



Plugs for the world

Industrial plugs and sockets



International
Edition

Global focus

Well known internationally and certified.



MENNEKES plugs and sockets are well known all over the world - and comply with the relevant national and international standards. More than half of our products are destined for international markets. This is why MENNEKES also has a global presence, with subsidiaries and agencies in more than 90 countries. When plugs and sockets are being tested by independent testing authorities, such as the VDE Testing and Certification Institute, the test reports are compiled according to CCA or CB-II procedures. They then serve as the basis for approvals in other countries, such as those whose national test marks are shown below. For plugs and sockets for USA and Canada please contact us.



Unmistakable

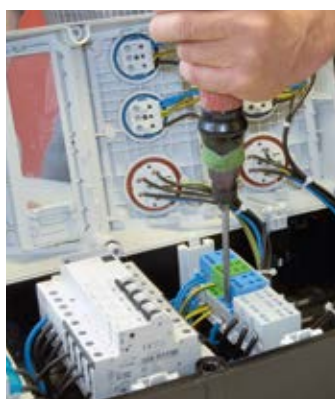


Kirchhundem headquarters

Since 80 years the MENNEKES name has been the byword for unmistakable products in the markets of the world. Every expert and end user in the electrical industry knows: Only those products which have the MENNEKES brand name on, contain MENNEKES quality.

We give you a promise of quality and service. This promise is one of the main reasons why our family-owned company has a brand which is irreplaceable. We live our brand and feel obliged to it. You can rely on MENNEKES. This is and

remains the driving force of our 1.000 employees worldwide. It is through their daily dedication where they prove their commitment to the MENNEKES brand, whether it is in Germany, in Great Britain or in any other part of the world. Highest quality, reliability, safety, power of innovation, marketability and sustainability of our action form our brand. We have a clear identity which makes MENNEKES the ideal partner for you, our customers and the end user, being a reliable supplier of an irreplaceable brand.



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

CEE receptacles 16 A up to 125 A

63 A: SoftCONTACT, 125 A: TorsionSpringCONTACT.

Other voltages and frequencies available on request. For drawings and dimensions see page 20 - 25.

Wall mounted receptacle		Drawing 1 MB 205				
		A	P	110 V	230 V	400 V
	IP 44	16	3	1177	1178	
		16	4		1267	1268
		16	5			1
		32	3	1368	1369	
		32	4	1371	1372	1373
		32	5			2

Wall mounted receptacle		Drawing 1 MB 43				
		A	P	110 V	230 V	400 V
	IP 44	16	4	3030	3034	1418
		16	5	3041	3045	1419
		32	3	1420	1421	1422
		32	4	1423	1424	1425
		32	5	1555	1556	1557

Wall mounted receptacle		Drawing 1 MB 622				
		A	P	110 V	230 V	400 V
	IP 67	16	3	9300	9301	9302
		16	4	9320	9321	9322
		16	5	9340	9341	9342
		32	3	9350	9351	9352
		32	4	9370	9371	9372
		32	5	9380	9381	9382

Wall mounted receptacle		Drawing 1 MB 162				
		A	P	110 V	230 V	400 V
	IP 67	125	4	137	138	139
		125	5	141	142	143

Panel mounted receptacle		Drawing 1 MB 247				
		A	P	110 V	230 V	400 V
	straight IP 44	16	3	1365	1366	1367
		16	4	1388	1389	1390
		16	5	1384	1386	1385
		32	3	1394	1395	1396
		32	4	1397	1398	1399
		32	5	3449	3454	3451

Panel mounted receptacle		Drawing 1 MB 260				
		A	P	110 V	230 V	400 V
	angled 20° IP 44	16	3	1462	1463	1464
		16	4	1465	1466	1467
		16	5	1471	1472	1473
		32	3	1491	1492	1493
		32	4	1494	1495	1496
		32	5	1498	1499	1500

Panel mounted receptacle		Drawing 1 MB 211				
		A	P	110 V	230 V	400 V
	straight IP 44	63	3	1260A	1261A	1262A
		63	4	1246A	1247A	1248A
		63	5	1250A	1251A	1252A

Panel mounted receptacle		Drawing 1 MB 297				
		A	P	110 V	230 V	400 V
	angled 20° IP 44	63	3	1146A	1147A	1148A
		63	4	1149A	1150A	1151A
		63	5	1153A	1154A	1155A

Panel mounted receptacle		Drawing 1 MB 453				
		A	P	110 V	230 V	400 V
	angled 20°, standard flange: 85 x 85 mm, fixing hole spacing: 70 x 70 mm IP 44	16	3	3031	3036	
		16	4			3072
		16	5			3093
		32	3	3110	3112	
		32	4			3136
		32	5			3153

Wall mounted receptacle		Drawing 1 MB 209				
		A	P	110 V	230 V	400 V
	IP 44	16	3	100	101	102
		16	4	103	104	105
		16	5	109	110	111

Wall mounted receptacle		Drawing 1 MB 213				
		A	P	110 V	230 V	400 V
	IP 44	63	3	1136A	1137A	1138A
		63	4	1139A	1140A	1141A
		63	5	1143A	1144A	1145A

Wall mounted receptacle		Drawing 1 MB 112				
		A	P	110 V	230 V	400 V
	IP 67	63	3	856	128A	129A
		63	4	130A	131A	132A
		63	5	134A	135A	136A

Wall mounted receptacle		Drawing 1 MB 163				
		A	P	110 V	230 V	400 V
	with large space for accommodating wiring IP 67	125	5			2162A

Panel mounted receptacle		Drawing 1 MB 141				
		A	P	110 V	230 V	400 V
	straight IP 67	16	3	217A	218A	219A
		16	4	220A	221A	222A
		16	5	226A	227A	228A
		32	3	229A	230A	231A
		32	4	232A	233A	234A
		32	5	238A	239A	240A

Panel mounted receptacle		Drawing 1 MB 251				
		A	P	110 V	230 V	400 V
	angled 20° IP 67	16	3	1474	1475	1476
		16	4	1477	1478	1479
		16	5	1483	1484	1485
		32	3	1501	1502	1503
		32	4	1504	1505	1506
		32	5	1489	1490	1551

Panel mounted receptacle		Drawing 1 MB 212/1 MB 258				
		A	P	110 V	230 V	400 V
	straight IP 67	63	3	1263A	1264A	1265A
		63	4	1122A	1123A	1124A
		63	5	1126A	1127A	1128A
		125	3		3380	
		125	4	1455	1456	1457
		125	5	1459	1460	1461

Panel mounted receptacle		Drawing 1 MB 298/1 MB 601				
		A	P	110 V	230 V	400 V
	angled 20° IP 67	63	3	2179A	2180A	2181A
		63	4	203A	204A	205A
		63	5	207A	208A	209A
		125	3		3575	
		125	4	210A	211A	212A
		125	5	214A	215A	216A

Panel mounted receptacle		Drawing 1 MB 452				
		A	P	110 V	230 V	400 V
	angled 20°, standard flange: 85 x 85 mm, fixing hole spacing: 70 x 70 mm IP 67	16	3	903	905	
		16	4			1081
		16	5			1103
		32	3	3197	3200	
		32	4			3254
		32	5			3524

CEE receptacles 16 A up to 32 A ■ screwless connection technique TwinCONTACT

Other voltages and frequencies available on request. For drawings and dimensions see page 20 - 25.

Wall mounted receptacle Drawing 1 MB 463

	A	P	110 V	230 V	400 V
	16	3	1340	1341	
	16	4		1342	1343
	16	5			31
	32	3	1345	1346	
	32	4		1347	1348
	32	5			32

Wall mounted receptacle Drawing 1 MB 43

	A	P	110 V	230 V	400 V
	16	4	1750	1751	418
	16	5	1755	1756	419
	32	3	1851	420	1852
	32	4	1855	1856	421
	32	5	1860	1861	422

Panel mounted receptacle Drawing 1 MB 464

	A	P	110 V	230 V	400 V
	16	3	1667	1668	1669
	16	4	1672	1673	1674
	16	5	1678	1679	3385
	32	3	1786	1787	1788
	32	4	1789	1790	1791
	32	5	1795	1796	1797

Panel mounted receptacle Drawing 1 MB 465

	A	P	110 V	230 V	400 V
	16	3	1631	1632	1633
	16	4	1636	1637	1638
	16	5	1642	1643	3473
	32	3	1733	1734	1735
	32	4	1738	1739	1740
	32	5	1744	1745	1746

Panel mounted receptacle RAPIDO® Drawing 1 MB 468

	A	P	110 V	230 V	400 V
	16	3	1132	997	

Wall mounted receptacle Drawing 1 MB 209

	A	P	110 V	230 V	400 V
	16	3	1719	1720	1721
	16	4		1723	1724
	16	5		1730	3331

Wall mounted receptacle Drawing 1 MB 622

	A	P	110 V	230 V	400 V
	16	3	9104	9105	9106
	16	4	9120	9121	9122
	16	5	9140	9141	9142
	32	3	9150	9151	9152
	32	4	9170	9171	9172
	32	5	9180	9181	9182

Panel mounted receptacle Drawing 1 MB 467

	A	P	110 V	230 V	400 V
	16	3	1707	1708	1709
	16	4	1710	1711	1712
	16	5	1716	1717	1131
	32	3	1809	1810	1811
	32	4	1812	1813	1814
	32	5	1818	1819	1820

Panel mounted receptacle Drawing 1 MB 466

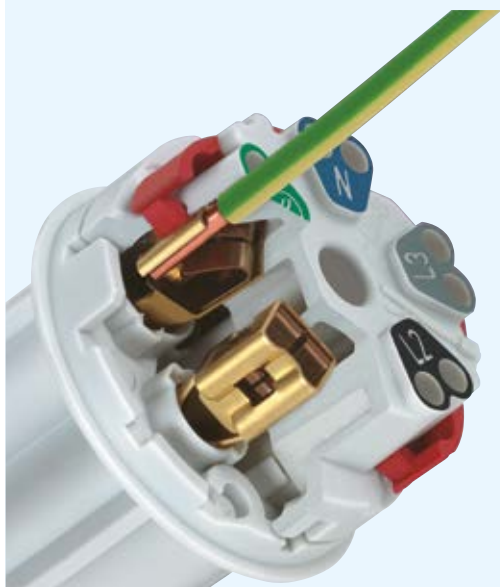
	A	P	110 V	230 V	400 V
	16	3	1700	1701	1702
	16	4		1703	1704
	16	5			3485
	32	3	1801	1802	1803
	32	4		1804	1805
	32	5			1808

Panel mounted receptacle RAPIDO® Drawing 1 MB 468

	A	P	110 V	230 V	400 V
	16	4		1133	998
	16	5			907
	32	3	1135	987	
	32	4		1166	988
	32	5			989

TwinCONTACT Screwless connection technique

without screws, double terminal with split spring for through-wiring.



RAPIDO®

RAPIDO® receptacles are available with screw terminals or screwless with TwinCONTACT.

16 A, 3 p:

for mounting holes 61 mm diam. and wall thickness from 2 up to 5 mm.

16 A, 4 p + 5 p and 32 A:

for mounting holes 70 mm diam. and wall thickness from 2 up to 9 mm.



CEE plugs and inlets 16 A up to 125 A

Other voltages and frequencies available on request. For drawings and dimensions see page 20 - 25.

Plug AM-TOP®

	single part body, screw terminals		A	P	110 V	230 V	400 V
			16	3	247	248	249
			16	4	250	251	252
			16	5	256	257	3
			32	3	259	260	261
			32	4	262	263	264
IP 44			32	5	268	269	4

Plug StarTOP® with SafeCONTACT

	screwless with insulation displacing technique		A	P	110 V	230 V	400 V
			16	3	947	948	
			16	4		951	952
			16	5			33
			32	3	711	712	
			32	4		717	719
IP 44			32	5			34

Plug AM-TOP®

	single part body, screw terminals		A	P	110 V	230 V	400 V
			16	3	277	278	279
			16	4	280	281	282
			16	5	286	287	288
			32	3	289	290	291
			32	4	292	293	294
IP 67			32	5	298	299	300

Plug PowerTOP® Xtra

	with rubberised grip area, for toughest conditions		A	P	110 V	230 V	400 V
			63	3	13201	13202	13203
			63	4	13204	13205	13206
			63	5	13210	13211	13212
			125	3	13215	13216	
			125	4	13217	13218	13219
IP 67			125	5	13223	13224	13225

Panel mounted inlet RAPIDO®

Drawing 2 MB 215

	central fixing, 61 mm Ø mounting hole		A	P	110 V	230 V	400 V
			16	3	919	924	
			16	4			931
			16	5			949
IP 44							

Wall mounted inlet

Drawing 2 MB 221

	different drawing dimensions for 16 A, 3 p and 4 p		A	P	110 V	230 V	400 V
			16	3	843	844	
			16	4			800
			16	5			801
			32	3		802	
			32	4			803
IP 44			32	5			804

Panel mounted inlet

Drawing 2 MB 43

	with hinged lid		A	P	110 V	230 V	400 V
			16	4	392	393	394
			16	5	398	399	400
			32	3	401	402	403
			32	4	404	405	406
			32	5	410	411	412
IP 44							

Panel mounted inlet

Drawing 2 MB 173/2

			A	P	110 V	230 V	400 V
			16	3	810	812	
			16	4		837	813
			16	5			815
			32	3	816	817	
			32	4		838	819
IP 44			32	5			821

Panel mounted inlet

Drawing 2 MB 187/2

			A	P	110 V	230 V	400 V
			16	3	825	826	
			16	4		839	827
			16	5			829
			32	3	830	831	
			32	4		840	832
IP 67			32	5			834

Plug ProTOP

	split body, screw terminals		A	P	110 V	230 V	400 V
			16	3	147A	148A	149A
			16	4		151A	152A
			16	5			13A
			32	3	159	160	
			32	4		163	164
IP 44			32	5			14A

Plug PowerTOP® Xtra

	with rubberised grip area, for toughest conditions		A	P	110 V	230 V	400 V
			63	3	13101	13102	
			63	4		13105	13106
			63	5		13111	13112
IP 44							

Plug PowerTOP®

	with external strain relief		A	P	110 V	230 V	400 V
			16	3	3794	3796	3799
			16	4	3807	3811	3809
			16	5	3819	3823	3821
			32	3	3829	3830	3832
			32	4	3839	3844	3841
IP 67			32	5	3851	3855	3853

Angled plug

	* 16 A, 5 p, 230 V and 400 V: VarioTOP		A	P	110 V	230 V	400 V
			16	3	1410	1411	
			16	4		891	315
			16	5		3981*	3980*
			32	3	3312	3306	
			32	4		3646	3987
IP 44			32	5		3424	3266

Panel mounted inlet RAPIDO®

Drawing 2 MB 215

	central fixing, 70 mm Ø mounting hole		A	P	110 V	230 V	400 V
			16	4		932	933
			16	5			972
			32	3	935	938	
			32	4		939	942
			32	5			945
IP 44							

Wall mounted inlet

Drawing 2 MB 32

			A	P	110 V	230 V	400 V
			16	3	331	332	333
			16	4	334	335	336
			16	5	340	341	342
			32	3	343	344	345
			32	4	346	347	348
IP 44			32	5	352	353	354

Wall mounted inlet

Drawing 2 MB 36

			A	P	110 V	230 V	400 V
			63	3	1216	1107	1217
			63	4	355	356	357
			63	5	359	360	361
			125	4	362	363	364
			125	5	366	367	368
IP 67							

Panel mounted inlet

Drawing 2 MB 155

			A	P	110 V	230 V	400 V
			63	3	822	1981	
			63	4		1984	1982
			63	5			1688
IP 44							

Panel mounted inlet

Drawing 2 MB 166

			A	P	110 V	230 V	400 V
			63	3	835	836	
			63	4		3704	3656
			63	5			3658
			125	3		3665	
			125	4		3413	3583
IP 67			125	5			1983

CEE connectors 16 A up to 125 A

63 A: SoftCONTACT, 125 A: TorsionSpringCONTACT.
Other voltages and frequencies available on request.

Connector AM-TOP®

	single part body, screw terminals		A	P	110 V	230 V	400 V
			16	3	509	510	511
			16	4	512	513	514
			16	5	518	519	5
			32	3	521	522	523
			32	4	524	525	526
IP 44			32	5	530	531	6

Connector StarTOP® with SafeCONTACT

	screwless with insulation displacing technique		A	P	110 V	230 V	400 V
			16	3	979	980	
			16	4		993	994
			16	5			35
			32	3	725	731	
			32	4		761	763
IP 44			32	5			36

Connector AM-TOP®

	single part body, screw terminals		A	P	110 V	230 V	400 V
			16	3	539	540	541
			16	4	542	543	544
			16	5	548	549	550
			32	3	551	552	553
			32	4	554	555	556
IP 67			32	5	560	561	562

Connector PowerTOP® Xtra

	with rubberised grip area, for toughest conditions		A	P	110 V	230 V	400 V
			63	3	14201	14202	14203
			63	4	14204	14205	14206
			63	5	14210	14211	14212
			125	3	14215	14216	
			125	4	14217	14218	14219
IP 67			125	5	14223	14224	14225

Connector ProTOP

	split body, screw terminals		A	P	110 V	230 V	400 V
			16	3	179A	180A	181A
			16	4		193A	194A
			16	5			15A
			32	3	121	122	
			32	4		125	126
IP 44			32	5			16A

Connector PowerTOP® Xtra

	with rubberised grip area, for toughest conditions		A	P	110 V	230 V	400 V
			63	3	14101	14102	
			63	4		14105	14106
			63	5		14111	14112
IP 44							

Connector PowerTOP®

	with external strain relief		A	P	110 V	230 V	400 V
			16	3	3859	3860	3862
			16	4	3869	3873	3871
			16	5	3879	3883	3881
			32	3	3887	3888	3891
			32	4	3896	3899	3897
IP 67			32	5	3905	3909	3907

Angled connector

			A	P	110 V	230 V	400 V
			16	3		1438	
IP 44							

PowerTOP® Xtra



SoftCONTACT



TorsionSpringCONTACT



PowerTOP® Xtra is rubberised for the best grip. Improved impact resistance even under humid conditions. Highly heat resistant contact carrier, frame terminals, cable gland and sealing, strain relief and protection against kinking. Enclosure with thread lock, two safety slides and plugs with nickel plated contacts.

Connectors 63 A with **SoftCONTACT** and 125 A with **TorsionSpringCONTACT**.

StarTOP®



StarTOP® with SafeCONTACT, screwless insulation displacing technique, cable gland with sealing, strain relief, protection against kinking, 2-part enclosure with thread lock and safety slide.

CEE receptacles switched 16 A up to 125 A ■ with mechanical DUO-interlock

63 A: SoftCONTACT, 125 A: TorsionSpringCONTACT. Receptacles can be padlocked.
Other voltages and frequencies available on request. For drawings and dimensions see page 20 - 25.

Wall mounted receptacle		Drawing 1 MB 174				
		A	P	110 V	230 V	400 V
	16	3		7010A	7002A	
	16	4		5457A	5099A	5100A
	16	5		5459A	5102A	5103A
	32	3		5743A	5696A	
	32	4		5460A	5104A	5105A
	32	5		5462A	5107A	5108A

Wall mounted receptacle		Drawing 1 MB 234				
		A	P	110 V	230 V	400 V
	63	3		6569	6571	
	63	4			5955A	5956A
	63	5				5959A

Wall mounted receptacle		Drawing 1 MB 550				
		A	P	110 V	230 V	400 V
	16	3		7602	7603	
	16	4			7604	7605
	16	5				7607
	32	3		7611	7612	
	32	4			7613	7614
	32	5				7616

Panel mounted receptacle		Drawing 5 MB 59				
		A	P	110 V	230 V	400 V
	16	3		7502	7503	
	16	4			7504	7505
	16	5				7507
	32	3		7511	7512	
	32	4			7513	7514
	32	5				7516

Wall mounted receptacle		Drawing 1 MB 208				
		A	P	110 V	230 V	400 V
	16	3			7213	
	16	4				5610A
	16	5				5613A
	32	4				5615A
	32	5				5618A
	63	4				6059A

Wall mounted receptacle		Drawing 1 MB 208				
		A	P	110 V	230 V	400 V
	16	3			7216	
	16	4				7217
	16	5				7218
	32	4				7219
	32	5				7220
	63	4				7221

Wall mounted receptacle		Drawing 1 MB 207				
		A	P	110 V	230 V	400 V
	16	3		7011A	7012A	
	16	4			5599A	5600A
	16	5			5602A	5603A
	32	3		5924A	5793A	
	32	4			5604A	5605A
	32	5			5607A	5608A

Wall mounted receptacle		Drawing 63 A: 1 MB 180 / 125 A: 1 MB 177				
		A	P	110 V	230 V	400 V
	63	3		5925A	5911A	
	63	4			5109A	5110A
	63	5			5112A	5113A
	125	3		7060	7000	
	125	4			5887A	5691A
	125	5			5888A	5692A

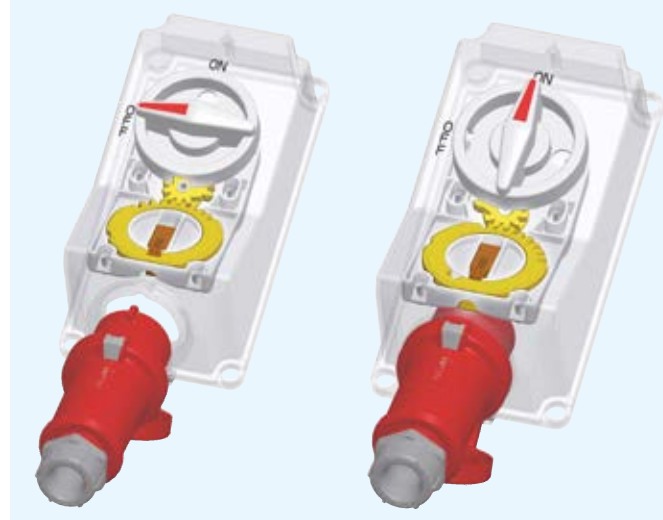
Wall mounted receptacle		Drawing 1 MB 551				
		A	P	110 V	230 V	400 V
	16	3		7620	7621	
	16	4			7623	7624
	16	5				7626
	32	3		7628	7629	
	32	4			7633	7634
	32	5				7636

Panel mounted receptacle		Drawing 5 MB 57				
		A	P	110 V	230 V	400 V
	16	3		7520	7521	
	16	4			7523	7524
	16	5				7526
	32	3		7530	7531	
	32	4			7533	7534
	32	5				7536

Wall mounted receptacle		Drawing 1 MB 181				
		A	P	110 V	230 V	400 V
	16	3			7050	
	16	4				5630A
	16	5				5633A
	32	4				5635A
	32	5				5638A
	63	4				5640A

Wall mounted receptacle		Drawing 1 MB 181				
		A	P	110 V	230 V	400 V
	16	3			7238	
	16	4				7239
	16	5				7240
	32	4				7241
	32	5				7242
	63	4				7243

Mechanical DUO interlock



After insertion and switching on, the plug is interlocked in the ON-position.
After switching off and withdrawing, the switch is locked in the OFF-position.



CEE phase inverter plugs and inlets, plugs and sockets for low voltage

Other voltages and frequencies available on request. For drawings and dimensions see page 20 - 25.

Phase inverter plug AM-TOP®

	single part body, screw terminals		A	P	110 V	230 V	400 V
			16	4		338	339
			16	5		318	319
			32	4		396	397
			32	5		321	322

IP 44

Phase inverter plug ProTOP

	split body, screw terminals		A	P	110 V	230 V	400 V
			16	5			3319A
			32	5			3322

IP 44

Wall mounted phase inverter inlet

Drawing 2 MB 221

			A	P	110 V	230 V	400 V
			16	5			3517
			32	5			3523

IP 44

Panel mounted phase inverter inlet

Drawing 2 MB 43

			A	P	110 V	230 V	400 V
			16	4		3348	3350
			16	5			20970
			32	4		3355	3356
			32	5		3717	21241

IP 44

Panel mounted phase inverter inlet

Drawing 2 MB 68/853

			A	P	110 V	230 V	400 V
			16	5			854

IP 44

Wall mounted receptacle

Drawing 1 MB 294

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

IP 44

Panel mounted receptacle

Drawing 1 MB 136

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

IP 44

Plug

			A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz
			16	2	629A	630A	
			16	3	636A	637A	638A
			32	2	642A	643A	
			32	3	649A	650A	651A

IP 44

Connector

			A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz
			16	2	681A	682A	
			16	3	688A	689A	690A
			32	2	694A	695A	
			32	3	701A	702A	703A

IP 44

Phase inverter plug AM-TOP®

	single part body, screw terminals		A	P	110 V	230 V	400 V
			16	4		3338	3339
			16	5			325
			32	4		3340	3341
			32	5		327	328

IP 67

Phase inverter VarioTOP

			A	P	110 V	230 V	400 V
			16	5			859

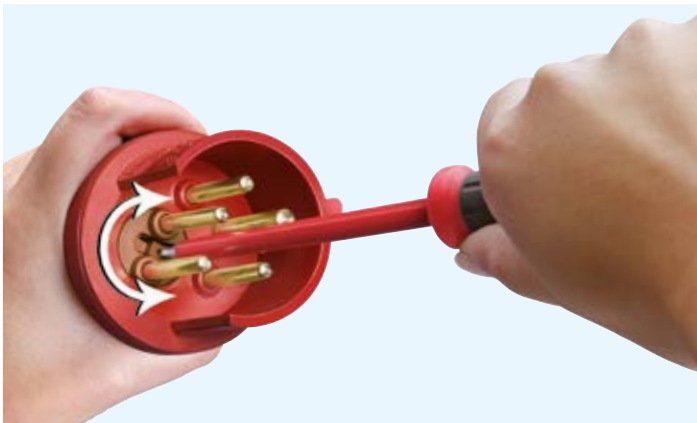
IP 44

Wall mounted phase inverter inlet

Drawing 2 MB 32

			A	P	110 V	230 V	400 V
			16	4		3342	3343
			16	5			2511
			32	4		3345	3346
			32	5		3347	2478

IP 44



Wall mounted receptacle

Drawing 1 MB 137

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

IP 44

Panel mounted receptacle

Drawing 1 MB 231

			A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz
			16	2	1270	2855	
			16	3	2845	1272	2860
			32	2	1271	2864	
			32	3	2870	1273	2852

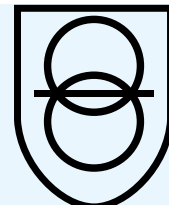
IP 44

Wall mounted inlet

Drawing 2 MB 160

			A	P	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz
			16	2	1955	1961	
			16	3	1962	1967	1965
			32	2	1968	1974	
			32	3	1975	1980	1978

IP 44



CEE plugs and sockets 7 pole

Other voltages and frequencies available on request. For drawings and dimensions see page 20 - 25.

Wall mounted receptacle

Drawing 1 MB 257

	A	P	230 V	400 V	500 V
16	7		733	734	1035
32	7		735	736	1040

Wall mounted receptacle

Drawing 1 MB 622

	A	P	230 V	400 V	500 V
16	7		9530	9531	9532
32	7		9590	9591	9592

Panel mounted receptacle

Drawing 1 MB 260

	A	P	230 V	400 V	500 V
16	7		737	738	1045
32	7		739	740	1050

Panel mounted receptacle

Drawing 1 MB 251

	A	P	230 V	400 V	500 V
16	7		2883	2459	2296
32	7			2317	2212

Plug AM-TOP®

	A	P	230 V	400 V	500 V
16	7		741	742	1055
32	7		743	744	1060

Plug AM-TOP®

	A	P	230 V	400 V	500 V
16	7		3776	3777	3913
32	7		2405	2324	2213

Wall mounted inlet

Drawing 2 MB 147

	A	P	230 V	400 V	500 V
16	7			2166	
32	7			2167	

Panel mounted inlet

Drawing 2 MB 71

	A	P	230 V	400 V	500 V
16	7		749	750	1075
32	7		751	752	1080

Connector AM-TOP®

	A	P	230 V	400 V	500 V
16	7		745	746	1065
32	7		747	748	1070

Connector AM-TOP®

	A	P	230 V	400 V	500 V
16	7		3783	3916	3784
32	7		2406	2255	2460

Wall mounted receptacle

Drawing 1 MB 383

	A	P	230 V	400 V	500 V
16	7			5536	
32	7			7061	

Wall mounted receptacle

Drawing 1 MB 382

	A	P	230 V	400 V	500 V
16	7			5785	
32	7			6106	

Plugs and sockets 7 pole for multifunctional applications

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

This number of poles provides solutions in the following fields:

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



CEE receptacles Cepex

Other voltages and frequencies available on request. For drawings and dimensions see page 20 - 25.

Cepex wall mounted receptacle

Drawing 1 MB 312

	A	P	110 V	230 V	400 V
grey	16	3	4101	4102	
	16	4		4254	4103
	16	5			4105
	32	3	4106	4107	
	32	4			4108
	32	5			4110
IP 44	SCHUKO®		4970		

Cepex wall mounted receptacle

Drawing 1 MB 317

	A	P	110 V	230 V	400 V
grey, with labelling field	16	3		4132	
	16	4			4133
	16	5			4135
	32	3		4137	
	32	4			4138
	32	5			4140
IP 44	SCHUKO®		4973		

Cepex wall mounted receptacle

Drawing 1 MB 313

	A	P	110 V	230 V	400 V
grey, with labelling field and lockable cover	16	3		4162	
	16	4			4163
	16	5			4165
	32	3		4167	
	32	4			4168
	32	5			4170
IP 44	SCHUKO®		4976		

Cepex panel mounted receptacle

Drawing 1 MB 315

	A	P	110 V	230 V	400 V
alpine white	16	5			4262
	32	5			4263
IP 44	SCHUKO®		4979		

Cepex flush mounted receptacle

Drawing 1 MB 336

	A	P	110 V	230 V	400 V
pearl white	16	3		4122	
	16	5			4125
	32	3		4127	
	32	5			4130
IP 44	SCHUKO®		4972		

Flush mounted installation box

	for Cepex CEE receptacles 16 A and 32 A and Cepex SCHUKO® receptacles				
41404					

Cepex panel mounted receptacle

Drawing 1 MB 315

	A	P	110 V	230 V	400 V
pearl white	16	3	4111	4112	
	16	4		4233	4113
	16	5			4115
	32	3	4116	4117	
	32	4			4118
	32	5			4120
IP 44	SCHUKO®		4971		

Cepex panel mounted receptacle

Drawing 1 MB 318

	A	P	110 V	230 V	400 V
pearl white, with labelling field	16	3	4141	4142	
	16	4			4143
	16	5			4145
	32	3	4146	4147	
	32	4			4148
	32	5			4150
IP 44	SCHUKO®		4974		

Cepex panel mounted receptacle

Drawing 1 MB 320

	A	P	110 V	230 V	400 V
pearl white, with labelling field and lockable cover	16	3	4171	4172	
	16	4			4173
	16	5			4175
	32	3		4177	
	32	4			4178
	32	5			4180
IP 44	SCHUKO®		4977		

Cepex panel mounted receptacle

Drawing 1 MB 318

	A	P	110 V	230 V	400 V
alpine white, with labelling field	16	3		4247	
	16	4			4273
	16	5			4237
	32	3		4274	
	32	4			4275
	32	5			4238
IP 44	SCHUKO®		4980		

Cepex modular system

Some versions of Cepex panel mounted receptacles are shown on the left. Further versions you can create using Cepex panel mounted receptacles, shown above, in combination with the installation box 41404.



Cepex SCHUKO® panel mounted receptacle with labelling field **4145**
+
flush mounted installation box **41404**
=
flush mounted receptacle

Perfect in every detail - one fits another

Anything goes.

Covers, current rating and colours may be optionally combined: neutral cover, with labelling field, with labelling field and lock, 3 pole, 5 pole and SCHUKO®.



 = Resistant to ball rebound.

All Cepex receptacles with neutral covers meet DIN 18032 standards for ball rebound and are suitable for use in sports facilities and comparable environments.

Plugs and sockets 200 A - 400 A, SCHUKO® and grounding-type receptacles

Plugs and sockets are available in seawater resistant design on request.
SCHUKO® and French/Belgian standard 16 A, 230 V, 2 p+E. British standard 13 A, 230 V, 2 p+E.
Other voltages and frequencies available on request. For drawings and dimensions see page 20 - 25.

Wall mounted receptacle

with cable gland	A	P	400 V
	200	4	75221
	200	5	75226
IP 67			

Panel mounted receptacle

	A	P	400 V
	200	4	75241
	200	5	75246
IP 67			

Wall mounted receptacle

Drawing 1 MB 386

switched and interlocked	A	P	400 V
	200	4	75231
	200	5	75236
IP 55			

Plug

with cable gland	A	P	400 V
	200	4	75201
	200	5	75206
IP 67			

Connector

with cable gland	A	P	400 V
	200	4	75211
	200	5	75216
IP 67			

Panel mounted receptacle SCHUKO®

Drawing 1 MB 410

with plug-in terminals or screw terminals, without shutter	Colour	plug-in terminals	screw terminals
	grey	11010	11030
	blue	11011	11031
	black	11012	11032
	red	11013	11033
IP 54			

Panel mounted receptacle SCHUKO®

Drawing 1 MB 5861

for portable use, with front gasket, with plug-in terminals or screw terminals, without shutter	Colour	plug-in terminals	screw terminals
	grey	11310	11330
	blue	11311	11331
	black	11312	11332
	red	11313	11333
IP 54			

Panel mounted receptacle SCHUKO®

Drawing 1 MB 450

with plug-in terminals or screw terminals, without shutter	Colour	plug-in terminals	screw terminals
	blue	11511	11531
	black	11512	11532
IP 20			

Plug SCHUKO®

combined PE-conductor acc. to German and French/Belgian standards, with grommet	Colour	
	grey	10749
	black	10754
	orange	10837
	blue	10838
	red	10839
	yellow	10840
IP 44		

Wall mounted receptacle

with cable gland	A	P	400 V
	250	4	75021
	250	5	75111
	400	4	75026
	400	5	75116
IP 67			

Panel mounted receptacle

	A	P	400 V
	250	4	75041
	250	5	75131
	400	4	75046
	400	5	75136
IP 67			

Wall mounted receptacle

Drawing 1 MB 403/2

switched and interlocked	A	P	400 V
	250	4	75031
	250	5	75121
	400	4	75036
	400	5	75126
IP 55			

Plug

with cable gland	A	P	400 V
	250	4	75001
	250	5	75091
	400	4	75006
	400	5	75096
IP 67			

Connector

with cable gland	A	P	400 V
	250	4	75011
	250	5	75101
	400	4	75016
	400	5	75106
IP 67			

Panel mounted receptacle SCHUKO®

Drawing 1 MB 410

with plug-in terminals or screw terminals, with shutter	Colour	plug-in terminals	screw terminals
	grey	11060	
	blue	11061	11081
IP 54			

Wall mounted receptacle SCHUKO®

Drawing 1 MB 27/30

with plug-in terminals, without shutter	Colour	plug-in terminals	screw terminals
	grey	10081	
	blue	10082	
	black	10083	
IP 44			

Grounding-type panel mounted receptacle

Drawing 1 MB 584

British standard, with screw terminals, with shutter and seal	Colour	plug-in terminals	screw terminals
	blue		10718
IP 44			

Connector SCHUKO®

with grommet	Colour	
	grey	10751
	black	10755
	orange	10842
	blue	10843
	red	10844
	yellow	10845
IP 44		

Plugs and sockets for reffer containers

to VDE 0623-2, EN 60309-2. Earthing contact in the 3 o'clock position. Colour: electric grey and/or colour code.
Other voltages and frequencies available on request. For drawings and dimensions see page 20 - 25.

Wall mounted receptacle		Drawing 1 MB 622			
	IP 67	A	P	h	380 - 440 V
		32	4	3	9562

Wall mounted receptacle		Drawing 1 MB 181			
	IP 67	A	P	h	380 - 440 V
		32	4	3	5946A

Plug AM-TOP®		Drawing 1 MB 181			
	IP 67	A	P	h	380 - 440 V
		32	4	3	2175B

Panel mounted inlet		Drawing 1 MB 181			
	IP 67	A	P	h	380 - 440 V
		200	4	3	2692



CEE receptacles	
3 CEE 32 A, 4 p, 380 - 440 V, 3 h switched, with mechanical DUO interlock	
CEE receptacles	
Receptacles SCHUKO®	
Fusing	
3 MCB's 32 A, 3 p, C 1 earth bolt M 10, V2A	
Connection/feeder cable	
for 1 cable up to 5 x 25 mm²	
Connection and load values	
Pre-fuse max. 100 A InA 58 A RDF 0.6	
Enclosure size	
520 x 225 mm (H x W)	
Part no.	
940027	IP 67

Wall mounted receptacle		Drawing 1 MB 207			
	IP 67	A	P	h	380 - 440 V
		32	4	3	5792A

Panel mounted receptacle		Drawing 1 MB 141			
	IP 67	A	P	h	380 - 440 V
		32	4	3	2123A

Phase sequence test plug		Drawing 1 MB 141			
	IP 44	A	P	h	380 - 440 V
		32	4	3	3718

Connector AM-TOP®		Drawing 1 MB 141			
	IP 67	A	P	h	380 - 440 V
		32	4	3	2177A

Receptacle combinations for containers, made to measure



From the AMAXX® enclosure product range with 1, 2, 3, 4 or 5 segments, we put together your desired combination.

Multiple adjacent enclosures can also be connected to form a unit. The combinations are manufactured with or without switched interlocked DUO receptacles.

In addition, the enclosures can be equipped with monitoring sockets.

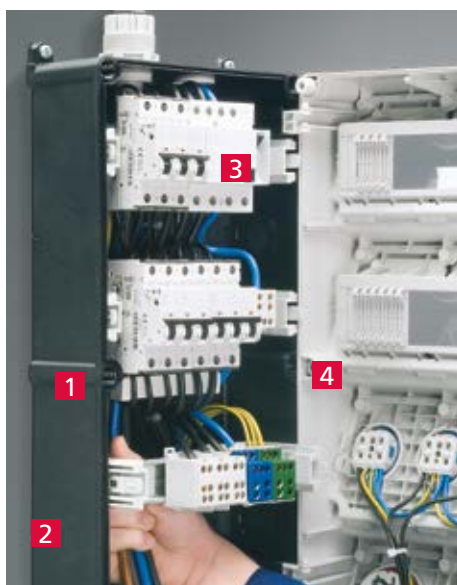
Success in series

Extensively configurable receptacle combinations in six different sizes – the AMAXX® range by MENNEKES. With an appealing and unique design in many variations for almost all applications.



- Protection types: IP 44 and IP 67.
- Enclosure materials: AMAPLAST and especially chemical resistant AMELAN®.
- Colours: bottom part black, top part grey, silver (IP 44), yellow or red.
- Equipped with: CEE receptacles from 16 A, 3 p up to 63 A, 5 p, grounding-type receptacles in acc. with many national standards, DUO receptacles switched and interlocked from 16 A, 3 p to 32 A, 5 p as well as fuse elements.

Features and benefits



1 Liftable DIN rails

Liftable DIN rails and a large, smooth wiring space significantly ease the insertion as well as connection of large cables.

2 One-man installation

Shorter installation times with the new, userfriendly external fixing.

3 Hinged cover

The hinged cover which opens to one side, eases connection work.

4 Ready for application

All combinations are pre-wired for installation and tested for electric safety and quality.



Generally angled insertion direction.



Especially fast opening and closing of the enclosure due to captive doublethreaded cover screws.



Both hands free because inspection windows fold downwards.



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

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

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

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

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

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

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

■ Product safety

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

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

■ Clear documentation

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

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

■ Clear specifications

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

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

■ Distinction: Original manufacturer - manufacturer

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

Your advantage: For receptacle combinations that are ready for connection, MENNEKES is the original manufacturer and manufacturer and therefore bears the complete product responsibility.

Example – rating plate

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

U_n Rated voltage

f_n Rated frequency



RDF Rated diversity factor

I_{cc} Conditional rated short-circuit current

Protection class

IP Ingress protection

For further information please visit our website: www.MENNEKES.de



AMAXX® receptacle combinations

Made of AMAPLAST, pre-wired for installation, IP 44.

Enclosure front cover electric grey, yellow or silver, hinged to the side, fusing behind a transparent cover.



Receptacles
1 CEE 32 A, 5 p, 400 V 2 SCHUKO® 16 A, 230 V
Fusing
1 MCB 32 A, 3 p, C 2 MCB's 16 A, 1 p, C
Connection/feeder cable
for 1 cable up to 5 x 10 mm²
Connection and load values
Pre-fuse max. 63 A InA 48 A RDF 1
Enclosure size
260 x 225 mm (H x W)
Part no.
920011 IP 44



Receptacles
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 3 SCHUKO® 16 A, 230 V 1 Cepex RJ45, 2 fold Cat.6
Fusing
1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 3 MCB's 16 A, 1 p, C
Connection/feeder cable
for 1 cable up to 5 x 10 mm²
Connection and load values
Pre-fuse max. 32 A InA 32 A RDF 1
Enclosure size
260 x 225 mm (H x W)
Part no.
970005GE IP 44



Receptacles
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 3 SCHUKO® 16 A, 230 V
Fusing
1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 3 MCB's 16 A, 1 p, C
Connection/feeder cable
for 2 cables up to 5 x 25 mm²
Connection and load values
Pre-fuse max. 63 A InA 54 A RDF 0.85
Enclosure size
390 x 225 mm (H x W)
Part no.
930011 IP 44



Receptacles
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 6 SCHUKO® 16 A, 230 V
Fusing
1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 6 MCB's 16 A, 1 p, C
Connection/feeder cable
for 2 cables up to 5 x 25 mm²
Connection and load values
Pre-fuse max. 63 A InA 52 A RDF 0.65
Enclosure size
650 x 225 mm (H x W)
Part no.
950004 IP 44



Receptacles
1 CEE 16 A, 5 p, 400 V 2 x Danish standard 13 A, 2 p+E, 230 V
Fusing
1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 2 MCB's 13 A, 1 p, C
Connection/feeder cable
for 1 cable up to 5 x 10 mm²
Connection and load values
Pre-fuse max. 100 A InA 26 A RDF 0.9
Enclosure size
260 x 225 mm (H x W)
Part no.
920210 IP 44



Receptacles
1 CEE 16 A, 5 p, 400 V 3 x French / Belgian standard 16 A, 2 p+E, 230 V
Fusing
1 RCD 40 A, 4 p, 0.03 A 1 MCB 32 A, 3 p+N, C 1 MCB 16 A, 1 p+N, C 1 off button and 1 indicator light
Connection/feeder cable
for 1 cable up to 5 x 25 mm²
Connection and load values
Pre-fuse max. 40 A InA 40 A RDF 0.85
Enclosure size
390 x 225 mm (H x W)
Part no.
930038 IP 44



Receptacles
1 CEE 32 A, 5 p, 400 V 2 CEE 16 A, 5 p, 400 V 2 type 25: 16 A, 5 p, 400 V 2 x Swiss standard type 23: 16 A, 3 p, 230 V
Fusing
1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 2 MCB's 16 A, 3 p, C 1 MCB 16 A, 1 p, C
Connection/feeder cable
for 2 cables up to 5 x 25 mm²
Connection and load values
Pre-fuse max. 63 A InA 45 A RDF 0.35
Enclosure size
520 x 225 mm (H x W)
Part no.
940809 IP 44



Receptacles
1 CEE 63 A, 5 p, 400 V 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 4 x French / Belgian standard 16 A, 2 p+E, 230 V
Fusing
1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p+N, C 1 MCB 16 A, 3 p+N, C 4 MCB's 16 A, 1 p+N, C
Connection/feeder cable
for 2 cables up to 5 x 25 mm²
Connection and load values
Pre-fuse max. 63 A InA 63 A RDF 0.5
Enclosure size
650 x 225 mm (H x W)
Part no.
950022 IP 44

AMAXX® receptacle combinations

Made of AMAPLAST or AMELAN® (resistant to chemicals), pre-wired for installation, IP 44 or IP 67.

Enclosure front cover AMAPLAST electric grey RAL 7035 or AMELAN® grey RAL 7000, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm), fusing behind a transparent cover.



Receptacles	
3 SCHUKO® 16 A, 230 V	
Fusing	
Connection/feeder cable	
1.5 m H07RN-F3G1.5 with plug SCHUKO® 16 A, 230 V	
Connection and load values	
Enclosure size	
130 x 225 mm (H x W)	
Part no.	
910031	IP 44



Receptacles	
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 3 x British standard 13 A, 2 p+E, 230 V	
Fusing	
1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 3 MCB's 13 A, 1 p, C	
Connection/feeder cable	
2 m supply H07RN-F5G4 with CEE plug 32 A, 5 p, 400 V	
Connection and load values	
Pre-fuse max. 32 A InA 32 A RDF 1	
Enclosure size	
390 x 225 mm (H x W)	
Part no.	
931237	IP 44



Receptacles	
1 CEE 16 A, 5 p, 400 V 3 SCHUKO® 16 A, 230 V	
Fusing	
1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 3 MCB's 16 A, 1 p, C	
Connection/feeder cable	
for 2 cables up to 5 x 25 mm²	
Connection and load values	
Pre-fuse max. 100 A InA 32 A RDF 1	
Enclosure size	
390 x 225 mm (H x W)	
Part no.	
930022	IP 67



Receptacles	
1 CEE 32 A, 5 p, 400 V 2 CEE 16 A, 4 p, 400 V 3 CEE 16 A, 3 p, 230 V	
Fusing	
1 MCB 32 A, 3 p+N, C 1 MCB 16 A, 3 p, C 1 MCB 16 A, 1 p+N, C	
Connection/feeder cable	
for 2 cables up to 5 x 25 mm²	
Connection and load values	
Pre-fuse max. 100 A InA 45 A RDF 0.45	
Enclosure size	
520 x 225 mm (H x W)	
Part no.	
940028	IP 67



Receptacles	
2 CEE 16 A, 5 p, 400 V switched, with mechanical DUO interlock	
Fusing	
2 MCB's 16 A, 3 p, C	
Connection/feeder cable	
for 2 cables up to 5 x 25 mm²	
Connection and load values	
Pre-fuse max. 100 A InA 32 A RDF 1	
Enclosure size	
390 x 225 mm (H x W)	
Part no.	
930031	IP 67



Receptacles	
2 CEE 32 A, 5 p, 400 V switched with mechanical DUO interlock 2 CEE 16 A, 5 p, 400 V	
Fusing	
1 RCD 63 A, 4 p, 0.03 A 2 MCB's 32 A, 3 p, C 2 MCB's 16 A, 3 p, C	
Connection/feeder cable	
for 1 cable up to 5 x 16 mm²	
Connection and load values	
Pre-fuse max. 63 A InA 58 A RDF 0.6	
Enclosure size	
650 x 225 mm (H x W)	
Part no.	
900946	IP 67



Receptacles	
2 CEE 16 A, 3 p, 230 V	
Fusing	
1 RCD 25 A, 2 p, 0.03 A	
Connection/feeder cable	
for 1 cable up to 3 x 10 mm²	
Connection and load values	
Pre-fuse max. 16 A InA 25 A RDF 1	
Enclosure size	
260 x 225 mm (H x W)	
Part no.	
920821	IP 67



Receptacles	
1 CEE 16 A, 5 p, 400 V 3 x French / Belgian standard 16 A, 2 p+E, 230 V	
Fusing	
1 RCD 40 A, 4 p, 0.03 A	
Connection/feeder cable	
for 1 cable up to 5 x 10 mm²	
Connection and load values	
Enclosure size	
650 x 112.5 mm (H x W)	
Part no.	
960042	IP 44

EverGUM receptacle combinations with solid rubber enclosures

Wall mounted, enclosure
380 x 230 mm or
380 x 320 mm



Receptacle strip, enclosure
445 x 135 mm



Portable, enclosure
306 x 230 x 288 mm or
360 x 340 x 330 mm



Portable, with feeder cable, enclosure
306 x 230 x 288 mm or
360 x 340 x 330 mm



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

AirKRAFT® and 3KRAFT®

AirKRAFT®
for energy, data,
compressed air.
Also available with feeder cable.
Enclosure
400 x 229 x 220 mm
(size without receptacles)



3KRAFT®
for energy, data,
compressed air.
Also available with feeder cable.
Enclosure
diam. 240-264 x H 152 mm
(size without receptacles)



DELTA-BOX

DELTA-BOXES

Enclosure
114 x 160 x 97 mm
(size without receptacles)



DELTA-BOXES with feeder cable.

Enclosure
114 x 160 x 97 mm
(size without receptacles)



For ceilings and walls.

Three colours: Signal yellow, red or silver.

AirKRAFT®. Up to four receptacles, or data, or light, plus compressed air, plus fusing. Ready for connection or with supply cable and plug.

3KRAFT®. Equipped to suit your requirements: Up to three receptacles, or data, plus compressed air. Ready for connection or with supply cable and plug.

DELTA-BOX - the classic unit.

With cable grip. Enclosure and insert from impact and resistant AMAPLAST.

Available in IP 44, IP 67 and IP 68.

Stainless steel surface and flush mounted receptacle combinations



Safe.
Practical.
Timelessly elegant.

- Protection type IP 43 or IP 44 with closed door, even when plugs are inserted.
- The cable guard aperture is sufficiently dimensioned for leading through cables.
- Safety lock protects against unauthorised access.

Power posts

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



CombiTOWER®

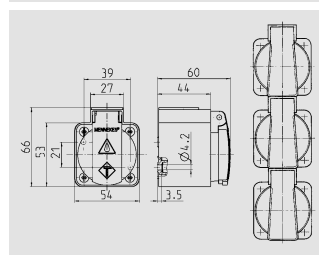
Power. Compressed air. Water.
Outdoors and indoors.
The solution: CombiTOWER®. Short routes to your energy source for industry, workshops, assembly shops, loading platforms, etc.



Drawings and dimensions

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

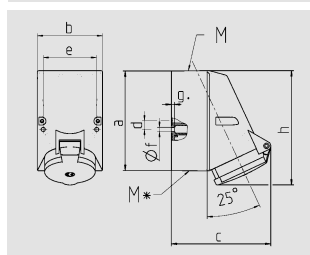
1 MB 27/30



Drawing
1 MB 27/30

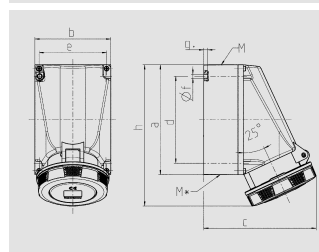
Dim. in mm

1 MB 43



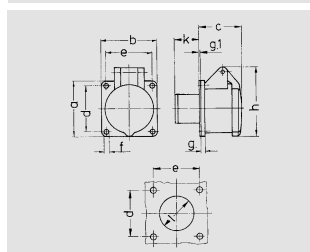
Drawing	Amp.	16			32		
1 MB 43	Poles	4	5	3	4	5	
Dim. in mm	a	128	128	128	128	128	
	b	84	84	84	84	84	
	c	122	124	136	136	138	
	d	11	11	11	11	11	
	e	68	68	68	68	68	
	f	5,3	5,3	5,3	5,3	5,3	
	g	4	4	4	4	4	
	h	144	145	158	158	160	
	M	25	25	32	32	32	
	M*	2x25 (blind) to be cut out			2x25 (blind) to be cut out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

1 MB 112



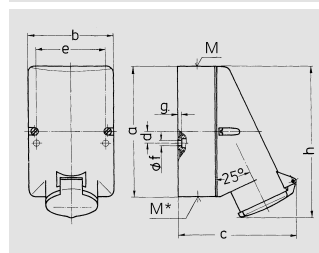
Drawing	Amp.	63		
1 MB 112	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	175	175	175
	d	134,5	134,5	134,5
	e	103	103	103
	f	6,1	6,1	6,1
	g	6	6	6
	h	219	219	219
	M	40	40	40
	M*	2x40 (blind) to be cut out		
Max. cable diam. (mm)		27	27	27
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		-25	-25	-25

1 MB 136



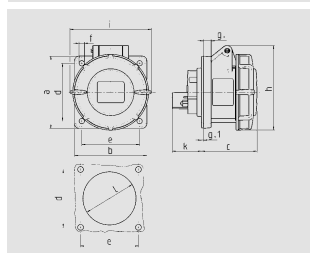
Drawing	Amp.	16			32		
1 MB 136	Poles	2	3	2	3	2	3
Dim. in mm	a	55	55	55	55	55	55
	b	55	55	55	55	55	55
	c	44	44	44	44	44	44
	d	45	45	45	45	45	45
	e	45	45	45	45	45	45
	f	4,2	4,2	4,2	4,2	4,2	4,2
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	67	67	67	67	67	67
	k	22	22	22	22	22	22
	l	34	34	34	34	34	34
	M	4	4	4	4	4	4
Terminal for cond. cross section (mm²) min.-max.		-10	-10	-10	-10	-10	-10

1 MB 137



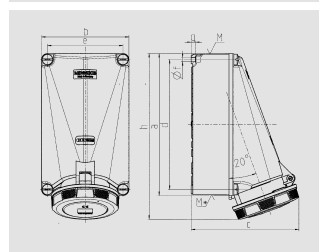
Drawing	Amp.	16		32	
1 MB 137	Poles	2	3	2	3
Dim. in mm	a	128	128	128	128
	b	84	84	84	84
	c	120	120	120	120
	d	11	11	11	11
	e	68	68	68	68
	f	5,3	5,3	5,3	5,3
	g	4	4	4	4
	h	146	146	146	146
	M	25	25	32	32
	M*	2x25 (blind) to be cut out		2x25 (blind) to be cut out	
Max. cable diam. (mm)		18	18	25	25
Terminal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

1 MB 141



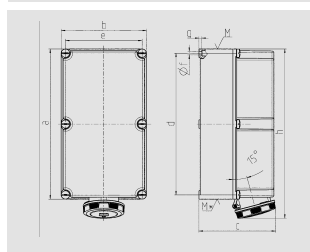
Drawing	Amp.	16			32		
1 MB 141	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	70	70	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	31	32	32	39	39	39
	l	43	52	54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

1 MB 162



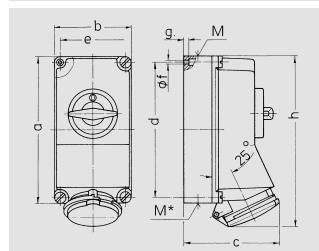
Drawing	Amp.	125	
1 MB 162	Poles	4	5
Dim. in mm	a	264	264
	b	163	163
	c	200	200
	d	240	240
	e	140	140
	f	8,1	8,1
	g	8	8
	h	306	306
	M	50	50
	M*	2x50	2x50
Max. cable diam. (mm)		38	38
Terminal for cond. cross section (mm²) min.-max.		25	25
		-35	-35

1 MB 163



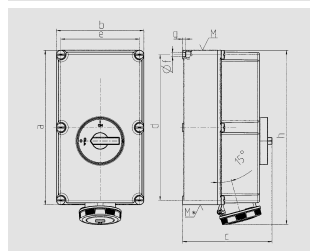
Drawing	Amp.	125	
1 MB 163	Poles	4	5
Dim. in mm	a	460	460
	b	260	260
	c	234	234
	d	434	434
	e	234	234
	f	11	11
	g	9	9
	h	519	519
	M	63	63
	M*	2x63	2x63
Max. cable diam. (mm)		44	44
Terminal for cond. cross section (mm²) min.-max.		25	25
		-70	-70

1 MB 174



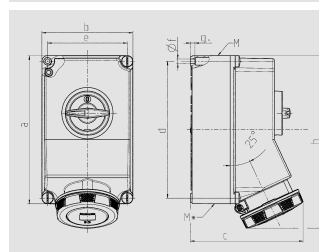
Drawing	Amp.	16			32		
1 MB 174	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	141	141	141	146	146	146
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	250	252	254	264	264	264
	M	1x25 and 1x32	1x25 and 1x32	1x25 and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

1 MB 177



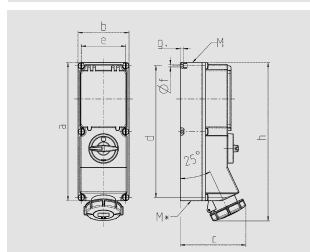
Drawing	Amp.	125		
1 MB 177	Poles	3	4	5
Dim. in mm	a	460	460	460
	b	260	260	260
	c	283	283	283
	d	434	434	434
	e	234	234	234
	f	11	11	11
	g	9	9	9
	h	519	519	519
	M	63	63	63
	M*	2x63	2x63	2x63
Max. cable diam. (mm)		44	44	44
Terminal for cond. cross section (mm²) min.-max.		25	25	25
		-70	-70	-70

1 MB 180



Drawing	Amp.	63		
1 MB 180	Poles	3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	198	198	198
	d	240	240	240
	e	140	140	140
	f	8,1	8,1	8,1
	g	8	8	8
	h	303	303	303
	M	40	40	40
	M*	40	40	40
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		-25	-25	-25

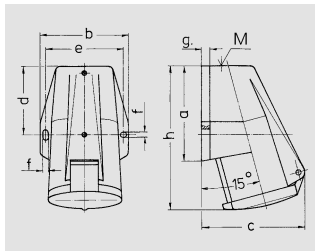
1 MB 181



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

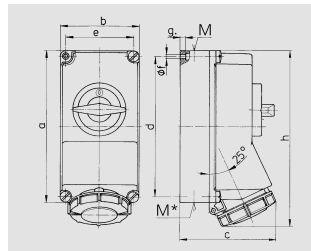
The sizes for the entries on the drawings can be different to the real existing entry sizes.
Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 205



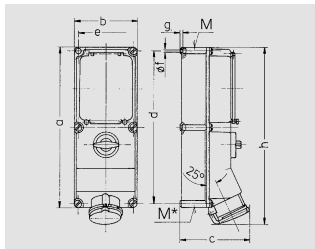
Drawing	Amp.	16			32		
1 MB 205	Poles	3	4	5	3	4	5
Dim. in mm	a	91	91	91	102	102	102
	b	73	79	87	89	89	94
	c	86	93	99	108	108	114
	d	55	55	56,4	62	62	62
	e	62	68	76	77,5	77,5	84
	f	5,3	5,3	5,3	5,3	5,3	5,3
	g	8	8	9	10	10	10
	h	132	132	132	153	153	153
	M	20	25	25	25	25	32
Max. cable diam. (mm)		13	18	18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

1 MB 207



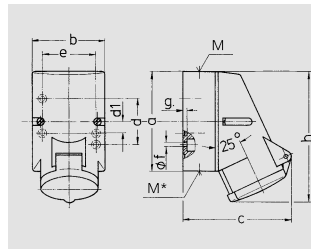
Drawing	Amp.	16			32		
1 MB 207	Poles	3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	118	118	118	118	118	118
	c	144	146	147	152	152	153
	d	208	208	208	208	208	208
	e	101	101	101	101	101	101
	f	6,3	6,3	6,3	6,3	6,3	6,3
	g	8	8	8	8	8	8
	h	252	255	259	268	268	274
	M	1xM25 and 1xM32			1xM25 and 1xM32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

1 MB 208



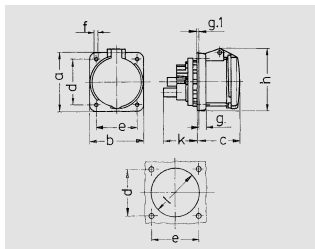
Drawing	Amp.	16			32			63		
1 MB 208	Poles	3	4	5	4	5	4	5	4	5
Dim. in mm	a	364	364	364	364	364	460	460	460	460
	b	134	134	134	134	134	180	180	180	180
	c	160	162	163	168	168	195	195	195	195
	d	347	347	347	347	347	440	440	440	440
	e	117	117	117	117	117	160	160	160	160
	f	6,3	6,3	6,3	6,3	6,3	8,1	8,1	8,1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

1 MB 209



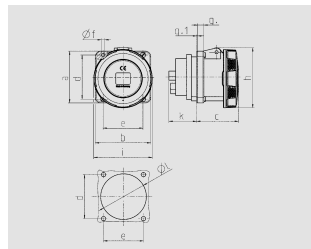
Drawing	Amp.	16		
1 MB 209	Poles	3	4	5
Dim. in mm	a	87	100	100
	b	64	75	75
	c	99	110	113
	d	40	-	-
	d1	-	11	11
	e	50	59	59
	f	4,5	5	5
	g	4	4	4
	h	115	125	128
	M	20	20	20
	M*	M20 (blind) to be cut out		
Max. cable diam. (mm)		15	15	15
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5
		-4	-4	-4

1 MB 211



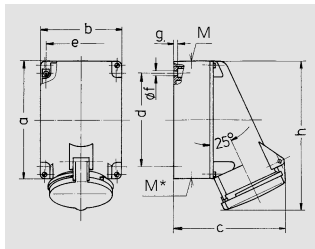
Drawing	Amp.	63		
1 MB 211	Poles	3	4	5
Dim. in mm	a	107	107	107
	b	100	100	100
	c	80	80	80
	d	85	85	85
	e	77	77	77
	f	6	6	6
	g	12	12	12
	g.1	2	2	2
	h	113	113	113
	i	55	55	55
	k	88	88	88
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		-25	-25	-25

1 MB 212/1 MB 258



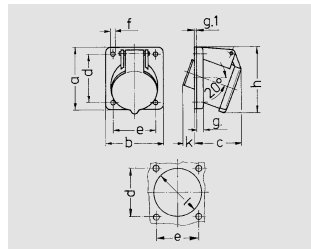
Drawing	Amp.	63			125		
1 MB 212/258	Poles	3	4	5	4	5	
Dim. in mm	a	107	107	107	130	130	
	b	100	100	100	130	130	
	c	81	81	81	119	119	
	d	85	85	85	104	104	
	e	77	77	77	104	104	
	f	6	6	6	6,5	6,5	
	g	12	12	12	18	18	
	g.1	2	2	2	2	2	
	h	117	117	117	129	129	
	i	113	113	113	126	126	
	k	55	55	55	43	43	
	l	88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

1 MB 213



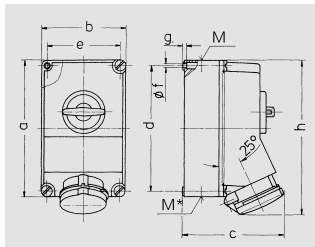
Drawing	Amp.	63		
1 MB 213	Poles	3	4	5
Dim. in mm	a	170	170	170
	b	118	118	118
	c	164	164	164
	d	134,5	134,5	134,5
	e	103	103	103
	f	6,1	6,1	6,1
	g	6	6	6
	h	216	216	216
	M	40	40	40
	M*	2xM40 (blind) to be cut out		
Max. cable diam. (mm)		32	32	32
Terminal for cond. cross section (mm²) min.-max.		6	6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

1 MB 231



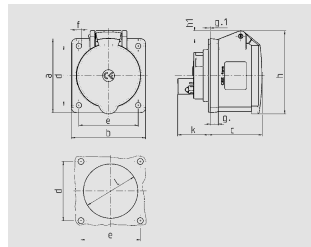
Drawing	Amp.	16			32		
1 MB 231	Poles	2	3		2	3	
Dim. in mm	a	68	68		68	68	
	b	62	62		62	62	
	c	42	42		42	42	
	d	53	53		53	53	
	e	47	47		47	47	
	f	4,5	4,5		4,5	4,5	
	g	8	8		8	8	
	g.1	2	2		2	2	
	h	72	72		72	72	
	k	32	32		32	32	
	l	55	55		55	55	
Terminal for cond. cross section (mm²) min.-max.		4	4		4	4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

1 MB 234



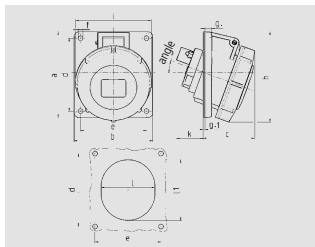
Drawing	Amp.	63		
1 MB 234	Poles	3	4	5
Dim. in mm	a	264	264	264
	b	163	163	163
	c	192	192	192
	d	240	240	240
	e	140	140	140
	f	8,1	8,1	8,1
	g	8	8	8
	h	300	300	300
	M	40	40	40
	M*	2x40	2x40	2x40
Max. cable diam. (mm)		27	27	27
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		-25	-25	-25

1 MB 247



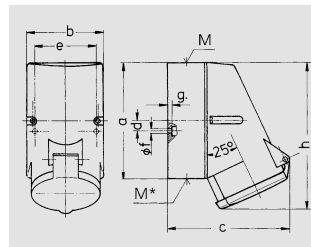
Drawing	Amp.	16			32		
1 MB 247	Poles	3	4	5	3	4	5
Dim. in mm	a	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	55	64	64	65
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	75	80	83	89	89	100
	h1	6	8	11	11	11	12
	k	31	32	32	39	39	39
	l	43	52	54	58	58	62
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	2,5
		-4	-4	-4	-10	-10	-10

1 MB 251



Drawing	Amp.	16			32		
1 MB 251	Poles	3	4	5	3	4	5
Dim. in mm	a	73,5	100	100	100	100	100
	b	64	92	92	92	92	92
	c	52	60	62	64	64	66
	d	60	85	85	85	85	85
	e	52	77	77	77	77	77
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	84	100	105	109	109	113
	i	78	85	96	96	103	110
	k	43	32	32	39	53	45
	l	52	55	65	65	67	72
	l1	60	63	72	72	82	85
	l2	20°	20°	20°	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	2,5
		-4	-4	-4	-10	-10	-10

1 MB 257

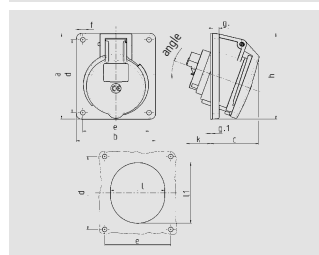


Drawing	Amp.	16		32	
1 MB 257	Poles	7		7	
Dim. in mm	a	128		128	
	b	84		84	
	c	124		138	
	d	11		11	
	e	68		68	
	f	5,3		5,3	
	g.	4		4	
	h	145		160	
	M	25		32	
	M*	(blind) to be cut out 2x25		(blind) to be cut out 2x25	
Max. cable diam. (mm)		18		25	
Terminal for cond. cross		1,5		2,5	
section (mm²) min.-max.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

Drawings and dimensions

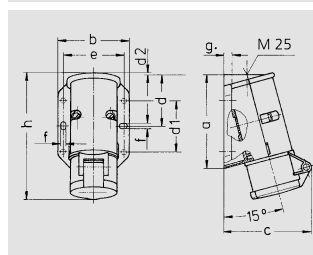
The sizes for the entries on the drawings can be different to the real existing entry sizes.
Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 260



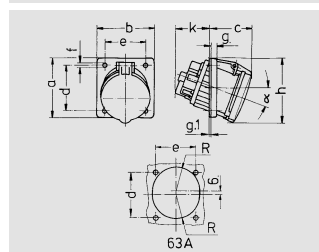
Drawing	Amp.	16				32			
1 MB 260	Poles	3	4	5	7	3	4	5	7
Dim. in mm	a	73.5	100	100	100	100	100	100	100
	b	64	92	92	92	92	92	92	92
	c	50	59	58	58	62	62	61	61
	d	60	85	85	85	85	85	85	85
	e	52	77	77	77	77	77	77	77
	f	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	g	7	8	8	8	8	8	8	8
	g.1	2	2	2	2	2	2	2	2
	h	79	100	100	100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

1 MB 294



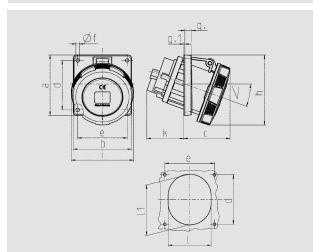
Drawing	Amp.	16		32	
1 MB 294	Poles	2	3	2	3
Dim. in mm	a	96	96	96	96
	b	73	73	73	73
	c	90	90	90	90
	d	53	53	53	53
	d1	52	52	52	52
	d2	2	2	2	2
	e	62	62	62	62
	f	5.3	5.3	5.3	5.3
	g	8	8	8	8
	h	129	129	129	129
Terminal for cond. cross section (mm²) min.-max.		4	4	4	4
		-10	-10	-10	-10

1 MB 297



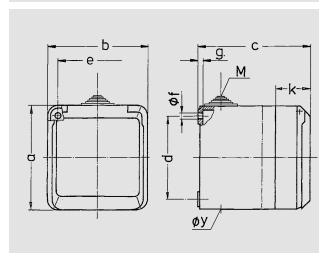
Drawing	Amp.	63		
1 MB 297	Poles	3	4	5
Dim. in mm	a	110	110	110
	b	106	106	106
	c	85	85	85
	d	85	85	85
	e	77	77	77
	f	6.2	6.2	6.2
	g	12	12	12
	g.1	2	2	2
	h	122	122	122
	k	69	69	69
	R	46	46	46
	o	20°	20°	20°
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		-25	-25	-25

1 MB 298/1 MB 601



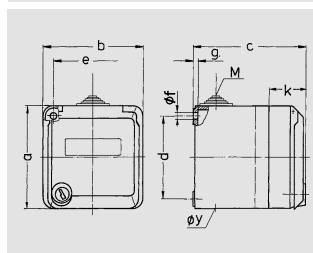
Drawing	Amp.	63			125		
1 MB 298	Poles	3	4	5	3	4	5
1 MB 601	Poles	3	4	5	3	4	5
Dim. in mm	a	110	110	110	114	114	114
	b	106	106	106	110	110	110
	c	85	85	85	75	75	75
	d	85	85	85	90	90	90
	e	77	77	77	90	90	90
	f	6.2	6.2	6.2	6.2	6.2	6.2
	g	12	12	12	13	13	13
	g.1	2	2	2	2	2	2
	h	128	128	128	133	133	133
	i	113	113	113	126	126	126
	k	67	67	67	103	103	103
	l	92	92	92	94	94	94
	l1	98	98	98	107	107	107
	o	20°	20°	20°	15°	15°	15°
Terminal for cond. cross section (mm²) min.-max.		6	6	6	25	25	25
		-25	-25	-25	70	70	70

1 MB 312



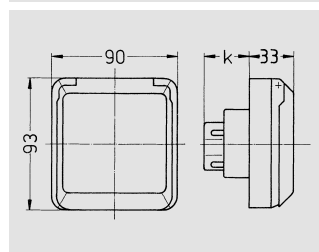
Drawing	Amp.	16			32		
1 MB 312	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	87	87	87	99	99	99
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	4.2	4.2	4.2	4.2	4.2	4.2
	k	33	33	33	33	33	33
	y	25.5	25.5	25.5	25.5	25.5	25.5
	M	25x1.5	25x1.5	25x1.5	25x1.5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

1 MB 313



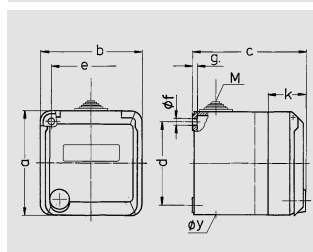
Drawing	Amp.	16			32		
1 MB 313	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	90	90	90	102	102	102
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	4.2	4.2	4.2	4.2	4.2	4.2
	k	36	36	36	36	36	36
	y	25.5	25.5	25.5	25.5	25.5	25.5
	M	25x1.5	25x1.5	25x1.5	25x1.5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

1 MB 315



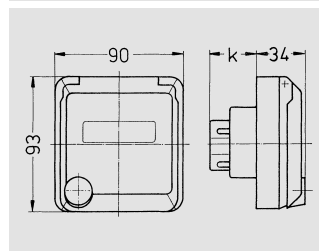
Drawing	Amp.	16			32		
1 MB 315	Poles	3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-6	-6	-6

1 MB 317



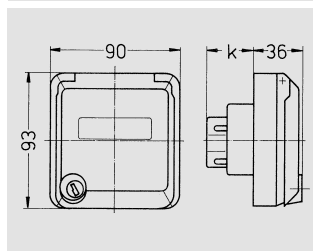
Drawing	Amp.	16			32		
1 MB 317	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	88	88	88	100	100	100
	d	75	75	75	75	75	75
	e	73	73	73	73	73	73
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g	4.2	4.2	4.2	4.2	4.2	4.2
	k	34	34	34	34	34	34
	y	25.5	25.5	25.5	25.5	25.5	25.5
	M	25x1.5	25x1.5	25x1.5	25x1.5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

1 MB 318



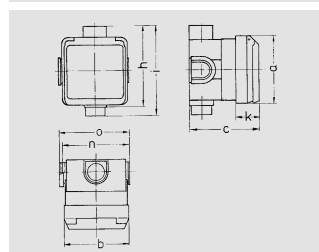
Drawing	Amp.	16			32		
1 MB 318	Poles	3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-6	-6	-6

1 MB 320



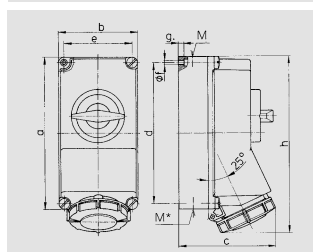
Drawing	Amp.	16			32		
1 MB 320	Poles	3	4	5	3	4	5
Dim. in mm	k	32	32	32	48	48	48
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5	2.5	2.5	2.5
		-4	-4	-4	-6	-6	-6

1 MB 336



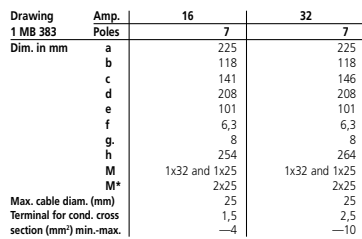
Drawing	Amp.	16			32		
1 MB 336	Poles	3	4	5	3	4	5
Dim. in mm	a	93	93	93	93	93	93
	b	90	90	90	90	90	90
	c	95	95	95	95	95	95
	h	111	111	111	111	111	111
	i	124	124	124	124	124	124
	k	33	33	33	33	33	33
	n	91	91	91	91	91	91
	o	95	95	95	95	95	95
Terminal for cond. cross section (mm²) min.-max.		1.5	1.5	1.5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

1 MB 382



Drawing	Amp.	16		32	
1 MB 382	Poles	7		7	
Dim. in mm	a	225		225	
	b	118		118	
	c	147		153	
	d	208		208	
	e	101		101	
	f	6.3		6.3	
	g	8		8	
	h	259		274	
	M	1x25 and 1x32		1x25 and 1x32	
	M*	2x25		2x25	
Max. cable diam. (mm)		25		25	
Terminal for cond. cross section (mm²) min.-max.		1.5		2.5	
		-4		-10	

1 MB 383



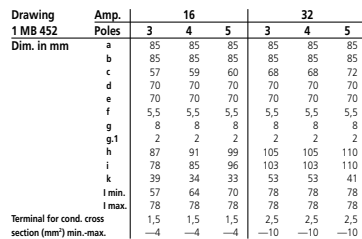
1 MB 403/2



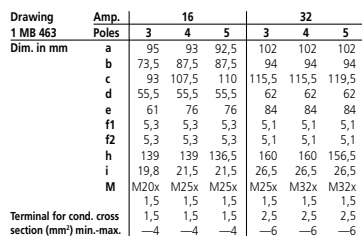
1 MB 422



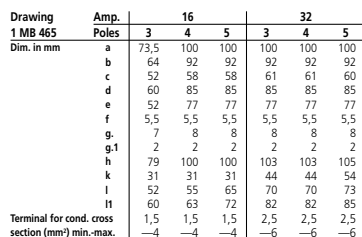
1 MB 452



1 MB 463



1 MB 465



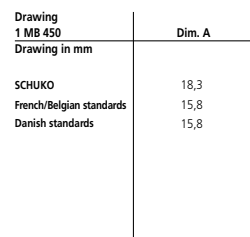
1 MB 386



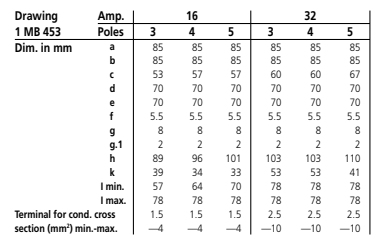
1 MB 410



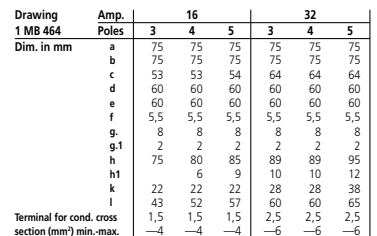
1 MB 450



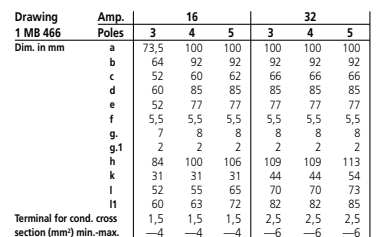
1 MB 453



1 MB 464



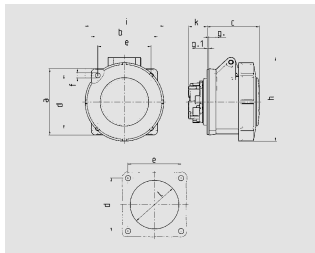
1 MB 466



Drawings and dimensions

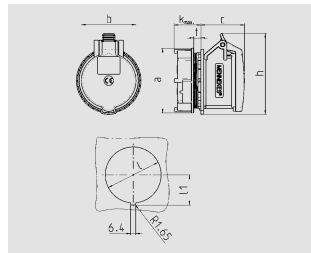
The sizes for the entries on the drawings can be different to the real existing entry sizes.
Subject to modification and amendments without prior notice. Errors and omissions excepted.

1 MB 467



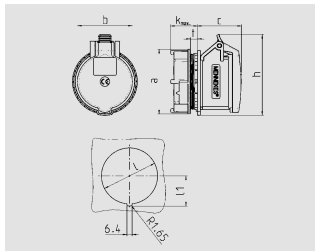
Drawing 1 MB 467	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	75	75	75	85	85	85
	b	75	75	75	75	75	75
	c	60	61	61	69	69	72
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	83	88	95	99	99	105
	i	78	85	96	103	103	110
	k	21	21	21	28	28	38
	l	43	52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

1 MB 468 for 61 mm Ø



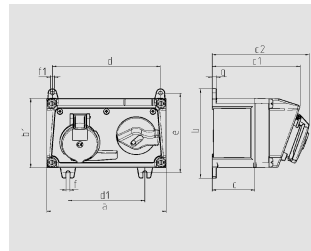
Drawing 1 MB 468	Amp. Poles	16		
		3	4	5
Dim. in mm	a	69		
	b	57		
	c	55		
	k	max. 30		
	h	87		
	l	61		
	l1	33,25		
	t	2-9		
Terminal for cond. cross section (mm²) min.-max.		1,5		
		-4		

1 MB 468 for 70 mm Ø



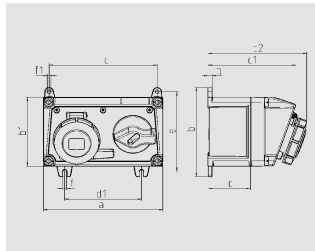
Drawing 1 MB 468	Amp. Poles	16			32		
		4	5		3	4	5
Dim. in mm	a	81	81		81	81	81
	b	66	69		71	71	80
	c	58	55		66	66	64
	k	max. 33	max. 33		max. 33	max. 33	max. 33
	h	100	102		101	101	108
	l	70	70		70	70	70
	l1	37,75	37,75		37,75	37,75	37,75
	t	2-9	2-9		2-9	2-9	2-9
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5		2,5	2,5	2,5
		-4	-4		-6	-6	-6

1 MB 550



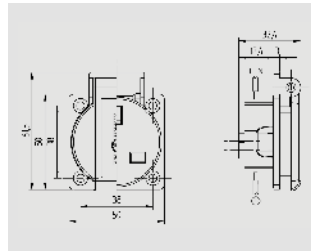
Drawing 1 MB 550	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	168	168	168	168	168	168
	b1	130	130	130	130	130	130
	c	80	80	80	80	80	80
	c1	166	166	166	166	166	166
	c2	182	183	183	193	193	193
	d	204	204	204	204	204	204
	d1	145	145	145	145	145	145
	e	150	150	150	150	150	150
	f	7	7	7	7	7	7
	f1	Ø7	Ø7	Ø7	Ø7	Ø7	Ø7
	g	8	8	8	8	8	8

1 MB 551



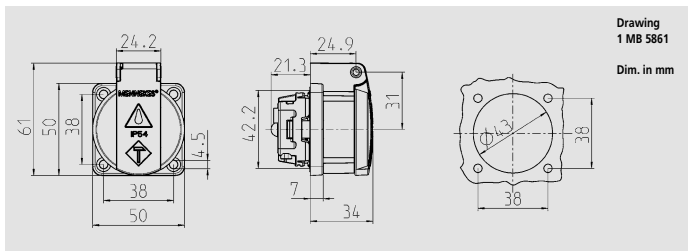
Drawing 1 MB 551	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	225	225	225	225	225	225
	b	168	168	168	168	168	168
	b1	130	130	130	130	130	130
	c	80	80	80	80	80	80
	c1	166	166	166	166	166	166
	c2	182	185	186	197	197	198
	d	204	204	204	204	204	204
	d1	145	145	145	145	145	145
	e	150	150	150	150	150	150
	f	7	7	7	7	7	7
	f1	Ø7	Ø7	Ø7	Ø7	Ø7	Ø7
	g	8	8	8	8	8	8

1 MB 584

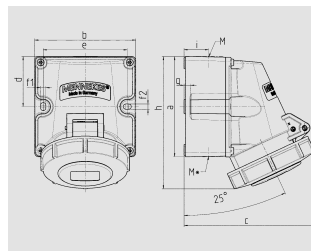


Drawing 1 MB 584	Amp. Poles	16		
		3	4	5
Dim. in mm	a	100	100	100
	b	117	125	131
	c	80	80	80
	d	50	50	50
	e	84	84	84
	f1	5,3	5,3	5,3
	f2	5,3	5,3	5,3
	g	6,5	6,5	6,5
	h	131	131	132
	i	24,7	24,7	24,7
	M*	25 (optional M20)	32 (optional M25)	32 (optional M25)
	M	2x25 (blind) to be cut out	2x25 (blind) to be cut out	2x25 (blind) to be cut out
		18 (M25) and 15 (M20)	25 (M32) and 18 (M25)	25 (M32) and 18 (M25)
Max. cable diam. (mm)		1,5	1,5	1,5
Terminal for cond. cross section (mm²) min.-max.		-4	-4	-4

1 MB 5861

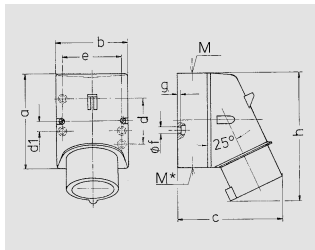


1 MB 622



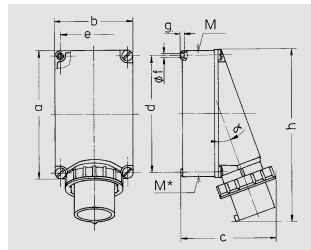
Drawing 1 MB 622	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	100	100	100	100	100	100
	b	101	101	101	109	109	109
	c	117	125	131	157	157	160
	d	50	50	50	50	50	50
	e	84	84	84	92	92	92
	f1	5,3	5,3	5,3	5,3	5,3	5,3
	f2	5,3	5,3	5,3	5,3	5,3	5,3
	g	6,5	6,5	6,5	6,5	6,5	6,5
	h	131	131	132	148	148	148
	i	24,7	24,7	24,7	27,5	27,5	27,5
	M*	25 (optional M20)	32 (optional M25)	32 (optional M25)			
	M	2x25 (blind) to be cut out	2x25 (blind) to be cut out	2x25 (blind) to be cut out			
		18 (M25) and 15 (M20)	25 (M32) and 18 (M25)	25 (M32) and 18 (M25)			
Max. cable diam. (mm)		1,5	1,5	1,5	2,5	2,5	2,5
Terminal for cond. cross section (mm²) min.-max.		-4	-4	-4	-6	-6	-6

2 MB 32



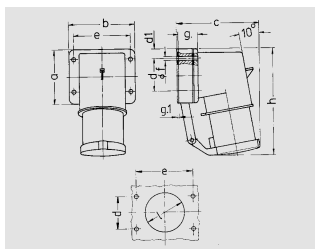
Drawing 2 MB 32	Amp. Poles	16			32		
		3	4	5	3	4	5
Dim. in mm	a	87	100	100	128	128	128
	b	64	75	75	84	84	84
	c	93	106	110	133	133	135
	d	40	—	—	—	—	—
	d1	—	10,5	10,5	11	11	11
	e	50,5	59	59	68	68	68
	f	4,5	5	5	5,3	5,3	5,3
	g	4	4	4	4	4	4
	h	122	133	135	169	169	170
	M	20	20	20	32	32	32
	M*	1x20 (blind) to be cut out	2x25 (blind) to be cut out	2x25 (blind) to be cut out			
		15	15	15	18/25	18/25	18/25
Max. cable diam. (mm)		1	1	1	2,5	2,5	2,5
Terminal for cond. cross section (mm²) min.-max.		-2,5	-2,5	-2,5	-6	-6	-6

2 MB 36



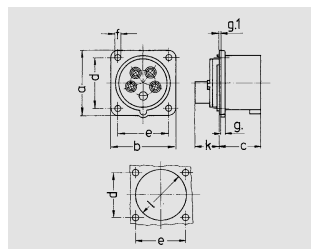
Drawing 2 MB 36	Amp. Poles	63			125		
		3	4	5	4	5	
Dim. in mm	a	170	170	170	264	264	
	b	118	118	118	163	163	
	c	171	171	171	205	205	
	d	136	136	136	240	240	
	e	104	104	104	140	140	
	f	6,1	6,1	6,1	8,1	8,1	
	g	6	6	6	8	8	
	h	250	250	250	355	355	
	M	40	40	40	50	50	
	M*	2x40	2x40	2x40	50	50	
	a	25°	25°	25°	20°	20°	
Max. cable diam. (mm)		32	32	32	38	38	
Terminal for cond. cross section (mm²) min.-max.		4	4	4	16	16	
		-10	-10	-10	-35	-35	

2 MB 43



Drawing 2 MB 43	Amp. Poles	16			32		
		4	5		3	4	5
Dim. in mm	a	85	85		75	75	75
	b	85	85		90	90	90
	c	104	106		115	115	117
	d	64	64		45	45	45
	d1	10	10		13	13	13
	e	64	64		78	78	78
	f	5,5	5,5		5,5	5,5	5,5
	g	27	27		27	27	27
	g.1	2	2		1	1	1
	h	140	140		150	150	150
	l	50	50		55	55	55
Terminal for cond. cross section (mm²) min.-max.		1	1		2,5	2,5	2,5
		-2,5	-2,5		-6	-6	-6

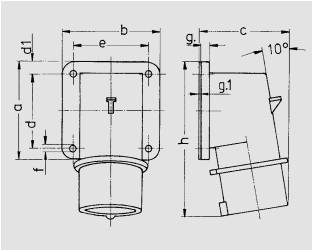
2 MB 68/853



Drawing 2 MB 68/853	Amp. Poles	16		
		5		
Dim. in mm	a	75		
	b	75		
	c	42		
	d	60		
	e	60		
	f	5,5		
	g	7,3		
	g.1	2		
	k	13		
	l	52		
Terminal for cond. cross section (mm²) min.-max.		1		
		-2,5		

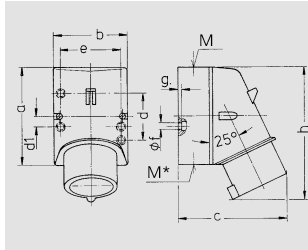
The sizes for the entries on the drawings can be different to the real existing entry sizes.
Subject to modification and amendments without prior notice. Errors and omissions excepted.

2 MB 71



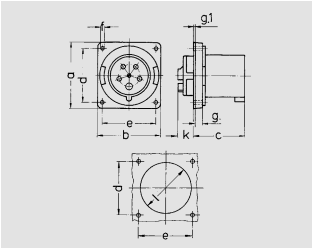
Drawing	Amp.	16		32	
2 MB 71	Poles	7		7	
Dim. in mm	a	85		75	
	b	85		90	
	c	79		90	
	d	64		45	
	d1	10		13	
	e	64		78	
	f	5,5		5,5	
	g	6		6	
	g.1	2		2	
	h	129		138	
Terminal for cond. cross section (mm²) min.-max.		1		2,5	
		-2,5		-6	

2 MB 147



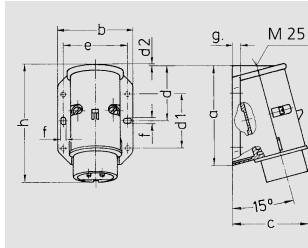
Drawing	Amp.	16		32	
2 MB 147	Poles	7		7	
Dim. in mm	a	100		128	
	b	75		84	
	c	110		135	
	d	—		—	
	d1	10,5		11	
	e	59		68	
	f	5		5,3	
	g	4		4	
	h	135		170	
	M	20		32	
	M*	20 (blind) to be cut out		2x25 (blind) to be cut out	
Max. cable diam. (mm)		15		18	
Terminal for cond. cross section (mm²) min.-max.		1		2,5	
		-2,5		-4	

2 MB 155



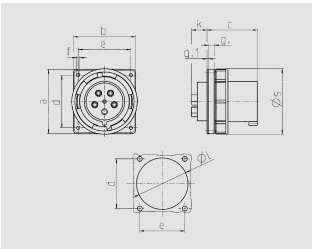
Drawing	Amp.	63		
2 MB 155	Poles	3	4	5
Dim. in mm	a	110	110	110
	b	106	106	106
	c	86	86	86
	d	90	90	90
	e	90	90	90
	f	5,5	5,5	5,5
	g	12	12	12
	g.1	2	2	2
	k	28	28	28
	l	86	86	86
Terminal for cond. cross section (mm²) min.-max.		6	6	6
		-16	-16	-16

2 MB 160



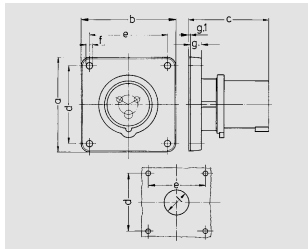
Drawing	Amp.	16			32		
2 MB 160	Poles	2	3		2	3	
Dim. in mm	a	96	96		96	96	
	b	73	73		73	73	
	c	74	74		74	74	
	d	53	53		53	53	
	d1	52	52		52	52	
	d2	2	2		2	2	
	e	62	62		62	62	
	f	5,3	5,3		5,3	5,3	
	g	8	8		8	8	
	h	116	116		116	116	
Terminal for cond. cross section (mm²) min.-max.		4	4		4	4	
		-10	-10		-10	-10	

2 MB 166



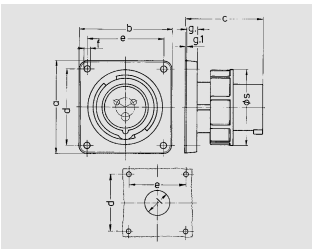
Drawing	Amp.	63			125		
2 MB 166	Poles	3	4	5	3	4	5
Dim. in mm	a	110	110	110	130	130	130
	b	106	106	106	130	130	130
	c	86	86	86	112	112	112
	d	90	90	90	104	104	104
	e	90	90	90	104	104	104
	f	5,5	5,5	5,5	6,5	6,5	6,5
	g	12	12	12	18	18	18
	g.1	2	2	2	2	2	2
	k	28	28	28	28	28	28
	l	88,5	88,5	88,5	95	95	95
	s	113	113	113	132	132	132
Terminal for cond. cross section (mm²) min.-max.		6	6	6	25	25	25
		-16	-16	-16	-70	-70	-70

2 MB 173/2



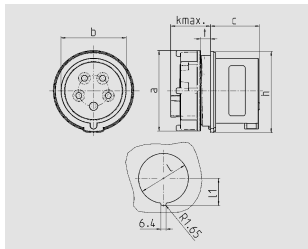
Drawing	Amp.	16			32		
2 MB 173/2	Poles	3	4	5	3	4	5
Dim. in mm	a	85,7	85,7	85,7	85,7	85,7	85,7
	b	85,7	85,7	85,7	85,7	85,7	85,7
	c	72	72	72	90	90	90
	d	69,5	69,5	69,5	69,5	69,5	69,5
	e	69,5	69,5	69,5	69,5	69,5	69,5
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	11	11	11	11	11	11
	g.1	2	2	2	2	2	2
	l	32	36	36	47	47	47
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	2,5
		-4	-4	-4	-10	-10	-10

2 MB 187/2



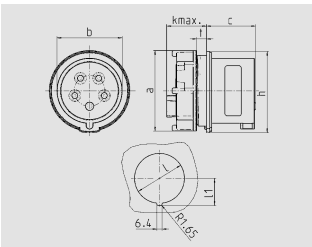
Drawing	Amp.	16			32		
2 MB 187/2	Poles	3	4	5	3	4	5
Dim. in mm	a	85,7	85,7	85,7	85,7	85,7	85,7
	b	85,7	85,7	85,7	85,7	85,7	85,7
	c	72	72	72	90	90	90
	d	69,5	69,5	69,5	69,5	69,5	69,5
	e	69,5	69,5	69,5	69,5	69,5	69,5
	f	5,5	5,5	5,5	5,5	5,5	5,5
	g	11	11	11	11	11	11
	g.1	2	2	2	2	2	2
	l	32	36	47	47	47	47
	s	71	79	89	94	94	102
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	1,5	2,5	2,5	2,5
		-4	-4	-4	-10	-10	-10

2 MB 215 for 61 mm Ø



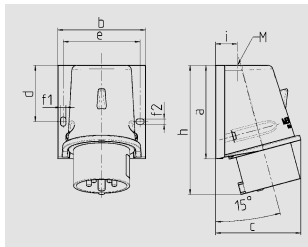
Drawing	Amp.	16		
2 MB 215	Poles	3	4	5
Dim. in mm	a	69	69	69
	b	44	50	56
	c	45	43	42
	k max.	30	30	30
	h	70	70	70
	l	61	61	61
	l1	33,25	33,25	33,25
	t	wall thicknesses 2-9mm		
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5	
		-4	-4	

2 MB 215 for 70 mm Ø



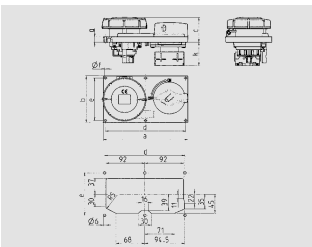
Drawing	Amp.	16			32		
2 MB 215	Poles	4	5		3	4	5
Dim. in mm	a	78	78		78	78	78
	b	50	56		58	58	64
	c	45	44		51	51	51
	k max.	33	33		33	33	33
	h	82	82		82	82	82
	l	70	70		70	70	70
	l1	37,75	37,75		37,75	37,75	37,75
	t	wall thicknesses 2-9mm			wall thicknesses 2-9mm		
Terminal for cond. cross section (mm²) min.-max.		1,5	1,5		2,5	2,5	2,5
		-4	-4		-10	-10	-10

2 MB 221



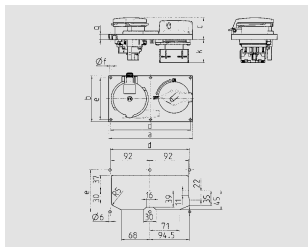
Drawing	Amp.	16			32		
2 MB 221	Poles	4	5		3	4	5
Dim. in mm	a	92,5	92,5		102	102	102
	b	87	87		94	94	94
	c	84,5	84,5		94	94	94
	d	55,5	55,5		62	62	62
	e	76	76		84	84	84
	f1	5,3	5,3		5,3	5,3	5,3
	f2	5,3	5,3		5,3	5,3	5,3
	h	128	128		146	146	146
	i	21,5	21,5		26	26	26
	M	25x1,5	25x1,5		25x1,5	25x1,5	32x1,5

5 MB 57



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

5 MB 59



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

Index of part numbers

Part no.	page	Part no.	page	Part no.	page	Part no.	page	Part no.	page	Part no.	page	Part no.	page	Part no.	page	Part no.	page	Part no.	page	Part no.	page
1	4	264	6	540	7	826	6	1261A	4	1638	5	2166	10	3844	6	5108A	8	7614	8	13111	6
2	4	268	6	541	7	827	6	1262A	4	1642	5	2167	10	3851	6	5109A	8	7616	8	13112	6
3	6	269	6	542	7	829	6	1263A	4	1643	5	2175B	13	3853	6	5110A	8	7620	8	13201	6
4	6	277	6	543	7	830	6	1264A	4	1667	5	2177A	13	3855	6	5112A	8	7621	8	13202	6
5	7	278	6	544	7	831	6	1265A	4	1668	5	2179A	4	3859	7	5113A	8	7623	8	13203	6
6	7	279	6	548	7	832	6	1267	4	1669	5	2180A	4	3860	7	5457A	8	7624	8	13204	6
13A	6	280	6	549	7	834	6	1268	4	1672	5	2181A	4	3862	7	5459A	8	7626	8	13205	6
14A	6	281	6	550	7	835	6	1270	9	1673	5	2212	10	3869	7	5460A	8	7628	8	13206	6
15A	7	282	6	551	7	836	6	1271	9	1674	5	2213	10	3871	7	5462A	8	7629	8	13210	6
16A	7	286	6	552	7	837	6	1272	9	1678	5	2255	10	3873	7	5536	10	7633	8	13211	6
31	5	287	6	553	7	838	6	1273	9	1679	5	2296	10	3879	7	5599A	8	7634	8	13212	6
32	5	288	6	554	7	839	6	1340	5	1688	6	2317	10	3881	7	5600A	8	7636	8	13215	6
33	6	289	6	555	7	840	6	1341	5	1700	5	2324	10	3883	7	5602A	8	9104	5	13216	6
34	6	290	6	556	7	843	6	1342	5	1701	5	2405	10	3887	7	5603A	8	9105	5	13217	6
35	7	291	6	560	7	844	6	1343	5	1702	5	2406	10	3888	7	5604A	8	9106	5	13218	6
36	7	292	6	561	7	854	9	1345	5	1703	5	2459	10	3891	7	5605A	8	9120	5	13219	6
100	4	293	6	562	7	856	4	1346	5	1704	5	2460	10	3896	7	5607A	8	9121	5	13223	6
101	4	294	6	577	9	859	9	1347	5	1707	5	2478	9	3897	7	5608A	8	9122	5	13224	6
102	4	298	6	578	9	891	6	1348	5	1708	5	2511	9	3899	7	5610A	8	9140	5	13225	6
103	4	299	6	584	9	903	4	1365	4	1709	5	2692	13	3905	7	5613A	8	9141	5	14101	7
104	4	300	6	585	9	905	4	1366	4	1710	5	2845	9	3907	7	5615A	8	9142	5	14102	7
105	4	315	6	586	9	907	5	1367	4	1711	5	2852	9	3909	7	5618A	8	9150	5	14105	7
109	4	318	9	590	9	919	6	1368	4	1712	5	2855	9	3913	10	5630A	8	9151	5	14106	7
110	4	319	9	591	9	924	6	1369	4	1716	5	2860	9	3916	10	5633A	8	9152	5	14111	7
111	4	321	9	597	9	931	6	1371	4	1717	5	2864	9	3980	6	5635A	8	9170	5	14112	7
121	7	322	9	598	9	932	6	1372	4	1719	5	2870	9	3981	6	5638A	8	9171	5	14201	7
122	7	325	9	599	9	933	6	1373	4	1720	5	2883	10	3987	6	5640A	8	9172	5	14202	7
125	7	327	9	603	9	935	6	1384	4	1721	5	3030	4	4101	11	5643A	8	9180	5	14203	7
126	7	328	9	604	9	938	6	1385	4	1723	5	3031	4	4102	11	5691A	8	9181	5	14204	7
128A	4	331	6	610	9	939	6	1386	4	1724	5	3034	4	4103	11	5692A	8	9182	5	14205	7
129A	4	332	6	611	9	942	6	1388	4	1730	5	3036	4	4105	11	5696A	8	9300	4	14206	7
130A	4	333	6	612	9	945	6	1389	4	1733	5	3041	4	4106	11	5743A	8	9301	4	14210	7
131A	4	334	6	616	9	947	6	1390	4	1734	5	3045	4	4107	11	5785	10	9302	4	14211	7
132A	4	335	6	617	9	948	6	1394	4	1735	5	3072	4	4108	11	5792A	13	9320	4	14212	7
134A	4	336	6	623	9	949	6	1395	4	1738	5	3093	4	4110	11	5793A	8	9321	4	14215	7
135A	4	338	9	624	9	951	6	1396	4	1739	5	3110	4	4111	11	5887A	8	9322	4	14216	7
136A	4	339	9	625	9	952	6	1397	4	1740	5	3112	4	4112	11	5888A	8	9340	4	14217	7
137	4	340	6	629A	9	972	6	1398	4	1744	5	3136	4	4113	11	5911A	8	9341	4	14218	7
138	4	341	6	630A	9	979	7	1399	4	1745	5	3153	4	4115	11	5924A	8	9342	4	14219	7
139	4	342	6	636A	9	980	7	1410	6	1746	5	3197	4	4116	11	5925A	8	9350	4	14223	7
141	4	343	6	637A	9	987	5	1411	6	1750	5	3200	4	4117	11	5946A	13	9351	4	14224	7
142	4	344	6	638A	9	988	5	1418	4	1751	5	3254	4	4118	11	5955A	8	9352	4	14225	7
143	4	345	6	642A	9	989	5	1419	4	1755	5	3266	6	4120	11	5956A	8	9370	4	20970	9
147A	6	346	6	643A	9	993	7	1420	4	1756	5	3306	6	4122	11	5959A	8	9371	4	21241	9
148A	6	347	6	649A	9	994	7	1421	4	1786	5	3312	6	4125	11	6059A	8	9372	4	41404	11
149A	6	348	6	650A	9	997	5	1422	4	1787	5	3319A	9	4127	11	6062A	8	9380	4	75001	12
151A	6	352	6	651A	9	998	5	1423	4	1788	5	3322	9	4130	11	6106	10	9381	4	75006	12
152A	6	353	6	681A	9	1035	10	1424	4	1789	5	3331	5	4132	11	6569	8	9382	4	75011	12
159	6	354	6	682A	9	1040	10	1425	4	1790	5	3338	9	4133	11	6571	8	9530	10	75016	12
160	6	355	6	688A	9	1045	10	1438	7	1791	5	3339	9	4135	11	7000	8	9531	10	75021	12
163	6	356	6	689A	9	1050	10	1455	4	1795	5	3340	9	4137	11	7002A	8	9532	10	75026	12
164	6	357	6	690A	9	1055	10	1456	4	1796	5	3341	9	4138	11	7010A	8	9562	13	75031	12
179A	7	359	6	694A	9	1060	10	1457	4	1797	5	3342	9	4140	11	7011A	8	9590	10	75036	12
180A	7	360	6	695A	9	1065	10	1459	4	1801	5	3343	9	4141	11	7012A	8	9591	10	75041	12
181A	7	361	6	701A	9	1070	10	1460	4	1802	5	3345	9	4142	11	7050	8	9592	10	75046	12
193A	7	362	6	702A	9	1075	10	1461	4	1803	5	3346	9	4143	11	7060	8	10081	12	75091	12
194A	7	363	6	703A	9	1080	10	1462	4	1804	5	3347	9	4145	11	7061	10	10082	12	75096	12
203A	4	364	6	711	6	1081	4	1463	4	1805	5	3348	9	4146	11	7213	8	10083	12	75101	12
204A	4	366	6	712	6	1103	4	1464	4	1808	5	3350	9	4147	11	7216	8	10718	12	75106	12
205A	4	367	6	717	6	1107	6	1465	4	1809	5	3355	9	4148	11	7217	8	10749	12	75111	12
207A	4	368	6	719	6	1122A	4	1466	4	1810	5	3356	9	4150	11	7218	8	10751	12	75116	12
208A	4	392	6	725	7	1123A	4	1467	4	1811	5	3380	4	4162	11	7219	8	10754	12	75121	12
209A	4	393	6	731	7	1124A	4	1471	4	1812	5	3385	5	4163	11	7220	8	10755	12	75126	12
210A	4	394	6	733	10	1126A	4	1472	4	1813	5	3413	6	4165	11	7221	8	10837	12	75131	12
211A	4	396	9	734	10	1127A	4	1473	4	1814	5	3424	6	4167	11	7222	8	10838	12	75136	12
212A	4	397	9	735	10	1128A	4	1474	4	1818	5	3449	4	4168	11	7238	8	10839	12	75201	12
214A	4	398	6	736	10	1131	5	1475	4	1819	5	3451	4	4170	11	7239	8	10840	12	75206	12
215A	4	399	6	737	10	1132	5	1476	4	1820	5	3454	4	4171	11	7240	8	10841	12	75211	12
216A	4	400	6	738	10	1133	5	1477	4	1825	9	3473	5	4172	11	7241	8	10842	12	75216	12
217A	4	401	6	739	10	1135	5	1478	4	1831	9	3485	5	4173	11	7242	8	10843	12	75221	12
218A	4	402	6	740	10	1136A	4	1479	4	1832	9	3517	9	4175	11	7243	8	10844	12	75226	12
219A	4	403	6																		



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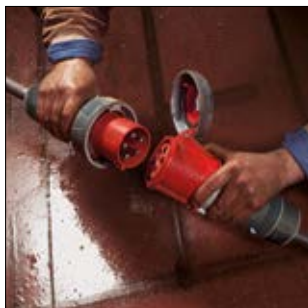
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