 x bottom cable entry with grommets

Built-in width:
up to **9 MCB**
module units

External dimensions
(H x W x D):
590 x 315 x 210 mm

1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
1 MCB 3 pole 16 A »C«
2 MCB 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A

Part No. 6UP 01 30
(EAN No. 4015609351985)

1 CEEtyp panel socket 5 x 16 A
4 Schuko sockets
1 MCB 3 pole 16 A »C«
4 MCB 1 pole 16 A »B«
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A
External dimensions (H x W x D):
590 x 420 x 210 mm

Part No. 6UP 01 01
(EAN No. 4015609351992)

Built-in width:
up to **15 MCB** module units

1 CEEtyp panel socket 5 x 32 A
1 CEEtyp panel socket 5 x 16 A
2 Schuko sockets
1 MCB 3 pole 32 A »C«
1 MCB 3 pole 16 A »C«
2 MCB 1 pole 16 A »B«
1 RCD 4 pole 63 A, $I_{\Delta n}$ = 0.03 A
External dimensions (H x W x D):
590 x 420 x 210 mm

Part No. 6UP 30 07
(EAN No. 4015609352005)

For **surface mounting** installation.

- Door lockable by locking cylinder with rotary interlocking bolt
- Can be equipped with Schuko sockets and CEE sockets up to 32 A
- 2 bottom cable entries with grommets

Built-in width:
up to **8 MCB**
module units

2 Schuko sockets
2 MCB 1 pole 16 A »B«
1 RCD 2 pole 25 A,
$I_{\Delta n}$ = 0.03 A

Part No. 6A2 00 01
(EAN No. 4015609389919)

1 CEEtyp panel socket 5 x 16 A
1 Schuko socket
1 MCB 3 pole 16 A »C«
1 MCB 1 pole 16 A »B«
1 RCD 4 pole 40 A,
$I_{\Delta n}$ = 0.03 A

Part No. 6A2 01 01
(EAN No. 4015609389926)

1 CEEtyp panel socket 5 x 32 A
1 Schuko socket
1 MCB 3 pole 32 A »C«
1 MCB 1 pole 16 A »B«
1 RCD 4 pole 40 A,
$I_{\Delta n}$ = 0.03 A

Part No. 6A2 11 01
(EAN No. 4015609389933)

Other versions of combination units according to your requirements on request.

Free choice of components ...

- Wall mounted, only with canopy
- Mounted on a post, with canopy and back plate
- Back plate with or without side panels
- Complete with stand, back plate or canopy
- Turquoise, signal orange or mixed colours
- Standard steel, stainless steel or mixed
- With or without mounting bracket with pressure air valve

... for utmost price flexibility

Wall mounting combination unit with canopy

Mounted on a post

Description		Dimensions H x W x D (mm)	Stainless steel, turquoise Part No.	g	EAN-No. 4015609...
Complete units				1	
for combination: 646		1474 x 300 x 50	**620WL46ET**	9410	342617
647		1474 x 300 x 150	**620WL47ET**	8990	344475
648		1433 x 350 x 170	**620WL48ET**	12650	344499
657 - 659		1381 x 300 x 150	**620WL59ET**	9440	344383
681 - 682		1518 x 385 x 220	**620WL82ET**	17620	344451
689		1769 x 385 x 220	**620WL89ET**	21580	344468
691 - 692		1409 x 300 x 200	**620WL92ET**	10760	344413
694 - 695		1648 x 300 x 200	**620WL95ET**	13520	344420
698		1542 x 300 x 200	**620WL98ET**	12340	344437
699		1689 x 300 x 200	**620WL99ET**	17200	344444
Unit heads				1	
for combination: 657 - 659		417 x 221 x 170	**620WL59ETK**	4120	344390
681 - 682		710 x 385 x 220	**620WL82ETK**	10320	344543
689		961 x 385 x 220	**620WL89ETK**	14280	344567
691 - 692		505 x 278 x 200	**620WL92ETK**	5440	344406
694 - 695		743 x 278 x 200	**620WL95ETK**	8200	344512
698		638 x 278 x 200	**620WL98ETK**	7020	344529
699		880 x 278 x 200	**620WL99ETK**	9900	344536
Stands				1	
Stand 60 x 40 with mounted threaded plate		1000 x 300 x 150	**620WL01ET**	5320	287666
Stand 60 x 60 with mounted threaded plate		900 x 300 x 170	**620WL02ET**	7300	292578
Back plates				1	
for combination: 646	 without side panels	571 x 285 x 24	**620WL18ET**	4090	345014
647		571 x 253 x 24	**620WL19ET**	3670	345021
648		625 x 350 x 24	**620WL20ET**	5350	345038
657 - 659	 with side panels	417 x 133 x 133	**620WL11ET**	3400	297795
681 - 682		710 x 300 x 184	**620WL16ET**	8640	297863
689		961 x 300 x 184	**620WL17ET**	12600	297870
691 - 692		505 x 193 x 164	**620WL12ET**	4360	297801
694 - 695		743 x 193 x 164	**620WL13ET**	7120	297832
698		638 x 193 x 164	**620WL14ET**	5940	297849
699		880 x 193 x 164	**620WL15ET**	8820	297856
Canopies				1	
for combination: series 657 - 659		170 x 221 x 170	**620WL31ET**	720	297887
series 680		190 x 385 x 220	**620WL33ET**	1680	297900
series 690		190 x 278 x 200	**620WL32ET**	1080	297894

1) = material = standard steel 2) = unvarnished; material = stainless steel 3) = further sizes on request

CEEtyp sockets: IEC/EN 60 309-1,2 / Schuko sockets: DIN 49 440
Available in compliance with French, Belgian, Danish, British, Swiss and other national standards on request.
Completely wired, plastic enclosed, IP 44.

1 Suspension combination unit with suspension eye hook and 2 M25 cable glands (with multiple gland) and yellow handle at the bottom
2 Schuko sockets
2 Schuko sockets
1 Partition wall
1 TMCB junction box NF
1 UMCB junction box CAT. 5 8 UP OK

Protection degree IP 00

Weight: 1.6 kg

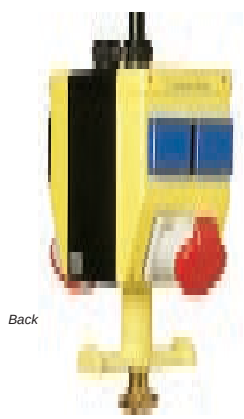
Part No. 6H0 88 01
(EAN No. 4015609 347735)

1 Suspension combination unit with transparent cover 4.5 MCB with suspension eye hook and with M25 cable gland and yellow handle at the bottom
1 CEE panel socket 5 x 16 A
6 Schuko sockets
1 RCD 4 pole 40 A, $I_{\Delta n}$ = 0.03 A

Weight: 2.3 kg

Part No. 6H1 01 01
(EAN No. 4015609 347797)

1 Suspension combination unit with transparent cover 4.5 TE with suspension eye hook and with M25 cable gland and yellow handle
1 CEE panel socket 5 x 32 A
1 CEE panel socket 5 x 16 A
2 Schuko sockets
1 MCB 3 pole 16 A »C«
1 MCB 1 pole 16 A »B«
1 m tube 3/8“ and two-way distributor 3/8“ for pressure air



Weight: 3.4 kg

Part No. 6H1 30 01 LA
(EAN No. 4015609 347728)

1 Suspension combination unit with 2 transparent covers 4.5 MCB with suspension eye hook and with M25 cable gland and yellow handle at the bottom
1 CEE panel socket 5 x 32 A
1 CEE panel socket 5 x 16 A
2 Schuko sockets
1 MCB 3 pole 16 A »C«
1 MCB 1 pole 16 A »B«
1 RCD 4 pole 40 A $I_{\Delta n}$ = 0.03 A
1 m tube 3/8“ and two-way distributor 3/8“ or pressure air

Weight: 4.0 kg

Part No. 6H2 30 02 LA
(EAN No. 4015609 347827)

Other versions of combination units according to your requirements on request.

Single-row, 4.5 MCB module units
1 MCB = 18 mm = 81 mm altogether

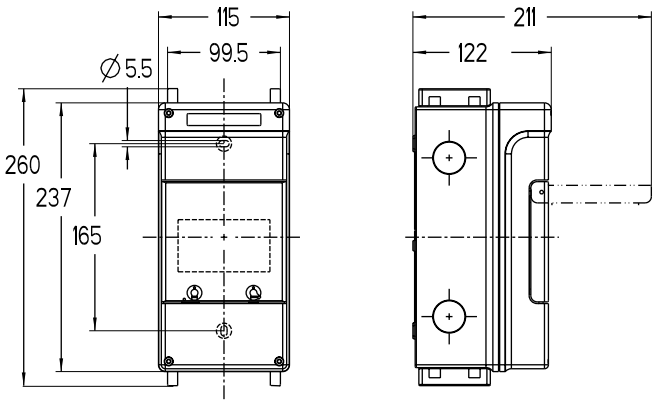
Consumer boxes, single-row

Consumer boxes 4.5 MCB

Plastic polystyrene, grey, RAL 7035
Rated voltage AC 230/400V
Transparent cover with locking facility, opens upwards

Internally fitted with:
DIN-rails for built-in devices with snap mounting
2 x 5 pole PE/N terminal blocks

For horizontal flanging connecting studs are available for the protection degrees IP 54 or IP 65



Description	IP	Part No.		1 / g	EAN-No. 4015609...
Cable entries with double membrane seals on enclosure top and bottom					
Standard	**IP 65**	**IV 104 15**		686	232079
Transparent cover without seal	IP 41	IV 104 151		680	232086
Includes: Assembly instructions Labeling strips Sealing plugs Cover plate					
Knock-out cable entries on enclosure top and bottom					
Complete cable glands	IP 65				
Grommets	**IP 54**	**IV 104 26**		593	232093
Transparent cover without seal	IP 41	IV 104 261		587	232109
Includes: Assembly instructions Labeling strips Grommets (3 x M 20)					

Single-row, 13 MCB module units
1 MCB = 18 mm = 234 mm altogether

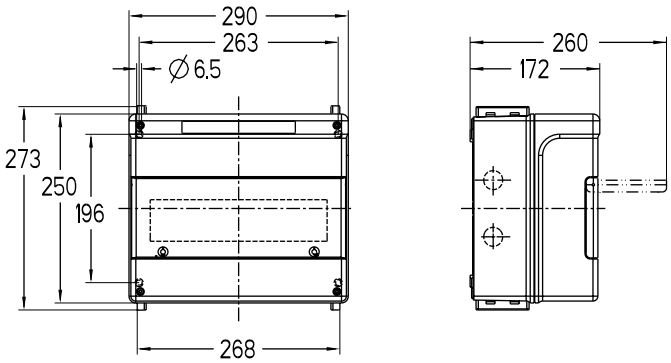
Consumer boxes, single-row

Consumer boxes 13 MCB

Plastic polystyrene, grey RAL 7035
Rated voltage AC 230/400V
Transparent cover with locking facility, opens upwards

Internally fitted with:
DIN-rails for built-in devices with
snap mounting
2 x 17 pole PE/N terminal blocks
N-terminal, can be divided with tool as required

For horizontal flanging connecting studs are available for protection degree IP 54 or IP 65



The four fixing holes are located outside the sealing area.

Description	IP	Part No.		1 / g	EAN-No. 4015609...
Cable entries with double membrane seals on top and bottom					
Standard	**IP 65**	**IV 113 15**		2174	232314
Transparent cover without seal	IP 41	IV 113 151		2160	232321
Includes: Assembly instructions Labeling strips Cover strip for mounting space Sealing plugs Cover plate					
Knock-out cable entries on top and bottom					
Complete cable glands, protection degree	IP 65				
Grommets	**IP 54**	**IV 113 26**		1884	232338
Transparent cover without seal	IP 41	IV 113 261		1870	232345
Includes: Assembly instructions Labeling strips Cover strip for mounting space Grommets 1 x M 32/40, 2 x M 25, 6 x M 20					
Flange opening on top and bottom for vertical flanging					
Standard	IP 65	**IV 113 48**		1800	232352
Transparent cover without seal	IP 41	IV 113 481		1786	232369
Includes: Assembly instructions Labeling strips Cover strip for mounting space					
Please order separately: 2 ea. flange frame sets					

2-row, 26 MCB module units
1 MCB = 18 mm = 468 mm altogether

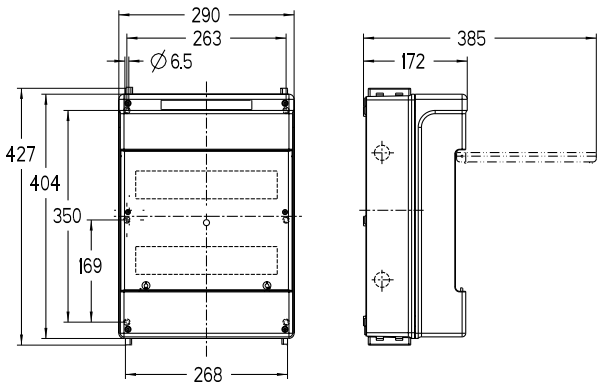
Consumer boxes, 2-row

Consumer boxes 26 MCB

Plastic polystyrene, grey RAL 7035
Rated voltage AC 230/400V
Transparent cover with locking facility, opens upwards

Internally fitted with:
DIN-rails for built-in devices with
snap mounting
2 x 17 pole PE/N terminal blocks
N-terminal, can be divided with tool as required

For horizontal flanging connecting studs are available for protection degree IP 54 or IP 65



The six fixing holes are located outside the sealing area.

Description	IP	Part No.		1 / g	EAN-No. 4015609...
Cable entries with double membrane seals on top and bottom					
Standard	**IP 65**	**IV 126 15**		1 3252	232642
Transparent cover without seal	IP 41	IV 126 151		3232	232659
Includes: Assembly instructions Labeling strips Cover strip for mounting space Sealing plugs Cover plate					
Knock-out cable entries on top and bottom					
Complete cable glands, protection degree	IP 65			1 2911	232666
Grommets	**IP 54**	**IV 126 26**		2891	232673
Transparent cover without seal	IP 41	IV 126 261			
Includes: Assembly instructions Labeling strips Cover strip for mounting space Grommets 1 x M 32/40, 2 x M 25, 6 x M 20					
Flange opening on top and bottom for vertical flanging					
Standard	IP 65	**IV 126 48**		1 2845	232680
Transparent cover without seal	IP 41	IV 126 481		2825	232697
Includes: Assembly instructions Labeling strips Cover strip for mounting space					
Please order separately: 2 ea. flange frame sets					

3-row, 39 MCB module units
1 MCB = 18 mm = 702 mm altogether

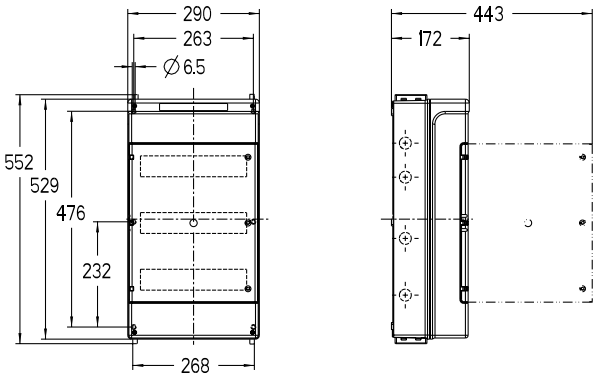
Consumer boxes, 3-row

Consumer boxes 39 MCB

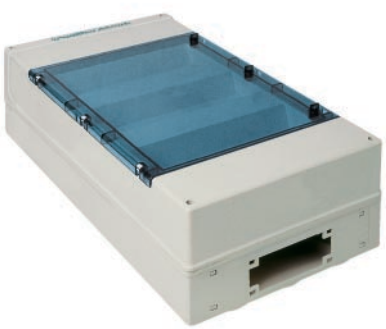
Plastic polystyrene, grey RAL 7035
Rated voltage AC 230/400V
Transparent cover with locking facility
opens to the left, alternatively to the right

Internally fitted with:
DIN-rails for built-in devices with
snap mounting
4 x 17 pole PE/N terminal blocks
N-terminal, can be divided with tool as required

For horizontal flanging connecting studs are available for protection degree IP 54 or IP 65



The six fixing holes are located outside the sealing area.

	IP	Part No.		g	EAN-No. 4015609...
Cable entries with double membrane seals on top and bottom					
Standard	**IP 65**	**IV 139 15**		1	
				3680	232963
Transparent cover without seal	IP 41	IV 139 151		3650	232970
Includes: Assembly instructions Labeling strips Cover strip for mounting space Sealing plugs Cover plate					
Knock-out cable entries on top and bottom					
Complete cable glands, protection degree	IP 65				
Grommets	**IP 54**	**IV 139 26**		1	
				3338	232987
Transparent cover without seal	IP 41	IV 139 261		3308	232994
Includes: Assembly instructions Labeling strips Cover strip for mounting space Grommets 1 x M 32/40, 2 x M 25, 6 x M 20					
Flange opening on top and bottom for vertical flanging					
Standard	IP 65	**IV 139 48**		1	
				3258	233007
Transparent cover without seal	IP 41	IV 139 481		3228	233014
Includes: Assembly instructions Labeling strips Cover strip for mounting space					
Please order separately: 2 ea. flange frame sets					

4-row, 52 MCB module units
1 MCB = 18 mm = 936 mm altogether

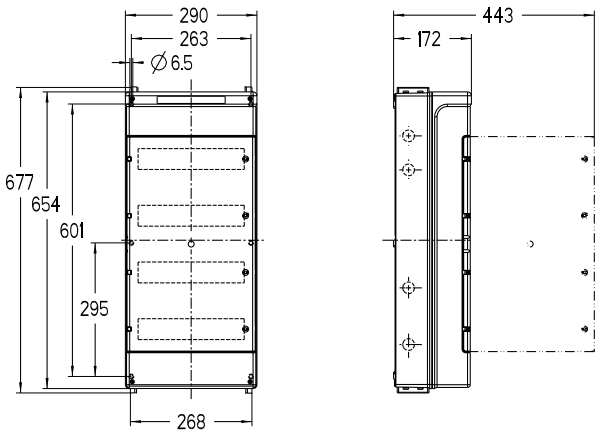
Consumer boxes, 4-row

Consumer boxes 52 MCB

Plastic polystyrene, grey RAL 7035
Rated voltage AC 230/400V
Transparent cover with locking facility
opens to the left, alternatively to the right

Internally fitted with:
DIN-rails for built-in devices with
snap mounting
4 x 17 pole PE/N terminal blocks
N-terminal, can be divided with tool as required

For horizontal flanging connecting studs are available for protection degree IP 54 or IP 65



The six fixing holes are located outside the sealing area.

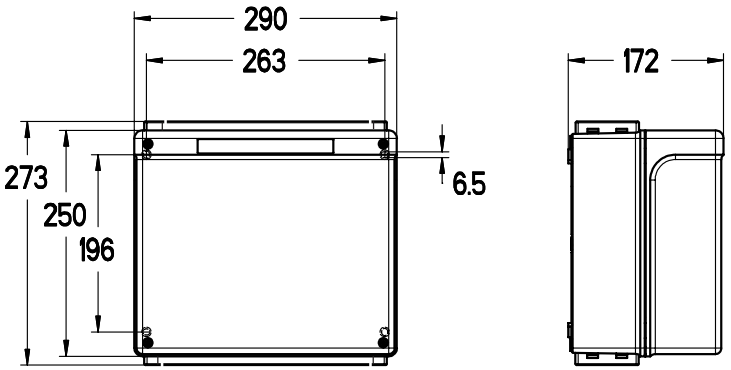
Description	IP	Artikel-Nr.		g	EAN-No. 4015609...
Cable entries with double membrane seals on top and bottom				1 4670	233281 233298
Standard	**IP 65**	**IV 152 15**			
Transparent cover without seal	IP 41	IV 152 151			
Includes: Assembly instructions Labeling strips Cover strip for mounting space Sealing plugs Cover plate					
Knock-out cable entries on top and bottom				1 4381 4341	233304 233311
Complete cable glands, protection degree	IP 65				
Grommets	**IP 54**	**IV 152 26**			
Transparent cover without seal	IP 41	IV 152 261			
Includes: Assembly instructions Labeling strips Cover strip for mounting space Grommets 1 x M 32/40, 2 x M 25, 6 x M 20					
Flange opening on top and bottom for vertical flanging				1 4174 4134	233328 233335
Standard	IP 65	**IV 152 48**			
Transparent cover without seal	IP 41	IV 152 481			
Includes: Assembly instructions Labeling strips Cover strip for mounting space					
Please order separately: 2 ea. flange frame sets					

Terminal boxes IK 13

Plastic polystyrene, grey RAL 7035
Rated voltage AC 230/400V

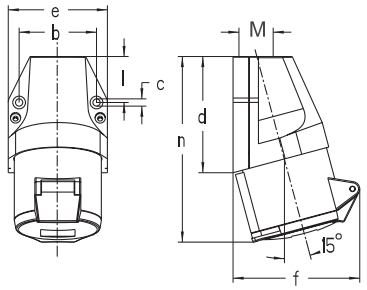
Internally fitted with:
DIN-rails for built-in devices with snap mounting

For horizontal flanging connecting studs are available for protection degree IP 54 or IP 65



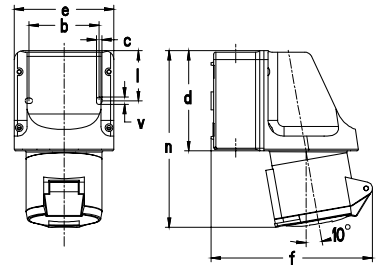
The four fixing holes are located outside the sealing area.

Description	IP	Part No.		1 / g	EAN-No. 4015609...
Cable entries with double membrane seals on top and bottom **Standard** **Includes:** Sealing plugs Cover plate	**IP 65**	**IK 113 15**		1 2068	234240
Knock-out cable entries on top and bottom Complete cable glands, protection degree **Grommets** **Includes:** Grommets 1 x M 32/40, 2 x M 25, 6 x M 20	IP 65 **IP 54**	**IK 113 26**		1 1772	234257
Flange opening on top and bottom for vertical flanging **Standard** Please order separately: 2 ea. flange frame sets	IP 65	**IK 113 48**		1 1695	234264



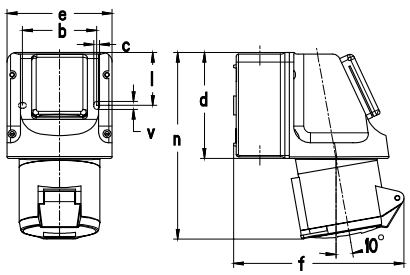
Amp.	16			32		
Pole	3	4	5	3	4	5
b	45.5	60	60	60	60	60
c	5.3	5.3	5.3	5.3	5.3	5.3
d	74	80	80	97	97	97
e	60	74	74	82	82	82
f	75	86	90	103	103	105
l	28	31	31	45	45	45
n	120	128	129	154	154	155
M	20	20	20	25	25	25

Page 10, item 1 *110, 130 etc.*



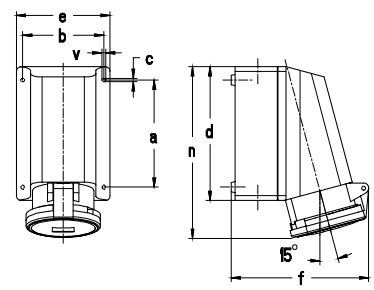
Amp.	16			32		
Pole	3	4	5	3	4	5
b	66.5	66.5	66.5	66.5	66.5	66.5
c	5	5	5	5	5	5
d	96	96	96	96	96	96
e	95	95	95	95	95	95
f	140	143	146	154	154	157
l	47.5	47.5	47.5	47.5	47.5	47.5
n	160	164	164	173	173	173
v	7	7	7	7	7	7
M	20/25	20/25	20/25	20/25	20/25	20/25

Page 10, item 2 *111, 131 etc.*



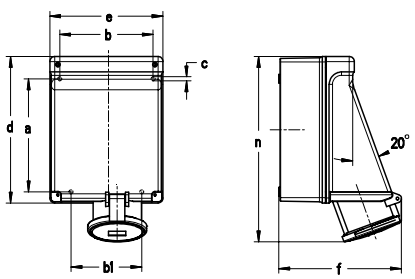
Amp.	16		32	
Pole	3	5	3	5
b	66.5	66.5	66.5	66.5
c	5	5	5	5
d	96	96	96	96
e	95	95	95	95
f	140	146	154	157
l	47.5	47.5	47.5	47.5
n	160	164	173	173
v	7	7	7	7
M	20/25	20/25	20/25	20/25

Page 10, item 3 *114, 115 etc.*



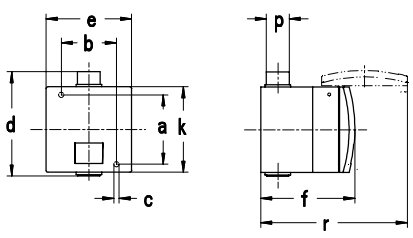
Amp.	63		
Pole	3	4	5
a	136	136	136
b	104	104	104
c	4.2	4.2	4.2
d	172	172	172
e	121	121	121
f	178	178	178
n	220	220	220
v	5	5	5
M	32	32	32

Page 10, item 4 *161 etc.*



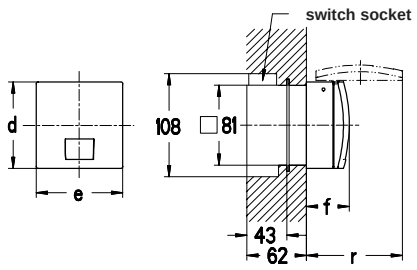
Amp.	63		
Pole	3	4	5
a	183	183	183
b	151	151	151
b1	114	114	114
c	6.5	6.5	6.5
d	237	237	237
e	183	183	183
f	196	196	196
n	302	302	302
M	25/32	25/32	25/32

Page 10, item 5 *163 etc.*

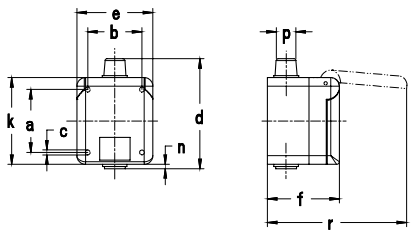


Amp.	16			32		
Pole	3	4	5	3	4	5
a	73	73	73	73	73	73
b	58	58	58	58	58	58
c	5.5	5.5	5.5	5.5	5.5	5.5
d	114	114	114	114	114	114
e	90	90	90	90	90	90
f	92	92	92	98	98	98
k	90	90	90	90	90	90
p	8/20	8/20	8/20	8/20	8/20	8/20
r	150	150	150	160	160	160

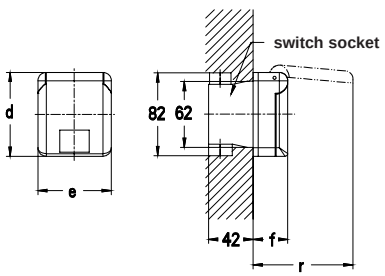
Page 11, item 1 *116, 136 etc.*



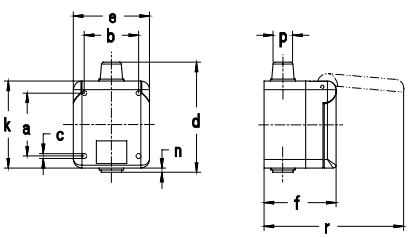
Page 11, item 2 *436 etc.*



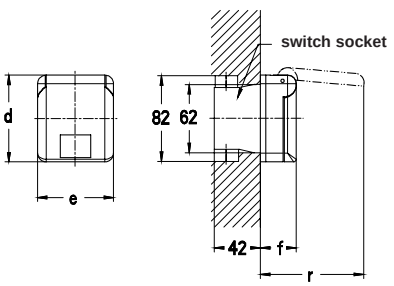
Page 11, item 3 *117306 etc.*



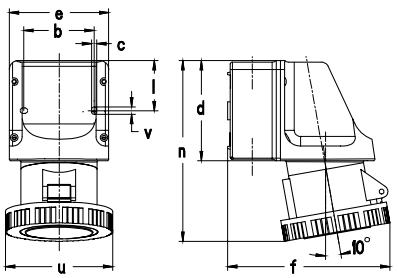
Page 11, item 4 *418306 etc.*



Page 11, item 5 *10 007*

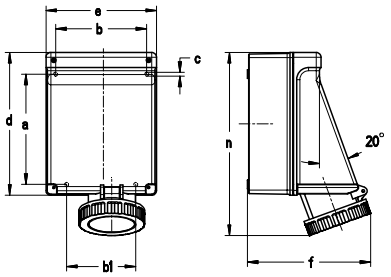


Page 11, item 6 *10 008*



Page 12, item 1 *119, 139 etc.*

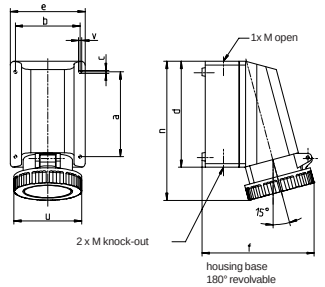
Amp.	32		
Pole	3	4	5
d	90	90	90
e	90	90	90
f	45	45	45
r	104	104	104



Amp.	63		
Pole	3	4	5
a	183	183	183
b	151	151	151
b1	114	114	114
c	6.5	6.5	6.5
d	237	237	237
e	183	183	183
f	209	209	209
n	309	309	309
M	25/32	25/32	25/32

Page 12, item 2 *168 etc.*

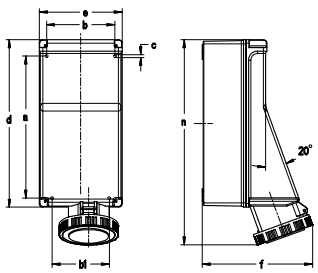
Amp.	16
Pole	3
a	58
b	50
c	4.5
d	98
e	70
f	68
k	80
n	5
p	7/17.5
r	130



Amp.	63		
Pole	3	4	5
a	136	136	136
b	104	104	104
c	4.2	4.2	4.2
d	172	172	172
e	121	121	121
f	178	178	178
n	224	224	224
u	110	110	110
v	5	5	5
M	32	32	32

Page 12, item 3 *169 etc.*

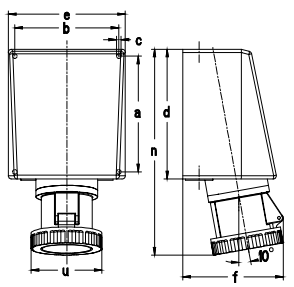
Amp.	16
Pole	3
d	80
e	70
f	33
r	96



Amp.	125		
Pole	3	4	5
a	316	316	316
b	151	151	151
b1	126	126	126
c	6.5	6.5	6.5
d	370	370	370
e	183	183	183
f	243	243	243
n	450	450	450
M	40	40	40

Page 12, item 4 *178 etc.*

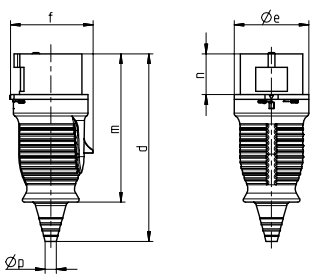
Amp.	16
Pole	2
a	58
b	50
c	4.5
d	98
e	70
f	68
k	80
n	5
p	7/17.5
r	130



Amp.	125		
Pole	3	4	5
a	240	240	240
b	200	200	200
c	7	7	7
d	263	263	263
e	220	220	220
f	190	190	190
n	406	406	406
u	130	130	130
M 1	50/20	50/20	50/20
M 2	40	40	40

Page 12, item 5 *179 etc.*

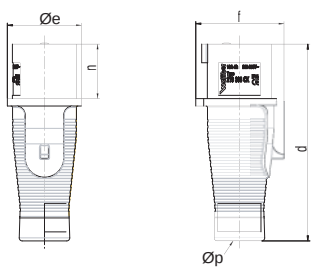
Amp.	32
Pole	4
d	80
e	70
f	33
r	96



Amp.	16
Pole	5
d	168
Øe	67
f	75
m	133
Øp	8/21

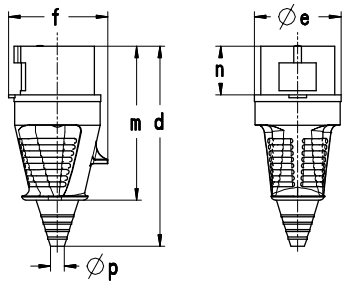
Page 13, item 1 *210 SL*

Amp.	16			32		
Pole	3	4	5	3	4	5
b	66.5	66.5	66.5	66.5	66.5	66.5
c	5	5	5	5	5	5
d	96	96	96	96	96	96
e	95	95	95	95	95	95
f	140	144	147	154	156	156
l	47.5	47.5	47.5	47.5	47.5	47.5
n	164	164	164	176	176	176
u	72	81	88	96	96	103
v	7	7	7	7	7	7
M	20/25	20/25	20/25	20/25	20/25	20/25



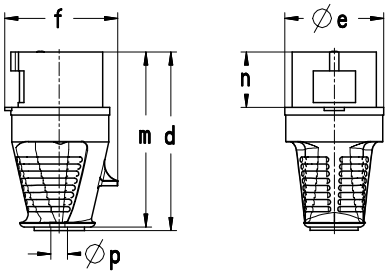
Amp.	16
Pole	3
d	133
Øe	50
f	59
n	37
Øp	7/13

Page 13, item 2 *210 306 CK*



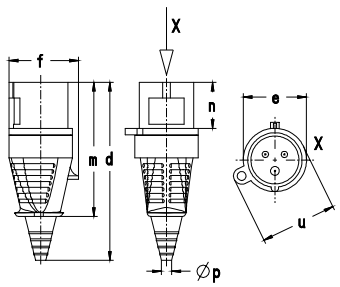
Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
d	143	147	153	181	181	181	252	252	252
Øe	51	58	65	72	72	72	81	81	81
f	60	68	75	79	79	88	97	97	97
m	108	112	117	138	138	138	192	192	192
n	37	37	37	46	46	46	67	67	67
Øp	7/13	8/21	8/21	11/24	11/24	11/24	15/33	15/33	15/33

Page 13, item 3 *210, 230, 260 etc.*



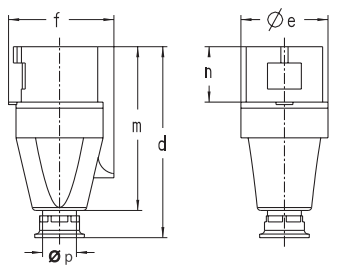
Amp.	16
Pole	3
d	111
Øe	51
f	60
m	108
n	37
Øp	8/15

Page 13, item 4a *215 306 etc.*



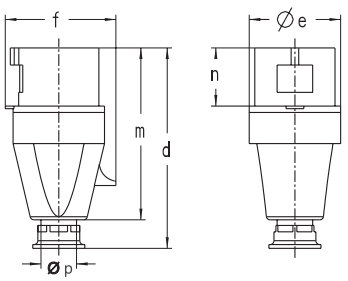
Amp.	16
Pole	3
d	143
e	51
f	60
m	108
n	37
Øp	7/13
u	61

Page 13, item 4b *212 306 etc.*



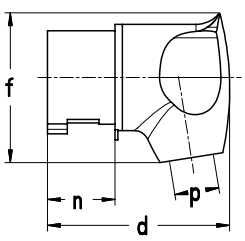
Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
d	123	131	131	155	155	155	240	240	240
Øe	51	65	65	73	73	73	81	81	81
f	60	68	75	79	79	88	97	97	97
m	118	112	112	133	133	133	192	192	192
n	37	37	37	46	46	46	67	67	67
Øp	7.5-14.5	7.5-14.5	7.5-14.5	10-19.5	10-19.5	10-19.5	18-34.5	18-34.5	18-34.5

Page 13, item 5 *211, 231, 261 etc.*



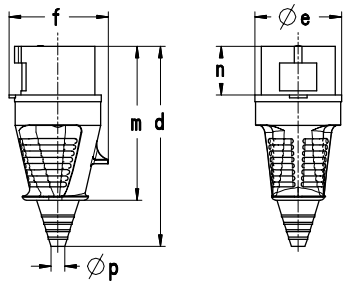
Amp.	16	32
Pole	5	5
d	131	155
Øe	65	73
f	75	88
m	112	133
n	37	46
Øp	10-19.5	18-24.5

Page 13, item 6 *212, 232*

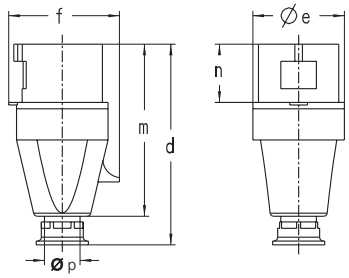


Amp.	16			32		
Pole	3	4	5	3	4	5
d	85	98	98	115	115	115
e	50.3	64.3	64.3	72	72	72
f	70	86	86	96	96	100
n	37	37	37	45.8	45.8	45.8
p	8/15	10/16.5	10/16.5	11/22	11/22	11/22

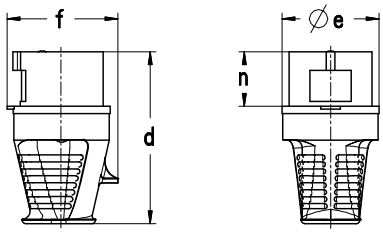
Page 14, item 1 *216, 236*



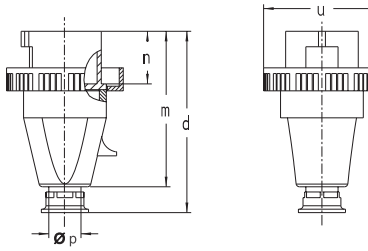
Page 14, item 2 *210 PH, 230 PH*



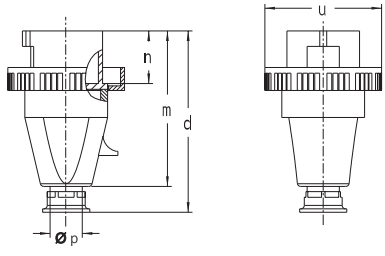
Page 14, item 3 *211 PH, 231 PH*



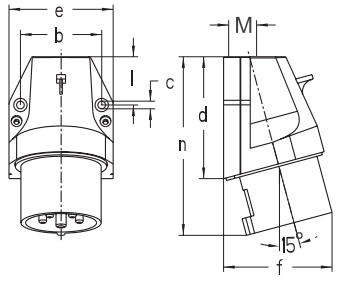
Page 14, item 4 *230 DF etc.*



Page 14, item 5 *219, 239 etc.*

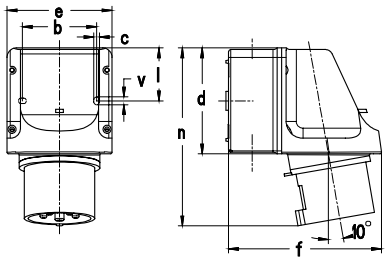


Page 14, item 6 *269, 279 etc.*



Page 15, item 1 *610, 630 etc.*

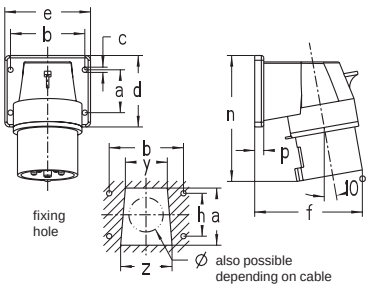
Amp.	16	32
Pole	5	5
d	153	181
Øe	65	72
f	75	88
m	117	138
n	37	46
Øp	8/21	11/24



Amp.	16		32		
Pole	4	5	3	4	5
b	66.5	66.5	66.5	66.5	66.5
c	5	5	5	5	5
d	96	96	96	96	96
e	95	95	95	95	95
f	140	140	140	140	140
l	47.5	47.5	47.5	47.5	47.5
n	151	151	160	160	160
v	7	7	7	7	7
M	20/25	20/25	20/25	20/25	20/25

Page 15, item 2 *616, 636 etc.*

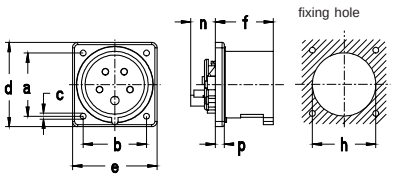
Amp.	16	32
Pole	5	5
d	131	155
Øe	65	73
f	75	88
m	112	133
n	37	46
Øp	7.5 -14.5	10 -19.5



Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	30	40	40	45	45	45	90	90	90
b	55	68	68	78	78	78	90	90	90
c	5.5	5.5	5.5	5.5	5.5	5.5	6.2	6.2	6.2
d	52	66	66	75	75	75	114	114	114
e	65	80	80	90	90	90	114	114	114
f	72	90	92	103	103	103	116	116	116
h	38	52	52	60	60	60	70	70	70
n	97	110	110	129	129	129	185	185	185
p	9.5	9.5	9.5	9.5	9.5	9.5	6	6	6
y	30	38	38	44	44	44	56	56	56
z	36	46	46	54	54	54	65	65	65

Page 15, item 3 *611, 631 etc.*

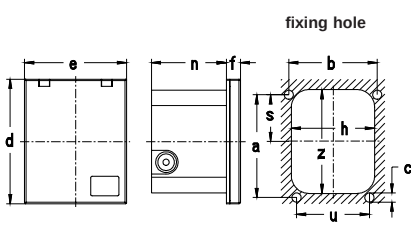
Amp.	16		32		63	
Pole	4	5	4	5	4	5
d	65	65	155	72	240	81
Øe	58	65	72	72	81	81
f	68	75	79	88	97	97
n	37	37	46	46	67	67



Amp.	16			32		
Pole	3	4	5	3	4	5
a	47	60	60	60	60	60
b	47	60	60	60	60	60
c	5.5	5.5	5.5	5.5	5.5	5.5
d	62	80	80	80	80	80
e	62	80	80	80	80	80
f	47	47	47	56	56	56
h	50	67	67	71	71	71
n	22	22	22	22	22	22
p	8.5	8.5	8.5	8.5	8.5	8.5

Page 15, item 4 *615, 635 etc.*

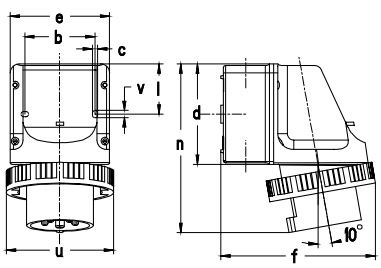
Amp.	16			32		
Pole	3	4	5	3	4	5
d	126	132	132	156	156	156
m	110	114	114	135	135	135
n	37	37	37	46	46	46
u	72	81	88	96	96	103
Øp	7.5-14.5	7.5-14.5	7.5-14.5	10-19.5	10-19.5	10-19.5



Amp.	16
Pole	3
a	99
b	85
c	4.4
d	120
e	98
f	15
h	80
n	72
p	8/13
r	17
s	45
u	70
z	100

Page 15, item 5 *612 306 etc.*

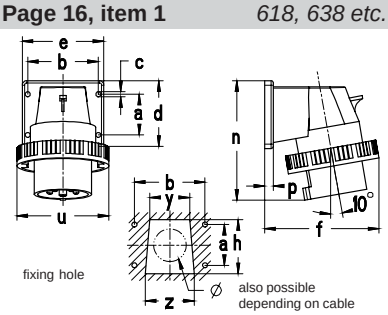
Amp.	63			125		
Pole	3	4	5	3	4	5
d	243	243	243	315	315	315
m	195	195	195	258	258	258
n	67	67	67	75.5	75.5	75.5
u	110	110	110	130	130	130
Øp	18-35	18-35	18-35	24-45	24-45	24-45



Amp.	16			32		
Pole	3	4	5	3	4	5
b	66.5	66.5	66.5	66.5	66.5	66.5
c	5	5	5	5	5	5
d	96	96	96	96	96	96
e	95	95	95	95	95	95
f	140	140	140	147	147	150
l	47.5	47.5	47.5	47.5	47.5	47.5
n	154	154	154	164	164	164
u	72	81	88	96	96	103
v	7	7	7	7	7	7
M	20/25	20/25	20/25	20/25	20/25	20/25

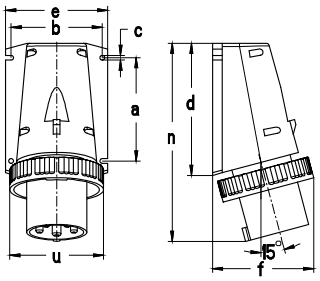
Page 16, item 1 *618, 638 etc.*

Amp.	16			32		
Pole	3	4	5	3	4	5
b	45.5	60	60	60	60	60
c	5.3	5.3	5.3	5.3	5.3	5.3
d	74	80	80	97	97	97
e	60	74	74	82	82	82
f	60	73	73	80	80	86
l	28	31	31	45	45	45
n	110	117	117	141	141	141
M	20	20	20	25	25	25



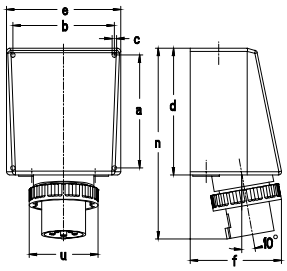
Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	30	40	40	45	45	45	90	90	90
b	55	68	68	78	78	78	90	90	90
c	5.5	5.5	5.5	5.5	5.5	5.5	6.2	6.2	6.2
d	52	66	66	75	75	75	114	114	114
e	65	80	80	90	90	90	114	114	114
f	81	99	103	111	111	117	129	129	129
h	38	52	52	60	60	60	90	90	90
n	98	111	113	131	131	131	184	184	184
p	9.5	9.5	9.5	9.5	9.5	9.5	6	6	6
u	72	81	88	96	96	103	110	110	110
y	30	38	38	44	44	44	56	56	56
z	36	46	46	54	54	54	65	65	65

Page 16, item 2 *619, 639 etc.*



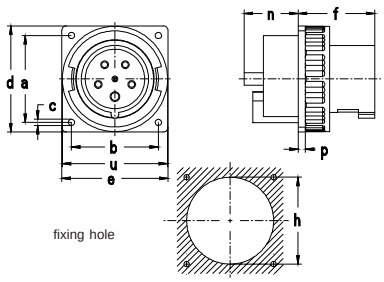
Amp.	63		
Pole	3	4	5
a	136	120	120
b	104	106	106
c	6	5.6	5.6
d	170	152	152
e	118	118	118
f	171	118	118
n	250	232	232
u	113	113	113
M	32	32	32

Page 16, item 3 *668 etc.*



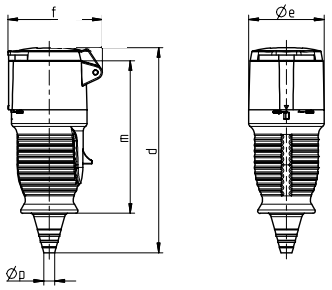
Amp.	125		
Pole	3	4	5
a	240	240	240
b	200	200	200
c	7	7	7
d	263	263	263
e	220	220	220
f	175	175	175
n	390	390	390
u	130	130	130
M1	50/20	50/20	50/20
M2	40	40	40

Page 16, item 4 *678 etc.*



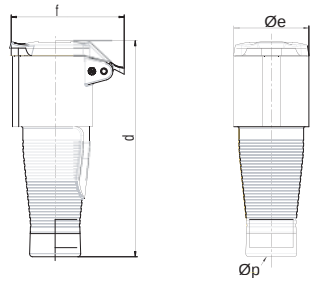
Amp.	125		
Pole	3	4	5
a	104	104	104
b	104	104	104
c	6.5	6.5	6.5
d	130	130	130
e	130	130	130
f	93	93	93
h	90	90	90
n	56	56	56
p	7.5	7.5	7.5
u	130	130	130

Page 16, item 5 *679 etc.*



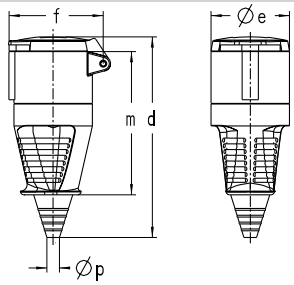
Amp.	16
Pole	5
d	183
Øe	67
f	84
m	136
Øp	8/21

Page 17, item 1 *310 SL*



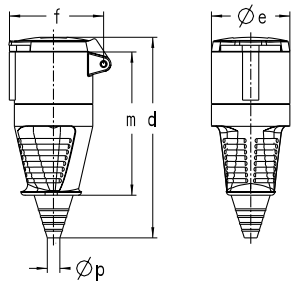
Amp.	16
Pole	3
d	145
Øe	50
f	75
m	-
Øp	7/13

Page 17, item 2 *310 306 CK etc.*

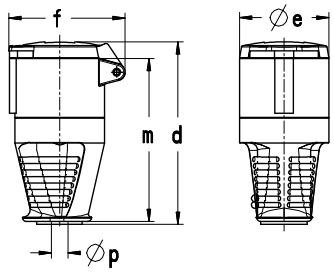


Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
d	154	161	167	196	196	196	266	266	266
Øe	51	58	65	72	72	72	96	96	96
f	68	76	85	91	91	98	114	114	114
m	109	113	119	141	141	141	196	196	196
Øp	7/13	8/21	8/21	11/24	11/24	11/24	15/33	15/33	15/33

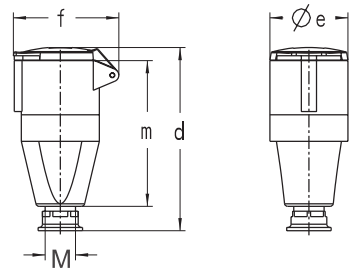
Page 17, item 3 *310, 330 etc.*



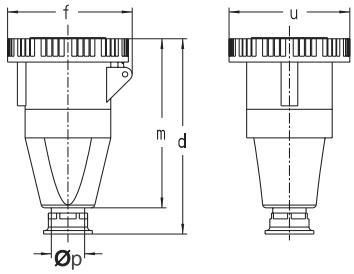
Page 17, item 4 *313 & 333*



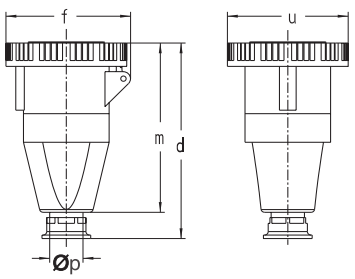
Page 17, item 5 *315 306 etc.*



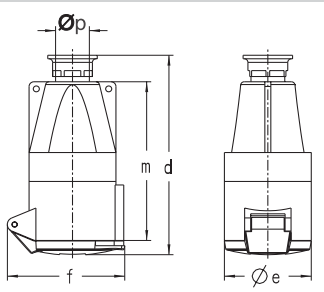
Page 17, item 6 *311, 331 etc.*



Page 18, item 1 *319, 339 etc.*

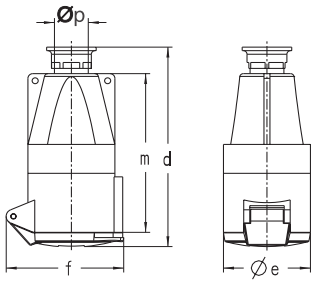


Page 18, item 2 *379 etc.*



Page 18, item 3 *314, 334 etc.*

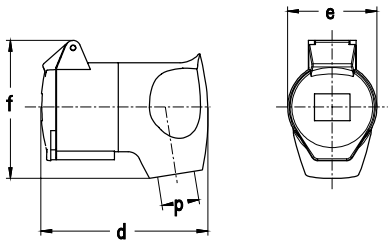
Amp.	16	32
Pole	5	5
d	167	196
Øe	65	72
f	85	98
m	119	141
Øp	8/21	11/24



Amp.	16
Pole	5
d	148
Øe	65
f	85
m	113
Øp	10-19.5

Page 18, item 4 *315*

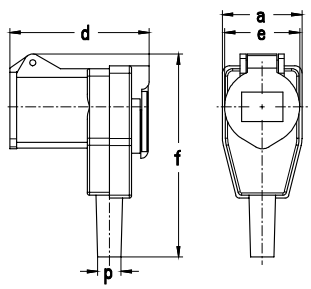
Amp.	16
Pole	3
d	121
Øe	51
f	68
m	108
Øp	8/15



Amp.	16
Pole	3
d	95
e	50.3
f	80
p	8/13

Page 18, item 5 *316 306 etc.*

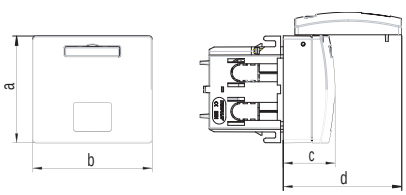
Amp	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
d	135	151	151	171	171	171	255	255	255
Øe	51	65	65	72	72	72	96	96	96
f	68	85	85	91	91	98	114	114	114
m	110	113	113	136	136	136	194	194	194
Øp	7.5-14.5	7.5-14.5	7.5-14.5	10-19.5	10-19.5	10-19.5	18-34.5	18-34.5	18-34.5



Amp.	16
Pole	3
a	54
d	87
e	49.5
f	140
Øp	7/13

Page 18, item 6 *317 306*

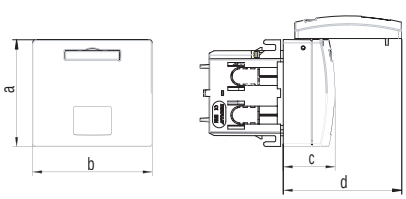
Amp	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
d	136	143	143	170	170	170	255	255	255
f	78	85	91	96	96	105	117	117	117
m	121	126	126	149	149	149	206	206	206
u	72	81	88	96	96	103	110	110	110
Øp	7.5-14.5	7.5-14.5	7.5-14.5	10-19.5	10-19.5	10-19.5	18-34.5	18-34.5	18-34.5



Amp	16			32		
Pole	3	4	5	3	4	5
a	80	80	80	80	80	80
b	90	90	90	90	90	90
c	39	39	39	39	39	39
d	89.3	89.3	89.3	89.3	89.3	89.3

Page 18, item 1 *400, 402 etc.*

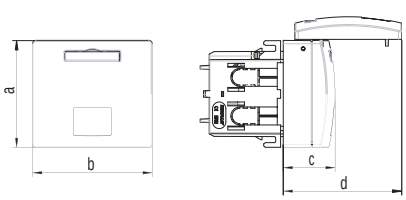
Amp.	125		
Pole	3	4	5
d	332	332	332
f	130	130	130
m	275	275	275
u	130	130	130
Øp	24-45	24-45	24-45



Amp	16			32		
Pole	3	4	5	3	4	5
a	80	80	80	80	80	80
b	90	90	90	90	90	90
c	39	39	39	39	39	39
d	89.3	89.3	89.3	89.3	89.3	89.3

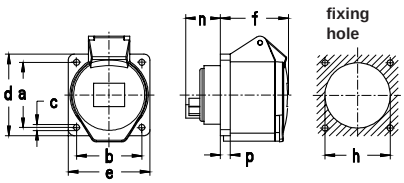
Page 18, item 2 *401 etc.*

Amp.	16		32		
Pole	4	5	3	4	5
d	148	148	180	180	180
Øe	65	65	72	72	72
f	85	85	91	91	91
m	113	113	136	136	136
Øp	7.5-14.5	7.5-14.5	10-19.5	10-19.5	10-19.5



Amp	16			32		
Pole	3	4	5	3	4	5
a	80	80	80	80	80	80
b	90	90	90	90	90	90
c	39	39	39	39	39	39
d	89.3	89.3	89.3	89.3	89.3	89.3

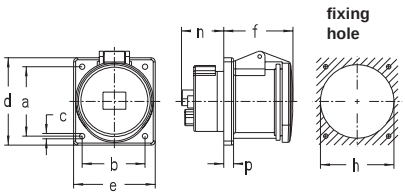
Page 18, item 3 *403 etc.*



Amp.	16			32		
Pole	3	4	5	3	4	5
a	60	60	60	60	60	60
b	60	60	60	60	60	60
c	5.5	5.5	5.5	5.5	5.5	5.5
d	75	75	75	75	75	75
e	75	75	75	75	75	75
f	52	53	53	65	65	65
h	46	60	60	60	60	60
n	28	28	28	27	27	27
p	6	9	9	9	9	9

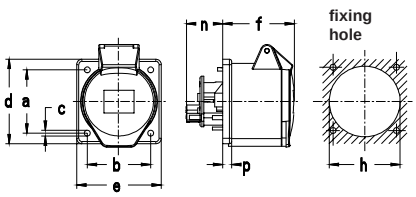
Suitable blind flange, part no. 10 015:	
a	60
b	60
c	5.2
d	75
e	75
p	6

Page 20, item 1 *410, 430 etc.*



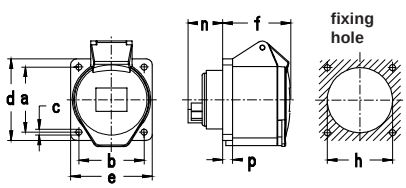
Amp.	63		
Pole	3	4	5
a	85	85	85
b	77	77	77
c	6.5	6.5	6.5
d	107	107	107
e	100	100	100
f	85	85	85
h	90	90	90
n	52	52	52
p	12	12	12

Page 20, item 2 *460 etc.*



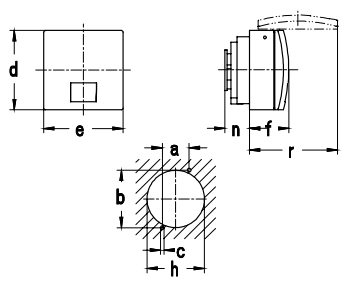
Amp.	16		32		
Pole	4	5	3	4	5
a	60	60	60	60	60
b	60	60	60	60	60
c	5.5	5.5	5.5	5.5	5.5
d	80	80	80	80	80
e	80	80	80	80	80
f	60	60	60	60	60
h	67	67	71	71	71
n	32	32	32	32	32
p	8.5	8.5	8.5	8.5	8.5

Page 20, item 3 *411, 431 etc.*



Amp.	16
Pole	3
a	47
b	47
c	5.5
d	62
e	62
f	52
h	46
n	28
p	6

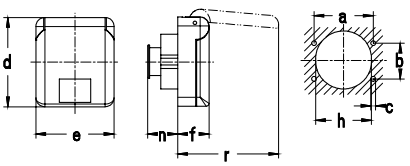
Page 20, item 4 *410 306 etc.*



Amp.	16		
Pole	3	4	5
a	30.4	30.4	30.4
b	65.2	65.2	65.2
c	4.1	4.1	4.1
d	90	90	90
e	90	90	90
f	38	38	38
h	65	65	65
n	36	36	36
r	96	96	96

Fixing dimensions = a +b,
Flange dimensions = d + e

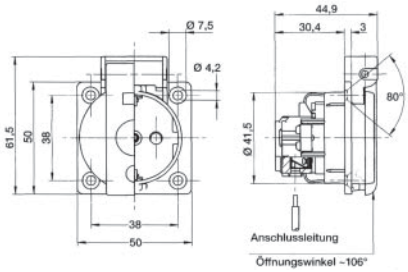
Page 20, item 5 *415, 435 etc.*



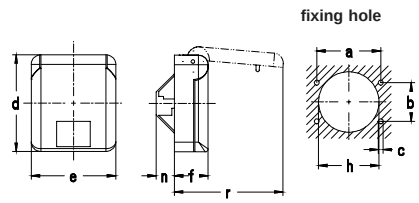
Amp.	16
Pole	3
a	53
b	32
c	4.2
d	80
e	70
f	28
h	50
n	29
r	91

Fixing dimensions = a +b,
Flange dimensions = d + e

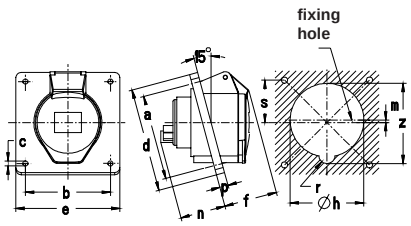
Page 20, item 6 *417 306 etc.*



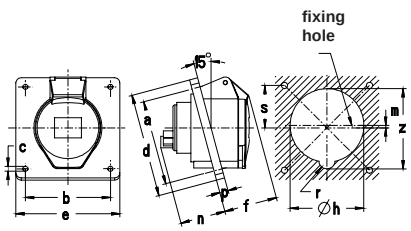
Page 20, item 7 *10 003 etc.*



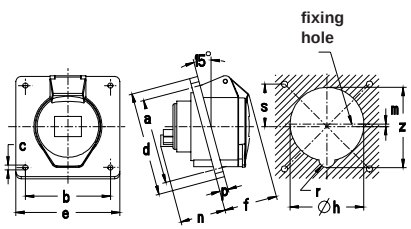
Page 20, item 8 *10 004*



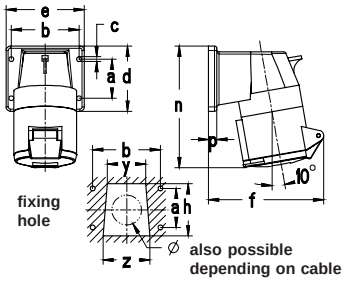
Page 21, item 1 *510, 530 etc.*



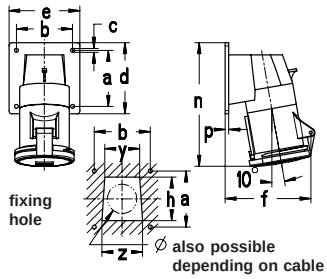
Page 21, item 2 *511, 531 etc.*



Page 21, item 3 *512, 532 etc.*



Page 21, item 4 *514, 534 etc.*

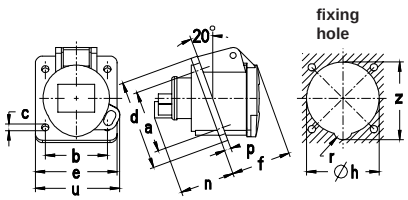


Amp.	63		
Pole	3	4	5
a	90	90	90
b	90	90	90
c	6.2	6.2	6.2
d	114	114	114
e	114	114	114
f	140	140	140
h	70	70	70
n	194	194	194
p	6	6	6
y	56	56	56
z	65	65	65

Page 21, item 5 *564 etc.*

Amp.	16
Pole	2
a	53
b	32
c	4.2
d	80
e	70
f	28
h	50
n	18
r	91

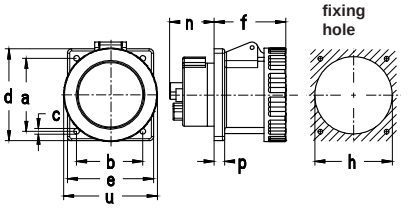
fixing dimensions = a + b,
flange dimensions = d + e



Amp.	16
Pole	3
a	47
b	47
c	5.5
d	68
e	62
f	46
h	55
n	41
p	5
r	5
u	65
z	58

Page 21, item 6 *512 306 etc.*

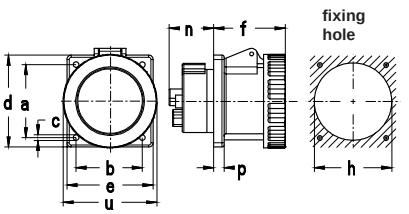
Amp.	16			32		
Pole	3	4	5	3	4	5
a	47	60	60	60	60	70
b	47	60	60	60	60	60
c	5.5	5.5	5.5	5.5	5.5	5.5
d	68	75	85	90	90	95
e	62	75	75	75	75	80
f	45	51	51	52	52	56
h	51	60	68	67	67	76
m	-/-	2	2	-/-	-/-	2.5
n	41	38	38	47	47	47
p	6	9	9	9	9	9
r	6.5	7.5	8	7.5	7.5	8.5
s	-/-	-/-	30	-/-	-/-	35
y	52.5	62	-/-	71	71	-/-
z	57	64	73	76	76	83



Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	47	60	60	60	60	60	85	85	85
b	47	60	60	60	60	60	77	77	77
c	5.5	5.5	5.5	5.5	5.5	5.5	6.5	6.5	6.5
d	62	75	75	75	75	75	107	107	107
e	62	75	75	75	75	75	100	100	100
f	52	52	52	65	65	65	83	83	83
h	46	60	60	60	60	60	90	90	90
n	28	28	28	27	27	27	52	52	52
p	6	9	9	9	9	9	12	12	12
u	72	81	88	96	96	103	110	110	110

Page 22, item 1 *419, 439 etc.*

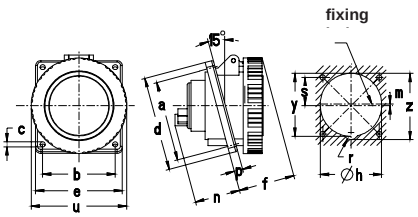
Amp.	16		32			63		
Pole	4	5	3	4	5	3	4	5
a	85	85	85	85	85	85	85	85
b	77	77	77	77	77	77	77	77
c	5.5	5.5	5.5	5.5	5.5	6.5	6.5	6.5
d	100	100	100	100	100	107	100	107
e	92	92	92	92	92	100	92	100
f	51	51	52	52	56	79	79	79
h	75	70	75	75	78	81	81	84
m	2	2	-/-	2.5	2.5	-/-	3	3
n	38	38	47	47	47	64	64	64
p	9	9	9	9	9	12	12	12
r	7.5	7.5	7.5	7.5	8.5	8	8	9
s	42.5	42.5	-/-	42.5	42.5	-/-	42.5	42.5
y	-/-	-/-	80	80	-/-	85	85	-/-
z	85	74	85	85	85	90	90	90



Amp.	125		
Pole	3	4	5
a	90	90	90
b	90	90	90
c	6.5	6.5	6.5
d	114	114	114
e	114	114	114
f	96	96	96
h	90	90	90
n	64	64	64
p	12	12	12
u	130	130	130

Page 22, item 2 *479 etc.*

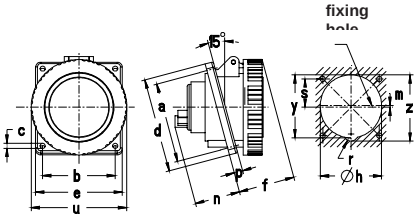
Amp.	16	32	63
Pole	5	5	5
a	90	90	90
b	90	90	90
c	5.5	5.5	6.5
d	110	110	114
e	110	110	114
f	51	56	79
h	70	78	86
m	2	2.5	2.5
n	38	47	64
p	9	9	12
r	7.5	8.5	10
s	45	45	45
z	74	85	94



Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	47	85	85	85	85	85	85	85	85
b	47	77	77	77	77	77	77	77	77
c	5.5	5.5	5.5	5.5	5.5	5.5	6.5	6.5	6.5
d	68	100	100	100	100	100	107	107	107
e	62	92	92	92	92	92	100	100	100
f	49	52	52	56	56	60	82	82	82
h	51	73	70	73	73	78	81	81	84
m	-/-	2	2	-/-	2.5	2.5	-/-	2.5	3
n	41	38	38	47	47	47	64	64	64
p	6	9	9	9	9	9	12	12	12
r	6.5	7.5	7.5	7.5	7.5	8.5	8	8	9
s	-/-	42.5	42.5	-/-	42.5	42.5	-/-	42.5	42.5
u	72	81	88	96	96	103	110	110	110
y	53	76	-/-	76	76	-/-	85	85	-/-
z	57	82	74	82	82	85	90	90	90

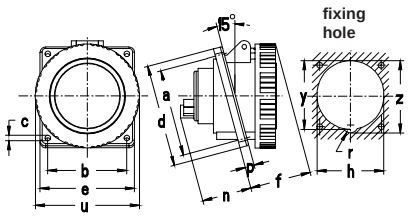
Page 22, item 3 *519, 539 etc.*

Amp.	16			32		
Pole	3	4	5	3	4	5
a	30	40	40	45	45	45
b	55	68	68	78	78	78
c	5.5	5.5	5.5	5.5	5.5	5.5
d	52	66	66	75	75	75
e	65	80	80	90	90	90
f	87	110	110	120	120	124
h	38	52	52	60	60	60
n	116	122	122	141	141	142
p	9.5	9.5	9.5	9.5	9.5	9.5
y	30	38	38	44	44	44
z	36	46	46	54	54	54



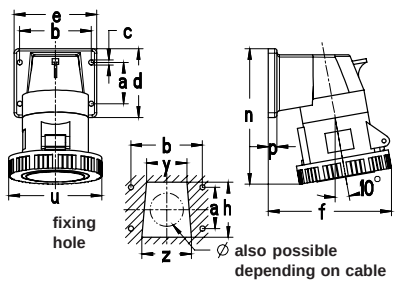
Amp.	125		
Pole	3	4	5
a	90	90	90
b	90	90	90
c	6.5	6.5	6.5
d	114	114	114
e	114	114	114
f	94	94	94
h	90	90	88
m	-/-	8	8
n	75	75	75
p	12	12	12
r	8	8	9.5
s	-/-	45	45
u	130	130	130
y	96	96	96
z	102	102	104

Page 22, item 4 *579 etc.*



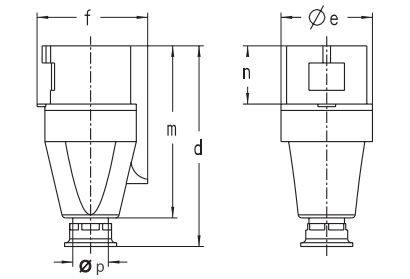
Amp.	16		32			63
Pole	4	5	3	4	5	5
a	60	60	60	60	70	90
b	60	60	60	60	60	90
c	5.5	5.5	5.5	5.5	5.5	6.5
d	75	85	90	90	95	114
e	75	75	75	75	80	114
f	52	52	56	56	60	72
h	60	68	67	67	76	86
m	-/-	2	-/-	-/-	2.5	2.5
n	38	38	47	47	47	82
p	9	9	9	9	9	6
r	7.5	8	7.5	7.5	8.5	10
s	-/-	30	-/-	-/-	35	45
u	81	88	96	96	103	110
y	62	-/-	71	71	-/-	-/-
z	64	73	76	76	83	94

Page 22, item 5 *517, 537 etc.*



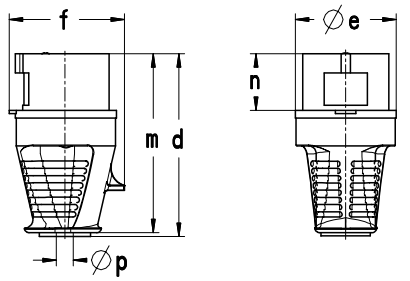
Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	30	40	40	45	45	45	90	90	90
b	55	68	68	78	78	78	90	90	90
c	5.5	5.5	5.5	5.5	5.5	5.5	6.2	6.2	6.2
d	52	66	66	75	75	75	114	114	114
e	65	80	80	90	90	90	114	114	114
f	88	108	108	121	121	123	143	143	143
h	38	52	52	60	60	60	70	70	70
n	109	123	123	145	145	145	203	203	203
p	9.5	9.5	9.5	9.5	9.5	9.5	6	6	6
u	72	81	88	96	96	103	110	110	110
y	30	38	38	44	44	44	56	56	56
z	36	46	46	54	54	54	65	65	65

Page 22, item 6 *518, 538 etc.*



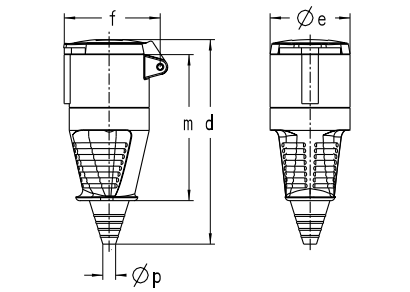
Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
d	123	131	131	155	155	155	240	240	240
Øe	51	65	65	73	73	73	81	81	81
f	60	68	75	79	79	88	97	97	97
m	118	112	112	133	133	133	192	192	192
n	37	37	37	46	46	46	67	67	67
Øp	7.5-14.5	7.5-14.5	7.5-14.5	10-19.5	10-19.5	10-19.5	18-34.5	18-34.5	18-34.5

Page 23, item 1 *231 SW etc.*



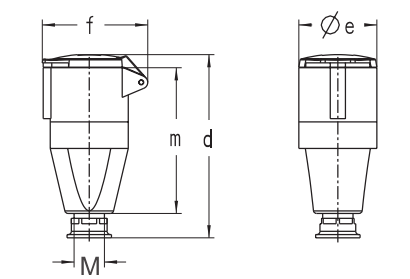
Amp.	16
Pole	3
d	111
Øe	51
f	60
m	108
n	37
Øp	8/15

Page 23, item 2 *215 306 SW etc.*



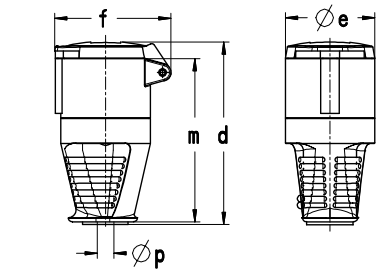
Amp.	16	32
Pole	5	5
d	153	181
Øe	65	72
f	75	88
m	117	138
n	37	46
Øp	8/21	11/24

Page 23, item 3 *210 SW etc.*

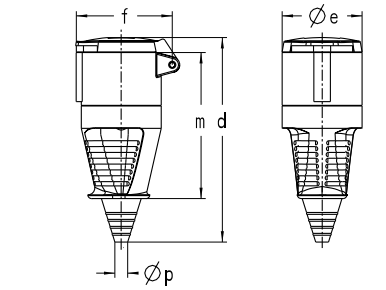


Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
d	135	151	151	171	171	171	255	255	255
Øe	51	65	65	72	72	72	96	96	96
f	68	85	85	91	91	98	114	114	114
m	110	113	113	136	136	136	194	194	194
Øp	7.5-14.5	7.5-14.5	7.5-14.5	10-19.5	10-19.5	10-19.5	18-34.5	18-34.5	18-34.5

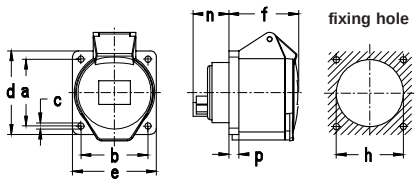
Page 23, item 4 *331 SW etc.*



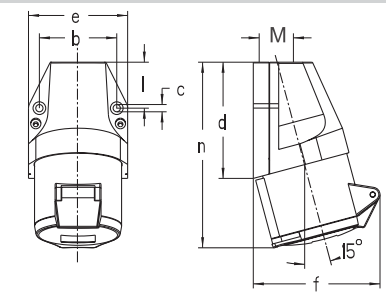
Page 23, item 5 *315 306 SW etc.*



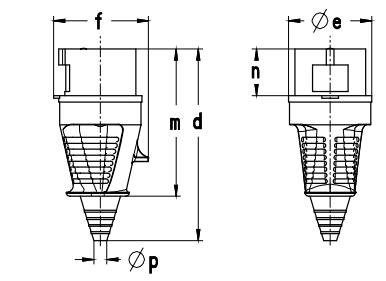
Page 23, item 6 *330 SW etc.*



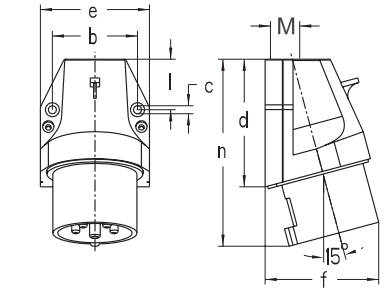
Page 23, item 7 *430 SW etc.*



Page 24, item 1 *130 706 etc.*

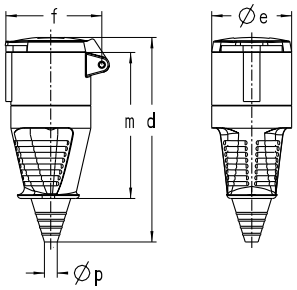


Page 24, item 2 *230 706 etc.*



Page 24, item 3 *630 706 etc.*

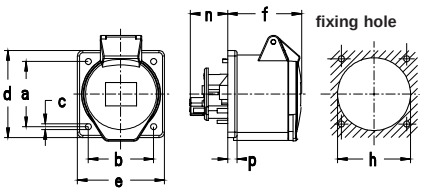
Amp.	16
Pole	3
d	121
Øe	51
f	68
m	108
Øp	8/15



Amp.	16	32
Pole	7	7
d	167	196
Øe	65	72
f	85	98
m	119	141
Øp	8/21	11/24

Page 24, item 4 *330 706 etc.*

Amp.	32
Pole	5
d	196
Øe	72
f	98
m	141
Øp	11/24

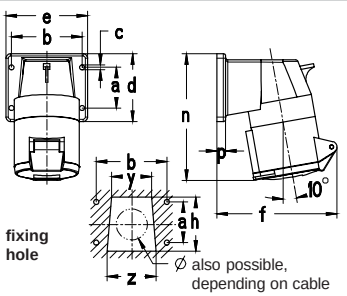


Amp.	16	32
Pole	7	7
a	60	60
b	60	60
c	5.5	5.5
d	80	80
e	80	80
f	60	60
h	67	71
n	23.5	23.5
p	8.5	8.5

Fixing dimension = a + b,
Flange dimension = d + e

Page 24, item 5 *431 706 etc.*

Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	60	60	60	60	60	60	85	85	85
b	60	60	60	60	60	60	77	77	77
c	5.5	5.5	5.5	5.5	5.5	5.5	6.5	6.5	6.5
d	75	75	75	75	75	75	107	107	107
e	75	75	75	75	75	75	100	100	100
f	52	53	53	65	65	65	85	85	85
h	46	60	60	60	60	60	90	90	90
n	28	28	28	27	27	27	52	52	52
p	6	9	9	9	9	9	12	12	12

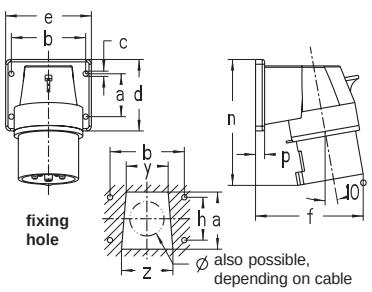


Amp.	16	32
Pole	7	7
a	40	45
b	68	78
c	5.5	5.5
d	66	75
e	80	90
f	110	124
h	52	60
n	122	142
p	9.5	9.5
y	38	44
z	46	54

Fixing dimension = a + b,
Flange dimension = d + e

Page 24, item 6 *534 706 etc.*

Amp.	16	32
Pole	7	7
b	60	60
c	5.3	5.3
d	80	97
e	74	82
f	90	105
l	31	45
n	129	155
M	20	25

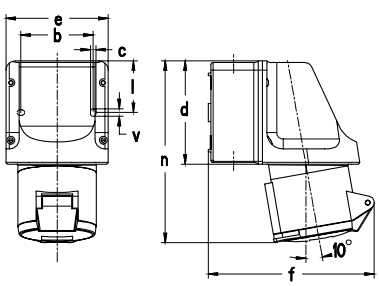


Amp.	16	32
Pole	7	7
a	40	45
b	68	78
c	5.5	5.5
d	66	75
e	80	90
f	92	103
h	52	60
n	110	129
p	9.5	9.5
y	38	44
z	46	54

Fixing dimension = a + b,
Flange dimension = d + e

Page 24, item 7 *631 706 etc.*

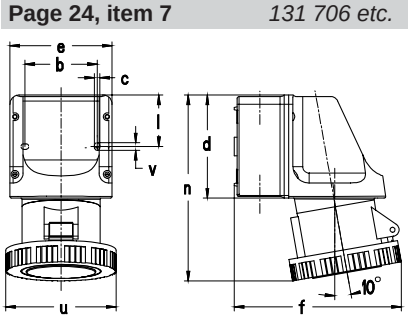
Amp.	16	32
Pole	7	7
d	153	181
Øe	65	72
f	75	88
m	117	138
n	37	46
Øp	8/21	11/24



Amp.	16	32
Pole	7	7
b	66.5	66.5
c	5	5
d	96	96
e	95	95
f	146	157
l	47.5	47.5
n	164	173
v	7	7
M	20/25	20/25

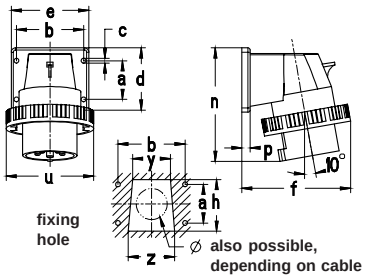
Page 24, item 7 *131 706 etc.*

Amp.	16	32
Pole	7	7
b	60	60
c	5.3	5.3
d	80	97
e	74	82
f	73	86
l	31	45
n	117	141
M	20	25



Amp.	32
Pole	4
b	66.5
c	5
d	96
e	95
f	154
l	47.5
n	176
u	96
v	7
M	20/25

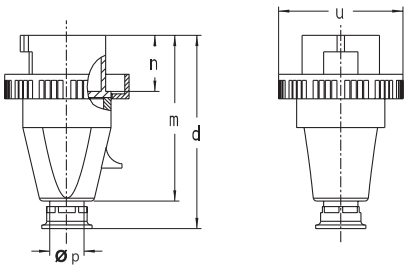
Page 24, item 1 *139 403*



Amp.	32
Pole	4
a	45
b	78
c	5.5
d	75
e	90
f	111
h	60
n	131
p	9.5
u	96
y	44
z	54

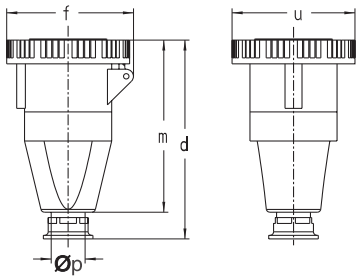
Fixing dimensions = a + b,
Flange dimensions = d + e

Page 25, item 2 *639 403*



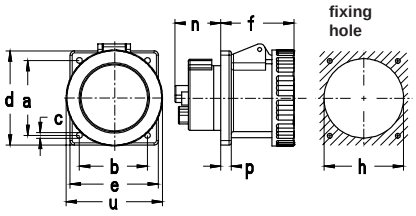
Amp.	32
Pole	4
d	156
m	135
n	46
u	96
Øp	10-19.5

Page 25, item 3 *239 403*



Amp.	32
Pole	4
d	170
f	96
m	149
u	96
Øp	10-19.5

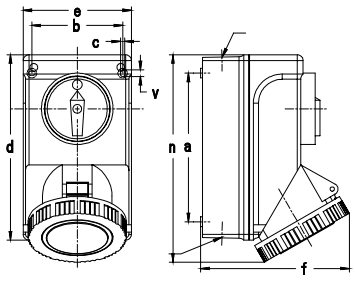
Page 25, item 4 *339 403*



Amp.	32
Pole	4
a	60
b	60
c	5.5
d	75
e	75
f	65
h	60
n	27
p	9
u	96

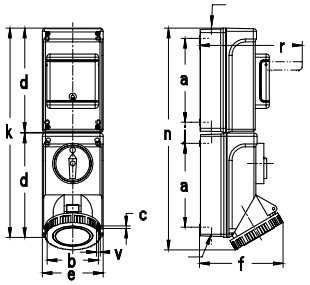
Fixing dimensions = a + b,
Flange dimensions = d + e

Page 25, item 5 *439 403*



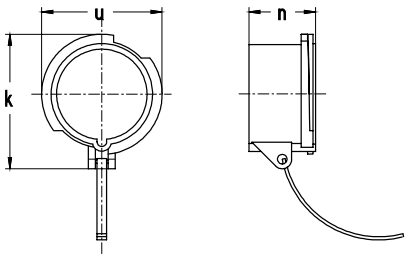
Amp.	32
Pole	4
a	154
b	94
c	4.5
d	193
e	113
f	154
n	215
v	7
M	25

Page 25, item 6 *AT 139 403*

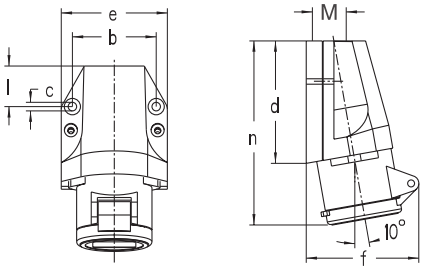


Amp.	32
Pole	4
a	154
b	94
c	4.5
d	193
e	113
f	154
j	39
k	387
n	409
r	191
v	7
M	20/25

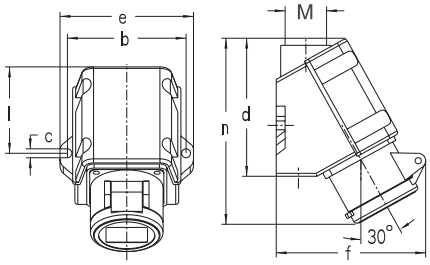
Page 25, item 7 *AU 139 403 TS*



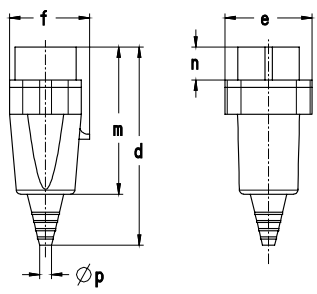
Page 25, item 8 *633 400*



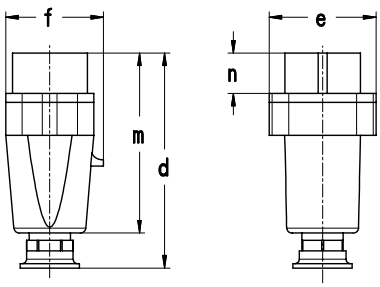
Page 26, item 1 *11 110 etc.*



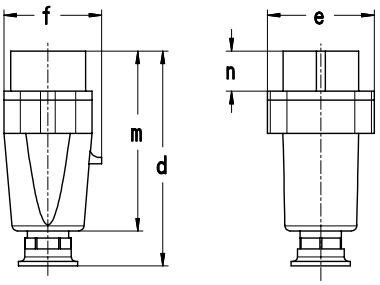
Page 26, item 2 *11 100 etc.*



Page 26, item 3 *11 280 etc.*

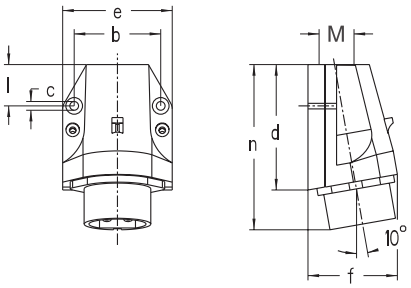


Page 26, item 4 *11 210 etc.*



Page 26, item 5 *11 220 etc.*

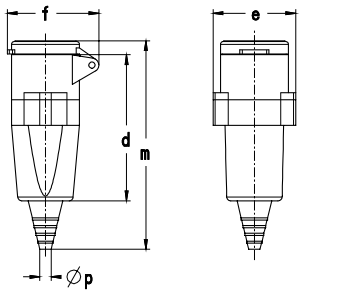
Amp.	32
Pole	4
a	90
b	50
u	82



Amp.	16		32	
Pole	2	3	2	3
b	54.5	54.5	54.5	54.5
c	5.2	5.2	5.2	5.2
d	81	81	81	81
e	70	70	70	70
f	68	68	68	68
l	28	28	28	28
n	105	105	105	105

Page 26, item 6 *11 800 etc.*

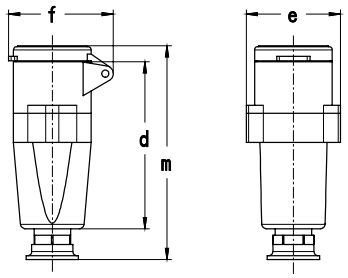
Amp.	16		32	
Pole	2	3	2	3
b	54.5	54.5	54.5	54.5
c	5.2	5.2	5.2	5.2
d	81	81	81	81
e	70	70	70	70
f	72	72	72	72
l	28	28	28	28
n	119	119	119	119
M	25	25	25	25



Amp.	16		32	
Pole	2	3	2	3
d	150	150	150	150
e	59	59	59	59
f	67	67	67	67
m	104	104	104	104
Øp	8/21	8/21	8/21	8/21

Page 27, item 1 *11 380 etc.*

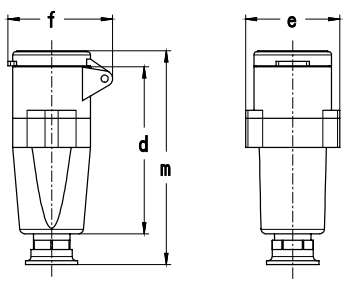
Amp.	16		32	
Pole	2	3	2	3
b	80	80	80	80
c	6.2	6.2	6.2	6.2
d	93	93	93	93
e	90	90	90	90
f	93	93	93	93
l	60	60	60	60
n	125	125	125	125



Amp.	16		32	
Pole	2	3	2	3
d	143	143	143	143
e	59	59	59	59
f	67	67	67	67
m	104	104	104	104
Øp	7.5-12.5	7.5-12.5	7.5-12.5	7.5-12.5

Page 27, item 2 *11 310 etc.*

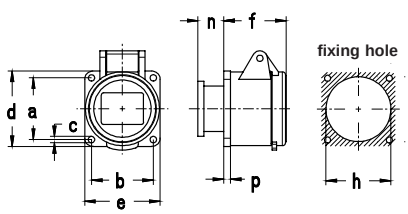
Amp.	16		32	
Pole	2	3	2	3
d	135	135	135	135
e	59	59	59	59
f	55	55	55	55
m	99	99	99	99
n	22.5	22.5	22.5	22.5
Øp	8/21	8/21	8/21	8/21



Amp.	16		32	
Pole	2	3	2	3
d	143	143	143	143
e	59	59	59	59
f	67	67	67	67
m	104	104	104	104
Øp	10-19.5	10-19.5	10-19.5	10-19.5

Page 27, item 3 *11 320 etc.*

Amp.	16		32	
Pole	2	3	2	3
d	128	128	128	128
e	59	59	59	59
f	55	55	55	55
m	99	99	99	99
n	22.5	22.5	22.5	22.5
Øp	7.5-14.5		7.5-14.5	7.5-

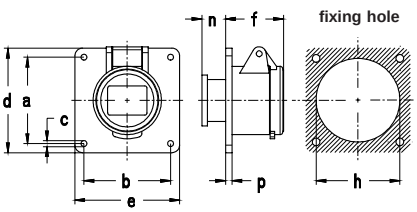


Amp.	16		32	
Pole	2	3	2	3
a	41	41	41	41
b	41	41	41	41
c	4.2	4.2	4.2	4.2
d	50	50	50	50
e	50	50	50	50
f	42	42	42	42
h	40	40	40	40
n	18	18	18	18
p	4	4	4	4

fixing dimensions = a + b, flange dimensions = d + e

Page 27, item 4 *11 400 etc.*

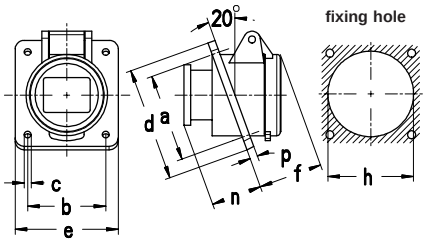
Amp.	16		32	
Pole	2	3	2	3
d	128	128	128	128
e	59	59	59	59
f	55	55	55	55
m	99	99	99	99
n	22.5	22.5	22.5	22.5
Øp	10-19.5	10-19.5	10-19.5	10-19.5



Amp.	16		32	
Pole	2	3	2	3
a	60	60	60	60
b	60	60	60	60
c	4.2	4.2	4.2	4.2
d	75	75	75	75
e	75	75	75	75
f	42	42	42	42
h	40	40	40	40
n	18	18	18	18
p	4	4	4	4

fixing dimensions = a + b, flange dimensions = d + e

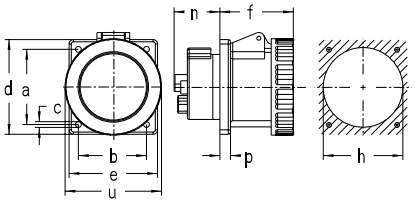
Page 27, item 5 *11 600 etc.*



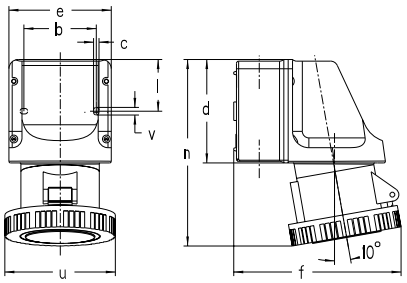
Amp.	16		32	
Pole	2	3	2	3
a	53	53	53	53
b	47	47	47	47
c	4.5	4.5	4.5	4.5
d	68	68	68	68
e	62	62	62	62
f	38	38	38	38
h	55	55	55	55
n	30	30	30	30
p	4.5	4.5	4.5	4.5

fixing dimensions = a + b, flange dimensions = d + e

Page 27, item 6 *11 500 etc.*

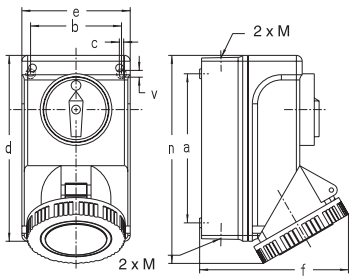


Page 29, item 6 *7 439 etc.*

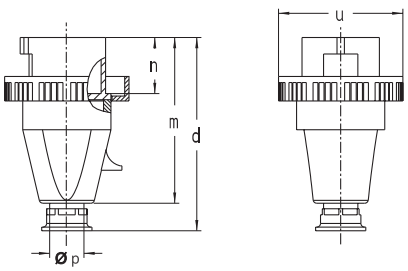


Amp.	16		32
Poles	3	5	5
b	66.5	66.5	66.5
c	5	5	5
d	96	96	96
e	95	95	95
f	140	147	156
l	47.5	47.5	47.5
n	164	164	176
u	72	88	103
v	7	7	7
M	20/25	20/25	20/25

Page 29, item 1 *7 139 etc.*

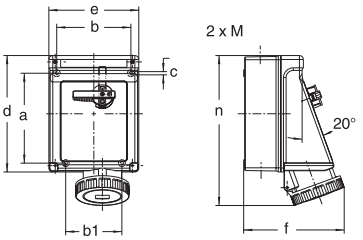


Page 30, item 1 *AT 130 etc.*

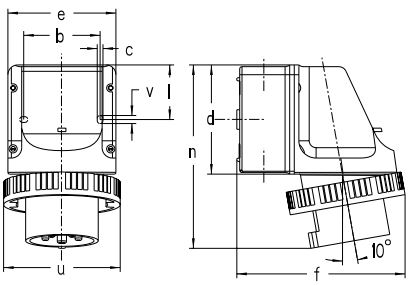


Amp.	16		32
Poles	3	5	5
d	126	139	166
m	110	114	135
n	37	37	46
u	72	88	103
Øp	7.5-12.5	10-19.5	18-24.5

Page 29, item 2 *7 239 etc.*

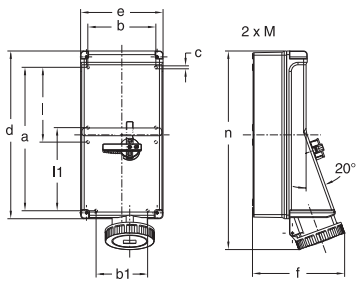


Page 30, item 2 *AE 130 etc.*

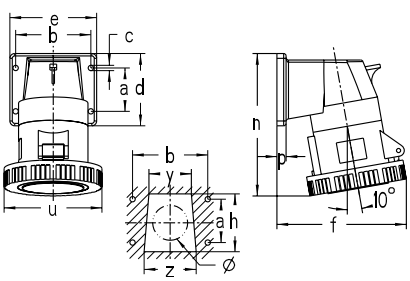


Amp.	16		32
Poles	3	5	5
b	66.5	66.5	66.5
c	5	5	5
d	96	96	96
e	95	95	95
f	140	140	150
l	47.5	47.5	47.5
n	154	154	164
u	72	88	103
v	7	7	7
M	20/25	20/25	20/25

Page 29, item 3 *7 638 etc.*

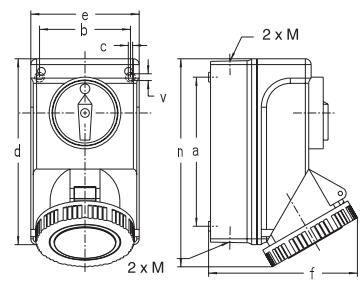


Page 30, item 3 *AJ 130 etc.*

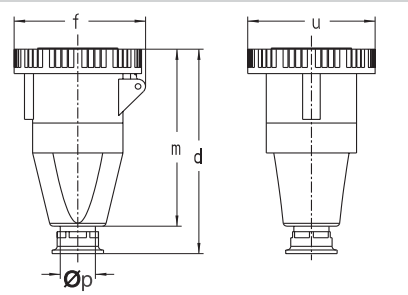


Amp.	16		32
Poles	3	5	5
a	30	40	45
b	55	68	78
c	5.5	5.5	5.5
d	52	66	75
e	65	80	90
f	88	108	123
h	38	52	60
n	109	123	145
p	9.5	9.5	9.5
u	72	88	103
y	30	38	44
z	38	46	54

Page 29, item 4 *7 538 etc.*

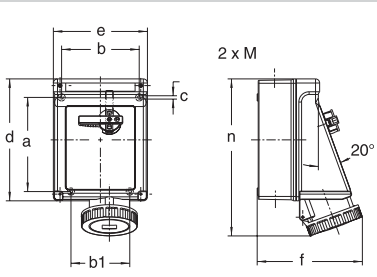


Page 30, item 4 *AT 139 etc.*



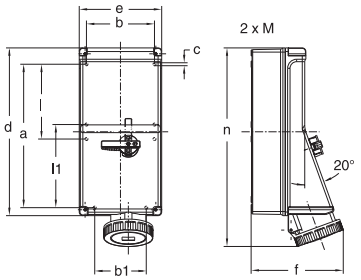
Amp.	16		32
Poles	3	5	5
d	136	150	177
f	78	91	105
m	121	126	149
u	72	88	103
Øp	7.5-12.5	10-19.5	18-24.5

Page 29, item 5 *7 339 etc.*



Page 30, item 5 *AE 169 etc.*

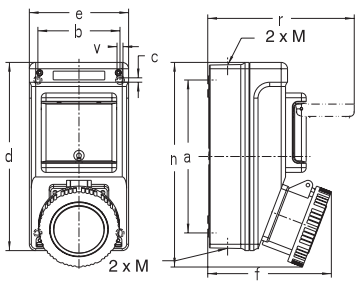
Amp.	16		32
Poles	3	5	5
a	47	60	60
b	47	60	60
c	5.5	5.5	5.5
d	62	80	80
e	62	80	80
f	57	59	70
h	46	67	71
n	22	22	23
p	8.5	8.5	8.5
u	72	88	103



Page 30, item 6 *AJ 139 etc.*

Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	316	316	316	316	316	316	316	316	316
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
d	370	370	370	370	370	370	370	370	370
e	183	183	183	183	183	183	183	183	183
f, IP44	182	187	184	187	187	189	196	196	196
f, IP67	193	194	196	201	201	201	209	209	209
l	165	165	165	165	165	165	165	165	165
ll	183	183	183	183	183	183	183	183	183
n, IP44	401	404	405	415	415	417	432	432	432
n, IP67	404	405	410	418	418	418	443	443	443
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

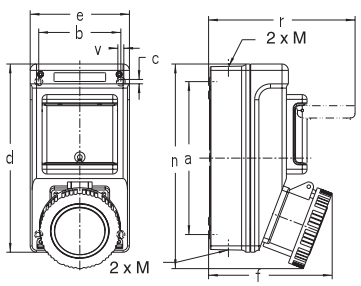
Amp.	16			32		
Pole	3	4	5	3	4	5
a	127	127	127	154	154	154
b	78	78	78	94	94	94
b1	/	/	/	/	/	/
c	4.5	4.5	4.5	4.5	4.5	4.5
d	166	166	166	193	193	193
e	97	97	97	113	113	113
f (IP 44)	116	120	125	145	145	148
f (IP 67)	120	125	132	154	154	154
n (IP 44)	185	185	185	215	215	215
n (IP 67)	185	185	185	215	215	215
v	7	7	7	7	7	7
M	20	20	20	25	25	25



Page 31, item 1 *AR 130 TS etc.*

Amp.	16			32		
Pole	3	4	5	3	4	5
a	192	192	192	192	192	192
b	103	103	103	103	103	103
c	5.5	5.5	5.5	5.5	5.5	5.5
d	237	237	237	237	237	237
e	125	125	125	125	125	125
f (IP 44)	127	129	133	144	144	144
f (IP 67)	135	135	141	149	149	149
n (IP 44)	237	247	250	251	251	251
n (IP 67)	242	252	253	259	259	259
r	187	187	187	187	187	187
v	7.5	7.5	7.5	7.5	7.5	7.5
M	20/25	20/25	20/25	20/25	20/25	20/25

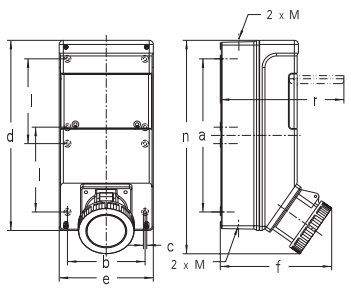
Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	183	183	183	183	183	183	183	183	183
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
d	237	237	237	237	237	237	237	237	237
e	183	183	183	183	183	183	183	183	183
f (IP 44)	182	187	184	187	187	189	196	196	196
f (IP 67)	193	194	196	201	201	201	209	209	209
n (IP 44)	268	270	273	282	282	284	302	302	302
n (IP 67)	270	272	277	285	285	289	309	309	309
v	/	/	/	/	/	/	/	/	/
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32



Page 31, item 2 *AR 130 AC etc.*

Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	316	316	316	316	316	316	316	316	316
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
d	370	370	370	370	370	370	370	370	370
e	183	183	183	183	183	183	183	183	183
f, IP44	182	187	184	187	187	189	196	196	196
f, IP67	193	194	196	201	201	201	209	209	209
l	165	165	165	165	165	165	165	165	165
ll	183	183	183	183	183	183	183	183	183
n, IP44	401	404	405	415	415	417	432	432	432
n, IP67	404	405	410	418	418	418	443	443	443
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

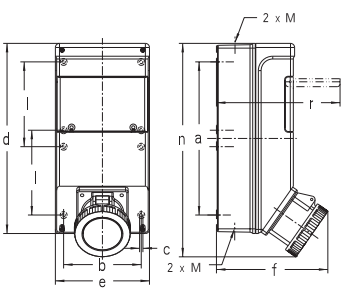
Amp.	63		
Pole	3	4	5
a	298	298	298
b	151	151	151
c	6.5	6.5	6.5
d	370	370	370
e	183	183	183
f, IP44	205	205	205
f, IP67	210	210	210
l	165	165	165
n, IP44	405	405	405
n, IP67	412	412	412
r	240	240	240
v	/	/	/
M	25/32	25/32	25/32



Page 31, item 3 *AS 160 TS etc.*

Amp.	16			32		
Pole	3	4	5	3	4	5
a	127	127	127	154	154	154
b	78	78	78	94	94	94
b1	/	/	/	/	/	/
c	4.5	4.5	4.5	4.5	4.5	4.5
d	166	166	166	193	193	193
e	97	97	97	113	113	113
f (IP 44)	116	120	125	145	145	148
f (IP 67)	120	125	132	154	154	154
n (IP 44)	185	185	185	215	215	215
n (IP 67)	185	185	185	215	215	215
v	7	7	7	7	7	7
M	20	20	20	25	25	25

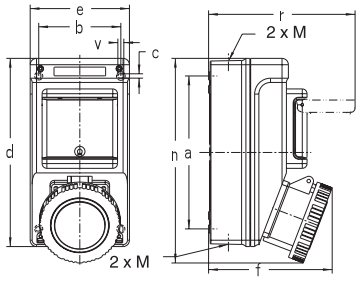
Amp.	63		
Pole	3	4	5
a	298	298	298
b	151	151	151
c	6.5	6.5	6.5
d	370	370	370
e	183	183	183
f, IP44	205	205	205
f, IP67	210	210	210
l	165	165	165
n, IP44	405	405	405
n, IP67	412	412	412
r	240	240	240
v	/	/	/
M	25/32	25/32	25/32



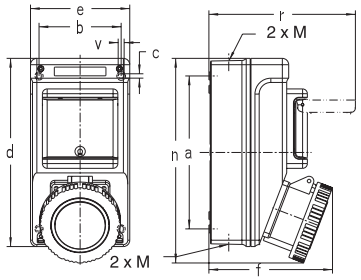
Page 31, item 4 *AS 160 AC etc.*

Amp.	16			32			63		
Pole	3	4	5	3	4	5	3	4	5
a	183	183	183	183	183	183	183	183	183
b	151	151	151	151	151	151	151	151	151
b1	114	114	114	114	114	114	114	114	114
c	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
d	237	237	237	237	237	237	237	237	237
e	183	183	183	183	183	183	183	183	183
f (IP 44)	182	187	184	187	187	189	196	196	196
f (IP 67)	193	194	196	201	201	201	209	209	209
n (IP 44)	268	270	273	282	282	284	302	302	302
n (IP 67)	270	272	277	285	285	289	309	309	309
v	/	/	/	/	/	/	/	/	/
M	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32

Amp.	16			32		
Pole	3	4	5	3	4	5
a	192	192	192	192	192	192
b	103	103	103	103	103	103
c	5.5	5.5	5.5	5.5	5.5	5.5
d	237	237	237	237	237	237
e	125	125	125	125	125	125
f (IP 44)	127	129	133	144	144	144
f (IP 67)	135	135	141	149	149	149
n (IP 44)	237	247	250	251	251	251
n (IP 67)	242	252	253	259	259	259
r	187	187	187	187	187	187
v	7.5	7.5	7.5	7.5	7.5	7.5
M	20/25	20/25	20/25	20/25	20/25	20/25

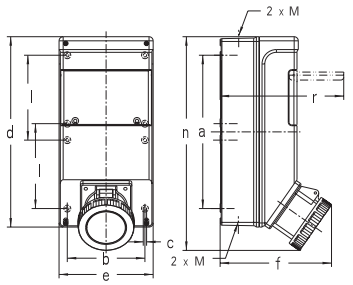


Page 31, item 5 *AR 139 TS etc.*



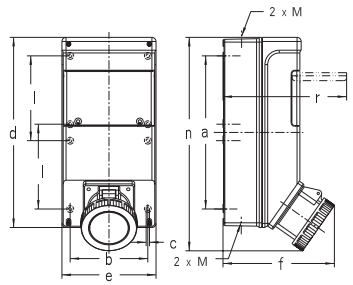
Amp.	16			32		
Pole	3	4	5	3	4	5
a	192	192	192	192	192	192
b	103	103	103	103	103	103
c	5.5	5.5	5.5	5.5	5.5	5.5
d	237	237	237	237	237	237
e	125	125	125	125	125	125
f (IP 44)	127	129	133	144	144	144
f (IP 67)	135	135	141	149	149	149
n (IP 44)	237	247	250	251	251	251
n (IP 67)	242	252	253	259	259	259
r	187	187	187	187	187	187
v	7.5	7.5	7.5	7.5	7.5	7.5
M	20/25	20/25	20/25	20/25	20/25	20/25

Page 31, item 6 *AR 139 AC etc.*



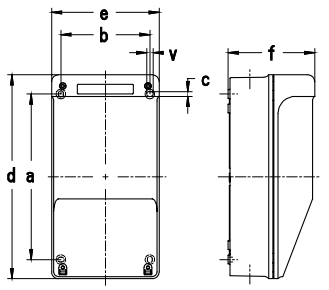
Amp.	63			125		
Pole	3	4	5	3	4	5
a	298	298	298	350	350	350
b	151	151	151	263	263	263
c	6.5	6.5	6.5	6.5	6.5	6.5
d	370	370	370	404	404	404
e	183	183	183	290	290	290
f, IP44	205	205	205	/	/	/
f, IP67	210	210	210	245	245	245
l	165	165	165	169	169	169
n, IP44	405	405	405	/	/	/
n, IP67	412	412	412	445	445	445
r	240	240	240	260	260	260
v	/	/	/	8	8	8
M	25/32	25/32	25/32	32/50	32/50	32/50

Page 31, item 7 *AS 179 TS etc.*



Amp.	63		
Pole	3	4	5
a	298	298	298
b	151	151	151
c	6.5	6.5	6.5
d	370	370	370
e	183	183	183
f, IP44	205	205	205
f, IP67	210	210	210
l	165	165	165
n, IP44	405	405	405
n, IP67	412	412	412
r	240	240	240
v	/	/	/
M	25/32	25/32	25/32

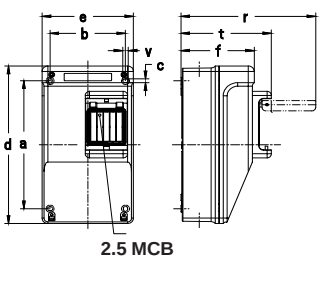
Page 31, item 7 *AS 169 AC etc.*



a	b	c	d	e	f	v	M
192	103	5.5	237	125	100.5	7.5	20/25

Cable entry 2 x top and bottom M 20/25, knock-out

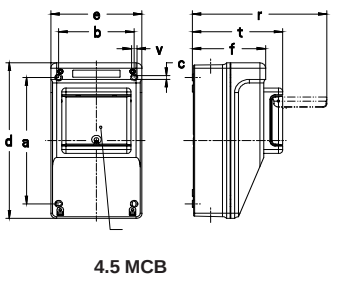
Page 32+34 *657 enclosure*



a	b	c	d	e	f	r	t	v	M
192	103	5.5	237	125	100.5	185	124	7.5	20/25

Cable entry 2 x top and bottom M 20/25, knock-out

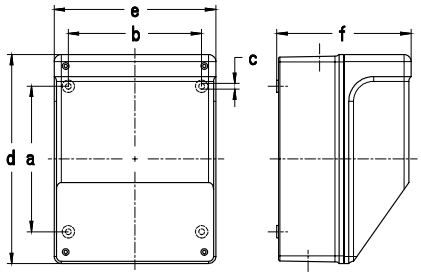
Page 32 *658 enclosure*



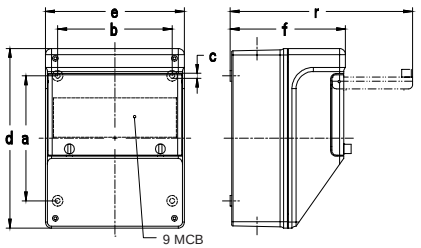
a	b	c	d	e	f	r	t	v	M
192	103	5.5	237	125	100.5	185	124	7.5	20/25

Cable entry 2 x top and bottom M 20/25, knock-out

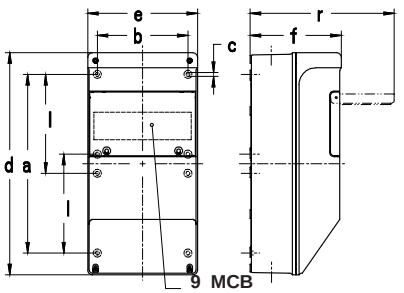
Page 32 *659 enclosure*



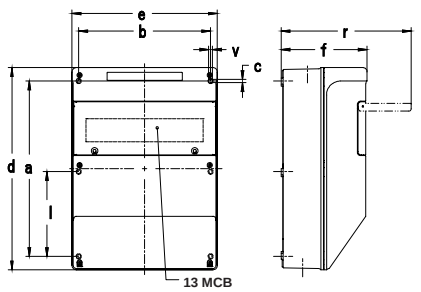
Page 32+34 *691 enclosure*



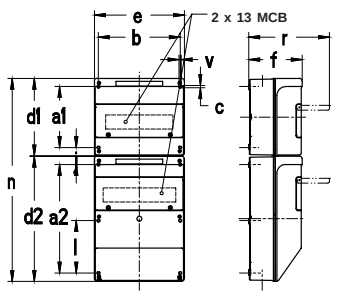
Page 32+34 *692 enclosure*



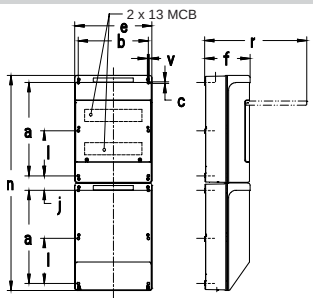
Page 33+34 *698 enclosure*



Page 33 *682 enclosure*



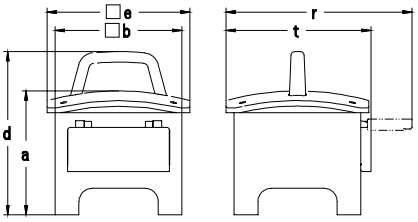
Page 33 *689 enclosure = 682 + 683 joined*



Page 33 *685 enclosure = 681 + 686 joined*

a	b	c	d	e	f	M
165	151	6.5	237	183	152	25/32

Cable entry 2 x top and bottom M 25/32, knock-out

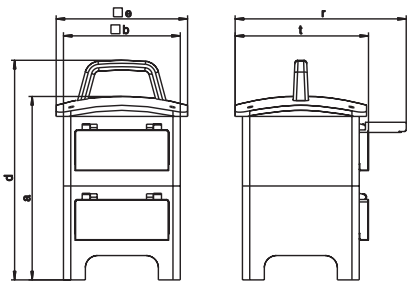


a	b	d	e	r	t
236	240	310	270	352	275

Page 35 *649 enclosure*

a	b	c	d	e	f	r	M
165	151	6.5	237	183	152	241	25/32

Cable entry 2 x top and bottom M 25/32, knock-out

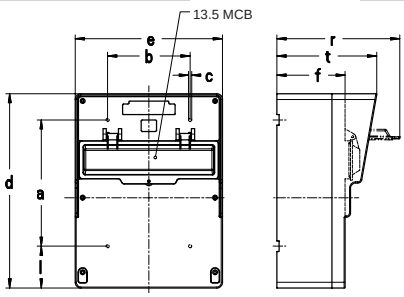


a	b	d	e	r	t
380	240	450	270	352	275

Page 35 *649 encl., tower version*

a	b	c	d	e	f	l	r	M
298	151	6.5	370	183	152	165	240	25/32

Cable entry 2 x top and bottom M 25/32, knock-out

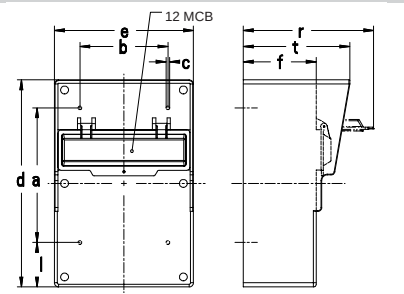


a	b	c	d	e	f	l	r	t
240.5	157	6	370	280	130	79.5	235	190

Page 35 *646 enclosure*

a	b	c	d	e	f	l	r	v	M
350	263	6.5	404	290	171.5	169	260	8	32/50

cable entry 3 x top and bottom M 32/50, knock-out

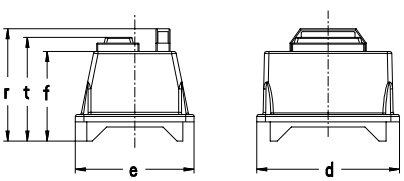


a	b	c	d	e	f	l	r	t
240.5	157	6.5	370	248	130	79.5	235	190

Page 35 *647 enclosure*

a 1	a 2	b	c	d 1	d 2	e	f	j	n	r	l	v	M
196	350	263	6.5	250	404	290	171.5	55	655	260	169	8	32/50

Enclosure 682 and 683 joined.
Cable entry 3 x top and bottom M 32/50, knock-out

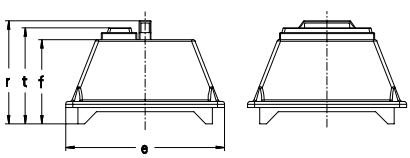


d	e	f	r	t
252	210	159	199	184

Page 36 *654 enclosure*

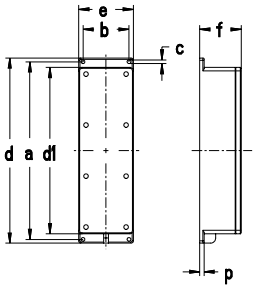
a	b	c	e	f	j	l	n	r	v	M
350	263	6.5	290	171.5	55	169	809	385	8	32/50

Enclosure 681 and 686 joined.
Cable entry 3 x top and bottom M 32/50, knock-out



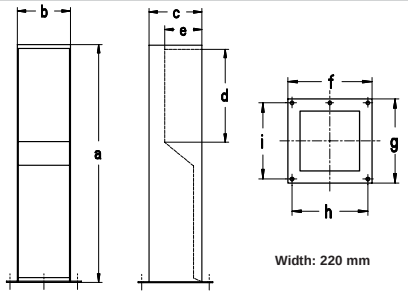
e	f	r	t
335	177	217	202

Page 36 *656 enclosure*



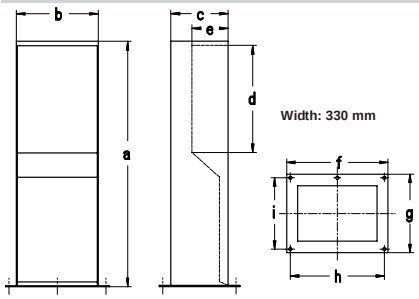
a	b	c	d	d1	e	f	p
310	80	6.5	323	290	95	72	7.5

Page 37 *640 enclosure*



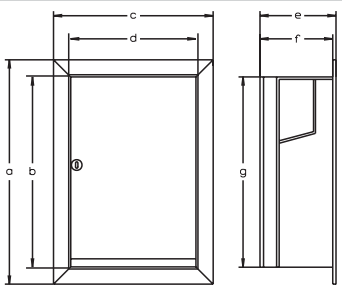
a	b	c	e	f	g	h	i
985	220	220	155	310	310	280	280

Page 38 *narrow stainless steel pillar*



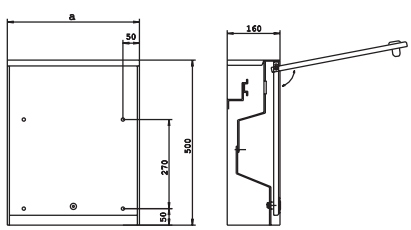
a	b	c	e	f	g	h	i
985	330	230	145	420	325	390	295

Page 38 *wide stainless steel pillar*



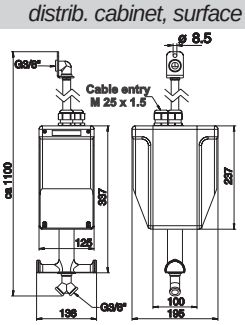
Part No.:	a	b	c	d	e	f	g
6 UP 0130	590	505	315	235	210	200	505
6 UP 0101	590	505	420	340	210	200	505
6 UP 3007	590	505	420	340	210	200	505

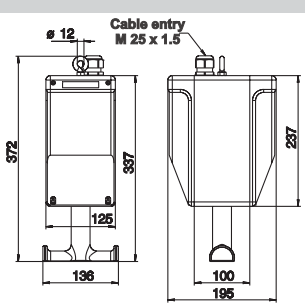
Page 39 *distribution cabinet, flush mount*



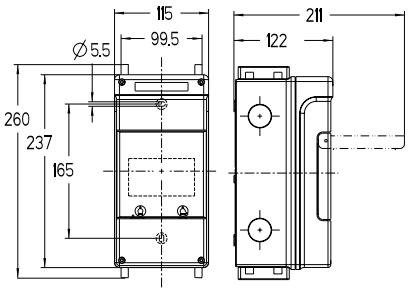
	a
Part No. 6A2 99 01	200
Part No. 6A3 99 01	300
Part No. 6A4 99 01	400

Page 39 *distrib. cabinet, surface mount*

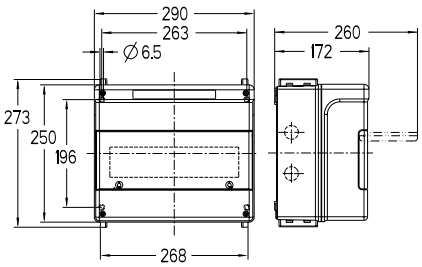




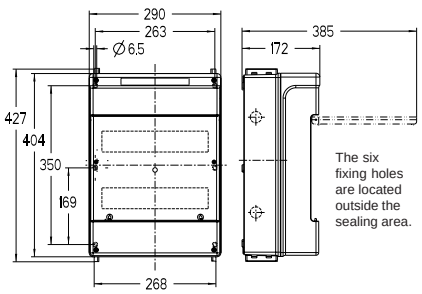
Page 41 *Suspension-type combination units*



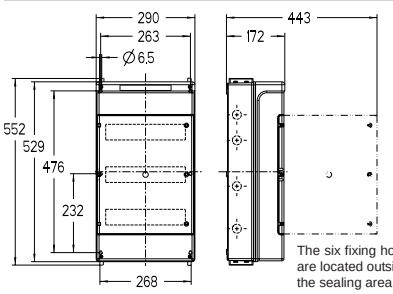
Page 42 **AutoboxX, 4.5 MCB**



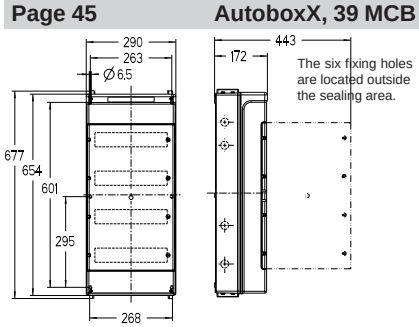
Page 43 **AutoboxX, 13 MCB**



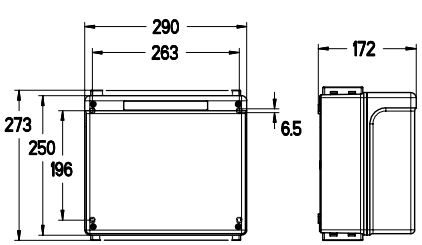
Page 44 **AutoboxX, 26 MCB**



Page 45 **AutoboxX, 39 MCB**



Page 46 **AutoboxX, 52 MCB**



The four fixing holes are located outside the sealing area.

Page 47 **Terminal boxes IK 13**

Rev. C-02/98/KH

CERTIFICATE OF CONFORMITY 2005

of the supplier
WALTHER WERKE, Ferdinand Walther GmbH
Ramsener Straße 6
67304 Eisenberg

We declare at our own responsibility the conformity of the following products and standards:

Plugs and sockets	DIN EN 60 309, P. 1/BS 4343
Including interlocks	DIN EN 60 309, P. 2
Combination boxes	EN 60 439, P. 1 DIN VDE 0100, Part 550

This declaration of conformity is according to the EC regulations 73/23, 93/68, 91/368 and 89/336 (Low Voltage Directive), module A, in consideration of DIN EN 45 014.

WALTHER WERKE
Ferdinand Walther GmbH

Sales Quality Ass.

Eisenberg, 07.04.2005

Customer :
Customer No :
Order No :
Reference No :

P.S.:

a) According to the EMC Directive for „electromagnetic compatibility of accessories" of November 1992, law gazette part I Z5702A and the a.m. EC regulations, the following elementary components do not require conformity with the EMC-Directive:

- Heavy Duty Connectors, Plugs, Sockets, Mechanical Switches – (our product line)

b) According to the „Machinery Directives" it is clarified that electrotechnical products which are parts or components of machineries have to be in conformity with the „Low Voltage Directives" as stated above but not with the „Machinery Directives".

WALTHER WERKE, Ferdinand Walther GmbH
Postfach 11 80, 67298 Eisenberg * Ramsener Straße 6, 67304 Eisenberg/Germany
Phone: +49 6351/475-0 * FAX: +49 6351/475-227

General Conditions

for the supply of products and services of the Electrical and Electronical Industry for Export

I. GENERAL

1. The scope of deliveries and/or services (hereinafter referred to as „Supplies“) shall be determined by the written declarations of both Parties. General terms and conditions of the Purchaser shall apply only if and when expressly accepted by the supplier or the provider of services (hereinafter referred to as „Supplier“) in writing. Verbal agreements are only binding with a written confirmation by us.
2. The Supplier herewith reserves any industrial property rights and/or copyrights pertaining to its cost estimates, drawings and other documents (hereinafter referred to as „Documents“). The Documents shall not be made accessible to third parties without the Supplier's prior consent and shall, upon request, be returned without undue delay to the Supplier if the contract is not awarded to the Supplier. Sentences 1 and 2 shall apply mutatis mutandis to documents of the Purchaser; these may, however, be made accessible to third parties to whom the Supplier may rightfully transfer Supplies.
3. The Purchaser shall have the non-exclusive right to use standard software, provided that it remains unchanged, is used within the agreed performance parameters, and on the agreed equipment. The Purchaser may make one back-up copy without express agreement.
4. Partial Supplies shall be allowed, unless they are unreasonable to accept for the Purchaser.

II. PRICES AND TERMS OF PAYMENT

1. Prices indicated in the trade price list are gross prices per unit in EURO ex works and exclude packaging; value added tax shall be added at the then applicable rate. We reserve the right to invoice prices as valid on the day of shipment.
2. Packaging will be charged at cost. Reusable boxes, frames etc. will be credited at two thirds of the invoiced amount by us in case of carriage paid return. According to law the German Supplier is associated with a packaging re-using system on the territory of the Federal Republic of Germany which disposes the packaging at the location of the commercial enterprises, agencies, manufacturers and craftsmen of the German electrical industry. The name of the disposal association is indicated on the packaging. The disposal system can be used by the German Purchaser. The Purchaser gets information on this system from the supplier.
3. Delivery dates will be fixed to the best knowledge, but are without guarantee. Any claims due to delays in delivery will not be accepted.
4. Payments have to be made in EURO within 30 days net after date of the invoice free at Supplier's paying office. For payments within 10 days we grant 3 % cash discount on the net value. Bank charges, especially for payments from foreign countries, have to be paid by the customer.
5. The Purchaser may set off only those claims that are undisputed or against which no legal recourse is possible.

III. RETENTION OF TITLE

1. Items pertaining to the Supplies („Retained Goods“) shall remain the property of the Supplier until each and every claim the Supplier has against the Purchaser on account of the business connection has been fulfilled. If the combined value of the security interests of the Supplier exceeds the value of all secured claims by more than 20 %, the Supplier shall release a corresponding part of the security interest if so requested by the Purchaser.
2. For the duration of the retention of title, the Purchaser may not pledge the Retained Goods or use them as security, and resale shall be possible only for resellers in the ordinary course of their business and only on condition that the reseller receives payment from its customer or makes the transfer of property to the customer dependent upon the customer fulfilling its obligation to effect payment.
3. The Purchaser shall inform the Supplier forthwith of any seizure or other act of intervention by third parties.
4. Where the Purchaser fails to fulfil its duties, including failure to make payments due, the Supplier shall be entitled to cancel the contract and take back the Retained Goods in the case of continued failure following expiry of a reasonable time set by the Supplier; the statutory provisions that a time limit is not needed remain unaffected. The Purchaser shall be obliged to surrender the Retained Goods.

IV. TIME FOR SUPPLIES; DELAY

1. Times set for Supplies can only be observed if all Documents to be supplied by the Purchaser, necessary permits and releases, especially concerning plans, are received in time and if agreed terms of payment and other obligations of the Purchaser are fulfilled. Unless these conditions are fulfilled in time, times set shall be extended appropriately; this shall not apply where the Supplier is responsible for the delay.
2. If non-observance of the times set is due to force majeure such as mobilization, war, rebellion or similar events, e. g. strike or lockout, such time shall be extended accordingly.
3. If the Supplier is responsible for the delay (hereinafter referred to as „Delay“) and the Purchaser demonstrably suffered a loss therefrom, the Purchaser may claim a compensation as liquidated damages of 0.5 % for every completed week of Delay, but in no case more than a total of 5 % of the price of that part of the Supplies which because of the Delay could not be put to the intended use.
4. Purchaser's claims for damages due to delayed Supplies as well as claims for damages in lieu of performance exceeding the limits specified in No. 3 above shall be excluded in all cases of delayed Supplies even upon expiry of a time set to the Supplier to effect the Supplies. This shall not apply in cases of mandatory liability based on intent, gross negligence, or due to injury of life, body or health. Cancellation of the contract by the Purchaser based on statute shall be limited to cases where the Supplier is responsible for the delay. The above provisions do not imply a change in the burden of proof to the detriment of the Purchaser.
5. At the Supplier's request the Purchaser shall declare within a reasonable period of time whether the Purchaser cancels the contract due to the delayed Supplies or insists on the Supplies to be carried out.
6. If dispatch or shipment is delayed at the Purchaser's request by more than one month after notice of the readiness for dispatch was given, the Purchaser may be charged, for every month commenced, storage costs of 0.5 % of the price of the items of the Supplies, but in no case more than a total of 5 %. The parties to the contract may prove that higher or, as the case may be, lower storage costs have been incurred.

V. TRANSFER OF RISK

1. Even where delivery has been agreed freight free, the risk shall pass to the Purchaser as follows:
   a) if the Supplies do not include assembly or erection, at the time when the Supplies are shipped or picked up by the carrier. Upon request of the Purchaser, the Supplier shall insure the Supplies against the usual risks of transport at the expense of the Purchaser;
   b) if the Supplies include assembly or erection, at the day of taking over in the own works or, if so agreed, after a fault-free trial run.
2. The risk shall pass to the Purchaser if dispatch, shipping, the start or performance of assembly or erection, the taking over in the own works or the trial run is delayed for reasons for which the Purchaser is responsible or if the Purchaser has otherwise failed to accept the Supplies.

VI. SPECIAL VERSIONS

CEEtyp socket outlet combinations, assemblies for construction sites , distribution ACS for festival grounds and market places as well as transformer compact stations are special versions according to customer's requirements. Taking back is not possible.

VII. RECEIVING OF SUPPLIES

The Purchaser shall not refuse to receive Supplies due to minor defects.

VIII. DEFECTS AS TO QUALITY

The Supplier shall be liable for defects as to quality (*„Sachmängel“*, hereinafter referred to as „Defects“,) as follows:

1. All parts or services where a Defect becomes apparent within the limitation period shall, at the discretion of the Supplier, be repaired, replaced or provided again free of charge irrespective of the hours of operation elapsed, provided that the reason for the Defect had already existed at the time when the risk passed.
2. Claims based on Defects are subject to a limitation period of 12 months. This provision shall not apply where longer periods are prescribed by law according to Sec. 438 para. 1 No. 2 (buildings and things used for a building), Sec. 479 para. 1 (right of recourse), and Sec. 634a para. 1 No. 2 (defects of a building) German Civil Code („BGB“), as well as in cases of injury of life, body or health, or where the Supplier intentionally or grossly negligently fails to fulfil its obligation or fraudulently conceals a Defect. The legal provisions regarding suspension of expiration *(„Ablaufhemmung“)*, suspension *(„Hemmung“)* and recommencement of limitation periods remain unaffected.
3. The Purchaser shall notify Defects to the Supplier in writing and without undue delay.
4. In the case of notification of a Defect, the Purchaser may withhold payments to a reasonable extent taking into account the Defect occurred. The Purchaser, however, may withhold payments only if the subject-matter of the notification of the Defect occurred is justified beyond doubt. Unjustified notifications of Defect shall entitle the Supplier to have its expenses reimbursed by the Purchaser.
5. The Supplier shall first be given the opportunity to supplement its performance *(„Nacherfüllung“)* within a reasonable period of time.
6. If supplementary performance is unsuccessful, the Purchaser shall be entitled to cancel the contract or reduce the remuneration, irrespective of any claims for damages it may have according to Art. XI.
7. There shall be no claims based on Defect in cases of insignificant deviations from the agreed quality, of only minor impairment of usefulness, of natural wear and tear or damage arising after the transfer of risk from faulty or negligent handling, excessive strain, unsuitable equipment, defective workmanship, inappropriate foundation soil or from particular external influences not assumed under the contract, or from non-reproducible software errors. Claims based on defects attributable to improper modifications or repair work carried out by the Purchaser or third parties and the consequences thereof shall be likewise excluded.
8. The Purchaser shall have no claim with respect to expenses incurred in the course of supplementary performance, including costs of travel and transport, labour, and material, to the extent that expenses are increased because the subject-matter of the Supplies was subsequently brought to another location than the Purchaser's branch office, unless doing so complies with the intended use of the Supplies.
9. The Purchaser's right of recourse against the Supplier pursuant to Sec. 478 BGB is limited to cases where the Purchaser has not concluded an agreement with its customers exceeding the scope of the statutory provisions governing claims based on Defects. Moreover, No. 8 above shall apply mutatis mutandis to the scope of the right of recourse the Purchaser has against the Supplier pursuant to Sec. 478 para. 2 BGB.
10. Furthermore, the provisions of Art. XI (Other Claims for Damages) shall apply in respect of claims of damages. Any other claims of the Purchaser against the Supplier or its agents or any such claims exceeding the claims provided for in this Art. VIII, based on a Defect, shall be excluded.

IX. INDUSTRIAL PROPERTY RIGHTS AND COPYRIGHT; DEFECTS IN TITLE

1. Unless otherwise agreed, the Supplier shall provide the Supplies free from third parties' industrial property rights and copyrights (hereinafter referred to as „IPR“) with respect to the country of the place of destination. If a third party asserts a justified claim against the Purchaser based on an infringement of an IPR with respect to the Supplies made by the Supplier and then used in conformity with the contract, the Supplier shall be liable to the Purchaser within the time period stipulated in Art. VIII No. 2 as follows:
   a) The Supplier shall choose whether to acquire, at its own expense, the right to use the IPR with respect to the Supplies concerned or whether to modify the Supplies such that they no longer infringe the IPR or replace them. If this would be unreasonable to demand from the Supplier, the Purchaser may cancel the contract or reduce the remuneration pursuant to the applicable statutory provisions.
   b) The Supplier's liability to pay damages shall be governed by Art. XI.
   c) The above obligations of the Supplier shall only apply if the Purchaser (i) immediately notifies the Supplier of any such claim asserted by the third party in writing, (ii) does not concede the existence of an infringement and (iii) leaves any protective measures and settlement negotiations to the dis-cretion of the Supplier. If the Purchaser stops using the Supplies in order to reduce the damage or for other good reason, it shall be obliged to point out to the third party that no acknowledgement of the alleged infringement may be inferred from the fact that the use has been discontinued.
2. Claims of the Purchaser shall be excluded if it is itself responsible for the infringement of an IPR.
3. Claims of the Purchaser shall also be excluded if the infringement of the IPR is caused by specifications made by the Purchaser, to a type of use not foreseeable by the Supplier or to the Supplies being modified by the Purchaser or being used together with products not provided by the Supplier.
4. In addition, with respect to claims by the Purchaser pursuant to No. 1 a) above, Art. VIII Nos. 4, 5, and 9 shall apply mutatis mutandis in the event of an infringement of an IPR.
5. Where other defects in title occur, Art. VIII shall apply mutatis mutandis.
6. Any other claims of the Purchaser against the Supplier or its agents or any such claims exceeding the claims provided for in this Art. IX, based on a defect in title, shall be excluded.

X. IMPOSSIBILITY OF PERFORMANCE; ADAPTATION OF CONTRACT

1. To the extent that Supplies are impossible to be carried out, the Purchaser shall be entitled to claim damages, unless the Supplier is not responsible for the impossibility. The Purchaser's claim for damages shall, however, be limited to an amount of 10 % of the value of the part of the Supplies which, owing to the impossibility, cannot be put to the intended use. This limitation shall not apply in the case of mandatory liability based on intent, gross negligence or injury of life, body or health; this does not imply a change in the burden of proof to the detriment of the Purchaser. The right of the Purchaser to cancel the contract shall remain unaffected.
2. Where unforeseeable events within the meaning of Art. IV No. 2 substantially change the economic importance or the contents of the Supplies or considerably affect the Supplier's business, the contract shall be adapted taking into account the principles of reasonableness and good faith. Where doing so is economically unreasonable, the Supplier shall have the right to cancel the contract. If the Supplier intends to exercise its right to cancel the contract, it shall notify the Purchaser thereof without undue delay after having realised the repercussions of the event; this shall also apply even where an extension of the delivery period had previously been agreed with the Purchaser.

XI. OTHER CLAIMS FOR DAMAGES

1. Any claims for damages and reimbursement of expenses the Purchaser may have (hereinafter referred to as „Claims for Damages“), based on whatever legal reason, including infringement of duties arising in connection with the contract or tort, shall be excluded.
2. The above shall not apply in the case of mandatory liability, e. g. under the German Product Liability Act *(„Produkthaftungsgesetz“)*, in the case of intent, gross negligence, injury of life, body or health, or breach of a condition which goes to the root of the contract *(„wesentliche Vertragspflichten“)*. However, Claims for Damages arising from a breach of a condition which goes to the root of the contract shall be limited to the foreseeable damage which is intrinsic to the contract, unless caused by intent or gross negligence or based on liability for injury of life, body or health. The above provision does not imply a change in the burden of proof to the detriment of the Purchaser.
3. To the extent that the Purchaser has a valid Claim for Damages according to this Art. XI, it shall be time-barred upon expiration of the limitation period applicable to Defects pursuant to Art. VIII No. 2. In the case of claims for damages under the German Product Liability Act, the statutory provisions governing limitation periods shall apply.

XII. VENUE AND APPLICABLE LAW

1. If the Purchaser is a businessperson, sole venue for all disputes arising directly or indirectly out of the contract is Rockenhausen. However, the Supplier may also bring an action at the Purchaser's place of business.
2. Legal relations existing in connection with this contract shall be governed by German substantive law, to the exclusion of the United Nations Convention on Contracts for the International Sale of Goods (CISG).

XIII. SEVERABILITY CLAUSE

The legal invalidity of one or more provisions of this contract shall in no way affect the validity of the remaining provisions. This shall not apply if it would be unreasonable for one of the parties to continue the contract.