Sockets - Panel mounted, with screw terminals

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110. Products with pilot contact available on request.

	Panel mounted socket	A P	110 V	230 V	400 V	500 V	>50 -	500 V
0 million	flange 75 x 75 mm, straight	16.2	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
		16.4	1388	1389	1390	1391	1392	1393
		16 5	1384	1386	1385	3057	3059	3060
		32 3	1394	139	1396	0007		0000
	IP 44	32 4	1397	1398	1399	1400	1401	1402
	Std. Pack. Qty: 10	32 5	3449	3454	3451	3452	3455	3447
	Drawing: 1 MB 464							
	Panel mounted socket	A P	110 V	230 V	400 V	500 V	>50 -	500 V
107	X-CONTACT, flange 107 x 110 mm_straight	62.2	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
		63 4	1200A	1201A	12494	12/04		
		63 5		1247A	1240A	124 <i>5</i> A		
		00 0			1202/1			
	IP 44							
	Std. Pack. Qty: 5							
	Drawing: 1 MB 211							
	Panel mounted socket	AP	110 V	230 V	400 V	500 V	>50 -	500 V
(0-)	flange 16 A, 3 p: 73.5 x 64 mm, 16 A 4 + 5 p 32 A: 100 x 92 mm	46.0	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	inclination 20°, 32 A: sockets	16 3	1462	1463	1464	1469	3186	3187
	optional fitted with auxiliary contact	16 4	1405	1400	1407	2100	3190	2100
		32 3	1491	1492	1493	5100	3201	3202
	IP 44	32 4	1494	1495	1496	1497	1486	1487
	Std. Pack. Qty: 10	32 5	1498	1499	1500	3191	3192	3193
	Drawing: 1 MB 260							
	Panel mounted socket	A P	110 V	230 V	400 V	500 V	>50 -	500 V
	Panel mounted socket X-CONTACT, flange 110 x 106 mm.	A P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
Ter o	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20°	A P 63 3	110 V 50 a. 60 Hz 11 A	230 V 50 a. 60 Hz 1147A	400 V 50 a. 60 Hz 1148A	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20°	 A P 63 63 4 63 5 	110 V 50 a. 60 Hz 11 A 1149A	230 V 50 a. 60 Hz 1147A 1150A 1154A	400 V 50 a. 60 Hz 1148A 1151A 1155A	500 V 50 a. 60 Hz 1152A	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20°	 A P 63 63 4 63 5 	110 V 50 a. 60 Hz 11 A 1149A 11 A	230 V 50 a. 60 Hz 1147A 1150A 1154A	400 V 50 a. 60 Hz 1148A 1151A 1155A	500 V 50 a. 60 Hz 1152A	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20°	 A P 63 3 63 4 63 5 	110 V 50 a. 60 Hz 11 A 1149A 11 A	230 V 50 a. 60 Hz 1147A 1150A 1154A	400 V 50 a. 60 Hz 1148A 1151A 1155A	500 V 50 a. 60 Hz 1152A	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20°	 A P 63 63 4 63 5 	110 V 50 a. 60 Hz 11 A 1149A 11 A	230 V 50 a. 60 Hz 1147A 1150A 1154A	400 V 50 a. 60 Hz 1148A 1151A 1155A	500 V 50 a. 60 Hz 1152A	> 50 - ! 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297	A P 63 3 63 4 63 5	110 ∨ 50 a. 60 Hz 11 A 1149A 11 A	230 V 50 a. 60 Hz 1147A 1150A 1154A	400 V 50 a. 60 Hz 1148A 1151A 1155A	500 V 50 a. 60 Hz 1152A	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket	 A P G3 G3 4 G3 5 	110 V 50 a. 60 Hz 11 A 1149A 11 A 11 A	230 V 50 a. 60 Hz 1147A 1150A 1154A 1154A 230 V	400 V 50 a. 60 Hz 1148A 1151A 1155A 1155A	500 V 50 a. 60 Hz 1152A 500 V	>50 - 1 100-300 Hz	500 V 300-500 Hz 500 V
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm	 A P 63 63 4 63 5 	110 V 50 a. 60 Hz 11 A 1149A 11 A 11 A 50 a. 60 Hz 50 a. 60 Hz 2021	230 V 50 a. 60 Hz 1147A 1150A 1154A 1154A 230 V 50 a. 60 Hz 2026	400 V 50 a. 60 Hz 1148A 1151A 1155A 1155A	500 V 50 a. 60 Hz 1152A 1152A 500 V 50 a. 60 Hz	> 50 - 100-300 Hz > 50 - 1 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination	A P 63 3 63 4 63 5 0 7 10 3 16 3 16 3 16 3	110 V 50 a. 60 Hz 11 A 1149A 11 A 11 A 50 a. 60 Hz S0 a. 60 Hz 50 a. 60 Hz 30 31	230 V 50 a. 60 Hz 1147A 1150A 1154A 1154A 50 a. 60 Hz 3036	400 V 50 a. 60 Hz 1148A 1151A 1155A 1155A 50 a. 60 Hz 3072	500 V 50 a. 60 Hz 1152A 500 V 50 a. 60 Hz 3074	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination	 A P 63 63 4 63 5 4 63 7 16 3 16 4 16 5 	110 V 50 a. 60 Hz 11 11 1149A 11 A 50 a. 60 Hz 50 a. 60 Hz 3031	230 V 50 a. 60 Hz 1147A 1150A 1154A 1154A 50 a. 60 Hz 3036	400 V 50 a. 60 Hz 1148A 1151A 1155A 1155A 50 a. 60 Hz 3072 3093	500 V 50 a. 60 H2 1152A 500 V 50 a. 60 H2 3074	>50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination	 A P 63 4 63 5 4 63 5 4 16 3 32 	110 V 50 a. 60 Hz 11 11 11 11 A 11 A Solar 60 Hz A A A A A A A A A B A B <td>230 V 50 a. 60 Hz 1147A 1150A 1154A 230 V 50 a. 60 Hz 3036 3036</td> <td>400 V 50 a. 60 Hz 1148A 1151A 1155A 400 V 50 a. 60 Hz 3072 3093</td> <td>500 V 50 a. 60 Hz 1152A 500 V 50 a. 60 Hz 3074 3137</td> <td>>50 - 1 100-300 Hz</td> <td>500 V 300-500 Hz 500 V 300-500 Hz</td>	230 V 50 a. 60 Hz 1147A 1150A 1154A 230 V 50 a. 60 Hz 3036 3036	400 V 50 a. 60 Hz 1148A 1151A 1155A 400 V 50 a. 60 Hz 3072 3093	500 V 50 a. 60 Hz 1152A 500 V 50 a. 60 Hz 3074 3137	>50 - 1 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination	A P 63 3 63 4 63 5 ////////////////////////////////////	110 V 50 a. 60 Hz 11 11 1149A 11 A 50 a. 60 Hz 30 31	230 V 50 a. 60 Hz 1147A 1150A 1154A 1154A 50 a. 60 Hz 3036 3112 3140	400 V 50 a. 60 Hz 1148A 1151A 1155A 400 V 50 a. 60 Hz 3072 3093 403 3093	500 V 50 a. 60 H2 11152A 11152A 500 V 50 a. 60 H2 3074 31137 3114	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination	 A P 63 4 63 5 4 63 7 16 3 16 4 16 5 32 4 32 5 	110 V 50 a. 60 Hz 11 A 1149A 11 A 11 A 50 a. 60 Hz 3031	230 V 50 a. 60 Hz 1147A 1150A 1154A 50 a. 60 Hz 3036 3112 3140	400 V 50 a. 60 H2 11148A 1151A 1155A 50 a. 60 H2 3072 3093 3093 3136 31	500 V 50 a. 60 H2 11152A 1152A 500 V 50 a. 60 H2 3074 3137 3114	>50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination	 A A<	110 V 50 a. 60 Hz 11 11 11 11 11 11 A 110 V 50 a. 60 Hz 30 31 3110	230 V 50 a. 60 Hz 1147A 1150A 1154A 230 V 50 a. 60 Hz 3036 3112 3140	400 V 50 a. 60 Hz 1148A 1151A 1155A 400 V 50 a. 60 Hz 3072 3093 400 3136 31	500 V 50 a. 60 H2 1152A 500 V 50 a. 60 H2 3074 3137 3114	>50 - 1 100-300 Hz >50 - 1 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 453 Panel mounted socket	 A P G3 4 G3 5 4 G3 5 16 4 16 32 32 4 32 5 	110 V 50 a. 60 Hz 11 A 1149A 11 A 11 A 50 a. 60 Hz 30 31 31 10 31 10	230 V 50 a. 60 Hz 1147A 1150A 1154A 200 V 50 a. 60 Hz 3036 3112 3140 3140	400 V 50 a. 60 Hz 1148A 1151A 1155A 50 a. 60 Hz 3072 3093 3136 3136 31	500 V 50 a. 60 H2 11152A 11152A 500 V 50 a. 60 H2 3074 3137 3114	>50 - 1 100-300 Hz >50 - 1 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 500 V
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 453 Panel mounted socket miniflange: 68 x 62 mm, inclination 20°	 A P 63 4 63 5 4 63 7 16 3 16 4 16 3 16 4 16 5 32 4 32 5 4 32 5 	110 V 50 a. 60 Hz 11 </td <td>230 V 50 a. 60 Hz 1147A 1150A 1154A 200 V 230 V 3036 3112 3140 3140 230 V 50 a. 60 Hz</td> <td>400 V 50 a. 60 Hz 1148A 1151A 1155A 400 V 50 a. 60 Hz 3093 400 V 3136 31 400 V 50 a. 60 Hz</td> <td>500 V 50 a. 60 H2 1152A 1152A 50 a. 60 H2 3074 3137 3114 3137 3114</td> <td>>50 - 1 100-300 Hz >50 - 1 100-300 Hz 100-300 Hz 100-300 Hz</td> <td>500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz</td>	230 V 50 a. 60 Hz 1147A 1150A 1154A 200 V 230 V 3036 3112 3140 3140 230 V 50 a. 60 Hz	400 V 50 a. 60 Hz 1148A 1151A 1155A 400 V 50 a. 60 Hz 3093 400 V 3136 31 400 V 50 a. 60 Hz	500 V 50 a. 60 H2 1152A 1152A 50 a. 60 H2 3074 3137 3114 3137 3114	>50 - 1 100-300 Hz >50 - 1 100-300 Hz 100-300 Hz 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 453 Panel mounted socket miniflange: 68 x 62 mm, inclination 20°	A P 63 3 63 4 63 5 ////////////////////////////////////	110 V 11 1149A 11 11 A 11 A Soa.60 Hz A Soa.60 Hz	230 V 50 a. 60 Hz 1147A 1150A 1154A 0 0 0 0 0 0 0 0 0 0 0 0 0	400 V 50 a. 60 Hz 1148A 1151A 1155A 400 V 50 a. 60 Hz 3136 31 400 V 50 a. 60 Hz	500 V 50 a. 60 H2 11152A 11152A 500 V 50 a. 60 H2 31137 3114 50 a. 60 H2	>50 - 1 100-300 Hz >50 - 1 100-300 Hz 100-300 Hz 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 453 Panel mounted socket miniflange: 68 x 62 mm, inclination 20°	 A P G3 4 G3 5 4 G3 5 4 16 3 16 4 16 32 32 4 32 5 A P 16 3 16 4 16 5 32 4 32 5 	110 V 11 1149A 111 11 A 11 A 3031 3110 3110 50 a. 60 Hz 3031 50 a. 60 Hz 3031 858	230 V 50 a. 60 H2 1147A 1150A 1154A 50 a. 60 H2 3036 3112 3140 50 a. 60 H2 3140	400 V 50 a. 60 Hz 1148A 1151A 1155A 50 a. 60 Hz 3072 3093 3136 3136 31 400 V 50 a. 60 Hz	500 V 50 a. 60 H2 11152A 11152A 500 V 50 a. 60 H2 31137 3114 500 V 50 a. 60 H2	>50 - 1 100-300 Hz >50 - 1 100-300 Hz >50 - 1 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 453 Panel mounted socket miniflange: 68 x 62 mm, inclination 20°	A P 63 3 63 4 63 5 ////////////////////////////////////	110 V 11 1149A 11	230 V 50 a. 60 Hz 1147A 1150A 1154A 3036 3036 3036 3312 3140 50 a. 60 Hz 3140	400 V 50 a. 60 Hz 1148A 1151A 1155A 400 V 50 a. 60 Hz 3072 3093 400 V 50 a. 60 Hz	500 V 50 a. 60 H2 1152A 1152A 500 V 50 a. 60 H2 3137 3114 500 V 50 a. 60 H2	>50 - 1 100-300 Hz >50 - 1 100-300 Hz 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 453 Panel mounted socket miniflange: 68 x 62 mm, inclination 20°	A P 63 3 63 4 63 5 ////////////////////////////////////	110 V 11 1149A 11 11 A 3031 3110	230 V 50 a. 60 H2 1147A 1150A 1154A 3036 3036 33112 3140 230 V 50 a. 60 H2 3140	400 V 50 a. 60 H2 1148A 1151A 1155A 400 V 50 a. 60 H2 3072 3093 3136 31 400 V 50 a. 60 H2	500 V 50 a. 60 H2 11152A 11152A 500 V 50 a. 60 H2 31137 3114 50 a. 60 H2	>50 - 1 100-300 Hz >50 - 1 100-300 Hz 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 110 x 106 mm, inclination 20° IP 44 Std. Pack. Qty: 5 Drawing: 1 MB 297 Panel mounted socket standard flange, dimensions 85 x 85 mm, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 453 Panel mounted socket miniflange: 68 x 62 mm, inclination 20° IP 44 Std. Pack. Qty: 10 Panel mounted socket	 A P G3 4 G3 5 4 G3 5 4 16 3 16 4 16 32 4 32 5 	110 V 11 1149A 111 A 111 A So a. 60 Hz 3031 3110 So a. 60 Hz 3031 A So a. 60 Hz	230 V 50 a. 60 H2 1147A 1150A 1154A 3036 3036 3312 3140 230 V 50 a. 60 H2 3140 230 V 50 a. 60 H2 3140	400 V 50 a. 60 H2 11148A 1151A 1155A 50 a. 60 H2 3072 3072 3073 3072 3073 3072 3073 400 V 50 a. 60 H2	500 V 50 a. 60 H2 11152A 500 V 50 a. 60 H2 3137 3114 500 V 50 a. 60 H2	>50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz

Sockets – Panel mounted, with screw terminals

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110. Products with pilot contact available on request.

	Panel mounted socket	A P	110 V	230 V	400 V	500 V	>50 - !	500 V
	flange 16 A: 75 x 75 mm, 32 A: 85 x 75 mm, straight	16.3	50 a. 60 Hz	50 a. 60 Hz 218Δ	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
		16 4	2204	2704	2734	2230	2244	2254
		16 5	226A	22 I/X 227A	222/N	22071	22 01	220/1
		32.3	229A	230A	231A			
	IP 67	32 4	232A	233A	234A	235A	236A	237A
	Std. Pack. Qty: 10	32.5	238A	239A	240A	20071	200,1	20//1
	Drawing: 1 MB 141							
	Panel mounted socket	ΛΡ	110 V	230 V	400 V	500 V	>50 - 1	500 V
COT INTO	X-CONTACT,	^ '	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	flange 63 A: 107 x 100 mm, 125 A: 130 x 130 mm, straight	63 3	1263A	1264A	1265A			
	· · · · · · · · · · · · · · · · · ·	63 4	1122A	1123A	1124A	1125A		
All A Park		63 5	1126A	1127A	1128A			
		125 3		3380				
	IP 67	125 4	1455	1456	1457	1458		
	Drawing: 1 MB 212/258	125 5	1459	1460	1461	3283		
1 4 2	Panel mounted socket	A P	110 V 50 a, 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - ! 100-300 Hz	500 V 300-500 Hz
	16 A, 4 + 5 p, 32 A: 100 x 92 mm,	16 3	1474	147	1476			
	inclination 20°, 32 A sockets	16 4	1477	1478	1479	1480	1481	1482
		16 5	1483	1484	1485			
		32 3	1501	150	1503			
	IP 67	32 4	1504	150	1506	1507	1567	1568
	Std. Pack. Qty: 10	32 5	1489	149	1551			
	Drawing: 1 MB 251							
	Panel mounted socket	A P	110 V	230 V	400 V	500 V	>50 - !	500 V
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm,	A P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 1 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°,	 A P 63 63 4 	110 V 50 a. 60 Hz 2179A	230 V 50 a. 60 Hz 2180A	400 V 50 a. 60 Hz 2181A	500 V 50 a. 60 Hz	> 50 - 5 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15°	 A P 63 63 4 63 5 	110 V 50 a. 60 Hz 2179A 203A	230 V 50 a. 60 Hz 2180A 20 A	400 V 50 a. 60 Hz 2181A 205A	500 V 50 a. 60 Hz 206A	> 50 - 5 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15°	 A P 63 63 4 63 5 125 3 	110 V 50 a. 60 Hz 2179A 203A 207A	230 V 50 a. 60 Hz 2180A 20 A 208A 3575	400 V 50 a. 60 Hz 2181A 205A 209A	500 V 50 a. 60 Hz 206A 3507	> 50 - ! 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15°	 A P 63 63 4 63 5 125 4 	110 V 50 a. 60 Hz 2179A 203A 207A	230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A	400 V 50 a. 60 Hz 2181A 205A 209A	500 V 50 a. 60 Hz 206A 3507	> 50 - ! 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15°	 A P 63 63 4 63 5 125 3 125 4 125 5 	110 V 50 a. 60 Hz 2179A 203A 207A 207A 210A	230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A 21 A	400 V 50 a. 60 Hz 2181A 205A 209A 21 A 216A	500 V 50 a. 60 Hz 206A 3507 213A	> 50 - 5 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601	 A A<	110 V 50 a. 60 Hz 2179A 203A 207A 210A 210A 214A	230 V 50 a, 60 Hz 2180A 20 A 208A 3575 211A 21 A	400 V 50 a. 60 Hz 2181A 205A 209A 209A 21 A 216A	500 V 50 a. 60 Hz 206A 3507 213A	> 50 - 1 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket	 A A B C C<	110 V 50 a. 60 Hz 2179A 203A 207A 210A 210A 214A	230 V 50 a. 60 H2 2180A 20 A 208A 3575 211A 21 A	400 V 50 a. 60 Hz 2181A 205A 209A 209A 21 A 216A	500 V 50 a. 60 Hz 206A 3507 213A	> 50 - 5 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions	 A P G3 4 G3 5 125 4 125 5 A P 	110 V 50 a. 60 Hz 2179A 203A 207A 210A 210A 214A 50 a. 60 Hz	230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A 21 A 21 A 21 A	400 V 50 a. 60 Hz 2181A 205A 209A 21 A 216A 216A	500 V 50 a. 60 Hz 206A 3507 213A 213A 500 V 50 a. 60 Hz	>50 - 5 100-300 Hz >50 - 5 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact	 A A G3 G3 4 G3 5 125 4 125 5 A P 16 3	110 V 50 a. 60 Hz 2179A 203A 207A 210A 210A 214A 214A 50 a. 60 Hz 903	230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A 21 A 21 A 25 a. 60 Hz 905	400 V 50 a. 60 Hz 2181A 205A 209A 21 A 216A 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz	>50 - 9 100-300 Hz >50 - 9 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact	A P 63 3 63 4 63 5 125 3 125 5 A P 16 3 16 4	110 V 50 a. 60 Hz 2179A 203A 207A 210A 210A 214A 110 V 50 a. 60 Hz 903	230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A 21 A 21 A 20 A 50 a. 60 Hz 905	400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 A 216A 400 V 50 a. 60 Hz 1081	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz	>50 - 5 100-300 Hz >50 - 5 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact	 A A A A A B A A<	110 V 50 a. 60 Hz 2179A 203A 207A 210A 210A 214A 110 V 50 a. 60 Hz 903	230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A 21 A 21 A 21 A 20 A 50 a. 60 Hz 905	400 V 50 a. 60 Hz 2181A 205A 209A 21 A 21 A 216A 50 a. 60 Hz 1081 1103	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact	 A A G3 3 G3 4 G3 5 125 4 125 5 A P A P A B A A A B A A A B A A A B A A B A A B A A A B <li< td=""><td>110 V 50 a. 60 Hz 2179A 203A 207A 210A 210A 214A 214A 903 903</td><td>230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A 21 A 21 A 25 a. 60 Hz 905 320</td><td>400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 A 216A 400 V 50 a. 60 H2 1081 1103</td><td>500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108</td><td>>50 - 1 100-300 Hz</td><td>500 V 300-500 Hz 500 V 300-500 Hz</td></li<>	110 V 50 a. 60 Hz 2179A 203A 207A 210A 210A 214A 214A 903 903	230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A 21 A 21 A 25 a. 60 Hz 905 320	400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 A 216A 400 V 50 a. 60 H2 1081 1103	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108	>50 - 1 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact	A P 63 3 63 4 63 5 125 3 125 5 A P 16 3 16 4 16 5 32 3 32 4	110 V 50 a. 60 Hz 2179A 203A 207A 210A 214A 214A 110 V 50 a. 60 Hz 903	230 V 50 a. 60 H2 2180A 20 A 208A 3575 211A 21 A 21 A 21 A 50 a. 60 H2 50 a. 60 H2 320	400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 A 216A 0 1081 1081 1083 400 V 50 a. 60 H2 400 V 50 a. 60 H2	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108 3256	>50 - 5 100-300 Hz >50 - 5 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 × 106 mm, inclination 20°, 125 A: 114 × 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 × 85 mm, inclination 20°, optional fitted with auxiliary contact IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 452	 A A A A A A 125 3 125 4 125 5 4 125 4 125 4 16 5 32 32 4 32 5 	<mark>110 V</mark> 50 а. 60 Hz 2179А 203А 207А 210А 214А 214А 214А 50 а. 60 Hz 903 3197	230 V 50 a, 60 H2 2180A 20 A 3575 211A 21 A 21 A 21 A 50 a, 60 H2 905	400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 A 216A 1081 1081 1103 3254 3524	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108 3256	>50 - 2 100-300 Hz 2 100-300 Hz 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 452	 A A G3 4 G3 5 125 4 125 5 125 4 125 5 126 4 126 3 16 4 16 5 32 32 4 32 5 	110 V 50 a. 60 Hz 203A 207A 210A 210A 214A 110 V 50 a. 60 Hz 903	230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A 21 A 21 A 25 a. 60 Hz 905 320	400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 A 21 6A 1081 1081 1103 3254 3524	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108 3256	>50 - 1 100-300 Hz >50 - 1 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 452 Auxiliary contact for standard socket	 A A G3 4 G3 5 125 3 125 4 125 5 A P 16 3 16 4 16 5 32 3 32 4 32 5 	110 V 50 а. 60 H2 2179А 203А 207А 210А 214А 214А 50 а. 60 H2 903	230 V 50 a. 60 Hz 2180A 20 A 3575 211A 21 A 21 A 50 a. 60 Hz 50 a. 60 Hz	400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 6A 216A 1081 1081 1081 1081 3254 3524	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108 3256	>50 - 5 100-300 Hz >50 - 5 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 452 Auxiliary contact for standard sockets and panel mounted	 A A A A A B 125 3 125 4 125 5 A P 16 3 16 4 16 5 32 32 4 32 5 	110 V 50 а. 60 Hz 2179А 203А 207А 210А 214А 214А 50 а. 60 Hz 903 3197	230 V 50 a. 60 H2 2180A 20 A 3575 211A 21 A 21 A 50 a. 60 H2 905 320	400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 A 216A 1081 1081 1081 1081 3254 3524 3524 3524	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108 3256	>50 - 1 100-300 Hz 300 Hz 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 452 Auxiliary contact for standard sockets and panel mounted sockets 16 A and 32 A	 A A G3 4 G3 5 125 4 125 5 125 4 125 5 126 4 125 3 16 4 16 5 32 3 32 4 32 5 	110 V 50 а. 60 Hz 2179А 203А 207А 210А 214А 214А 903 3197	230 V 50 a. 60 Hz 2180A 20 A 208A 3575 211A 21 A 21 A 905 320 320	400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 A 216A 1081 1081 1081 1081 3254 3524 3524 3524	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108 3256	>50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket X-CONTACT, flange 63 A: 110 x 106 mm, inclination 20°, 125 A: 114 x 110 mm, inclination 15° IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 298/601 Panel mounted socket standard flange dimensions 85 x 85 mm, inclination 20°, optional fitted with auxiliary contact IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 452 Auxiliary contact for standard sockets and panel mounted sockets 16 A and 32 A	A P 63 3 63 4 63 5 125 3 125 5 A P 16 3 16 4 16 5 32 4 32 5	110 V 50 а. 60 Hz 2179А 203А 207А 210А 214А 214А 50 а. 60 Hz 903	230 V 2180A 20 A 208A 3575 211A 21 A 21 A 905 320 320	400 V 50 a. 60 H2 2181A 205A 209A 21 A 21 6A 400 V 50 a. 60 H2 1081 1103 3254 3524 3524 3524	500 V 50 a. 60 Hz 206A 3507 213A 500 V 50 a. 60 Hz 108 3256	>50 - 1 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz

Std. Pack. Qty: 10

24 | MENNEKES

II.

Sockets - Panel mounted, screwless, with TwinCONTACT

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Panal mounted cosket							
		A P	110 V	230 V	400 V	50 a 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
A C STREET	flange 75 x 75 mm, straight	16.3	1667	166	1669			1671
		16.4	1672	1673	1674	1675	1676	1677
A CALL AND A CALL		10 4	1072	1075	2205	1075	1070	1077
		16 5	1678	16/9	3385	1680		1682
		32 3	1786	178	1788			
	IP 44	32 4	1789	179	1791	1792	1793	1794
	Std. Pack. Qty: 10 Drawing: 1 MB 464	32 5	1795	1796	1797	1798		1800
	Panel mounted socket	A D	440.14	220.1/	400.1/	E00.1/	>50	500 V
10-2	screwless, with TwinCONTACT,	AP	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	flange 16 A, 3 p: 73.5 x 64 mm,	16 3	1631	1632	1633			1635
	16 A, 4 + 5 p, 32 A: 100 x 92 mm,	16 4	1636	1637	1638	1639	1640	1641
	with auxiliary contact	16 5	1642	1643	3473	1644		1646
	,	22.2	1722	1724	1725	1044		1727
Constant New York		32 3	1/33	1734	1/35			1/3/
	IP 44 Std. Dack, Othr 10	32 4	1738	173	1740	1741	1742	1743
	Drawing: 1 MB 465	32 5	1744	1745	1746	1747		1749
	Panel mounted socket	ΔΡ	110 V	230 V	400 V	500 V	>50 -	500 V
	screwless, with TwinCONTACT,	· ·	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	standard flange dimensions	16 3	3004	3008				
	optional fitted with auxiliary contact	16 4			3048	3049		
		16 5			3070			
		32.3	3124	3126				
		22 4	5124	5120	2155	2157		
	IP 44 Std. Pack. Otv: 10	32 4			3155	3157		
	Drawing: 1 MB 519	32.5			3171			
	Panel mounted socket	A P	110 V	230 V	400 V	500 V	>50 - 1	500 V
10-	Panel mounted socket screwless, with TwinCONTACT,	A P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
10-	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight	A P 16 3	110 V 50 a. 60 Hz 1618	230 V 50 a. 60 Hz 161	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight	A P 16 3	110 V 50 a. 60 Hz 1618	230 V 50 a. 60 Hz 161	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight	A P 16 3	110 V 50 a. 60 Hz 1618	230 V 50 a. 60 Hz 161	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight	A P 16 3	110 V 50 a. 60 Hz 1618	230 V 50 a. 60 Hz 161	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight	A P 16 3	110 V 50 a. 60 Hz 1618	230 V 50 a. 60 Hz 161	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 1 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10	A P 16 3	110 V 50 a. 60 Hz 1618	230 V 50 a. 60 Hz 161	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426	A P 16 3	110 V 50 a. 60 Hz 1618	230 V 50 a. 60 Hz 161	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426	A P 16 3	110 V 50 a. 60 Hz 1618	230 V 50 a. 60 Hz 161	400 V 50 a. 60 Hz	50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO	A P 16 3	110 V 50 a. 60 Hz 1618	230 V 50 a. 60 Hz 161 230 V	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz 500 V
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system,	A P 16 3	110 V 50 a. 60 Hz 1618 1618 50 a. 60 Hz	230 V 50 a. 60 Hz 161 261 50 a. 60 Hz	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz	50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing,	 A P 16 3 	110 V 50 a. 60 Hz 1618 1618 50 a. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz	50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm	 A P 16 3 	110 V 50 a. 60 Hz 1618 1618 50 a. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz	50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm	A P 16 3 A P 16 3	110 V 50 a. 60 Hz 1618 1618 50 a. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm	A P 16 3 A P 16 3 Image: A P 16 3	110 V 50 a. 60 Hz 1618 1618 50 a. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz	50 a. 60 Hz	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm	 A P 16 3 	110 V 50 a. 60 Hz 1618 110 V 50 a. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz	50 a. 60 Hz	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm	A P 16 3 A P 16 3 I 10 3 16 3	110 V 50 a. 60 Hz 1618 110 V 50 a. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz	50 a. 60 Hz	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468	A P 16 3 A P 16 3 Interview P 16 3	<mark>110 V</mark> 50 а. 60 Hz 1618 110 V 50 а. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz	50 a. 60 Hz	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468	 A P 16 3 	<mark>110 V</mark> 50 а. 60 Hz 1618 110 V 50 а. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz	50 a. 60 Hz	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468	 A P 16 3 A P 16 3 	<mark>110 V</mark> 50 а. 60 Hz 1618 110 V 50 а. 60 Hz 1132 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 50 a. 60 Hz	50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm	A P 16 3 A P 16 3 Image: A mathematic structure P 16 4	110 V 50 а. 60 Hz 1618 1618 50 а. 60 Hz 1132 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99 99 230 V 50 a. 60 Hz 1133	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 1134	>50 - 100-300 Hz >50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz 500 V
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 70 mm	A P 16 3 A P 16 3 A P 16 3 A P 16 3 In 3 In 16 3 In 16 3 In 16 4 In 16 4 In 16 5	110 V 50 а. 60 Hz 1618 1618 50 а. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99 230 V 50 a. 60 Hz 1133	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 998	50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 1134	>50 - 100-300 Hz >50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz 500 V
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm	A P 16 3 M P 16 3 M P 16 3 M P 16 3 I 16 I 16	110 V 50 a. 60 Hz 1618 1618 50 a. 60 Hz 1132 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99 99 50 a. 60 Hz 1133	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 998 907	50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 1134	>50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm	A P 16 3 A P 16 3 16 3 16 4 16 4 16 5 32 3	110 V 50 a. 60 Hz 1618 50 a. 60 Hz 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99 230 V 50 a. 60 Hz 1133 987 4400	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 998 907	50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 1134	>50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 70 mm	A P 16 3 A P 16 3 16 3 16 3 16 3 16 3 16 3 32 3 32 4	<mark>110 V</mark> 50 а. 60 Hz 1618 110 V 50 а. 60 Hz 1132 110 V 50 а. 60 Hz	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99 99 230 V 50 a. 60 Hz 1133 987 1166	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 9988	50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 1134	>50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted socket screwless, with TwinCONTACT, miniflange: 55 x 55 mm, straight IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 426 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 61 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468 Panel mounted socket RAPIDO screwless, with TwinCONTACT, with central locking system, round flange for central fixing, diam. 70 mm IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 468	A P 16 3 M P 16 3 M P 16 3 M P 16 3 16 3 32 3 32 5	<mark>110 V</mark> 50 а. 60 Hz 1618 1618 50 а. 60 Hz 1132 1132	230 V 50 a. 60 Hz 161 230 V 50 a. 60 Hz 99 99 50 a. 60 Hz 1133 987 1166	400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 50 a. 60 Hz 9988 907	50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz 1134 1167	>50 - 100-300 Hz >50 - 100-300 Hz 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz

Sockets – Panel mounted sockets, screwless, with TwinCONTACT

Panel mounted socket

flange: 16 A: 75 x 75 mm,

32 A: 85 x 75 mm, straight

IP 67

Std. Pack. Qty: 10

Drawing: 1 MB 467

Panel mounted socket

with auxiliary contact

screwless, with TwinCONTACT, flange: 16 A, 3 p: 73.5 x 64 mm,

16 A, 4 + 5 p, 32 A: 100 x 92 mm,

inclination 20°, 32 A: optionally fitted

screwless, with TwinCONTACT,

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

A P

16 3

16 4

16 5

32 3

32 4

32 5

A P

16 3

16 4

16 5

110 V

50 a. 60 H

1707

1710

1716

1809

1812

1818

110 V 50 a. 60 H

1700

230 V

1708

1711

1717

1810

1813

181

230 V

1701

1703

400 V

1709

1712

1131

1811

1814

1820

400 V

1702

1704

34

500 V

1713

1815

500 V

1

>50 - 500 V

>50 - 500 V

1715

1817

1714

1816

1706

- Ph -	Ì
	y

2





	Auxiliary contact					Part no).		
	Std. Pack. Qty: 10 Drawing: 1 MB 520	32	5			3590			
	IP 67	32				3581	3587		
		32	3	3566	3573				
		16	5			11			
	optionally fitted with auxiliary contact	16	4			1169	117		
	standard flange dimensions	16	3		1168				
e 11	Panel mounted socket screwless, with TwinCONTACT,	A	Ρ	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
0	Std. Pack. Qty: 10 Drawing: 1 MB 466	32	5			1808			
	IP 67	32	4		1804	1805	1806	1807	
		32	3	1801	1802	1803			



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41000

td. Pack. Qty: 10

Auxiliary contact.



Function: Change-over contact = NC/NO Connected load:

16 A (4 A)*/ ~ 250 V 10 A (3 A)*/~ 400 V

* for inductive or motor load

Sockets – Panel mounted sockets, switched and interlocked

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Panel mounted socket switched, with mechanical	Α	Ρ	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
ON	DUO-interlock	16	3	7502	7503				
		16	4		7504	7505	7506		
		16	5			75			
		32	3	7511	7512				
IP 44	IP 44	32	4		75	7514	7515		
Std. Pack. Qty: 1 Drawing: 5 MB 59		32	5			7516			
	Panel mounted socket switched, with mechanical	Α	Ρ	110 V	230 V	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V
	DUO-interlock								000 000 112
	DOO-INTERIOCK	16	3	7520	7521				
	DOO-Interiock	16 16	3 4	7520	7521 7523	7524	75		
	DOO-Interlock	16 16 16	3 4 5	7520	7521 7523	7524 7526	75		
	DOO-Interlock	16 16 16 32	3 4 5 3	7520	7521 7523 7531	7524 7526	75		
	IP 67	16 16 16 32 32	3 4 5 3 4	7520 7530	7521 7523 7531 7531	7524 7526 7534	75 7535		

X-CONTACT The new generation of contact sleeves.





More contact

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



Less effort

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

Get more information on the new generaton of contact sleeves at: www.mennekes.org/x-contact

The X principle Easy handling meets safe connections.

Innovative

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

X-CONTACT - intelligently innovative!



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

X-CONTACT - lasting solution!

Simple

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

X-CONTACT – simply brilliant!

Safe

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

X-CONTACT – double safety!



PowerTOP® Xtra Extra slip-proof. Extra shock-resistant. Extra protected.

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

Tough

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

Easy and fast installation

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

Always clean, always safe

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





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



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



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



 Safe contact: Simply insert and pull by X-CONTACT: At 63 A and 125 A.







Angled plug VarioTOP Ergonomic. Practical. Safe.

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

Plugs and connectors – Plugs

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

Plug AM-TOP	A P	110 V	230 V	400 V	500 V	>50 -	500 V
single part body	10.0	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	16 3	247	248	249	252	2168	2271
	16 4	250	251	252	253	254	255
	22.2	250	207	261	2014	2109	2243
	32 3	255	20	201	265	2195	2541
Std. Pack. Qty: 10	32 4	202	203	204	205	200	207
	52 5	200	205	4	2015	2244	2170
enclosure with thread lock and	AP	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	300-500 Hz
safety slide	16 3	14 A	148A				
	16 4		15 A	152A	153A		
	16 5			А			
	32 3	159	16				
IP 44	32 4		163	164	165		
Std. Pack. Qty: 10	32			14A			
Plug StarTOP	A P	110 V	230 V	400 V	500 V	>50 -	500 V
insulation displacement technique,	16.3	947	948	-50 a. 60 Hz	50 a. 60 Hz	-100-300 Hz	300-500 Hz
enclosure with thread lock and	16 4	517	951	952	95	954	
safety slide	16 5		551	33	55	554	
	32.3	711	712	00			
	32 4	,	717	719	723		
Std. Pack. Qty: 10	32 5			34			
 Plug PowerTOP [®] Xtra		110 V	220 V	400 V	500 V	>50	500 V
rubberised grip area, highly heat	AF	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
resistant contact carrier, frame terminals, nickel plated contacts.	63 3	13101	1310				
cable gland and sealing, strain relief	63 4		13105	13106	13107		
and protection against kinking	63 5		13111	13112			
IP 44 Std. Pack. Otv: 5							
Stu. I dek. Gty. S							
Angled along Marie TOD							
cable entry hood rotating up to 60°	A P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300- <u>500 Hz</u>
to the left or the right,	16 5		3981	3980			
3983 and 3980: in colour code 3983 and 3982: in electric grey							
5,	16 5		3983	3982			
IP 44							
Std. Pack. Qty: 10							
 Angled plug	A P	110 V	230 V	400 V	500 V	>50 -	500 V
with grommet	16.2	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	16.4	900	901	215			
	32.3	3312	3306	515			
	32 4	5512	3646	3987			
			0010	0007			

32 5

IP 44

Std. Pack. Qty: 10

34

3266

Plugs and connectors – Plugs

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



AM-TOP le part body, cable gland and	Α	Ρ	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
ing, strain relief and protection	16	3	277	278	279			
nst kinking	16		280	281	282	283	284	285
	16	5	286	287	288			
	32	3	289	290	291			
7	32	4	292	293	294	295	296	297
Pack. Qty: 10	32	5	298	299	300			



Plug PowerTOP® with external cable grip, highly heat resistant contact carrier and nickel plated contacts	A	Ρ	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	16	3	3794	3796	3799			
	16	4	3807	3811	3809	3810		
	16		3819	3823	3821			
	32	3	3829	383	3832			
IP 67	32	4	3839	384	3841	3842		
Std. Pack. Qty: 10	32	5	3851	3855	3853			



3

Plug PowerTOP® Xtra rubberised grip area, highly heat	Α	Ρ	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
resistant contact carrier, frame	63	3	13201	13202	1320			
terminals, nickel plated contacts, cable gland and sealing, strain relief	63	4	13204	13205	13206	13207	13208	1320
and protection against kinking	63	5	13210	13211	13212	13213		1321
	125	3	13215	13216				
IP 67	125	4	13217	13218	13219	13220		
Std. Pack. Qty: 5	125	5	13223	13224	13225	13226		13

Protective cover for IP 67 inlets and plugs	Description	Part no.		
	16 A, 3 p	40784		
	16 A, 4 p	40778		
	16 A, 5 + 7 p	40785		
	32 A, 3 + 4 p	40841		
	32 A, 5 + 7 p	40786		
	63 A, 3,4+5 p	40787		
Std. Pack. Qty: 50	125 A, 3, 4 + 5 p	40788		



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

Std. Pack. Qty: 1



Plug guard.

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

Part no.

60757M

Plugs and connectors – Wall mounted inlets

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Wall mounted inlet	Α	P 110 V	230 V	400 V	500 V	>50 - !	500 V
	for internal and external fixing,		<mark>50 a. 60 Hz</mark>	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	for hinged lids for retrofit see	16	3 843	844				
	part no. 41482 and 41489							
	IF 44 Std. Pack Oty: 10							
- A	Drawing: 2 MB 213							
	Wall manufact in lat		_					
	with hingsed lid, for internal	Α	P 110 V	230 V	400 V	500 V	> 50 - 5	500 V
	and external fixing	4.0	30 a. 00 Hz	0.47	50 a. 60 Hz	50 a. 60 Fiz	100-300 Hz	300-300 Hz
	and external lixing	16	3 846	847				
	IP 44							
	Std. Pack. Qty: 10							
	Drawing: 2 MB 212							
	Wall mounted inlet	Α	P 110 V	230 V	400 V	500 V	>50 - 5	500 V
	for external fixing,		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	for hinged lids for retrofit see	16	4		800			
	part no. 41482 and 41489	16	5		80			
Contract of the second second		22	2	000				
		32	3	802				
		32	4		803			
	IP 44	32			804			
a second a second second	Std. Pack. Qty: 10							
	Drawing: 2 MB 221							
	Drawing: 2 MB 221							
	Drawing: 2 MB 221 Wall mounted inlet	Α	P 110 V	230 V	400 V	500 V	>50 - 5	500 V
	Vall mounted inlet enclosure base with stamped recess	A	P 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 5 100-300 Hz	500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out	A 16	P 110 V 50 a. 60 Hz 3 331	230 V 50 a. 60 Hz 332	400 V 50 a. 60 Hz 33	500 V 50 a. 60 Hz	> 50 - 5 100-300 Hz	500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out	A 16	P 110 V 50 a. 60 Hz 3 331 4 334	230 V 50 a. 60 Hz 332 335	400 V 50 a. 60 Hz 33 336	500 V 50 a. 60 Hz	> 50 - 5 100-300 Hz	500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out	A 16 16	P 110 V 50 a. 60 Hz 3 331 4 334	230 V 50 a. 60 Hz 332 335	400 V 50 a. 60 Hz 33 336	500 V 50 a. 60 Hz 337	> 50 - 5 100-300 Hz 921	500 V 300-500 Hz 922
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out	A 16 16	110 V 50 a. 60 Hz 3 331 4 334 5 340	230 V 50 a. 60 Hz 332 335 341	400 V 50 a. 60 Hz 333 336 342	500 V 50 a. 60 Hz 337 2359	> 50 - 5 100-300 Hz 921 2668	500 V 300-500 Hz 922 2400
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out	A 16 16 16 32	110 V 50 a. 60 Hz 3 31 4 334 340 3 343	230 V 50 a. 60 Hz 332 335 341 344	400 V 50 a. 60 Hz 33 336 342 345	500 V 50 a. 60 Hz 337 2359	> 50 - 1 100-300 Hz 921 2668	500 V 300-500 Hz 922 2400
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out	A 16 16 16 32 32	P 110 V 50 a. 60 Hz 3 331 4 334 5 340 3 343 4 346	230 V 50 a. 60 Hz 332 335 341 344 344	400 V 50 a. 60 Hz 33 336 342 345 348	500 V 50 a. 60 Hz 337 2359 349	> 50 - 5 100-300 Hz 921 2668	500 V 300-500 Hz 922 2400
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out	A 16 16 16 32 32	110 V 50 a. 60 Hz 3 4 334 5 340 3 343 4 345	230 V 50 a. 60 Hz 332 335 341 344 344 347	400 V 50 a. 60 Hz 33 336 342 345 345 348	500 V 50 a. 60 Hz 337 2359 349	> 50 - 5 100-300 Hz 921 2668	500 V 300-500 Hz 922 2400
	IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 221	A 16 16 32 32 32	110 V 50 a. 60 Hz 3 4 334 5 340 3 343 4 343 5 345	230 V 50 a. 60 Hz 332 335 341 344 344 347 353	400 V 50 a. 60 Hz 33 336 342 345 348 348 354	50 a. 60 Hz 3337 2359 349 2	> 50 - 5 100-300 Hz 921 2668	500 V 300-500 Hz 922 2400
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32	A 16 16 32 32 32	110 V 50 a. 60 Hz 3 4 3334 5 340 3 343 4 343 5 352	230 V 50 a. 60 Hz 332 335 341 344 347 353	400 V 50 a. 60 Hz 33 336 342 345 348 348 354	50 a. 60 Hz 3377 2359 349 2	> 50 - 5 100-300 Hz 921 2668	500 V 300-500 Hz 922 2400
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet	▲ 16 16 32 32 32	P 110 V 50 a. 60 Hz 3 331 4 334 5 340 3 343 4 346 5 352	230 V 50 a. 60 Hz 332 335 341 344 347 353	400 V 50 a. 60 Hz 33 336 342 345 348 354	500 V 50 a. 60 Hz 337 2359 349 2 2	> 50 - 5 100-300 Hz 921 2668 > 50 - 5	500 V 300-500 Hz 922 2400
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective	A 16 16 32 32 32 A	P 110 V 50 a. 60 Hz 3 331 4 334 5 340 3 343 4 346 5 352	230 V 50 a. 60 Hz 332 335 341 344 347 353 253	400 V 50 a. 60 Hz 333 336 342 345 348 354 354	50 a. 60 Hz 50 a. 60 Hz 337 2359 349 2 2 500 V 50 a. 60 Hz	> 50 - 5 100-300 Hz 921 2668 2668 > 50 - 5 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434	A 16 16 32 32 32 A 63	P 110 V 50 a. 60 Hz 3 331 4 334 5 340 3 343 4 346 5 352 P 110 V 50 a. 60 Hz 5 31216	230 V 50 a. 60 Hz 332 335 341 344 347 353 253 250 V 50 a. 60 Hz 1107	400 V 50 a. 60 Hz 33 336 342 345 348 354 354 0 D L 50 a. 60 Hz 1217	50 a. 60 Hz 337 2359 349 2 2 500 V 50 a. 60 Hz	> 50 - 5 100-300 Hz 921 2668 > 50 - 5 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434	A 16 16 16 32 32 32 32 A 63 63	P 110 V 50 a. 60 Hz 3 331 4 334 5 340 3 343 4 346 5 352 P 110 V 50 a. 60 Hz 3 1216 3 355	230 V 50 a. 60 Hz 332 335 341 344 347 353 230 V 50 a. 60 Hz 1107 356	400 V 50 a. 60 Hz 33 336 342 345 348 354 354 00 V 50 a. 60 Hz 1217 357	50 a. 60 Hz 50 a. 60 Hz 337 2359 349 2 2 500 V 50 a. 60 Hz	> 50 - 5 100-300 Hz 921 2668 > 50 - 5 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434	A 16 16 32 32 32 32 63 63 63	P 110 V 50 a. 60 Hz 3 331 4 334 5 340 3 343 4 346 5 352 P 110 V 50 a. 60 Hz 3 1216 355 55	230 V 50 a. 60 Hz 332 335 341 344 347 353 250 50 a. 60 Hz 1107 356	400 V 50 a. 60 Hz 333 336 342 345 348 354 354 0 50 a. 60 Hz 1217 357	50 a. 60 H2 337 2359 349 2 2 500 V 50 a. 60 H2	> 50 - 5 100-300 Hz 921 2668 > 50 - 5 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434	A 16 16 32 32 32 32 63 63 63 63	P 110 V 50 a. 60 Hz 3 331 4 334 5 340 3 343 4 346 5 352 P 110 V 50 a. 60 Hz 3 1216 355 359	230 V 50 a. 60 Hz 332 335 341 344 344 353 503 50 d. 60 Hz 1107 356 360	400 V 50 a. 60 H2 333 336 342 345 348 354 50 a. 60 H2 1217 357 361	50 a. 60 Hz 337 2359 349 2 500 V 50 a. 60 Hz 358	>50 - 8 100-300 Hz 921 2668 2668 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434	A 16 16 32 32 32 63 63 63 63 63 125	P 110 V 50 a. 60 Hz 3 331 4 334 5 340 3 343 4 346 5 352 P 110 V 50 a. 60 Hz 3 1216 355 359 4 362	230 V 50 a. 60 Hz 332 335 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 360	400 V 50 a. 60 H2 333 336 342 345 348 354 50 a. 60 H2 1217 357 361 364	50 a. 60 H2 50 a. 60 H2 2359 349 2 50 a. 60 H2 358 365	>50 - 8 100-300 Hz 921 2668 2668 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434 IP 67	A 16 16 32 32 32 63 63 63 125 125	110 V 50 a. 60 Hz 3 4 3334 5 340 3 3 4 340 3 3 4 343 343 343 343 343 343 343 343 344 345 352 7 110 V 50 a. 60 Hz 355 355 359 4 362 5 366	230 V 50 a. 60 Hz 332 335 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 363 367	400 V 50 a. 60 Hz 333 336 342 345 348 354 50 a. 60 Hz 1217 357 361 364 364	50 a. 60 H2 337 2359 349 2 50 a. 60 H2 358 365	>50 - 8 100-300 Hz 921 2668 2668 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434	A 16 16 32 32 32 63 63 63 125 125	110 V 50 a. 60 Hz 3 4 5 340 3 4 340 3 4 340 3 4 340 340 340 343 343 343 343 344 346 352 7 110 V 50 a. 60 Hz 355 355 355 359 4 362 366	230 V 50 a. 60 Hz 332 335 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 363 360	400 V 50 a. 60 H2 333 336 342 345 348 354 50 a. 60 H2 1217 357 361 361 364 364 368	50 a. 60 H2 50 a. 60 H2 2359 349 2 50 a. 60 H2 358 365	>50 - 8 100-300 Hz 921 2668 2668 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434 IP 67 Std. Pack. Qty: 5/3 Drawing: 2 MB 36	A 16 16 32 32 32 63 63 63 125 125	110 V 50 a. 60 Hz 3 4 5 340 3 4 340 3 4 340 3 4 340 3 4 343 343 343 343 343 343 343 343 343 344 345 352 352 352 353 355 355 355 355 355 356 366 366	230 V 50 a. 60 Hz 332 335 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 363 367	400 V 50 a. 60 H2 333 336 342 345 348 354 50 a. 60 H2 1217 357 361 361 364 368	50 a. 60 H2 50 a. 60 H2 2359 2349 2 349 2 50 a. 60 H2 358 365	>50 - 8 100-300 Hz 921 2668 2668 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434 IP 67 Std. Pack. Qty: 5/3 Drawing: 2 MB 36	A 16 16 32 32 32 63 63 63 125 125	110 V 50 a. 60 Hz 3 4 5 340 3 4 340 3 4 340 3 4 343 343 343 343 343 343 343 343 343 343 343 343 344 345 355 355 355 355 359 4 366 5 366	230 V 50 a. 60 Hz 332 341 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 363 367	400 V 50 a. 60 H2 333 342 345 348 354 50 a. 60 H2 1217 357 361 364 368	50 a. 60 H2 50 a. 60 H2 2359 2349 2 349 2 50 a. 60 H2 358 365	>50 - 8 100-300 Hz 921 2668 2668 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434 IP 67 Std. Pack. Qty: 5/3 Drawing: 2 MB 36	 A 16 16 32 32 32 A 63 63 63 63 125 125 	P 110 V 50 a. 60 Hz 3331 4 3344 5 3400 3 3434 4 346 5 352 P 110 V 5 352 P 1216 3 1216 355 359 4 362 5 366	230 V 50 a. 60 Hz 332 341 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 363 367	400 V 50 a. 60 H2 33 336 342 345 348 354 50 a. 60 H2 1217 357 361 364 368	50 a. 60 H2 50 a. 60 H2 2359 2 349 2 50 a. 60 H2 358 365	>50 - E 100-300 Hz 921 2668 2668 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434 IP 67 Std. Pack. Qty: 5/3 Drawing: 2 MB 36	A 16 16 32 32 63 63 125 125	110 V 50 a. 60 Hz 3 4 5 3340 3 4 3340 3 3 4 340 355 355 355 355 366 4 366 4 366 4 366 4 366 4 366 4 366	230 V 50 a. 60 Hz 332 341 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 363 367	400 V 50 a. 60 H2 333 342 345 348 354 50 a. 60 H2 1217 357 361 364 368	50 a. 60 H2 50 a. 60 H2 2359 2 349 2 50 a. 60 H2 358 365	>50 - 8 100-300 Hz 921 2668 100-300 Hz 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434 IP 67 Std. Pack. Qty: 5/3 Drawing: 2 MB 36	A 16 16 32 32 32 63 63 63 125 125 Dess for p	110 V 50 a. 60 Hz 3 4 5 340 3 4 340 3 5 340 3 4 340 3 4 340 340 340 340 343 343 343 343 344 355 359 4 362 366 366 366 366	230 V 50 a. 60 Hz 332 341 344 347 353 200 50 a. 60 Hz 1107 356 360 363 367 367	400 V 50 a. 60 H2 333 342 342 345 348 354 50 a. 60 H2 1217 357 361 361 364 368	50 a. 60 H2 50 a. 60 H2 2359 2 349 2 50 a. 60 H2 358 365	>50 - 8 100-300 Hz 921 2668 100-300 Hz 100-300 Hz 9 100-300 Hz 9 100-300 Hz 100-300 Hz 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434 IP 67 Std. Pack. Qty: 5/3 Drawing: 2 MB 36	A 16 16 32 32 32 63 63 63 125 125 Dess for p for p	110 V 50 a. 60 Hz 3 4 5 340 3 4 340 3 4 5 340 3 4 340 340 340 340 340 340 340 340 340 340 340 340 340 340 340 340 355 359 4 362 366 9 4 366 9 9 9 9 9 9 9 9 9 9 9 9 9 <t< td=""><td>230 V 50 a. 60 Hz 332 335 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 363 367 367 367</td><td>400 V 50 a. 60 Hz 333 342 342 345 348 354 2354 1217 357 361 368 368 368</td><td>50 a. 60 H2 50 a. 60 H2 2359 2 349 2 50 a. 60 H2 358 365</td><td>>50 - E 100-300 Hz 921 2668 100-300 Hz 100-300 Hz 100-300 Hz 9 100-300 Hz 100-300 Hz 100-300 Hz 100-300 Hz</td><td>500 V 300-500 Hz 922 2400 500 V 300-500 Hz</td></t<>	230 V 50 a. 60 Hz 332 335 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 363 367 367 367	400 V 50 a. 60 Hz 333 342 342 345 348 354 2354 1217 357 361 368 368 368	50 a. 60 H2 50 a. 60 H2 2359 2 349 2 50 a. 60 H2 358 365	>50 - E 100-300 Hz 921 2668 100-300 Hz 100-300 Hz 100-300 Hz 9 100-300 Hz 100-300 Hz 100-300 Hz 100-300 Hz	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434 IP 67 Std. Pack. Qty: 5/3 Drawing: 2 MB 36 Hinged lid for retrofitting for wall mounted inlets	A 16 16 32 32 32 63 63 63 125 Dess for p for p	110 V 50 a. 60 Hz 3 4 5 340 3 4 340 3 4 340 340 341 342 343 4 343 343 343 343 343 344 345 355 359 4 362 366 9 4 362 366 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	230 V 50 a. 60 Hz 332 335 341 344 347 353 230 V 50 a. 60 Hz 1107 356 360 363 367 367 and 844	400 V 50 a. 60 Hz 333 342 342 345 348 354 50 a. 60 Hz 1217 357 361 364 368 368	50 a. 60 H2 50 a. 60 H2 2359 2 349 2 50 a. 60 H2 358 365	>50 - E 100-300 Hz 921 2668 100-300 Hz 100-300 Hz 100-300 Hz 41482 41489	500 V 300-500 Hz 922 2400 500 V 300-500 Hz
	Drawing: 2 MB 221 Wall mounted inlet enclosure base with stamped recess for quick cutting out IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 32 Wall mounted inlet for a suitable watertight protective cover for 63 A see part no. 40434 IP 67 Std. Pack. Qty: 5/3 Drawing: 2 MB 36 Hinged lid for retrofitting for wall mounted inlets	A 16 16 32 32 32 63 63 63 125 Dess for p for p	110 V 50 a. 60 Hz 3 4 5 340 3 4 340 340 340 341 342 343 4 343 4 343 3443 3443 3443 344 344 345 355 359 4 362 366 9 1000 1216 355 359 4 362 5 366 9 1000 1000 1000 1000 1000 1000 1100 1100 1100 1100 1100 1100 1100 1100	230 V 50 a. 60 Hz 332 341 344 347 353 200 50 a. 60 Hz 1107 356 360 363 367 367 and 844	400 V 50 a. 60 H2 333 342 345 348 354 354 1217 357 361 368 368 368	500 V 50 a. 60 H2 337 2359 2 349 2 50 a. 60 H2 358 365	>50 - E 100-300 Hz 921 2668 100-300 Hz 100-300 Hz 100-300 Hz 41482 41489	500 V 300-500 Hz 922 2400 500 V 300-500 Hz

Std. Pack. Qty: 10

Plugs and connectors – Panel mounted inlets

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Panel mounted inlet	Α	Ρ	110 V	230 V	400 V	500 V	>50 - 500 V
	distance 52 x 52 mm, 32 A: flange	16	5	50 d. 60 HZ	50 d. 60 HZ	1408	50 d. 60 HZ	100-300 Hz 300-500 Hz
	72 x 72 mm, fixing distance	32	5			1409		
	hold the hinged lid of the connector							
5 50	must be provided by the customer in							
	IP 44							
	Std. Pack. Qty: 10							
· · · · · · · · · · · · · · · · · · ·	Drawing. 2 MB 68							
	Panel mounted inlet	Α	Ρ	110 V	230 V	400 V	500 V	>50 - 500 V
1 A A A A A A A A A A A A A A A A A A A	flange 75 x 75 mm, fixing distance: 60 x 60 mm, a retaining nose to	16	5	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz 300-500 Hz
	hold the hinged lid of the connector	10	5			000		
0.0	in order to ensure satisfactory							
5 50	locking							
	IP 44							
	Std. Pack. Qty: 10							
			_					
	Panel mounted inlet	Α	Ρ	110 V	230 V	400 V	500 V	>50 - 500 V
• •	nose to hold the hinged lid of the	16	3	50 a. 60 Hz	812	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz 300-500 Hz
	connector must be provided by	16	4		837	813	814	
	satisfactory locking	16	5			815		
		32	3		817			
0	IP 44	32	4		838	819	820	
•	Std. Pack. Qty: 10 Drawing: 2 MR 173/2	32	5			821		
	Panel mounted inlet	Α	Ρ	110 V	230 V	400 V	500 V	>50 - 500 V
	nighty heat resistant contact carrier, nickel plated contacts, a retaining	63	З	50 a. 60 Hz	1981	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz 300-500 Hz
	nose to hold the hinged lid of the	63	4		1984	1982	82	
100 T	the customer in order to ensure	63	5			1688		
	satisfactory locking							
0 10	IP 44							
	Std. Pack. Qty: 5 Drawing: 2 MB 155							
	Panel mounted inlet	Α	Ρ	110 V	230 V	400 V	500 V	>50 - 500 V
• •	nose to hold the hinged lid of the	16	3	825	826	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz 300-300 Hz
	connector must be provided by	16	4		839	827	828	
	satisfactory locking	16	5			829		
		32	3	830	831			
0	IP 67	32	4		840	832	833	
,	Std. Pack. Qty: 10 Drawing: 2 MP 487/2	32	5			834		
	Diawing, Z MB 18772							
11.7	Panel mounted inlet	Α	Ρ	110 V	230 V	400 V	500 V	>50 - 500 V
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, 63 A: a	A	Р 3	110 V 50 a. 60 Hz 835	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 500 V 100-300 Hz 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, 63 A: a retaining nose to hold the hinged lid of the consector must be received a	A 63	P 3 4	110 V 50 a. 60 Hz 835	230 V 50 a. 60 Hz 836 3704	400 V 50 a. 60 Hz 3656	500 V 50 a. 60 Hz 36	>50 - 500 V 100-300 Hz 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, 63 A: a retaining nose to hold the hinged lid of the connector must be provided by the customer in order to ensure	 A 63 63 63 	P 3 4 5	110 V 50 a. 60 Hz 835	230 V 50 a. 60 Hz 836 3704	400 V 50 a. 60 Hz 3656 3658	500 V 50 a. 60 Hz 36	>50 - 500 V 100-300 Hz 300-500 Hz

3413

3600

3583

1983

125 4

125 5

3

0

IP 67

Std. Pack. Qty: 5 Drawing: 2 MB 166

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

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Panal may ated in lat		_						_
	Faller mounted inter	Α	Ρ	110 V	230 V	400 V	50 a 60 Hz	>50 - 500 V 100-300 Hz I 300-500 H	
Nr. Carl		16	4	371	372	373	374		
Contraction of the local division of the loc		16	5	377	378	379			
		32	3	380	381	382			
		32	4	383	384	385	386		
	IP 44	32	5	389	390	391			
	Std. Pack. Qty: 10 Drawing: 2 MP 72								
	Diawing. 2 MB 73	_	_						_
	Panel mounted inlet	•	-	440.14	220.1/	400.1/	E00.V/		
	with hinged lid	A	Ρ	50 a. 60 Hz	230 V 50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz 300-500 H:	2
M		16	4	392	393	394	395		
		16		398	399	400			
		32	3	401	402	403			
		32		404	405	406	407		
	IP 44	32	5	410	411	412			
	Std. Pack. Qty: 10 Drawing: 2 MB 43								
	Phase sequence test plug	Α	Ρ	110 V	230 V	400 V	500 V	>50 - 500 V	
	to VDE 0413, part 7,			50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz 300-500 Hz	
	DIN-EIN 01337-7	16	4		35	3458	3459		
		16	5		3231	1414			
		32	4		3528	3460	3461		
		32	5		3232	1415			

63 4

63 5

3420

1436

14

3917

Phase sequence test plug

IP 44

Std. Pack. Qty: 5

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

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

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

Correct rotating field: Green lamp lights up.

Incorrect rotating field: Red lamp lights up.

Phase missing: Both lamps light up.

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



Plugs and connectors – Phase inverter plugs

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

	Phase inverter plug AM-TOP	•	n	110.1/	220 V	400 V	500 V	>50	500 V
	single part body, cable gland and	A	۲	50 a. 60 Hz	100-300 Hz	300-500 Hz			
	sealing, strain relief and protection	16	4			339			
	against kiriking	16	5		318	319			
7		32	4		396	397			
		32	5		321	322			
	IP 44								
	Std. Pack. Qty: 10								
		_	_						
	Phase inverter plug ProTOP	Δ	Р	110 V	230 V	400 V	500 V	>50 -	500 V
	cable gland and sealing		•	50 a. 60 Hz	100-300 Hz	300-500 Hz			
		16	5			3319A			
		32	5			3322			
	IP 44 Std. Daaly, Otyr 10								
	SIG. Pack. Gly. TO								
	Phase inverter plug AM-TOP single part body	Α	Ρ	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
		16	4		3338	3339			
		16	5			32			
		32	4		3340	3341			
		32	5		32	328			
	IP 67								
	Std. Pack. Qty: 10								
		_							
	Phase inverter plug VarioTOP	Α	Р	110 V	230 V	400 V	500 V	>50 -	500 V
	cable entry hood rotating up to 60°			50 a. 60 Hz	100-300 Hz	300-500 Hz			
	to the left of the right	16	5			859			

IP 44 Std. Pack. Qty: 5



Phase inverter plug

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

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

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

Using a phase inverter to change over the two phase conductors is a recognised technique of "operating electrical equipment". Two outer conductors rotatable through 180°.

Plugs and connectors – Phase inverter inlets

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Wall mounted phase inverter inlet	Α	Ρ	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V >50 - 500 V 50 a. 60 Hz 100-300 Hz 300-500 Hz
		16	5			3517	
Contraction of the		32	5			3523	
	IP 44						
	Std. Pack. Qty: 10 Drawing: 2 MB 221						
	Wall mounted phase invertor inlet	_	_				
	wan mounted phase moenter miet	Α	Ρ	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V >50 - 500 V 50 a. 60 Hz 100-300 Hz 300-500 Hz
		16	4		3342	3343	
		16	5			2511	
		32	4		33	3346	
		32	5		3347	2478	
	IP 44						
	Std. Pack. Qty: 10						
	Diawing. 2 MB 32		_				
	Panel mounted phase inverter	Α	Р	110 V	230 V	400 V	500 V >50 - 500 V
A. 18	inlet			50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz 100-300 Hz 300-500 Hz
No. of the second secon		16	4		3357	855	
		16	5			329	
And and a second s		32	4		3367	3368	
		32	5		913	330	
	IP 44 Std. Daole Othir 10						
and the second second	Drawing: 2 MB 73						
	Panel mounted phase inverter inlet	Α	Ρ	110 V	230 V	400 V	500 V > 50 - 500 V
NY.	with hinged lid	16	4	30 8. 00 112	3348	3350	
		16	5		0010	20970	
Page 1		32	4		3355	335	
and the second se		32	5		3717	21241	
	IP 44	52	0		3717	21211	
	Std. Pack. Qty: 10						
	Drawing: 2 MB 43						
	Panel mounted phase inverter		-	440.14	220.1/	400.1/	
	inlet	Α	Ρ	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V >50 - 500 V 50 a. 60 Hz 100-300 Hz 300-500 Hz
	flange 75 x 75 mm, fixing distance 60 x 60 mm	16	5			854	
	a retaining nose to hold the hinged						
	lid of the connector must be						
3 5	provided by the customer in order to ensure satisfactory locking						
	IP 44						
	Std. Pack. Qty: 10						
-	DIAWING: 2 MB 68/853						

Plugs and connectors – Connectors

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

	Connector AM-TOP	Α	Ρ	110 V	230 V	400 V	500 V	>50 -	500 V
	single part body	16	3	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	* For use on camping sites, please	16	1	512	513	51/	515	516	517
	select type 180AC	16	т 5	512	519	5	2026	2193	2/95
		32	3	521	522	522	2020	2105	2433
		22	7	521	522	525	E27	2190	2074 E20
	IP 44 Std. Pack. Qty: 10	22	4	524	525	520	2027	2245	340
		52	5	550	551	0	2027	2243	249
	Connector ProTOP		-	440.14	0001/	400.1/	500.1/	. 50	
	cable gland and sealing	A	Р	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	- 50 - 100-300 Hz	300-500 Hz
	* Foruse on camping sites, please	16	3	179A	180A *	181A			
	select type 180AC	16	4		193A	194A	195A		
Con 1		16	5			15A			
X		32	3	121	122				
	IP 44	32	4		125	126	127		
	Std. Pack. Qty: 10	32	5			16A			
	Connector StarTOP	Α	Р	110 V	230 V	400 V	500 V	>50 -	500 V
	screwless, with insulation displacing technique, SafeCONTACT, cable	16	3	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	gland and sealing	16	7	575	002	004	065	006	
	* For use on camping sites, please	16	4		995	994	905	990	
Not V	select type 180AC	22	ວ ວ	725	724	50			
		32	3	/25	731	700	705		
	IP 44 Std. Pack. Qtv: 10	32	4		761	/63	/65		
		32	э			30			
	Connector PowerTOP® Xtra		-	440.14	0001/	400.1/	500.1/	. 50	
	X-CONTACT,	A	Р	50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	2 50 - 100-300 Hz	300-500 Hz
	rubberised grip area, frame	63	3	14101	14102				
	terminais, cable gland and sealing								
		63	4		14105	14106			
		63 63	4 5		14105 14111	14106 14112			
		63 63	4 5		14105 14111	14106 14112			
	IP 44	63 63	4 5		14105 14111	14106 14112			
	IP 44 Std. Pack. Qty: 5	63 63	4		14105 14111	14106 14112			
	IP 44 Std. Pack. Qty: 5	63 63	4		14105 14111	14106 14112			
	IP 44 Std. Pack. Qty: 5 Angled Connector	63 63	4 5 P	110 V	14105 14111 230 V 50a 60 Hz	14106 14112 400 V	500 V	> 50 -1	500 V
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet	63 63 A	4 5 P 3	110 V 50 a. 60 Hz	14105 14111 230 V 50 a. 60 Hz 1438	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet	63 63 A 16	4 5 P 3	110 V 50 a. 60 Hz	14105 14111 230 V 50 a. 60 Hz 1438	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet	63 63 A 16	4 5 P 3	110 V 50 a. 60 Hz	14105 14111 2 230 V 50 а. 60 Hz 1438	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet	63 63 A 16	4 5 P 3	110 V 50 a. 60 Hz	14105 14111 50 a. 60 Hz 1438	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet	63 63 4 16	4 5 P 3	110 V 50 a. 60 Hz	14105 14111 230 V 50 a. 60 Hz 1438	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet IP 44 Std. Pack. Qty: 10	63 63 63 16	4 5 P 3	110 V 50 a. 60 Hz	14105 14111 50 a. 60 Hz 1438	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 100-300 Hz	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet IP 44 Std. Pack. Qty: 10	63 63 16	4 5 8	110 V 50 a. 60 Hz	14105 14111 50 a. 60 Hz 1438	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet IP 44 Std. Pack. Qty: 10 Hanging clip	63 63 16	4 5 3	110 V 50 a. 60 Hz	14105 14111 50 a. 60 Hz 1438	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 100-300 Hz	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet IP 44 Std. Pack. Qty: 10 Hanging clip for PowerTOP® plugs and	63 63 16 Dese	4 5 3 crij	110 V 50 a. 60 Hz 50 a. 50 Hz	14105 14111 50 a. 60 Hz 1438	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 100-300 Hz Part no.	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet IP 44 Std. Pack. Qty: 10 Hanging clip for PowerTOP® plugs and connectors	63 63 16 Des for 1 for 3	4 5 3 crij	110 V 50 a. 60 Hz 50 a. 5 p	14105 14111 50 a. 60 Hz 1438 and 32 A, 3	14106 14112 400 V 50 a. 60 Hz 3 + 4 p	500 V 50 a. 60 Hz	>50 - 100-300 Hz Part no. 15453000	500 V 300-500 Hz
	IP 44 Std. Pack. Qty: 5 Angled Connector with grommet IP 44 Std. Pack. Qty: 10 Hanging clip for PowerTOP® plugs and connectors	63 63 16 Desc for 1 for 3	4 5 3 crij	110 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	14105 14111 50 a. 60 Hz 1438 and 32 A, 3	14106 14112 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	>50 - 100-300 Hz Part no. 15453000 15452000	500 V 300-500 Hz

Std. Pack. Qty: 100

Plugs and connectors – Connectors

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

	with highly heat resistant contact carrier, cable gland and external cable grip, hanging clip	A 16	P 5	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz 3778	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
R M	IP 44	32	5			3999			
	Std. Pack. Qty: 10								
	Connector PowerTOP	Α	Ρ	110 V	230 V	400 V	500 V	>50 -	500 V
	with external cable grip and highly heat resistant contact	16	3	50 a. 60 Hz 3859	50 a. 60 Hz 3860	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	carrier	16	4	3869	3873	3871	3872		
		16		3879	3883	3881			
		32	3	3887	3888	3891			
	IP 67	32	4	3896	3899	3897	3898		
	Std. Pack. Qty: 10	32	5	3905	3909	3907			
	Connector AM-TOP	Δ	P	110 V	230 V	400 V	500 V	>50 -	500 V
	single part body, cable gland and	^		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	against kinking	16	3	539	54	541			
		16	4	542	543	544	545	546	547
		16	5	548	549	550			
		32	3	551	552	553		550	550
	IP 67 Std. Pack. Qty: 10	32	4 5	554 560	555	556	557	558	559
	Connector PowerTOP® Xtra	Α	Ρ	110 V	230 V	400 V	500 V	>50 -	500 V
	rubberised grip area, highly heat	63	З	14201	14202	14203	50 a. 60 Hz	100-300 Hz	300-500 Hz
12 A	resistant contact carrier, frame	63	-	14204	14205	14206	14207	14208	14209
	strain relief and protection against	63	5	14210	14211	14212	14213	11200	14214
	kinking	125	3	14215	14216	11212	14215		17217
		125	4	14217	14	14219	14220		
	Std. Pack. Qty: 5	125	5	14223	142	14225	14226		14227
Vidéo : X-CONTAG	CT								
					X-C	ON.	TAC	Г	
						l	NSID		
Get more information on the ne	5M								
on page 28 or at									
on page 28 or at www.x-contact.info									
on page 28 or at www.x-contact.info			1	-					
on page 28 or at			-	-			1	-	
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generation of contact steeves: on page 28 or at www.x-contact.info							ľ		

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



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

The smallest AMAXX® combination with one segment rounds off the program. It is available in protection type IP 44 and IP 67 as well as from 16 A, 3-pole up to 32 A, 5-pole and as AMAXX® DUO switched and interlocked.

The space-saver AMAXX® s

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



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

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

Variety of versions.

- Protection type: IP 44 and IP 67.
- Enclosure made of high-quality plastic or AMELAN in aggressive atmospheres with high resistance to chemicals as well as highly heat resistant contact carrier and nickel plated contacts.
- Colours: bottom part black, top part grey (silver (IP 44) or yellow available on request).
- Equipped with: CEE sockets from 16 A, 3 p up to 63 A, 5 p, grounding-type sockets in acc. with many national standards, DUO sockets switched and interlocked from 16 A, 3 p up to 32 A, 5 p as well as fuse elements.



You can rely on it.

4

MENNEKES quality: tested and certified.

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

ZERTIFIKAT	
Certificate	
für stückgeprüfte Qualität nach DIN EN 61439.	
for individually tested quality according to IEC 61439.	
Herenti bestilligen nic das das Stradoses Konbination einer Städgstelling unterzegen wurde. Herentin wie confirm fint the receptacle combination has passed a routine text.	
Der MENNEKES-Sicherheitstest berücksichtigt nicht nur die elektrischen Prüfarforderungen anch DIIN B (433), sondern beinhaltet darüber hinaus auch eine allpolige Hochspannungsprüfung. Tim MENNEKES sterk ystant die juit nickled her requirements for elektrical tests acc. to IEC 61439 but also a high voltage test for all police.	
Dichner Jark Dietmar Löcker Bereichsleiter Gualität / Division Manager Guality	
MENNEKES Elektrotochnik GmbH & Co. KG	Phone: +49 2723 41-1 Fax: +49 2723 41-214





Sophisticated details.

Liftable DIN rails.

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

One-man installation.

Shorter installation times with the new, user-friendly external fixing.

Hinged cover.

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

Ready for application.

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



 Generally angled insertion direction, also with sockets SCHUKO[®]



 Both hands free because inspection windows fold downwards



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



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

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

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

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

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

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

In the Service tab on pages 98 to 101 you will find additional information, excerpts from the standard for low voltage switchgear and control gear assemblies - IEC 61439, and a listing of the agreements between manufacturers of the switchgear and control gear assemblies and users.

What has changed with the switchgear standard – IEC 61439 and what are the benefi ts 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 verifi cation replaces the type test. MENNEKS combination units are subjected to additional standard-compliant routine tests. The outgoing circuits are individually loaded with the respective rated current.

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

Clear documentation

Signifi cant rating plate – clearly defi ned 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 specifi cations

Requests for a custom solution require clearly defined specifications by the user (such as installation site, ambient temperatures, etc.). Your advantage: You get a need-based solution by MENNEKES tailored to the specific application.

Distinction:

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

Your advantage: For combination units that are prewired for installation, MENNEKES is the original manufacturer and manufacturer and therefore bears the complete product responsibility.

Examp	ole –	rating	plate
Examp		ruung	plate

				NEKES		
InA	Rated current of the switchgear and control gear assembly				RDF	Rated diversity factor
U,	Rated voltage		Typ:	RDF 0,8 CE	I _{cc}	Conditional rated short-circuit current
f n	Rated frequency	_/	- Un:230/400V ~ / fn:100-300 Hz Vorsicherung (Fuse):	IP44 63 A PNF		Protection class
			1 234567 891231	IEC 61439-3 27	IP	Ingress protection

Pre-wired for installation (except part no. 910214 and 910394), IP 44, enclosure front cover electric grey RAL 7035, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 111 - 112.

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

Pre-wired for installation, IP 44, enclosure front cover electric grey RAL 7035, hinged to the side (except enclosure size 130×225 mm and 650×112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 111 - 112.

CEE sockets	CEE sockets	CEE sockets	CEE sockets
1 CEE 16 A, 5 p, 400 V	2 CEE 16 A, 5 p, 400 V Sockets, switched, with mechanical DUO-interlock	1 CEE 16 A, 5 p, 400 V	2 CEE 16 A, 5 p, 400 V
CEE sockets	CEE sockets	CEE sockets	CEE sockets
Sockets British standard	Sockets British standard	Sockets British standard	Sockets British standard
2 x 13 A, 2 p+E, 230 V	Frates	2 x 13 A, 2 p+E, 230 V	Eucles
1 MCB 16 A, 3 p, C 2 MCB's 13 A, 1 p, C	2 MCB's 16 A, 3 p, C	1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 1 MCB 13 A, 1 p, C	1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C
• · · ·	• · · ·	o "	
For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²
Connection and load values	Connection and load values	Connection and load values	Connection and load values
Pre-fuse max. 63 A InA 29 A RDF 1	Pre-fuse max. 100 A InA 32 A RDF 1	Pre-fuse max. 63 A InA 29 A RDF 1	Pre-fuse max. 63 A InA 16 A RDF 1
Enclosure size	Enclosure size	Enclosure size	Enclosure size
260 x 225 mm (H x W)	390 x 225 mm (H x W)	650 x 112.5 mm (H x W)	260 x 225 mm (H x W)
Part no.	Part no.	Part no.	Part no.
920464	931227	960043	920860

Pre-wired for installation, IP 44, enclosure front cover electric grey RAL 7035, hinged to the side (except enclosure size 130×225 mm and 650×112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 111 - 112.

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

Pre-wired for installation, IP 67, enclosure front cover electric grey RAL 7035, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 111 - 112.

CEE sockets	CEE sockets	CEE sockets	CEE sockets
2 CEE 16 A, 3 p, 110 V		2 CEE 16 A, 3 p, 110 V	
CEE sockets	CEE sockets 2 CEE 16 A, 3 p, 230 V	CEE sockets	CEE sockets 2 CEE 16 A, 3 p, 230 V
Sockets British standard	Sockets British standard	Sockets British standard	Sockets British standard
Fusing	Fusing	Fusing 1 RCD 25 A, 2 p, 0.03 A	Fusing 1 RCD 25 A, 2 p, 0.03 A 1 MCB 16 A, 1 p, C
Connection	Connection	Connection	Connection
For 2 cables up to 3 x 6 mm ²	For 1 cable up to 3 x 10 mm ²	For 1 cable up to 3 x 10 mm ²	For 1 cable up to 3 x 10 mm ²
Connection and load values	Connection and load values	Connection and load values Pre-fuse max. 16 A InA 25 A RDF 1	Connection and load values Pre-fuse max. 63 A InA 16 A RDF 1
Enclosure size	Enclosure size	Enclosure size	Enclosure size
130 x 225 mm (H x W)	130 x 225 mm (H x W)	260 x 225 mm (H x W)	260 x 225 mm (H x W)
Part no.	Part no.	Part no.	Part no.
910393	910355	520700	520714

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Pre-wired for installation, IP 67, enclosure front cover electric grey RAL 7035, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 111 - 112.

CEE sockets	CEE sockets 2 CEE 32 A, 5 p, 400 V Sockets, switched, with mechanical DUO-interlock 2 CEE 16 A, 5 p, 400 V
CEE sockets	CEE sockets
2 CEE 16 A, 3 p, 230 V	
Sockets British standard	Sockets British standard
Fusing	Fusing
1 RCD 25 A, 2 p, 0.03 A	1 RCD 63 A, 4 p, 0.03 A 2 MCB's 32 A, 3 p, C 1 MCB 16 A, 3 p, C
Connection	Connection
For 1 cable up to 3 x 10 mm ²	For 1 cable up to 5 x 16 mm ²
Connection and load values	Connection and load values
Pre-fuse max. 16 A InA 25 A RDF 1	Pre-fuse max. 63 A InA 58 A RDF 0.6
Enclosure size	Enclosure size
260 x 225 mm (H x W)	260 x 225 mm (H x W)
Part no.	Part no.
920649	900946

Combination units - Accessories, wall mounted

Accessories for AMAXX® combination units.

				(
AMAXX [®] standard cable glands	AMAXX [®] screw set	AMAXX [®] attachment set		AMAXX support	® /carrier frame
black RAL 9005 M 20 - for cable from 6-13 mm IP 44: Part no. 990607 IP 67: Part no. 990611 M 25 - for cable from 9-17 mm IP 44: Part no. 990610 M 32 - for cable from 13-21 mm IP 44: Part no. 990608 IP 67: Part no. 990612 M 40 - for cable from 14-28 mm IP 67: Part no. 990609	consisting of 4 screws 6 x 70 mm Pozidrive size 3, steel galvanized and 4 dowels 8 x 50 mm, for concrete, porous concrete, solid brick, perforated brick	for lateral installa of AMAXX® s co mounting either right hand side (set of 2 for 1 co Part no. 990620	ntion mbinations, for on the left or mbination)	yellow R suitable combina with the 260 × 22 390 × 22 for wall r protectio mobile c carrying feeder c type IP 4	AL 1003, for AMAXX® tition units sizes: 25 mm, 25 mm and 25 mm mounting in on type IP 67 or as combinations with handle and with table in protection 44 and IP 67
	Selection chart for membra	ne cable glands			
	AMAXX [®] combination units	Standard cable entries	Recommandation of usage membrane cable gland*		e
	with 1 segment Enclosure: 130 x 225 mm (H x W)	top: 2 × M 25 2 × M 20 bottom: 2 × M 25 2 × M 20	1 x M 25		alternative: 1 x M 20
AMAXX [®] membrane	with 2 segments Enclosure: 230 x 225 mm (H x W)	top: 2 × M 32 2 × M 20 bottom: 2 × M 32 2 × M 20	1 x M 32		alternative: 2 x M 20
cable glands black RAL 9005, incl. blanking plug	with 3 segments Enclosure: 390 x 225 mm (H x W)	top: 2 × M 40 2 × M 20 bottom: 2 × M 40 2 × M 20	1 × M 40		alternative: 2 x M 20
M 25 - for cable from 9-17 mm Part no. 990623 M 32 - for cable from 13-21 mm	with 4 segments Enclosure: 520 x 225 mm (H x W)	top: 2 × M 40 2 × M 20 bottom: 2 × M 40 2 × M 20	1 x M 40 und 1 x	M 20	alternative: 3 x M 20

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

* At least required for the following ambient conditions:

top:

2 x M 40

2 x M 20

bottom: 2 x M 40 2 x M 20

with 5 segments

650 x 225 mm (H x W)

Enclosure:

used.

Reduction of the ambient temperature by 45 °C through 10-minutes of heavy rain (enclosure, e.g heated to 60 °C through sunlight, subsequent cloudburst with water temperature of 15 °C). If temperature differentials are greater/less, accordingly more or fewer membrane cable glands must be

1 x M 40 und 2 x M 20

Part no. 990625

4

alternative: 4 x M 20

Highly resistant to chemicals made of AMELAN, pre-wired for installation, IP 44 and IP 67, enclosure front cover grey RAL 7000, hinged to the side (except enclosure size 130 x 225 mm and 650 x 112.5 mm). Fusing behind a transparent cover. For drawings and dimensions see page 111 -112.



CEE sockets 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V	CEE sockets	CEE sockets	CEE sockets 1 CEE 32 A, 5 p, 400 V
CEE sockets	CEE sockets	CEE sockets	CEE sockets
	2 CEE 16 A, 3 p, 230 V	1 CEE 32 A, 3 p, 230 V	
Sockets British standard	Sockets British standard	Sockets British standard	Sockets British standard
3 x 13 A, 2 p+E, 230 V			
Fusing 1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 3 MCB's 13 A, 1 p, C	Fusing 1 RCD 25 A, 2 p, 0.03 A	Fusing 1 RCD 40 A, 2 p, 0.03 A	Fusing 1 RCD 40 A, 4 p, 0.03 A
Connection	Connection	Connection	Connection
For 1 cable up to 5 x 16 mm ²	For 1 cable up to 3 x 10 mm ²	For 1 cable up to 3 x 10 mm ²	For 1 cable up to 5 x 10 mm ²
Connection and load values	Connection and load values	Connection and load values	Connection and load values
Pre-fuse max. 63 A InA 63 A RDF 0.75	Pre-fuse max. 63 A InA 63 A RDF 0.75		Pre-fuse max. 32 A InA 63 A RDF 0.75
Enclosure size	Enclosure size	Enclosure size	Enclosure size
520 x 225 mm (H x W)	260 x 225 mm (H x W)	260 x 225 mm (H x W)	260 x 225 mm (H x W)
Part no.	Part no.	Part no.	Part no.
941142	920821	921022	921024

Combination units – Suspended, AMAXX®

Pre-wired for installation, IP 44, enclosure front cover electric grey, yellow or silver, hinged to the side. Fusing behind a transparent cover. With suspension eyes on top, grip hooks on the bottom and chain set provided.

* The combination units can be ordered in electric grey RAL 7035, yellow RAL 1021 or silver RAL 9006. To order in yellow or silver, please add the appropriate colour code to the order number (yellow = GE, silver = SI).

For drawings and dimensions see page 111.





Set of chains

are provided with each suspendable AMAXX® combination unit.



CEE sockets	CEE sockets
2 CEE 16 A, 5 p, 400 V	1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
CEE sockets	CEE sockets
Sockets SCHUKO®	Sockets SCHUKO®
4 SCHUKO [®] 16 A, 230 V	3 SCHUKO® 16 A, 230 V
Fusing	Fusing
1 RCD 40 A, 4 p, 0.03 A	1 RCD 40 A, 4 p, 0.03 A
4 MCB's 16 A, 1 p, C	3 MCB 16 A, 3 p, C
Connection	Connection
For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²
Connection and load values	Connection and load values
Pre-fuse max. 40 A	Pre-fuse max. 32 A
RDF 0.7	RDF 1
Enclosure size	Enclosure size
260 x 225 mm (H x W)	260 x 225 mm (H x W)
Part no.	Part no.
970004*	970002*

Combination units - Suspended, AMAXX®

Pre-wired for installation, IP 44, enclosure front cover electric grey, yellow or silver, hinged to the side. Fusing behind a transparent cover.

With suspension eyes on top, grip hooks on the bottom and chain set provided.

* The combination units can be ordered in electric grey RAL 7035, yellow RAL 1021 or silver RAL 9006. To order in yellow or silver, please add the appropriate colour code to the order number (yellow = GE, silver = SI).

For drawings and dimensions see page 111.

			(P) (B)
			Pneumatic connection
_	_	_	for suspendable AMAXX®
CEE sockets 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V	CEE sockets 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V	CEE sockets 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V	
Data port sockets 1 Cepex RJ45, 2 fold Cat.6	CEE sockets	CEE sockets	
Sockets SCHUKO®	Sockets SCHUKO®	Sockets SCHUKO®	
3 SCHUKO [®] 16 A, 230 V	4 SCHUKO [®] 16 A, 230 V	4 SCHUKO [®] 16 A, 230 V	
Fusing	Fusing	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	1 RCD 40 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 4 MCB's 16 A, 1 p, C	1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 4 MCB's 16 A, 1 p, C	
Connection	Connection	Connection	
For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²	
Connection and load values	Connection and load values	Connection and load values	
Pre-fuse max. 32 A InA 32 A RDF 1	Pre-fuse max. 40 A Ina 40 A RDF 0.7	Pre-fuse max. 63 A InA 63 A RDF 0.85	
Enclosure size	Enclosure size	Enclosure size	for tube NW 9 mm
260 x 225 mm (H x W)	260 x 225 mm (H x W)	260 x 225 mm (H x W)	Part no. 997001
Part no.	Part no.	Part no.	for tube NW 12 mm
970005*	970001*	970003*	Part no. 997000

AirKRAFT and 3KRAFT The Team for electrical power. Data. Compressed air.

For ceiling and fl oor.

You need electrical power, compressed air, data? Safe and fl exible? Go for AirKRAFT or 3KRAFT. Characteristic for both: Suspended from the ceiling, attached to the wall, or portable with a supply cable, also available in signal yellow, red or silver. The choice is yours!



DELTA-BOX the classic unit.

Δ

award.

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





Socket strips the versatile units.

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

Combination units – AirKRAFT and 3KRAFT

Pre-wired for installation, IP 20 or IP 44¹⁰ ¹⁾ Regarding portable combination units in IP 44 please see page 106 for further information. Fusing behind a transparent cover. Colours: Back box in black, cover available in red (RO), yellow (GE) or silver (SI). Other variations on request. Dimensions page 113

Fitted with 1 CEE 16 A, 5 p, 400 V 3 SCHUKO® 16 A, 230 V	Fitted with 2 CEE 16 A, 5 p, 400 V 2 SCHUKO® 16 A, 230 V	Fitted with 2 CEE 16 A, 5 p, 400 V 2 SCHUKO® 16 A, 230 V	Fitted with 1 CEE 16 A, 5 p, 400 V 3 SCHUKO® 16 A, 230 V
Fusing	Fusing	Fusing 1 RCD 40 A, 4 p, 0.03 A	Fusing 1 MCB 16 A, 3 p, C 1 MCB 16 A, 1 p, C
Connection	Connection	Connection	Connection
For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²	For 1 cable up to 5 x 10 mm ²	3 m H07RN-F5G4 with CEE plug 32 A, 5 p, 400 V
Connection and load values	Connection and load values	Connection and load values	Connection and load values
Protection type	Protection type	Protection type	Protection type
IP 44 Part no.	IP 44 Part no.	IP 44 Part no.	IP 44 Part no.
94550	94552	94553	94559
Fitted with 3 SCHUKO® 16 A, 230 V	Fitted with 2 SCHUKO® 16 A, 230 V 1 RJ45 double data port cat.6, 8/8	Fitted with 1 CEE 16 A, 5 p, 400 V 1 SCHUKO® 16 A, 230 V 1 RJ45 double data port cat.6, 8/8	Fitted with 3 SCHUKO® 16 A, 230 V
Fusing	Fusing	Fusing	Fusing
Connection	Connection	Connection	Connection
For 1 cable up to 3 x 6 mm ²	For 1 cable up to 3 x 6 mm ²	For 1 cable up to 5 x 10 mm ²	3 m H07RN-F3G1.5 with plug SCHUKO [®] 16 A, 230 V
Connection and load values	Connection and load values	Connection and load values	Connection and load values
Protection type	Protection type	Protection type	Protection type
IP 44	IP 20	IP 20	IP 44
94351	94354	94355	94357

Combination units – **DELTA-BOX**

Pre-wired for installation, IP $44^{1}/67^{-1}$ Regarding portable combination units in IP 44 please see page 106 for further information. With cable grip and installed hanging hook. Other combinations on request. Dimensions page 113.

Fitted with 3 CEE 16 A, 5 p, 400 V	Fitted with 3 CEE 32 A, 5 p, 400 V
Fusing	Fusing
Connection For 1 cable up to 5 x 10 mm ²	Connection For 1 cable up to 5 x 10 mm ²
Connection and load values	Caracteristiques electriques
Protection type IP 44 Part no. 92917	Protection type IP 44 Part no. 90839
Fitted with 1 CEE 16 A, 5 p, 400 V 3 SCHUKO® 16 A, 230 V	Fitted with 2 CEE 16 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V
Fusing 1 Inter. différentiel 25 A, 2 p, 0,03 A	Fusing
Connection For 1 cable up to 5 x 10 mm ²	Connection For 1 cable up to 5 x 10 mm ²
Connection and load values	Connection and load values
Protection type	Protection type
Part no.	Part no.
92658	92893

Combination units – Socket strips

 $\label{eq:pre-wired} \ensuremath{\text{Pre-wired}}\xspace{1.5} \ensurema$

Fitted with 3 Grounding type sockets British standard 13 A, 2 p+E, 230 V	Fitted with 3 CEE 16 A, 3 p, 110 V	Fitted with 3 CEE 16 A, 3 p, 230 V	Fitted with 3 CEE 16 A, 5 p, 400 V
Fusing 1 RCD 0.03 A	Fusing 1 RCD 0.03 A	Fusing 1 RCD 0.03 A	Fusing 1 RCD 0.03 A
Connection For 1 cable up to 3 x 10 mm ²	Connection For 1 cable up to 3 x 10 mm ²	Connection For 1 cable up to 3 x 10 mm ²	Connection For 1 cable up to 5 x 10 mm ²
Connection and load values	Connection and load values	Connection and load values	Connection and load values
Protection type IP 44 Part no.	Protection type IP 44 Part no.	Protection type IP 44 Part no.	Protection type IP 44 Part no.
52005	52001	52003	95472
Fitted with 2 CEE 16 A, 5 p, 400 V 1 SCHUKO® 16 A, 230 V	Fitted with 3 CEE 16 A, 3 p, 110 V	Fitted with 3 CEE 16 A, 3 p, 230 V	Fitted with 3 CEE 16 A, 5 p, 400 V
Fusing	Fusing	Fusing	Fusing
Connection	Connection	Connection	Connection
For 1 cable up to 5 x 10 mm ²	For 1 cable up to 3 x 10 mm ²	For 1 cable up to 3 x 10 mm ²	For 1 cable up to 5 x 10 mm ²
Connection and load values	Connection and load values	Connection and load values	Connection and load values
Protection type	Protection type	Protection type	Protection type
P 44 Part no.	Part no	Part no.	Part no
96703	96227	96489	96705

EverGUM Flexible safety.

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

The outstanding advantages:

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

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

Tested safety, EverGUM details.

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





Socket strip EverGUM.

Window size for six or eight modules for vertical installation.


Combination units – EverGUM

Pre-wired for installation, IP 44¹⁰ ¹⁾ Regarding portable combination units in IP 44 please see page 104 for further information. Fusing behind a transparent cover. Colour: signal yellow. Other variations with CEE sockets 3, 4 or 5 pole and with grounding-type sockets of French/Belgian, British, Swiss and US-standards on request. Dimensions page 113 - 114.

Fitted with 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 3 SCHUKO® 16 A, 230 V	Fitted with 1 CEE 63 A, 5 p, 400 V 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V	Fitted with 3 CEE 16 A, 5 p, 400 V	Fitted with 1 CEE 16 A, 5 p, 400 V 2 SCHUKO® 16 A, 230 V
Fusing 1 MCB 32 A, 3 p, C 2 MCB's 16 A, 3 p, C 3 MCB's 16 A, 1 p, B	4 SCHUKO® 16 A, 230 V Fusing 1 MCB 63 A, 3 p, C 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 2 MCB's 16 A, 1 p, B	Fusing	Fusing 1 RCD 40 A, 4 p, 0.03 A 2 MCB's 16 A, 1 p, B
Connection for 2 cables up to 5 x 25 mm ²	Connection for 2 cables up to 5 x 25 mm ²	Connection 2 m H07RN-F5G2.5 with CEE-plug 16 A, 5 p, 400 V	Connection 2 m H07RN-F5G2.5 with CEE-plug 16 A, 5 p, 400 V
Connection and load values Pre-fuse max. 100 A InA 48 A RDF 0.75	Connection and load values Pre-fuse max. 63 A InA 63 A RDF 0.85	Connection and load values	Connection and load values InA 16 A RDF 0.95
Protection type IP 44	Protection type IP 44	Protection type IP 44	Protection type IP 44
Part no. 70007	Part no. 71062	Part no. 70029	Part no. 70033
Fitted with 2 CEE 16 A, 5 p, 400 V 4 SCHUKO [®] 16 A, 230 V	Fitted with 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 4 SCHUKO® 16 A, 230 V	Fitted with 1 CEE 63 A, 5 p, 400 V 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 4 SCHUKO® 16 A, 230 V	Fitted with 1 CEE 63 A, 5 p, 400 V 1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V 4 SCHUKO® 16 A, 230 V
Fusing 1 RCD 40 A, 4 p, 0.03 A	Fusing 1 RCD 40 A, 4 p, 0.03 A 1 MCB 16 A, 3 p, C 2 MCB's 16 A, 1 p, B	Fusing 1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 2 MCB's 16 A, 1 p, B	Fusing 1 RCD 63 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 2 MCB's 16 A, 1 p, B
Connection with inlet 16 A, 5 p, 400 V	Connection 2 m H07RN-F5G4 with CEE-plug 32 A, 5 p, 400 V	Connection 3 m H07RN-F5G10 with CEE-plug 63 A, 5 p, 400 V	Connection with inlet 63 A, 5 p, 400 V
Connection and load values InA 16 A RDF 1	Connection and load values InA 32 A RDF 0.65	Connection and load values InA 63 A RDF 0.6	Connection and load values Ina 57 A RDF 0.4
Protection type IP 44	Protection type IP 44	Protection type IP 44	Protection type IP 44
Part no.	Part no. 70351	Part no. 70025	Part no. 70049

Combination units – Mobile, EverBOX

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

EverBOX Mobile distributor for events, fairs, emergency services, heavy industries, markets and funfairs.





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



Product details

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

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

CEE sockets

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

CEE sockets

Sockets SCHUKO®

6 SCHUKO® 16 A, 230 V

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

Connection

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

Connection and load values InA 63 A RDF 0.75

Enclosure size

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

Protection type

IP 67

Part no. 9500719

60 | MENNEKES

Combination units – Mobile, EverBOX

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

CEE sockots	CEE sockots	CEE sockots	CEE sockots
1 CEE 32 A, 5 p, 400 V 1 CEE 16 A, 5 p, 400 V	2 CEE 32 A, 5 p, 400 V 4 CEE 16 A, 5 p, 400 V	1 CEE 63 A, 5 p, 400 V 2 CEE 32 A, 5 p, 400 V 2 CEE 16 A, 5 p, 400 V	1 CEE 125 A, 5 p, 400 V 1 CEE 63 A, 5 p, 400 V 2 CEE 32 A, 5 p, 400 V 2 CEE 16 A, 5 p, 400 V
CEE sockets	CEE sockets	CEE sockets	CEE sockets
Sockets SCHUKO®	Sockets SCHUKO®	Sockets SCHUKO®	Sockets SCHUKO®
12 SCHUKO [®] 16 A, 230 V	5 SCHUKO® 16 A, 230 V	9 SCHUKO® 16 A, 230 V	3 SCHUKO® 16 A, 230 V
Fusing	Fusing	Fusing	Fusing
1 RCD 40 A, 4 p, 0.03 A	2 RCD's 63 A, 4 p, 0.03 A	1 RCD 63 A, 4 p, 0.03 A	2 RCD's 63 A, 4 p, 0.03 A
1 MCB 16 A, 3 P, C, 10 KA 12 MCB's 16 A 1 p C 10 kA	2 MCBs 32 A, 3 p, C 4 MCB's 16 A 3 p C	2 MCB's 32 A, 3 p, C 2 MCB's 16 A 3 p C	2 MCB's 32 A 3 p C
3 Phase control lights green	5 MCB's 16 A, 1 p, C	9 MCB's 16 A, 1 p, C	2 MCB's 16 A, 3 p, C
			3 MCB's 16 A, 1 p, C
Connection	Connection	Connection	Connection
2 m H07RN-F5G6 with CEE-plug 32 A, 5 p, 400 V	2 m H07RN-F5G10 with CEE-plug 63 A, 5 p, 400 V	2 m H07RN-F5G10 with CEE-plug 63 A, 5 p, 400 V	2 m H07RN-F5G25 with CEE-plug 125 A, 5 p, 400 V
Connection and load values	Connection and load values	Connection and load values	Connection and load values
InA 32 A	InA 63 A	InA 63 A	InA 125 A
RDF 1	RDF 0.75	RDF 0.6	RDF 0.35
Enclosure size	Enclosure size	Enclosure size	Enclosure size
560 x 350 x 340 mm (H x W x D)	560 x 350 x 340 mm (H x W x D)	560 x 350 x 340 mm (H x W x D)	560 x 350 x 340 mm (H x W x D)
Protection type	Protection type	Protection type	Protection type
IP 44	IP 44	IP 44	IP 44
Part no.	Part no.	Part no.	Part no.
9500722	9500706	9500748	9500417



Stainless steel surface mounted and flush mounted combination units.

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



CombiTOWER Outdoors and indoors.

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



Power posts Rugged. Vandalism-proof.

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

Combination units – Stainless steel

Stainless steel enclosure (material 1.4301). Surface with a flat finish (K240), material 1.4571 on request. Protection type IP 44 (combination unit for wall fixing) or IP 43 (flush mounted combination unit) with closed door. For drawings and dimensions see page 114.



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Combination units – Steel

Power posts from steel tube. Sockets IP 44 or IP 67 can be fitted. For drawings and dimensions see page 114 -115.





Title

Power post

Fitted with

1 CEE socket 16 A, 5 p, 400 V 2 sockets British standard 13 A, 2 p+E, 230 V

Fusing:

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

4

Enclosure: Wall thickness 4.0 mm, hot-dip galvanised, powder coated, colour: red, hinged supply aperture with safety lock, weight: approx. 45 kg Aperture at bottom: (H × W) 50 × 40 mm. Fixing flange: Ø 360 mm with 4 fixing holes 15.0 mm. For fixing to an existing fundament.

Cable entry: 2 x M 25 open at the top

Connection:

for 1 cable up to $5 \times 6 \text{ mm}^2$

Connection and load values: Pre-fuse max. 63 A InA 22 A

RDF 0.7

1050 x 220 mm (H x Ø, inside)

Part no.

6308078

Power post

Fitted with

1 CEE socket 32 A, 5 p, 400 V 1 CEE socket 16 A, 5 p, 400 V 2 sockets British standard 13 A, 2 p+E, 230 V

Fusing:

1 RCD 40 A, 4 p, 0.03 A 1 MCB 32 A, 3 p, C 1 MCB 16 A, 3 p, C 2 MCB's 16 A, 1 p, B

Enclosure:

Wall thickness 4.5 mm, electro galvanised, yellow chromated and powder coated, colour: anthracite (RAL 7016), hinged supply aperture with safety lock, weight: approx. 60 kg Aperture at bottom: (H \times W) 60 \times 70 mm. Fixing flange: Ø 390 mm with 4 fixing holes 15.5 mm. For fixing to an existing fundament.

Cable entry:

 $2 \times M$ 32 open at the top, $1 \times M$ 32 pluged at the top

Connection: for 1 cable up to $5 \times 10 \text{ mm}^2$

Connection and load values: Pre-fuse max. 40 A InA 40 A RDF 0.75

Enclosure size 1050 x 273 mm (H x Ø, inside)

Part no.

Combination units - Stainless steel

CombiTOWER from stainless steel (material 1.4301), material 1.4571 on request. For drawings and dimensions see page 114 -115.





Title

CombiTOWER

Fitted with

with removable cover, painted signal yellow (RAL 1003) or bright finish.

Part no.

for AMAXX® enclosures 260 x 225 mm, 390 x 225 mm and 520 x 225 mm

* Part no. for AMAXX® enclosures 650 x 225 mm

itle

CombiTOWER

with lockable door and removable cover, painted signal yellow (RAL 1003) or bright finish

Part no.

for AMAXX® enclosures 260 x 225 mm, 390 x 225 mm and 520 x 225 mm

* Part no.

for AMAXX® enclosures 650 x 225 mm

Enclosure siz

1043 x 254.5 x 250 mm (H x W x D)

15679 / * 15739 yellow **15678 / * 15738** bright finish

nclosure siz

1043 x 254 x 415 mm (H x W x D) Part no. 15681 / * 15741 yellow 15680 / * 15740 bright finish

SCHUKO® Plugs and sockets for harsh conditions.

SCHUKO[®] by MENNEKES with the hammer symbol.

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

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

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

With the hinged lid closed, they satisfy the requirements for the IP 54 degree of protection in every position.

Even with the compatible IP 44 plug, plugged-in, the IP 44 protection rating is ensured regardless of the operating position





Product advantages:

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



SCHUKO[®]. Pressure watertight.

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





Special plugs and sockets – SCHUKO[®] and grounding-type

SCHUKO® to DIN 49440-1, 2 p+E, 230 V. Other versions available on request. For drawings and dimensions see page 102 - 110.

	Panel mounted socket SCHUKO® with hinged lid, 3 plug-in terminals	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
COL	or 3 screw terminals as connecting	grey	16	230		11010	11030
	terminals for 1.5 - 2.5 mm ²	blue	16	230		11011	11031
		black	16	230		11012	11032
		red	16	230		11013	11033
	IP 54	grey	16	230	\checkmark	11060	
	Std. Pack. Qty: 100/20	blue	16	230	\checkmark	11061	11081
	Drawing: 1 MB 410						
	Panel mounted socket SCHUKO® with front gasket	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
5	with hinged lid, 3 plug-in terminals	grey	16	230		11310	11330
	or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm ²	blue	16	230		11311	11331
		black	16	230		11312	11332
		red	16	230		11313	11333
	IP 54	100		200		11010	11000
	Std. Pack. Qty: 100						
	Drawing: 1 MB 586						
	Panel mounted socket SCHI IKO®		-				
	without hinged lid, 3 plug-in	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
	connecting terminals for 1.5 - 2.5	blue	16	230		11511	11531
	mm ²	black	16	230		11512	11532
600		blue	16	230	\checkmark	11561	11581
	IP 20 Std. Pack. Qty: 100 Drawing: 1 MB 450						
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm ² sockets can be linked in a row	Colour grey	Ampere 16	Voltage 230	with shutter	plug-in terminals 10081	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm ² , sockets can be linked in a row vertically. Slide on top, slot on bottom	Colour grey blue	Ampere 16 16	Voltage 230 230	with shutter	plug-in terminals 10081 10082	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm ² , sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure	Colour grey blue black	Ampere 16 16 16	Voltage 230 230 230	with shutter	plug-in terminals 10081 10082 10083	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm ² , sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure	Colour grey blue black	Ampere 16 16 16	Voltage 230 230 230	with shutter	plug-in terminals 10081 10082 10083	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm ² , sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure	Colour grey blue black	Ampere 16 16 16	Voltage 230 230 230	with shutter	plug-in terminals 10081 10082 10083	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm ² , sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MP 27/20	Colour grey blue black	Ampere 16 16 16	Voltage 230 230 230	with shutter	plug-in terminals 10081 10082 10083	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm ² , sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30	Colour grey blue black	Ampere 16 16 16	Voltage 230 230 230	with shutter	plug-in terminals 10081 10082 10083	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm ² , sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type	Colour grey blue black	Ampere 16 16 16	Voltage 230 230 230	with shutter	plug-in terminals 10081 10082 10083	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with	Colour grey blue black Colour blue	Ampere 16 16 16 16 Mmpere 16	Voltage 230 230 230 Voltage 230	with shutter with shutter ✓	plug-in terminals 10081 10082 10083 10083 <u>plug-in</u> terminals 10092	Screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting to proving le for 1.5 - 2.5	Colour grey blue black black	Ampere 16 16 16 16 16 16 16 16 16 16 16 16 16	Voltage 230 230 230 Voltage 230	with shutter with shutter ✓	plug-in terminals 10081 10082 10083 10083 <u>plug-in</u> terminals 10092	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row	Colour grey blue black black	Ampere 16 16 16 16 16 16 16 16 16 16 16 16 16	Voltage 230 230 230 Voltage 230	with shutter	plug-in terminals 10081 10082 10083 10083 <u>plug-in</u> terminals 10092	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom	Colour grey blue black Colour blue	Ampere 16 16 16 16 16 16 16 16 16 16 16 16 16	Voltage 230 230 230 Voltage 230	with shutter with shutter ✓	plug-in terminals 10081 10082 10083 10083 terminals 10092	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44	Colour grey blue black Colour blue	Ampere 16 16 16 16 16 16 16 16 16 16	Voltage 230 230 230 Voltage 230	with shutter with shutter ✓	plug-in terminals 10081 10082 10083 10083 toospective terminals 10092	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10	Colour grey blue black Colour blue	Ampere 16 16 16 16 16 16 16	Voltage 230 230 230 Voltage 230	with shutter	plug-in terminals 10081 10082 10083 blug-in terminals 10092	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30	Colour grey blue black Colour blue	Ampere 16 16 16 16 16 16 16 16	Voltage 230 230 230 230 230 230	with shutter	plug-in terminals 10081 10082 10083 10083 10083 10092	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30	Colour grey blue black Colour blue	Ampere 16 16 16 16 16	Voltage 230 230 Voltage 230	with shutter	plug-in terminals 10081 10082 10083 10083 10092	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 m², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30	Colour grey blue black Colour blue	Ampere 16 16 16 16 16 16 16 16 16 16 16 16 16	Voltage 230 230 Voltage 230	with shutter	plug-in terminals 10081 10082 10083 10083 10083 10092	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Panel mounted socket grounding-type French/Belgian system (NF), with biagod lid 2 plug-in terminals as	Colour grey blue black black blue blue blue	Ampere 16 16 16 16 16 16 16 16 16 16 16 16 16	Voltage 230 230 230 230 230 Voltage 230 Voltage 230 Voltage 230 230	with shutter	plug-in terminals 10081 10082 10083 10083 10083 10083 10092 10092 plug-in terminals 10092 plug-in terminals 11110	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Panel mounted socket grounding-type French/Belgian system (NF), with hinged lid, 3 plug-in terminals or 3 screw terminals as connecting	Colour blue black black blue blue blue blue	Ampere 16	Voltage 230 230 230 230 230 Voltage 230 Voltage 230 230 230 Voltage 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230	with shutter	plug-in terminals 10081 10082 10083 10083 10092 10092 10092 10092 11110 11111	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Panel mounted socket grounding-type French/Belgian system (NF), with hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm²	Colour grey blue black Colour blue blue grey blue grey	Ampere 16 16 16 16 16 16 16 16 16 16 16 16 16	Voltage 230	with shutter	plug-in terminals 10081 10082 10083 10083 10083 10083 10083 10083 10083 10083 10083 10083 10092 10092 10092 10092 10092 10092 10092 10092 10092	screw terminals
	 Wall mounted socket SCHUKO[®] with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Panel mounted socket grounding-type French/Belgian system (NF), with hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm² 	Colour grey blue black Colour blue blue colour grey blue grey blue blue	Ampere 16 16 16 16 16 16 16 16 16 16 16 16 16	Voltage 230 230 230 230 230 Voltage 230 Voltage 230 Voltage 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230	with shutter	plug-in terminals 10081 10082 10083 10083 10083 10083 10083 10092 10092 10092 10092 110092 1110 11110 11110 11160 11161	screw terminals
	Wall mounted socket SCHUKO® with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Wall mounted socket grounding-type French/Belgian system (NF) with hinged lid, 3 plug-in terminals as connecting terminals for 1.5 - 2.5 mm², sockets can be linked in a row vertically. Slide on top, slot on bottom of enclosure IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30 Panel mounted socket grounding-type French/Belgian system (NF), with hinged lid, 3 plug-in terminals or 3 screw terminals as connecting terminals for 1.5 - 2.5 mm² IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 27/30	Colour grey blue black black blue blue grey blue grey blue grey blue blue	Ampere 16 16 16 16 16 16 16 16 16 16 16 16 16	Voltage 230 230 230 230 230 Voltage 230 Voltage 230 Voltage 230 230 Voltage 230 Voltage 230 230 230 230 230 230 230 230 230 230 230 230 230 230	with shutter	plug-in terminals 10081 10082 10083 10083 10083 10083 10092 10092 10092 10092 110092 11110 11110 11161 11162	screw terminals

Special plugs and sockets - SCHUKO® and grounding-type

SCHUKO® to DIN 49440-1, 2 p+E, 230 V. Other versions available on request. For drawings and dimensions see page 102 - 110.

	Panel mounted socket	Colour	Ampere	Voltage	with	plug-in	screw
	grounding-type				shutter	terminals	terminals
	French/Belgian system (NF), without	blue	16	230	\checkmark	11611	
	hinged lid, 3 plug-in terminals or	blue	16	230		11661	11681
	3 screw terminals as connecting	5.00	10	200		11001	11001
	IP 20						
	Std. Pack. Qty: 100/20						
	Drawing: 1 MB 450						
	Panel mounted socket	Colour	Ampere	Voltage	with	plug-in	screw
	grounding-type	Colour	Ampere	voltage	shutter	terminals	terminals
	British standard, with hinged lid and	blue	13	230	\checkmark		10718
	seal; flange 50 x 50 mm, fixing holes						
	38 x 38 mm						
the second se							
	Std. Pack. Qtv: 20						
	Drawing: 1 MB 584						
	J						
	Panel mounted socket	Colour	A	Valter			
	aroundina-type	Colour	Ampere	voltage	with	plug-in terminals	terminals
	British standard, matching cover	black	13	230	1		10713
11	frame, with hinged lid and seal	DIGCK	15	230	•		10715
	-						
2							
	Std. Pack. Qty: 20 Drawing: 1 MR 422						
	Panal mounted socket NEMA						
	Panel mounted socket NEMA	Colour	Ampere	Voltage	with	plug-in	screw
	Panel mounted socket NEMA USA and Canada, with hinged lid	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
	Panel mounted socket NEMA USA and Canada, with hinged lid	Colour blu	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid	Colour blu	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid	Colour blu	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid	Colour blu	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid	Colour blu	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid	Colour blu	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid	Colour blu	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421	Colour blu	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421	Colour blu	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO®	Colour blu Colour	Ampere 15	Voltage 125	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian	Colour blu Colour	Ampere 15	Voltage 125 Ampere	with shutter	plug-in terminals Part	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet for cables	Colour blu Colour grey	Ampere 15	Voltage 125 Ampere 16	with shutter	plug-in terminals	screw terminals 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F	Colour blu Colour grey black	Ampere 15	Voltage 125 Ampere 16 16	vith shutter	plug-in terminals Part	screw terminals 10087 10087
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F	Colour blu Colour grey black orange	Ampere 15	Voltage 125 Ampere 16 16 16 16	with shutter Voltage 230 230 230 230	plug-in terminals Part	screw terminals 10087 10087 stans 10087 tons 10749 10754 10837
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F	Colour blu Colour grey black orange blue	Ampere 15	Voltage 125 Ampere 16 16 16 16 16	with shutter 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230	plug-in terminals Part	screw terminals 10087 10087 at no. 10749 10754 10837 10838
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F	Colour blu Colour grey black orange blue red	Ampere 15	Voltage 125 Ampere 16 16 16 16 16 16	with shutter Voltage 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10749 10754 10837 10838 10839
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F	Colour blu Colour grey black orange blue red yellow	Ampere 15	Voltage 125 4 16 16 16 16 16 16 16 16 16	with shutter 230	plug-in terminals Part	screw terminals 10087 10087 sno. 10749 10754 10837 10838 10839 10840
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F IP 44 Std. Pack. Qty: 20	Colour blu Colour grey black orange blue red yellow green	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16	with shutter Voltage 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10087 10754 10837 10838 10839 10840 10841
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F IP 44 Std. Pack. Qty: 20	Colour blu Colour grey black orange blue red yellow green	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16	with shutter 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10749 10754 10837 10838 10839 10840 10841
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F IP 44 Std. Pack. Qty: 20	Colour blu Colour grey black orange blue red yellow green	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16	with shutter 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10749 10754 10837 10838 10839 10840 10841
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm² up to H07RN-F IP 44 Std. Pack. Qty: 20	Colour blu Colour grey black orange blue red yellow green	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16 16 16	with shutter 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10749 10754 10837 10838 10839 10840 10841
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F IP 44 Std. Pack. Qty: 20	Colour blu Colour grey black orange blue red yellow green	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16 16 16	with shutter Voltage 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10087 10749 10754 10837 10838 10839 10840 10841
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F IP 44 Std. Pack. Qty: 20	Colour blu Colour grey black orange blue red yellow green	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16 16 16	with shutter 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10087 10754 10837 10838 10839 10840 10841 10841
	Panel mounted socket NEMA USA and Canada, with hinged lid IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm² up to H07RN-F IP 44 Std. Pack. Qty: 20 Connector SCHUKO® with grommet and lid for cables up to 3 x 2.5 mm² up to H07RN-F	Colour blu Colour grey black orange blue red yellow green Colour grey black	Ampere 15	Voltage 125 125 125 125 125 125 125 125 125 125	with shutter 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10087 10087 10754 10837 10838 10839 10840 10841 10841
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm² up to H07RN-F IP 44 Std. Pack. Qty: 20	Colour blu Colour grey black orange blue red yellow green Colour grey black orange	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16 16 16	with shutter 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10087 10087 10754 10837 10838 10839 10840 10841 10841
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F IP 44 Std. Pack. Qty: 20	Colour blu Colour grey black orange blue red yellow green green grey black orange	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16 16 16	with shutter 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10087 10087 10087 10087 10087 10749 10754 10838 10838 10838 10838 10838 10841 tos 10751 10842 10843
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm² up to H07RN-F IP 44 Std. Pack. Qty: 20	Colour blu Colour grey black orange blue red yellow green green grey black orange blue	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16 16 16	with shutter Voltage 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10087 10087 10087 10087 10087 10749 10754 10838 10838 10838 10838 10841 10841 10755 10842 10843 10843
	IP 44 Std. Pack. Qty: 20 Drawing: 1 MB 421 Plug SCHUKO® with combined PE-conductor acc. to German and French/Belgian standards, with grommet, for cables up to 3 x 2.5 mm ² up to H07RN-F IP 44 Std. Pack. Qty: 20 Connector SCHUKO® with grommet and lid for cables up to 3 x 2.5 mm ² up to H07RN-F	Colour blu Colour grey black orange blue red yellow green green grey black orange blue	Ampere 15	Voltage 125 125 16 16 16 16 16 16 16 16 16 16 16 16 16	with shutter Voltage 230	plug-in terminals Part	screw terminals 10087 10087 10087 10087 10087 10087 10087 10087 10087 10087 10087 10749 10754 10838 10841 10841 10755 10842 10843 10843

Special plugs and sockets - SCHUKO® and grounding-type

to DIN 49442/43 and DIN VDE 0620. Other versions available on request. For drawings and dimensions see page 102 - 110.

Wall mounted socket SCHUKO®	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
with hinged bayonet lock lid IP 68 Std. Pack. Qty: 10	blue / grey	16	230			10863
Drawing: 1 MB 347						
Panel mounted socket SCHUKO® or NF	Colour	Ampere	Voltage	with shutter	plug-in terminals	screw terminals
with hinged bayonet lock lid,	blue / grey	16	230		17002	17006
or two stamped recesses for quick	blue / grey	16	230	\checkmark		17014
perforation IP 68 Std. Pack. Qty: 10 Drawing: 1 MB 627						
Plug SCHUKO®	Colour		Ampere	Voltage	plug-in terminals	screw terminals
to German and French/Belgian	blue / grey	/	16	230		10828
standards, with bayonet ring, with protective cap attached by a strap, for cables up to 3 x 2.5 mm ² , up to H07RN-F IP 68 Std. Pack. Qty: 10						
Connector SCHUKO® with bayonet lock lid attached by a	Colour		Ampere	Voltage	plug-in terminals	screw terminals
strap, for cables up to 3 x 2.5 mm², up to H07RN-F	blue / grey	/	16	230		10833
IP 68 Std Pack Otv: 10						





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

This number of poles provides solutions in the following fields:

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

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

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



Special plugs and sockets - 7 pole

to DIN VDE 0623-1, EN 60309-1. Colour: electric grey and/or colour code. S Highly resistant to chemicals. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Wall may interal an elect				
	with highly heat registant contact	A P	230 V	400 V	500 V
	carrier, nickel plated contacts.	16.7	722	724	1025
	internal fixing, enclosure base can	10 7	733	734	1035
6	be turned 180°	32 /	/	/36	1040
	IP 44				
	Std. Pack. Qty: 10				
	Drawing: 1 MB 43/257				
Ð	Wall mounted socket	A P	230 V	400 V	500 V
Constanting of the second	highly resistant to chemicals, highly heat resistant contact carrier nickel	16.7	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz
Permin	plated contacts, 2 external fixings,	167	9530	9531	9532
0	enclosure can be turned 180°	32 7	9590	9591	9592
	-				
	IP 67				
	Std. Pack. Qty: 10				
	Drawing: 1 MB 622				
	Wall mounted socket	A P	230 V	400 V	500 V
	switched, mechanical DUO-interlock,		50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz
S	nickel plated contacts, 6 pole switch	with 6 po	le switch:		
57)	with 2 auxiliary contacts (1 NO and	16 7		7306	
	1 NC), sockets can be padlocked	32 7		7307	
	ID 67				
a de la dela dela dela dela dela dela de	Std. Pack. Qtv: 1				
	Drawing: 1 MB 382				
L					
	Panel mounted socket	A P	230 V	400 V	500 V
	Panel mounted socket highly heat resistant contact carrier,	A P	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P 16 7	230 V 50 a. 60 Hz 737	400 V 50 a. 60 Hz 738	500 V 50 a. 60 Hz 1045
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P 16 7 32 7	230 V 50 a. 60 Hz 737 739	400 V 50 a. 60 Hz 738 740	500 V 50 a. 60 Hz 1045 1050
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P16 732 7	230 V 50 a. 60 Hz 737 739	400 V 50 a. 60 Hz 738 740	500 ∨ 50 a. 60 Hz 1045 1050
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	 A P 16 7 32 7 	230 V 50 a. 60 Hz 737 739	400 V 50 a. 60 Hz 738 740	500 V 50 a. 60 Hz 1045 1050
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	 A P 16 7 32 7 	230 V 50 a. 60 Hz 737 739	400 ∨ 50 a. 60 Hz 738 740	500 ∨ 50 a. 60 Hz 1045 1050
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P 16 7 32 7	230 V 50 a. 60 Hz 737 739	400 ∨ 50 a. 60 Hz 738 740	500 ∨ 50 a. 60 Hz 1045 1050
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260	A P 16 7 32 7	230 V 50 a. 60 Hz 737 739	400 V 50 a. 60 Hz 738 740	500 V 50 a. 60 Hz 1045 1050
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260	A P 16 7 32 7	230 V 50 a. 60 Hz 737 739	400 V 50 a. 60 Hz 738 740	500 V 50 a. 60 Hz 1045 1050
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier	 A P 16 7 32 7 	230 V 50 a. 60 Hz 737 739 230 V	400 V 50 a. 60 Hz 738 740	500 V 50 a. 60 Hz 1045 1050
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts.	 A P 16 7 32 7 	230 V 50 a. 60 Hz 737 739 739 230 V 50 a. 60 Hz	400 V 50 a. 60 Hz 738 740 740 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz 1045 1050 1050 50 a. 60 Hz
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P 16 7 32 7 M P A P 16 7	230 V 50 a. 60 Hz 737 739 739 230 V 50 a. 60 Hz 2883	400 V 50 a. 60 Hz 738 740 400 V 50 a. 60 Hz 2459	500 V 50 a. 60 Hz 1045 1050 1050 500 V 50 a. 60 Hz 2296
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P 16 7 32 7 34 7 16 7 16 7 16 7 16 7 16 7 16 7	230 V 50 a. 60 Hz 737 739 739 230 V 50 a. 60 Hz 2883 3775	400 V 50 a. 60 Hz 738 740 400 V 50 a. 60 Hz 2459 2317	50 a. 60 Hz 1045 1050 1050 50 a. 60 Hz 50 a. 60 Hz 2296 2212
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P 16 7 32 7 4 P 16 7 32 7	230 V 50 a. 60 Hz 737 739 739 230 V 50 a. 60 Hz 2883 3775	400 V 50 a. 60 H₂ 738 740 400 V 50 a. 60 H₂ 2459 2317	500 V 50 a. 60 Hz 1045 1050 1050 500 V 50 a. 60 Hz 2296 2212
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P 16 7 32 7 4 P 16 7 32 7 16 7 32 7	230 V 50 a, 60 Hz 737 739 739 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	400 V 50 a. 60 H₂ 738 740 400 V 50 a. 60 H₂ 2459 2317	500 V 50 a. 60 Hz 1045 1050 1050 500 V 50 a. 60 Hz 2296 2212
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P 16 7 32 7 34 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7	230 V 50 a. 60 Hz 737 739 739 230 V 50 a. 60 Hz 2883 3775	400 V 50 a. 60 H₂ 738 740 400 V 50 a. 60 H₂ 2459 2317	500 V 50 a. 60 Hz 1045 1050 500 V 50 a. 60 Hz 2296 2212
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10	A P 16 7 32 7 34 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7	230 V 50 a. 60 Hz 737 739 739 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	400 V 50 a. 60 H2 738 740 400 V 50 a. 60 H2 2459 2317	500 V 50 a. 60 Hz 1045 1050 1050 50 a. 60 Hz 2296 2212
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 251	A P 16 7 32 7 4 P 16 7 32 7 32 7	230 V 50 a. 60 Hz 737 739 50 a. 60 Hz 2883 3775	400 V 50 a. 60 H2 738 740 400 V 50 a. 60 H2 2459 2317	500 V 50 a. 60 Hz 1045 1050 500 V 50 a. 60 Hz 2296 2212
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 251	A P 16 7 32 7 34 P 16 7 32 7 16 7 32 7 34 P 16 7 32 7	230 V 50 a. 60 Hz 737 739 50 a. 60 Hz 2883 3775	400 V 50 a. 60 H2 738 740 400 V 50 a. 60 H2 2459 2317	500 V 50 a. 60 Hz 1045 1050 500 V 50 a. 60 Hz 2296 2212
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 251	A P 16 7 32 7 32 7 16 7 32 7 16 7 32 7 32 7 32 7 32 7 32 7 32 7 32 7	230 V 50 a. 60 Hz 737 739 739 50 a. 60 Hz 2883 3775	400 V 50 a. 60 H2 738 740 400 V 50 a. 60 H2 2459 2317 2317	500 V 50 a. 60 Hz 1045 1050 500 V 50 a. 60 Hz 2296 2212 2212
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 251 Plug AM-TOP highly heat resistant contact carrier, nickel plated contacts, 20° inclination	A P 16 7 32 7 32 7 16 7 32 7 16 7 32 7 16 7 32 7 16 7 16 7 16 7 17 1 18 P 19 1 10 7	230 V 50 a. 60 Hz 737 739 230 V 50 a. 60 Hz 2883 3775 2883 3775 2883 400 Hz 2883 2883 2883 3775	400 V 50 а. 60 H2 738 740 400 V 50 а. 60 H2 2459 2317 2317 400 V 50 а. 60 H2	500 V 50 a. 60 Hz 1045 1050 50 a. 60 Hz 2296 2212 2212 50 a. 60 Hz
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 251 Plug AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain	A P 16 7 32 7 32 7 4 P 16 7 32 7 32 7 32 7 32 7 32 7 32 7 32 7 32 7 32 7 32 7 32 7 32 7 33 7 34 8 16 7 16 7	230 V 50 a. 60 Hz 737 739 230 V 50 a. 60 Hz 2883 3775 2883 3775 4 2883 2883 3775 4 2883 7 2883 7 7 200 200	400 V 50 а. 60 H2 738 740 740 2459 2317 2317 2317 400 V 50 а. 60 H2 742	500 V 50 a. 60 Hz 1045 1050 500 V 50 a. 60 Hz 2296 2212 2212 2212
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 251 Plug AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A P 16 7 32 7 32 7 A P 16 7 32 7 32 7 16 7 32 7 16 7 16 7 16 7 16 7 16 7 16 7 32 7	230 V 50 a. 60 Hz 737 739 739 739 739 739 739 739 739 2833 3775 2883 3775 741 741 743	400 V 50 a. 60 H2 738 740 400 V 50 a. 60 H2 2459 2317 2317 400 V 50 a. 60 H2 742 742 744	500 V 50 a. 60 Hz 1045 1050 50 a. 60 Hz 2296 2212 2212 2212 1055 1055 1055
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 251 Plug AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A P 16 7 32 7 34 P 16 7 32 7 32 7 32 7 34 P 16 7 32 7 32 7 32 7 32 7 32 7 32 7 32 7	230 V 50 a. 60 Hz 737 739 230 V 50 a. 60 Hz 2883 3775 3775	400 V 50 a. 60 H2 738 740 400 V 50 a. 60 H2 2459 2317 2317 400 V 50 a. 60 H2 742 742 744	500 V 50 a. 60 Hz 1045 1050 50 a. 60 Hz 2296 2212 2212 2212 1055 1060
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 251 Plug AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A P 16 7 32 7 32 7 16 7 32 7 32 7 32 7 16 7 32 7 16 7 16 7 32 7 16 7 32 7 16 7 32 7 16 7 32 7	230 V 50 a. 60 Hz 737 739 230 V 50 a. 60 Hz 2883 3775 2883 3775 2883 4 2883 3775 3775 2883 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2885 2883 3775 2885 2	400 V 50 a. 60 H2 738 740 400 V 50 a. 60 H2 2459 2317 8 2317 8 2317 1 1 1 1 1 1 1 1 1 1 1 1 1	500 V 50 a. 60 Hz 1045 1050 50 a. 60 Hz 2296 2212 2212 50 a. 60 Hz 1055 1060
	Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 260 Panel mounted socket highly heat resistant contact carrier, nickel plated contacts, 20° inclination IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 251 Plug AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A P 16 7 32 7 32 7 16 7 32 7 32 7 32 7 16 7 32 7 16 7 32 7 16 7 32 7 16 7 32 7 16 7 32 7	230 V 50 a. 60 Hz 737 739 200 230 V 50 a. 60 Hz 2883 3775 2883 3775 2883 4 2883 3775 2883 2883 3775 2883 2883 3775 2883 2883 3775 2883 2883 3775 2883 2883 3775 2883 2883 3775 2883 2883 3775 2883 2883 3775 2883 2883 3775 2883 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 2883 3775 3775 2883 3775 2885 285 2	400 V 50 a. 60 H2 738 740 400 V 50 a. 60 H2 2459 2317 2317 400 V 50 a. 60 H2 742 744	500 V 50 a. 60 Hz 1045 1050 500 V 50 a. 60 Hz 2296 2212 2212 50 a. 60 Hz 1055 1060

Special plugs and sockets - 7 pole

to DIN VDE 0623-1, EN 60309-1. Colour: electric grey and/or colour code. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Plug AM-TOP	Δ	D	110 V	230 V	400 V	500 V	>50 -	500 V
	highly heat resistant contact carrier,			50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	50 a. 60 Hz	100-300 Hz	300-500 Hz
	nickel plated contacts, single part	16	7		37	3777	3913		
	body, cable gland and sealing, strain	22	7		2405	2224	2212		
	relief and protection against kinking	32	/		2405	2324	2215		
	ID 67								
	Std Pack Oty: 10								
	Sta. Fuex. Gty. To								
	Wall mounted inlet		_		000.14	100.14			
	highly heat resistant contact carrier	A	Р	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	nickel plated contacts	16	7			2166			
		10	,			2100			
		32	7			2167			
	10.4.4								
Contraction of the local division of the loc	IP 44 Std. Dock, Otv: 10								
	Drawing: 2 MB 147								
_									
	Panel mounted inlet								
	highly heat resistant contact carrier	Α	Ρ	110 V	230 V	400 V	50 a 60 Hz	> 50 -	500 V 300-500 Hz
	nickel plated contacts	16	7	30 0. 00 112	740	750	1075	100 300 112	300 300 112
		10	/		749	/50	1075		
		32	7		751	752	1080		
	IP 44								
and the second second	Std. Pack. Qty: 10 Drawing: 2 MP 71								
	Drawing. 2 MB 7 I		_						
	Panel mounted inlet	_	_						
•	Panel mounted inlet	Α	Ρ	110 V	230 V	400 V	500 V	> 50 -	500 V
	Panel mounted inlet highly heat resistant contact carrier nickel plated contacts with	A	P	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	500 V 50 a. 60 Hz	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap	A 16	P 7	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779	400 V 50 a. 60 Hz 3914	500 V 50 a. 60 Hz 3780	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap	A 16 32	P 7 7	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781	400 V 50 a. 60 Hz 3914 3915	500 V 50 a. 60 Hz 3780 3782	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap	A 16 32	P 7 7	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781	400 V 50 a. 60 Hz 3914 3915	500 V 50 a. 60 Hz 3780 3782	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap	A 16 32	P 7 7	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781	400 V 50 a. 60 Hz 3914 3915	500 V 50 a. 60 Hz 3780 3782	>50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap	A 16 32	P 7 7	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781	400 V 50 a. 60 Hz 3914 3915	500 V 50 a. 60 Hz 3780 3782	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap	A 16 32	P 7 7	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781	400 V 50 a. 60 Hz 3914 3915	500 V 50 a. 60 Hz 3780 3782	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap	A 16 32	P 7 7	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781	400 V 50 a. 60 Hz 3914 3915	500 V 50 a. 60 Hz 3780 3782	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203	A 16 32	P 7	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781	400 V 50 a. 60 Hz 3914 3915	500 V 50 a. 60 Hz 3780 3782	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203	A 16 32	P 7	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781	400 V 50 a. 60 Hz 3914 3915	500 V 50 a. 60 Hz 3780 3782	> 50 - 100-300 Hz	500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP	A 16 32	P 77	110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781	400 V 50 a. 60 Hz 3914 3915	500 V 50 a. 60 Hz 3780 3782	>50 - 100-300 Hz	500 V 300-500 Hz 500 V
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier nickel plated contacts single	A 16 32	P 7 7 P	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 3781 50 a. 60 Hz	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing.	A 16 32 A 16	P 7 7 P 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 3781 <u>230 V</u> 50 a. 60 Hz 745	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against	A 16 32 A 16 32	P 7 7 P 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 3781 <u>230 V</u> 50 a. 60 Hz 745 747	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A 16 32 A 16 32	P 7 7 7 P 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 3781 <u>230 V</u> 50 a. 60 Hz 745 747	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A 16 32 A 16 32	P 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 3781 50 a. 60 Hz 745 747	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A 16 32 A 16 32	P 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 3781 50 a. 60 Hz 745 747	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44	A 16 32 A 16 32	P 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 3781 50 a. 60 Hz 745 747	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	> 50 - 100-300 Hz > 50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10	A 16 32 A 16 32	P 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 3781 50 a. 60 Hz 745 747	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10	A 16 32 A 16 32	P 7 7 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10	A 16 32 A 16 32	P 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10 Connector AM-TOP highly heat resistant contact carrier	A 16 32 A 16 32	P 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747 747	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748 748	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	>50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 1 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10 Connector AM-TOP highly heat resistant contact carrier, pickel plated contacts, single part	A 16 32 A 16 32 32 A	P 7 7 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747 747 747 50 a. 60 Hz	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748 748 400 V 50 a. 60 Hz	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1	>50 - 100-300 Hz >50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10 Connector AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing,	 A 16 32 A 16 32 	P 7 7 7 7 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz 110 V 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747 747 747 50 a. 60 Hz 50 a. 60 Hz 3783	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748 748 400 V 50 a. 60 Hz 50 a. 60 Hz 3916	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1 1065 500 V 50 a. 60 Hz 3784	>50 - 100-300 Hz >50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz 500 V
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10 Connector AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A 16 32 A 16 32 A 16 32	P 7 7 7 7 7 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747 747 747 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748 748 748 400 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1 500 V 50 a. 60 Hz 3784 2460	>50 - 100-300 Hz >50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10 Connector AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	 A 16 32 A 16 32 A 16 32 	P 7 7 7 7 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747 747 747 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748 748 400 V 50 a. 60 Hz 3916 2255	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1 500 V 50 a. 60 Hz 3784 2460	>50 - 100-300 Hz >50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10 Connector AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A 16 32 A 16 32 A 16 32	P 7 7 7 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747 747 747 50 a. 60 Hz 50 a. 60 Hz 3783 2406	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748 748 900 V 50 a. 60 Hz 3916 2255	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1 500 V 50 a. 60 Hz 3784 2460	>50 - 100-300 Hz >50 - 100-300 Hz 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10 Connector AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking	A 16 32 A 16 32 A 16 32	P 7 7 7 7 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747 747 747 50 a. 60 Hz 50 a. 60 Hz 3783 2406	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748 748 400 V 50 a. 60 Hz 3916 2255	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1 500 V 50 a. 60 Hz 3784 2460	>50 - 100-300 Hz >50 - 100-300 Hz >50 - 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz
	Panel mounted inlet highly heat resistant contact carrier, nickel plated contacts, with protective cap IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 203 Connector AM-TOP with highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 44 Std. Pack. Qty: 10 Connector AM-TOP highly heat resistant contact carrier, nickel plated contacts, single part body, cable gland and sealing, strain relief and protection against kinking IP 67 TP 67	A 16 32 A 16 32 A 16 32	P 7 7 7 7 7 7 7 7 7 7	110 V 50 a. 60 Hz 110 V 50 a. 60 Hz 50 a. 60 Hz 50 a. 60 Hz	230 V 50 a. 60 Hz 3779 3781 50 a. 60 Hz 745 747 747 747 50 a. 60 Hz 50 a. 60 Hz 3783 2406	400 V 50 a. 60 Hz 3914 3915 400 V 50 a. 60 Hz 746 748 748 400 V 50 a. 60 Hz 3916 2255	500 V 50 a. 60 Hz 3780 3782 500 V 50 a. 60 Hz 1065 1 1065 1 500 V 50 a. 60 Hz 3784 2460	>50 - 100-300 Hz >50 - 100-300 Hz 100-300 Hz	500 V 300-500 Hz 500 V 300-500 Hz 500 V 300-500 Hz

Special plugs and sockets – For low voltage

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

Low voltages.

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

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

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

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







ll mounted socket	Α	Ρ	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V
	16	2	1825	183		1829
	16	3	1832	1837	1835	
	32	2	1838	1844		1842
4	32		1845	1850	1848	
. Pack. Qty: 10 wing: 1 MB 294						

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

Wall mounted socket

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

Special plugs and sockets - For low voltage

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Panel mounted socket	A P	20 - 25 V	40 - 50 V	20 - 25 V	20 - 25 V
0	nange 55 x 55 mm, straight		50 a. 60 Hz	50 a. 60 Hz	40 - 50 V 100-200 Hz	40 - 50 V
		16 2	603	604		609
32 1		16 3	610	611	612	
		32 2	616	617		622
	IP 44	32 3	623	624	625	
	Std. Pack. Qty: 10					
	Drawing: 1 MB 136					
	Panel mounted socket	AP	20 - 25 V	40 - 50 V	20 - 25 V	20 - 25 V
1 1000	flange 75 x 75 mm, straight				40 - 50 V	40 - 50 V
18 0		46.0	50 a. 60 Hz	50 a. 60 Hz	100-200 Hz	
Cal		16 2	1602	1603	4000	2617A
I was		10 3	1657	2200	1823	24004
		32 2	1693	3290	4570	2488A
	IP 44 Std. Pack. Qty: 10	32	1594	1595	1579	
	Drawing: 1 MB 292					
	Panel mounted socket		20. 25.1/	40 50.14	20. 25.1/	20. 25.1
1 70 0	flange 68 x 62 mm, 20° inclination	АР	20 - 25 V	40 - 50 V	20 - 25 V 40 - 50 V	20 - 25 V 40 - 50 V
			50 a. 60 Hz	50 a. 60 Hz	100-200 Hz	
A		16 2	1270	2855		2841
32						
		16 3	2845	1272	2860	
		16 3 32 2	2845 1271	1272 2864	2860	2869
	IP 44	16 3 32 2 32 3	2845 1271 2870	1272 2864 1273	2860 2852	2869
	IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 231	16 3 32 2 32 3	2845 1271 2870	1272 2864 1273	2860 2852	2869
	IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 231	16 3 32 2 32 3	2845 1271 2870	1272 2864 1273	2860 2852	2869
	IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 231 Panel mounted socket	 16 3 32 2 32 3 	2845 1271 2870 20 - 25 V	1272 2864 1273 40 - 50 V	2860 2852 20 - 25 V	2869 20 - 25 V
	IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 231 Panel mounted socket 20° inclination	16 3 32 2 32 3	2845 1271 2870 20 - 25 V 50 a. 60 Hz	1272 2864 1273 40 - 50 ∨ 50 a. 60 Hz	2860 2852 20 - 25 V 40 - 50 V 100-200 Hz	2869 20 - 25 V 40 - 50 V
	IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 231 Panel mounted socket 20° inclination	16 3 32 2 32 3 A P 32	2845 1271 2870 20 - 25 V 50 a. 60 Hz	1272 2864 1273 40 - 50 V 50 a. 60 Hz	2860 2852 20 - 25 V 40 - 50 V 100-200 Hz 2837	2869 20 - 25 V 40 - 50 V
	IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 231 Panel mounted socket 20° inclination	 16 3 32 2 32 3 	2845 1271 2870 20 - 25 V 50 a. 60 Hz	1272 2864 1273 40 - 50 V 50 a. 60 Hz	2860 2852 20 - 25 V 40 - 50 V 100-200 Hz 2837	2869 20 - 25 V 40 - 50 V
	IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 231 Panel mounted socket 20° inclination	 16 3 32 2 32 3 4 P 32 32 	2845 1271 2870 20 - 25 V 50 a. 60 Hz	1272 2864 1273 40 - 50 V 50 a. 60 Hz	2860 2852 20 - 25 V 40 - 50 V 100-200 Hz 2837	2869 20 - 25 V 40 - 50 V =
	IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 231 Panel mounted socket 20° inclination	 16 3 32 2 32 3 4 P 32 	2845 1271 2870 20 - 25 V 50 a. 60 Hz	1272 2864 1273 40 - 50 V 50 a. 60 Hz	2860 2852 20 - 25 V 40 - 50 V 100-200 Hz 2837	2869 20 - 25 V 40 - 50 V

Special plugs and sockets – For low voltage

to DIN VDE 0623, EN 60309-2. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Plug with cable gland	A F	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V
		16 2	655A	656A		661A
A 334		16 3	662A	663A	664A	
(* r		32 2	668A	669A		674A
0	IP 44 Std. Pack. Qty: 10	32 3	675A	676A	677A	
	Wall mounted inlet	A F	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V
-		16 2	1955	196		1959
1 4		16 3	1962	1967	1965	
		32 2	1968	1974		1972
	IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 160	32 3	1975	1980	1978	
~	Connector with cable gland	A F	20 - 25 V 50 a. 60 Hz	40 - 50 V 50 a. 60 Hz	20 - 25 V 40 - 50 V 100-200 Hz	20 - 25 V 40 - 50 V
		16 2	А	708A		713A
2		16 3	714A	715A	716A	
		32	720A	721A		726A
	IP 44 Std. Pack. Qty: 10	32 3	727A	728A	729A	

200 A - 400 A Heavy duty versions for industry.

The heavy duty range supplements the plugs and sockets currently covered by EN 60309-2, making available rated currents of 200 A, 250 A and 400 A and rated voltages of up to 1000 V.

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



Shock hazard protected using contact covers.

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



Mechanical lock.

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

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

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



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

Surface protection for contacts.

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



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



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

Special plugs and sockets - 200 A up to 400 A

Design based on IEC 309-1, EN 60309-1, DIN VDE 0623 part 1. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Wall mounted socket	Α	Ρ	400 V
	with cable gland, seawater resistant design available on request	200	Δ	50 a. 60 Hz 75221
		200	4	75221
S. A.		200	5	75220
		250	4	75021
	IP 67 Std. Pack. Oty: 1	200	Λ	75026
N	200 A Drawing: 1 MB 385	400	4	75020
	250 + 400 A Drawing: 1 MB 389/1	400	5	/5110
	Wall mounted socket	•	D	400 V
	switched, mechanical interlock,	~	F	50 a. 60 Hz
	seawater resistant design available on request	200	4	75231
ie-		200	5	75236
		250	4	75031
· A	IP 55	250		75121
	Std. Pack. Qty: 1	400		75036
	200 A Drawing. 1 MB 388 250 + 400 A Drawing: 1 MB 403/2	400	5	75126
	Wall mounted socket switched, electrical interlock.	Α	Ρ	400 V 50 a. 60 Hz
	seawater resistant design available	200	4	75271
	on request	200	5	7527
		250	4	75437
		250	5	7544
	Std. Pack. Qty: 1	400	4	75174
	200 A Drawing: 1 MB 387	400	5	7544
	250 + 400 A Drawing. 1 Mb 404/2			
	Panel mounted socket	Δ	Р	400 V
		~		50 - 00 11-
	seawater resistant design available on request	200	4	50 a. 60 Hz 75241
	seawater resistant design available on request	200 200	4	50 a. 60 Hz 75241 75246
	seawater resistant design available on request	200 200 250	4 5 4	50 a. 60 Hz 75241 75246 75041
	seawater resistant design available on request	200 200 250 250	4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131
	seawater resistant design available on request IP 67 Std. Pack. Qtv: 1	200 200 250 250 400	4 5 4 5 4	50 a. 60 Hz 75241 75246 75041 75131 75046
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384	200 200 250 250 400 400	4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513
	seawater resistant design available on request IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1	200 200 250 250 400 400	4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket	200 200 250 250 400 400	4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 400 V
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant deaion a walkble on resusci	200 200 250 250 400 400	4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 400 V 50 a. 60 Hz
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request	200 200 250 250 400 400 400	4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 400 V 50 a. 60 Hz 75053
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request	200 200 250 250 400 400 400	4 5 4 5 4 5 7 8	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 400 V 50 a. 60 Hz 75053 75058
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request	200 200 250 250 400 400 400 200 200 250	4 5 4 5 4 5 7 8 7 8	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 400 V 50 a. 60 Hz 75053 75053 75058 75063
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request	200 250 250 400 400 400 200 200 250 250	4 5 4 5 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 400 V 50 a. 60 Hz 75053 75053 75058 75063 7506
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request	200 200 250 250 400 400 400 200 200 250 250 400	4 5 4 5 4 5 5 4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 75046 7513 400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 75053 75053 75058 75063 7506 75073
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 636 250 + 400 A Drawing: 1 MB 637	200 250 250 400 400 200 200 250 250 400 400	4 5 4 5 4 5 5 4 5 4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 75046 7513 400 V 50 a. 60 Hz 75053 75053 75058 75058 75058 75063 7506 75073 75073
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 636 250 + 400 A Drawing: 1 MB 637 Plug	200 250 250 400 400 400 200 250 250 400 400	4 5 4 5 4 5 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 75053 75058 75058 75063 7506 75073 75073 75078
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 636 250 + 400 A Drawing: 1 MB 637 Plug with cable gland, seawater resistant	200 250 250 400 400 400 200 250 250 250 400 400	4 5 4 5 4 5 7 8 7 8 4 5 4 5 4 5	50 а. 60 Hz 75241 75246 75041 75131 75046 7513 400 V 50 а. 60 Hz 75053 75053 75058 75063 7506 7506 75073 75073 75078
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 636 250 + 400 A Drawing: 1 MB 637 Plug with cable gland, seawater resistant design available on request	200 250 250 400 400 200 250 250 250 400 400 400	4 5 4 5 4 5 7 8 7 8 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 75046 7513 400 V 50 a. 60 Hz 75053 75053 75058 75058 75063 75063 75063 7506 75073 75073 75073 75073 75078 400 V 50 a. 60 Hz
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 636 250 + 400 A Drawing: 1 MB 637 Plug with cable gland, seawater resistant design available on request	200 250 250 400 400 200 200 250 250 400 400 400 A 200 200 200	4 5 4 5 4 5 7 8 7 8 4 5 4 5 4 5 7 8 9 8 4 5 7 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8	50 a. 60 Hz 75241 75246 75041 75131 75046 75046 7513 75046 7513 400 V 50 a. 60 Hz 75053 75058 75058 75058 75063 75063 75063 75073 75073 75073 75073 75078
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 636 250 + 400 A Drawing: 1 MB 637 Plug with cable gland, seawater resistant design available on request	200 250 250 400 400 200 250 250 250 400 400 400 200 200 200 200 250	4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 75046 7513 400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 75053 75058 75058 75063 75063 7506 75073 75078 400 V 50 a. 60 Hz 400 V 50 a. 60 Hz 75073 75078 400 V 50 a. 60 Hz 75078 400 V 50 a. 60 Hz 75001
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 636 250 + 400 A Drawing: 1 MB 637 Plug with cable gland, seawater resistant design available on request	200 250 250 400 400 250 250 250 250 400 400 400 250 250 250 250 250 250	4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 75046 7513 7503 75053 75063 75073 75073 75078 400 V 50 a. 60 Hz 75063 75073 75073 75078 400 V 50 a. 60 Hz 75073 75073 75078 75001 75001 75001
	IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 384 250 + 400 A Drawing: 1 MB 388/1 Panel mounted socket 15° inclination, seawater resistant design available on request IP 67 Std. Pack. Qty: 1 200 A Drawing: 1 MB 636 250 + 400 A Drawing: 1 MB 637 Plug with cable gland, seawater resistant design available on request	200 250 250 400 400 200 250 250 250 400 250 250 250 250 250 250 250 250	4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	50 a. 60 Hz 75241 75246 75041 75131 75046 7513 400 V 50 a. 60 Hz 75053 7506 75073 75078 400 V 50 a. 60 Hz 75073 75073 75078 75001 75201 75203 75001 75091 75006

Special plugs and sockets - 200 A up to 400 A

Design based on IEC 309-1, EN 60309-1, DIN VDE 0623 part 1. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

	Inlet	Α	Ρ	400 V
	with cable gland, seawater resistant	200	4	50 a. 60 Hz
		200	4	75251
		200	5	/5256
321		250	4	7517
No. of the second secon	IP 67	250	5	7517
	Std. Pack. Qty: 1 200 A Drawing: 2 MB 197	400	4	75389
	250 + 400 A Drawing: 2 MB 200/1	400	5	/5398
	Panal mounted inlat	_	_	
	seawater resistant design are	Α	Ρ	400 V 50 a. 60 Hz
	available on request	200	4	75261
		200	5	75266
		250	4	75284
	IP 67	250	5	75287
· · · · · ·	Std. Pack. Qty: 1	400	4	75291
	200 A Drawing: 2 MB 196 250 + 400 A Drawing: 2 MB 199/1	400	5	75295
·*	Panel mounted inlet	Α	Ρ	400 V
	design are available on request	200	4	50 a. 60 Hz 75311
	-	200	5	75316
		250	4	75321
1 - T - P/4		250	5	75326
	IP 67 Std. Pack. Qtv: 1	400	4	75331
	200 A Drawing: 2 MB 247	400	5	7533
	200 A Drawing: 2 MB 247 250 + 400 A Drawing: 2 MB 248	400	5	7533
	200 A Drawing: 2 MB 247 250 + 400 A Drawing: 2 MB 248 Connector	400	5	7533
	200 A Drawing: 2 MB 247 250 + 400 A Drawing: 2 MB 248 Connector with cable gland, seawater resistant	400 A	5 P	7533 400 V 50 a. 60 Hz
	200 A Drawing: 2 MB 247 250 + 400 A Drawing: 2 MB 248 Connector with cable gland, seawater resistant design are available on request	400 A 200	5 P 4	7533 400 V 50 a. 60 Hz 75211
	200 A Drawing: 2 MB 247 250 + 400 A Drawing: 2 MB 248 Connector with cable gland, seawater resistant design are available on request	400 A 200 200	5 P 4 5	7533 400 V 50 a. 60 Hz 75211 75216
	200 A Drawing: 2 MB 247 250 + 400 A Drawing: 2 MB 248 Connector with cable gland, seawater resistant design are available on request	400 A 200 200 250	5 4 5 4	7533 400 V 50 a. 60 Hz 75211 75216 75011
	200 A Drawing: 2 MB 247 250 + 400 A Drawing: 2 MB 248 Connector with cable gland, seawater resistant design are available on request	400 A 200 200 250 250	5 4 5 4 5	7533 400 V 50 a. 60 Hz 75211 75216 75011 75101
	200 A Drawing: 2 MB 247 250 + 400 A Drawing: 2 MB 248 Connector with cable gland, seawater resistant design are available on request	400 A 200 200 250 250 400	5 4 5 4 5 4	7533 400 V 50 a. 60 Hz 75211 75216 75011 75101 75101 75016

Special plugs and sockets – Energy and data

Protection type IP 44.

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



Special plugs and sockets – Energy and data

Colours: grey (RAL 7035), alpine white (RAL 9010), silver (RAL 9006), black (RAL 9005). For drawings and dimensions see page 102 - 110.

	Cepex enclosure. arev	-	-		
	as wall mounted socket, for	Brand	Туре	Data module	Part no.
	installation of RJ45 data port	AMP	Iwist	-	4350 ₁₎
	sockets, 2 keys, identical lock: Part no. + Index "G"	AMP	Jack	2 x 41457	4360
		AMP	CO Plus	-	4370 *
		BTR	E-DAT module	2 x 41455	4340 ₃₎
	5.44	Rutenbeck	iso-8/8 Up0S	1 x 41492	4320
6	IP 44 Std. Pack. Otv: 5	ТКМ	KDMF	1 x 41452	4300 1)
	Drawing: 1 MB 313	Reichle & De-Massari	Module Real 10	2 x 25056	4375 ₂₎
	Cepex enclosure, grey	Brand	Туре	Data module	Part no.
1	as panel mounted socket, for	AMP	Twist	_	4352
	sockets, 2 keys, identical lock:	AMP	Jack	2 x 41457	4362
	Part no. + Index "G"	AMP	CO Plus	-	4372 *
		BTR	F-DAT module	2 x 41455	4342
		Rutenbeck	iso-8/8 UnOS	1 x 41492	4322
	IP 44	TKM	KDMF	1 x 41452	4302
	Std. Pack. Qty: 5	Reichle & De-Massari	Module Real 10	2 x 25056	4377
	Drawing: 1 MB 305				2)
	Cepex enclosure, alpine white				
	as panel mounted socket, for	Brand	Туре	Data module	Part no.
	installation of RJ45 data port	AMP	Twist	-	4354 1)
	sockets, 2 keys, identical lock:	AMP	Jack	2 x 41457	4364
	Fait no. + index G	AMP	CO Plus	-	4374 *
		BTR	E-DAT module	2 x 41455	4344 ₃₎
		Rutenbeck	iso-8/8 Up0S	1 x 41492	4324
6	IP 44	ТКМ	KDMF	1 x 41452	4304 1)
	Drawing: 1 MB 305				
	Cepex enclosure, silver	Brand	Type	Data module	Part no.
	as panel mounted socket, for	Rutenbeck	iso-8/8 Up0S		4326
	sockets, 2 keys, identical lock:	Rutenbeek	130 0/0 0000		1020
	Part no. + Index "G"				
and the second se					
	IP 44				
\odot	Std. Pack. Qty: 5				
	Drawing: 1 MB 305				
	Cepex enclosure black				
	as panel mounted socket, for	Brand	Туре	Data module	Part no.
	installation of RJ45 data port	AMP	Twist	-	4366 ₁₎
	sockets, 2 keys, identical lock:	AMP	Jack	2 x 41457	4365
		AMP	CO Plus	-	4379 *
		BTR	Module E-DAT	2 x 41455	4345 ₃₎
		Rutenbeck	iso-8/8 Up0S	1 x 41492	4367
	IP 44	Reichle & De-Massari	Module Real 10	2 x 25056	4378 2)
	sta. Pack. Qty: 5 Drawing: 1 MB 305				

^η Cepex enclosures also suited for data modules of Telegärtner (AMJ 45 Up/O, cat.6a) and Nexans (LANmark-6 Snap-in Connector with fixing ring Modular Outlet 50).

²⁾ Cepex enclosures also suited for the connection modules Telegärtner (AMJ/UMJ cat.6+, Setec (XKJ), Corning (FutureCOM S10TENe Keystone), Dätwyler (KS-T6A, MS-K, PS-GG45), Rutenbeck (UM real cat.6a, A), LEONI MegaLine, Keystone.

3) Cepex enclosures also suited for LEONI MegaLine.

* The data inserts/modules AMP CO Plus are not part of the MENNEKES delivery program!

Overview of mounting options for RJ45 modules in empty Cepex enclosures.

RJ45 modules Keystones	s and		Ce	epex	(pa	nel	moı	unte	ed s	ock	et											Cepex surface- mounted socket							
Brand	Туре	Part no. data module	Pa en Gr	rt no clos ey (l	o. sure RAL	703	35)			Pa en Alp (RA	rt no clos bine AL 9	o. ure whi 010	ite))			Pa en Bla	rt no clos ack (o. ure RAL	90	05)		Part no. enclo- sure Silver (RAL 9006)	Pai en Gr	rt no clos ey (l	o. Jure RAL	703	35)		
			4302	4322	4342	4352	4362	4372	4377*	4304	4324	4344	4354	4364	4374	4345	4365	4366	4367	4378*	4379	4326	4300	4320	4340	4350	4360	4370	4375*
АМР	Jack	41557					•							•			•										•		
AMP	CO Plus							•							•						•							•	
Telegärtner	AMJ 45 Up/O		•			•				•								•					•			•			
Telegärtner	AMJ/UMJ module								•											•									•
Nexans	LANmark connector		•			•				•			•					•					•			•			
BTR	E-DAT module	41455			•							•				•									•				
Rutenbeck	iso-8/8 UPOS	41492		•							•								•			•		•					
Rutenbeck	UM real								•											•									•
ткм	KDMF	41452	•							•													•						
Reichle & De-Massari	Module Real 10	25056							•											•									•
Setec	XKJ								•											•									•
Corning	FutureCom								•											•									•
Dätwyler	KS-T6A								•											•									•
LEONI	MegaLine				•				•			•				•				•					•				•

* Keystones

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

Data module BTR, type: RJ45 connection module 270° (type E-DAT module 8(8) jack cat.6), suitable for Cepex data port sockets, part no. 4340, 4342, 4344, 4355, strain relief per locking clip directly on the stuffer cap	Part no. 41455
Std. Pack. Qty: 20	
Data module AMP, type: RJ45 connection module (type Cat.6 SL Jack), suitable for Cepex data port sockets, part no. 4360 and versions	Part no. 41457
Std. Pack. Qty: 12	
Data module Reichle & De-Massari, type: data port sockets insert Real 10, Cat.6, screened, including frame for snap- in, suitable for Cepex data port sockets, Part no. 4375 and versions	Part no. 25056
Std. Pack. Qty: 10	
Data module Rutenbeck, type: data port insert 2 x RJ45, Cat.6a, (type UPOS), suitable for Cepex data port sockets, Part no. 4320 and versions	Part no. 41492
Std. Pack. Qty: 10	
Data module TKM, type: data port insert 2 x RJ45, Cat.6, (type KDMF), suitable for Cepex data port sockets, Part no. 4300 and versions	Part no. 41452
Std. Pack. Qty: 10	
Data module RJ45 connection module, type E-DAT module, connector 8(8) 90°, Cat.6 (recommended for	Part no. 25042

Std. Pack. Qty: 10

Special plugs and sockets – Energy and data

Protection type IP 44. Pre-wired for installation, enclosure front cover electric grey RAL 7035, yellow (GE) RAL 1021 also available on request. Enclosure hinged to the side.



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

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

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

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





AMAXX[®] cable gland set

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

Fitted with

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

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

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

4 Velcro connectors for fastening installed components on the base plate

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

1 screw fitting M 20

1 screw set

Enclosure size 520 x 225 mm (H x W) Part no. 25405



Velcro connector

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

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



AM-TOP plugs and connectors.

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







Wall mounted sockets, switched and interlocked.

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



Combination units with sockets, switched and interlocked.

Special plugs and sockets – For reefer containers

Ground contact at 3 oʻclock position conforming to DIN VDE 0623, EN 60309-2. Highly resistant to chemicals. Other versions available on request. For drawings and dimensions see page 102 - 110.

	Well measure and an it is			
	wall mounted socket	Α	Ρ	380 - 440 V
-	highly resistant to chemicals, with highly heat resistant contact carrier	22		50 a. 60 Hz
And the set	and nickel plated contacts	32		9562
Co				
	IP 67 Std. Dack. Otv: 10			
	Drawing: 1 MB 622			
	5101119.1115 022			
	Wall mounted socket	٨	Р	280 440 V
	with highly heat resistant contact	A	۲	50 a. 60 Hz
~	carrier and nickel plated contacts,	32	4	5792A
(switched, with mechanical			
S	DUO-Interiock			
	IP 67			
	Std. Pack. Qty: 1			
	Drawing: 1 MB 207			
1000	with highly heat resistant and the	Α	Ρ	380 - 440 V
	with highly heat resistant contact	~~~		50 a. 60 Hz
	switched, with mechanical	32	4	5946A
	DUO-interlock and DIN rail			
and a				
	IP 67 Std. Pack. Otv: 2			
	Drawing: 1 MB 181/620			
	5			
	Panel mounted socket	Δ	P	380 - 440 V
	Panel mounted socket with highly heat resistant contact	A	P	380 - 440 V 50 a. 60 Hz
0	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts,	A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight	A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight	A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight	A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight	A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight	A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight	A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141	A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141	A 32	P	380 - 440 V 50 a. 60 Hz 2123A
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact	A 32	P 4	380 - 440 V 50 а. 60 Hz 2123А 380 - 440 V 50 а. 60 Hz
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts,	A 32 A 32	P 4	380 - 440 V 50 а. 60 Hz 2123А 380 - 440 V 50 а. 60 Hz 2175В
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part	A 32 A 32	P 4 P 4	380 - 440 V 50 а. 60 Hz 2123А 380 - 440 V 50 а. 60 Hz 2175В
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body	A 32 A 32	P 4 P 4	380 - 440 V 50 а. 60 Hz 2123А 380 - 440 V 50 а. 60 Hz 2175В
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body	A 32 A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A 380 - 440 V 50 a. 60 Hz 2175B
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body	A 32 A 32	P 4	380 - 440 V 50 a. 60 Hz 2123A 380 - 440 V 50 a. 60 Hz 2175B
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body	A 32 A 32	P 4 4 4 4 4 4	380 - 440 V 50 a. 60 Hz 2123A 380 - 440 V 50 a. 60 Hz 2175B
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10	A 32 A 32	P 4 P 4	380 - 440 V 50 а. 60 Hz 2123А 380 - 440 V 50 а. 60 Hz 2175В
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10	A 32 A 32	P 4 P 4	380 - 440 V 50 а. 60 Hz 2123А 380 - 440 V 50 а. 60 Hz 2175В
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10	A 32 A 32	P 4 4 4 4 4	380 - 440 V 2123А 380 - 440 V 50 а. 60 Hz 2175В
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10	A 32 A 32	P 4 4 4	380 - 440 V 2123А 380 - 440 V 50 а. 60 Hz 2175В
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10 Phase sequence test plug earthing contact in the 3 o'clock arthing contact in the 3 o'clock	A 32 A 32	P 4 9 4	380 - 440 V 2123А 380 - 440 V 50 а. 60 Hz 2175В 380 - 440 V 3880 - 440 V
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10 Phase sequence test plug earthing contact in the 3 o'clock position, conforming to VDE 0413 part 7	A 32 A 32 32 A 32	P 4 P 4	380 - 440 V 2123А 380 - 440 V 50 а. 60 Hz 2175В 380 - 440 V 50 а. 60 Hz 380 - 440 V 50 а. 60 Hz
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10 Phase sequence test plug earthing contact in the 3 o'clock position, conforming to VDE 0413 part 7	A 32 A 32 32 A 32	P 4 P 4	380 - 440 V 2123А 380 - 440 V 50 а. 60 Hz 2175В 380 - 440 V 50 а. 60 Hz 380 - 440 V
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10 Phase sequence test plug earthing contact in the 3 o'clock position, conforming to VDE 0413 part 7	A 32 A 32 32 A 32	P 4 4 4 4	380 - 440 V 50 а. 60 Hz 2123А 380 - 440 V 50 а. 60 Hz 2175В 380 - 440 V 50 а. 60 Hz 3718
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10 Phase sequence test plug earthing contact in the 3 o'clock position, conforming to VDE 0413 part 7	A 32 A 32 32 A 32	P 4 4 4 4	380 - 440 V 2123А 380 - 440 V 50 а. 60 Hz 2175В 380 - 440 V 50 а. 60 Hz 3718
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10 Phase sequence test plug earthing contact in the 3 o'clock position, conforming to VDE 0413 part 7	A 32 A 32 32 A 32	P 4 4 4 4	380 - 440 V 50 а. 60 Hz 2123А 380 - 440 V 50 а. 60 Hz 2175В 380 - 440 V 50 а. 60 Hz 3718
	Panel mounted socket with highly heat resistant contact carrier and nickel plated contacts, flange 85 x 75 mm, straight IP 67 Std. Pack. Qty: 10 Drawing: 1 MB 141 Plug AM-TOP with highly heat resistant contact carrier and nickel plated contacts, with screw terminals and single part body IP 67 Std. Pack. Qty: 10 Phase sequence test plug earthing contact in the 3 o'clock position, conforming to VDE 0413 part 7 IP 44 Ct 4D b 4 00 to 5	A 32 A 32 32 A 32	P 4 4 4 4	380 - 440 V 2123А 380 - 440 V 50 а. 60 Hz 2175В 380 - 440 V 50 а. 60 Hz 3718

Special plugs and sockets – For reefer containers

Ground contact at 3 oʻclock position conforming to DIN VDE 0623, EN 60309-2. Other versions available on request. For drawings and dimensions see page 102 - 110.

	Panel mounted inlet with highly heat resistant contact carrier and nickel plated contacts, with hinged lid	A 32	P	380 - 440 V 50 a. 60 Hz 2692
	IP 67 Std. Pack. Qty: 10 Drawing: 2 MB 40			
	Connector AM-TOP	A	Ρ	380 - 440 V 50 a 60 Hz
	carrier and nickel plated contacts, with screw terminals and single part	32	4	2177A
~	body			
	IP 67 Std. Pack. Qty: 10			
	Protective cap			Part no.
	Protective cap for plugs 32 A, 4 p			Part no. 40841
-	Protective cap for plugs 32 A, 4 p			Part no. 40841
	Protective cap for plugs 32 A, 4 p Std. Pack. Qty: 10			Part no. 40841
	Protective cap for plugs 32 A, 4 p Std. Pack. Qty: 10 Houlder for plugs 32 A, 4 p			Part no. 40841 Part no.
	Protective cap for plugs 32 A, 4 p Std. Pack. Qty: 10 Houlder for plugs 32 A, 4 p			Part no. 40841 Part no. 41342
	Protective cap for plugs 32 A, 4 p Std. Pack. Qty: 10 Houlder for plugs 32 A, 4 p			Part no. 40841 Part no. 41342

Special plugs and sockets – For reefer containers

Protection type IP 67.

Ground contact at 3 o'clock position conforming to DIN VDE 0623, EN 60309-2. Other versions available on request. Sockets switched, with mechanical DUO-interlock with highly heat resistant contact carrier and nickel plated contacts. For drawings and dimensions see page 111 - 112. It is self - evident for us to offer customized solutions which are especially made for your demand. Please contact us!





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

CEE sockets

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

CEE sockets

Sockets British standard

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

Connection For 1 cable up to 5 x 25 mm²

Connection and load value Pre-fuse max. 100 A InA 58 A RDF 0.6

Enclosure size 520 x 225 mm (H x W)

Part no.

940027



Jos. L. Meyer-Werft, Papenburg, Germany

Special plugs and sockets – TM for military purpose

to DIN EN 60309-2, colour: bronze-green RAL 6031-F9. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.



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



Panel mounted socket TM highly heat resistant contact carrier, nickel	Α	Ρ	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	> 50 - 500 V >300-500 Hz
plated contacts, straight, (form AS) 63 A: X-CONTACT		3	2292 AS013			
	16	5	23151 AS002	20458 AS001	23163 AS003	23175 AS004
	32		2329 A AS042			
IP 67	32		2315 AS006	2045 AS005	2316 AS007	2317 AS008
Std. Pack. Qty: 10/5 Drawing: 1 MB 217/1	63		2315 AS010	2046 AS009	23165 AS011	23177 AS012



Panel mounted socket TM X-CONTACT, highly heat resistant contact carrier, nickel	A 125	P 5	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz 2343	440 V- 460 V 60 Hz	> 50 - 500 V >300-500 Hz
plated contacts, straight, (form AS)				A3014		
IP 67 Std. Pack. Qty: 5 Drawing: 1 MB 212/258						
Panel mounted socket TM	Α	Ρ	230 V	400 V	440 V- 460 V	>50 - 500 V

5

Panel mounted socket TM

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

X-CONTACT,

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

IP 67

Panel mounted socket TM highly heat resistant contact carrier, nickel	A	Ρ	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	> 50 - 500 V >300-500 Hz
plated contacts, 20° inclination, (form BS) 63 A: X-CONTACT	16	3	24630 BS017			
	16	5	24641 BS002	24640 BS001	24642 BS003	24643 BS004
	32	3	2473 BS042			
IP 67	32		24741 BS006	24740 BS005	24742 BS007	2474 BS008
Std. Pack. Qty: 10/5 Drawing: 1 MB 474	63	5	24841 BS010	2484 BS009	24842 BS011	24843 BS012



A	Ρ	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	> 50 - 500 V >300-500 Hz
125	5		2218 A BS013		

Special plugs and sockets – TM for military purpose

to DIN EN 60309-2, colour: bronze-green RAL 6031-F9. Other voltages and frequencies available on request. For drawings and dimensions see page 102 - 110.

rubberised grip area, frame terminals,

Drawing: 2 MB 62/1

plated contacts, cable gland and sealing,

strain relief and protection against kinking,

	Plu hig pla (for
	IP 6 Std

Plug AM-TOP TM highly heat resistant contact carrier, nickel	A	Ρ	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	> 50 - 500 V >300-500 Hz
plated contacts, with protective cap, (form CP)	16	3	24660 CP017			
	16	5	24671 CP002	24670 CP001	24672 CP003	24673 CP004
	32	3	24760 CP042			
IP 67 Std. Pack. Otv: 10	32	5	24771 CP006	24770 CP005	24772 CP007	24773 CP008

230 V

400 V

) a. 60 Hz **24870** CP009

24970

440 V- 460 V

>50 - 500 V

24873 CP012

24973

A P

63 5

125 5



enclosure with thread lock, two safety slides, with protective cap, (form CP)				CP013		CP016
IP 67						
Std. Pack. Qty: 5						
Panel mounted inlet TM	Α	Ρ	230 V	400 V	440 V- 460 V	>50 - 500 V
highly heat resistant contact carrier, nickel			50 a. 60 Hz	50 a. 60 Hz	60 Hz	>300-500 Hz
plated contacts, with protective cap, (form BP)	16	3	24210 BP013			
· · · ·	16	5		20461 BP001		
	32	3	23249 BP042			
IP 67	32	5		20462 BP005		
Std. Pack. Qty: 10/5 Drawing: 2 MB 62/1	63	5		20463 BP009		



nel mounted inlet TM nly heat resistant contact carrier, nickel	Α	Ρ	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	> 50 - 500 \ >300-500 Hz
plated contacts, with protective cap, (form AP)	125	5		23433		
IP 67						
Std. Pack. Qty: 5						
Drawing: 2 MB 206						



Connector AM-TOP TM highly heat resistant contact carrier, nickel	Α	Ρ	230 V 50 a. 60 Hz	400 V 50 a. 60 Hz	440 V- 460 V 60 Hz	> 50 - 500 V >300-500 Hz
plated contacts, with protective cap, (form DS)	16	3	24675 DS017			
	16		24686 DS002	24685 DS001	24687 DS003	24688 DS004
	32		24775 DS042			
IP 67	32	5	24786 DS006	24785 DS005	24787 DS007	24788 DS008
Std. Pack. Qty: 10						



Connector PowerTOP® Xtra TM X-CONTACT, rubberised grip area, frame terminals, highly heat resistant contact carrier, nickel plated contacts, cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock, two safety slides, with protective cap, (form DS) IP 67 Std. Pack. Qty: 5



Special plugs and sockets - Camping

For drawings and dimensions see page 102 - 110.

	Wall mounted socket with Twin-	Description	Part no.
	CONTACT	16 A. 3 p. 230 V	1341
	fixing	,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	IP 44 Std. Pack. Qty: 10 Drawing: 1 MB 463		
	Panel mounted socket	Description	Dentaria
- 1.	with eyelet, 20° inclination,		951
	flange: 68 x 62 mm, fixing hole spacing: 47 x 47 mm	Plug with eyelet 16 A, 3 p, 230 V, for panel mounted socket 851	852
	IP 11		
	Std. Pack. Qty: 10 Drawing: 1 MB 456		
	Plug ProTOP		
	cable gland and sealing, strain relief	Description	Part no.
	and protection against kinking, enclosure with thread lock and safety slide	16 A, 3 p, 230 V	148A
	IP 44 Std. Pack. Qty: 10		
	Built-in Plug	Description	Denting
	Built-in Plug nickel plated contacts	Description	Part no.
	Built-in Plug nickel plated contacts	Description 16 A, 3 p, 230 V, Lid: electric grey 16 A, 3 p, 230 V, Lid: black	Part no. 8001 8008
	Built-in Plug nickel plated contacts	Description16 A, 3 p, 230 V, Lid: electric grey16 A, 3 p, 230 V, Lid: blackCounter frame for built-in plugsCaraCONTACT 8001 and 8008	Part no. 8001 8008 40744
	Built-in Plug nickel plated contacts IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 70	Description16 A, 3 p, 230 V, Lid: electric grey16 A, 3 p, 230 V, Lid: blackCounter frame for built-in plugsCaraCONTACT 8001 and 8008	Part no. 8001 8008 40744
	Built-in Plug nickel plated contacts IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 70 Connector ProTOP	Description 16 A, 3 p, 230 V, Lid: electric grey 16 A, 3 p, 230 V, Lid: black Counter frame for built-in plugs CaraCONTACT 8001 and 8008	Part no. 8001 8008 40744
	Built-in Plug nickel plated contacts IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 70 Connector ProTOP cable gland and sealing, strain relief	Description 16 A, 3 p, 230 V, Lid: electric grey 16 A, 3 p, 230 V, Lid: black Counter frame for built-in plugs CaraCONTACT 8001 and 8008	Part no. 8001 8008 40744 Part no. 1800C
	Built-in Plug nickel plated contacts	Description 16 A, 3 p, 230 V, Lid: electric grey 16 A, 3 p, 230 V, Lid: black Counter frame for built-in plugs CaraCONTACT 8001 and 8008 Description 16 A, 3 p, 230 V	Part no. 8001 8008 40744
	Built-in Plug nickel plated contacts IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 70 Connector ProTOP cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock and safety slide IP 44 Std. Pack. Qty: 10	Description I 16 A, 3 p, 230 V, Lid: electric grey I 16 A, 3 p, 230 V, Lid: black I Counter frame for built-in plugs I CaraCONTACT 8001 and 8008 I Description I 16 A, 3 p, 230 V I	Part no. 8001 8008 40744
	Built-in Plug nickel plated contacts IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 70 Connector ProTOP cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock and safety slide IP 44 Std. Pack. Qty: 10 Angled connector	Description 16 A, 3 p, 230 V, Lid: electric grey 16 A, 3 p, 230 V, Lid: black Counter frame for built-in plugs CaraCONTACT 8001 and 8008	Part no. 8001 8008 40744
	Built-in Plug nickel plated contacts IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 70 Connector ProTOP cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock and safety slide IP 44 Std. Pack. Qty: 10 Angled connector with grommet	Description 16 A, 3 p, 230 V, Lid: electric grey 16 A, 3 p, 230 V, Lid: black Counter frame for built-in plugs CaraCONTACT 8001 and 8008 Description 16 A, 3 p, 230 V	Part no. 8001 8008 40744
	Built-in Plug nickel plated contacts IP 44 Std. Pack. Qty: 10 Drawing: 2 MB 70 Connector ProTOP cable gland and sealing, strain relief and protection against kinking, enclosure with thread lock and safety slide IP 44 Std. Pack. Qty: 10 Magled connector with grommet	Description16 A, 3 p, 230 V, Lid: electric grey16 A, 3 p, 230 V, Lid: blackCounter frame for built-in plugs CaraCONTACT 8001 and 8008Description16 A, 3 p, 230 VDescription16 A, 3 p, 230 V	Part no. 8001 8008 40744

5

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Special plugs and sockets – Switch disconnectors made of AMELAN

Disconnecting property in acc. with EN 60947 (up to 690 V). Finger protection in acc. with DIN 57106 / VDE 0106 T.100. Products with additional aux.contact (1 x NO and 1 x NC). For drawings and dimensions see page 102 - 110.

8	Switch disconnector rigid enclosures, ample space	Rated Current Ampere	Poles	Auxiliary contact	BS Motor rating AC3/440 V kilowatt	Part no.
	for wiring, padlocking facilities, excellent switching capacity, open terminals and captive terminal screws	25	3		7,5	52241MEG
		25	3	\checkmark	7,5	52242MEG
		40	3		18,5	52243MEG
		40	3	\checkmark	18,5	52244MEG
		80	3		30.0	52245MEG
	Std. Pack. Qty: 1 Drawing: 1 MB 412/3	80	3	\checkmark	30.0	52246MEG

Characteristics switch disconnector without aux. with aux. without aux. with aux. without aux. with aux. contact contact contact contact contact contact 52246MEG 52241MEG 52242MEG 52243MEG 52244MEG 52245MEG Part numbers Rated operational voltage U IEC / EN / VDE / SEV 690 V 690 V 690 V Main switch: Isol. voltage up to 690 V 690 V 690 V Rated continuous current I IEC / EN / VDE 25 A 40 A 80 A Rated operational current I IEC / EN 25 A 40 A 80 A Rated operational current at 50 up to 60 Hz AC-23A IEC / EN / VDE 220-240 V 5.5 kW 11.0 kW 18.5 kW 3 phase 3 pole 380-440 V 11.0 kW 22.0 kW 18.5 kW 600-690 V 11.0 kW 18.5 kW 30.0 kW AC-3 IEC / EN / VDE 220-240 V 4.0 kW 7.5 kW 15.0 kW 3 phase 3 pole 380-440 V 7.5 kW 18.5 kW 30.0 kW 600-690 V 7.5 kW 15.0 kW 30.0 kW Rated breaking capacity AC-23 A / AC-3 motor switch 220-240 V 220 A 350 A 550 A 380-440 V 220 A 350 A 550 A 600-690 V 135 A 190 A 285 A Maximum fuse size (gL) 35 A 63 A 80 A **Terminal cross section** 6.0 mm² Single / multiple wire min. 1.0 mm² 4.0 mm² max. 6.0 mm² 16.0 mm² 35.0 mm² Fine-strand wire with sleeve min. 0.75 mm² 2.5 mm² 6.0 mm² 4.0 mm² 10.0 mm² 25.0 mm² max

Characteristics auxiliary contacts

Part nu	mbers		52242MEG	52244MEG	52246MEG
Auxiliar	y module		500 V	690 V	690 V
Rated o	operational voltage U _e				
Rated c	continuous current l _u		16 A	16 A	16 A
Rated o	operational current I _e	220-240 V			
AC-15A IEC / EN 380-440 V		2.5 A / 1.5 A	6 A / 3 A	6 A / 4 A	
Terminal cross section					
Single / multiple wire		min.	1.0 mm ²	1.0 mm ²	1.0 mm ²
	Fine-strand wire with sleeve	max.	1.5 mm ²	2.5 mm ²	2.5 mm ²

Service – References



BMW motorcycle plant, Berlin – Germany



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



Formula 1 circuit, Manama – Bahrain



Constitution, Heerema Marine Contractors – Netherland





Container Terminal, Le Havre – France

Port of Salalah – Oman

Service – References



Container Terminal, Altenwerder – Germany



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



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



Brunnenmarkt, (Market Square), Vienna – Austria



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



Bauernmarkt, (Market Square), Hannover – Germany

Service – Regulations and standards

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

Installation guidelines

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

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

IEC 60309-1 IEC 60309-2 EN 60309-1 EN 60309-2 IEC 60309-1/VDE 0623 part 1 IEC 60309-2/VDE 0623 part 2

Applications

CEE plugs and sockets can and, under certain circumstances, must be used in industry, in commerce, in agriculture, in parks, in damp and wet environments, outdoors, on building sites, in caravans, on boats and yachts, on camp sites, for dockside power supply installations (marinas), on works premises where there is a fire hazard, at markets and fairground booths and for trailers and mobile homes.

Using CEE plugs and sockets will usually enable the planners and builders of electrical installations to comply with the "regulations for the construction of low voltage systems as per DIN VDE 0100".

Enclosure material

Plastic material

MENNEKES generally uses high-grade plastic material with the following excellent properties: Excellent electrical insulation, break-proof, wearresistant, abrasion-resistant, dimensionally stable, self-extinguishing, heat-resistant, cold-resistant, stabilised against aging, resistant to seawater, oil, and petrol. For use in industrial premises or place of work where the use of chemicals or other aggressive substances makes it necessary to use other plastic materials, MENNEKES offers products with increased stability against fuel, oil and grease, diluted acids and alkali, cleaner and the most aqueous salt solutions. These products are marked in the catalogue with (.). Products made of this plastic combine high mechanical, thermal and electrical properties with excellent dimensional stability and resistance to chemicals and are fit for action in chemical plants, in refineries, in the food processing industry, in washdown areas and so on.

Solid rubber

Solid rubber blends are preferably used wherever products are exposed to high mechanical and/or chemical loads. Solid rubber excels by its outstanding dimensional stability; it is largely resistant to acid and lye and has a high resistance to breakdown and leakage current. Products made from solid rubber blends, e.g. MENNEKES EverGUM, are resistant to weather and ageing. Under UV radiation, colour pigments may fade with time. This is inevitable even to the latest state of the art yet it does not compromise the function in any way.

Stainless steel

Our high-quality stainless steel products are ideally suited for continuous use in buildings and outdoors. There is a potential risk of corrosion in open air and indoor swimming pools, in coastal regions, offshore and in industrial areas with high air pollution. Subject to location and climatic conditions discoloration and corrosion can arise. Through specific cleaning and maintenance procedures, impairments of the surface can be reduced or avoided. In particularly aggressive ambient conditions we recommend the use of special stainless steels or coating the surfaces to further increase corrosion resistance.

Contact material, small parts

Female and male contacts are made of brass; screws, springs, etc. are made of rust-proof material or surface-coated steel.

Characteristics of CEE plugs and sockets

MENNEKES CEE plugs and sockets are distinguished by the following features, which keep maintenance costs to a minimum:

- Easy to install
- Wiring space easily accessible
- Power screwdrivers can be used for installation
- Mostly fitted with Pozidriv screws (size 2)
- High contact pressure
- Low effort required for insertion and withdrawal
- Low transition resistance
- Easy-to-grip plugs

Application

CEE plugs and sockets with operating voltages up to 1000 V DC or AC, frequencies up to 500 Hz and rated currents up to 800 A, including plugs and sockets for low voltage systems have become the standard all over the world. Basically suitable for indoor and outdoor applications in industry, they are also used on building sites, farms, commercial premises, for caravans, mobile homes, boats, yachts and in households. CEE plugs and sockets are polarised and non-reversible.

Ambient temperature

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

Low voltage directive 2014/35/EU

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

Declaration of Conformity

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

The CE mark is not a compliance mark. MENNEKES CEE plugs and sockets satisfy the requirements specified in the low voltage directive and the device and/or the packaging bears the "CE" mark " $\xi \xi$ ".

Cable glands

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

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

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

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

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

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

• The basic standard that is referenced as "Part 1" in the specific standards;

• The applicable parts 2 to 7 of the switchgear and control gear assembly standard that deals with the particularities of the application.

The IEC 61439 consists of the following parts:

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

Requirements in this standard, which are object of an agreement between manufacturer of the switchgear and control gear assemblies and user, are summarized on page 99 - 101. This listing facilitates provision of information concerning basic conditions and supplemental user definitions.

Design verification

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

Definition - "original manufacturer" and "manufacturer of the switchgear and control gear assembly"

Original manufacturer

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

Manufacturer of the switchgear and control gear assembly

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

Significance for MENNEKES products:

For pre-wired devices MENNEKES is simultaneously the original manufacturer and the manufacturer. The responsibility and provision of verifications rest with us. We cannot declare partially wired devices that we manufacture as standard compliant. In this case the "finishing entity" becomes the manufacturer and must declare conformity. It is required to forward information to this organisation so that the device ultimately can get a "Declaration of Conformity".

Service – Regulations and standards

Heating

The max. ambient temperature is +40 °C.

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

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

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

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

Heating - replacement of components

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

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

The requirement of IEC 61439 is, that all electric circuits must be individually capable to carry their rated current, without exceeding temperature limit values in the process. If additional power circuits are added, a rated load factor can be set.

Rated values InA, Inc, RDF

Standard definition InA

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

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

• Standard definition Inc

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

Standard definition – rated diversity factor RDF

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

Table 101 from IEC 61439-3 Values for assumed load

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

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

MENNEKES standard values in accordance with Table C of IEC 61439

The information below represents specified standard values for MENNEKES catalogue assemblies. If there are deviations from this standard or in the case of special project planning, appropriate coordination must take place beforehand between user and manufacturer. These agreements must be arranged between MENNEKES and the user / customer during the quotation phase (prior to production and prior to sale).

The table below is a "blank" that is applicable for approximately 98 % of the MENNEKES devices. Special project planning is not covered by the specifications, and must be separately disclosed by the user prior to project planning. In these special cases, it is required that additional details be considered with the aid of the standards cited and their product sub-standards (see Section 7.2, in Part 1).

Characteristic	Standard value	Normative option	MENNEKES standard	
System according to type of earth connection	Design in accordance with the local requirements	TT / TN / IT	TN / TT	
Rated voltage	In accordance with local installation conditions	max. 1000 V AC or 1500 V DC	400 V AC	
Transient overvoltages	determined through the electrical system	Overvoltage category / / / V	Kat. III / plugs and sockets Kat. II	
Occasional overvoltages	min. rated voltage + 1200 V	See Table 8 + 9 or 10 for the values	1890 V (AC)	
Rated frequency	in accordance with installation conditions	DC / 50 Hz / 60 Hz	50 Hz	
Short circuit resistance	determined through the system	N + PE max 60 % of the outer conductor values	lcc max. ≤ 10 kA	

Service - Regulations and standards

Characteristic	Standard value	Normative option	MENNEKES standard
SCPD in the supply	in accordance with installation conditions	yes / no	no
Coordination between shortcircuit protection devices inside or outside of the switchgear and control gear assembly	in accordance with installation conditions	present / install / integrate	ltem-dependent
Information of loads that could possibly contribute to short-circuit current	No loads are permitted that could possibly contribute to the shortcircuit current	none	none
Type of protection against electric shock – basic insulation	Basic protection	Comply with local requirements	Basic protection
Type of protection against electric shock – earth fault protection	Protection against indirect contact / comply with local requirements	Automatic shutdown / protective disconnect / protective insulation	ltem-dependent
Installation site	Execution of the manufacturer	Indoors / outdoors	ltem-dependent
Protection type	Indoors min. IP 2x / outdoors min. IP 23	IP xx (A-D)	IP 44
Protection against mechanical effects		if necessary specification of the IK code (IEC 62208)	Information on request
Resistance to UV radiation		Required for enclosures in outdoor installation	Information on request
Resistance to corrosion	For indoor and outdoor installation	yes / no	ltem-dependent
Ambient temperature limit values Indoors: min5 °C none Outdoors: min25 °C High limit (both): +40 °C max. average value (24 h): +35 °C		none	Standard values! see product for deviations
Maximum relative humidity	90 %	Outdoors: 100 % at max. +25 °C Indoors: 50 % bei +40 °C	Standard values! See product for deviations
Pollution degree	Industrial environment 3	1, 2, 3, 4	3
Altitude	≤ 2000 m	Pay attention to the factors	≤ 2000 m
EMC environment	A or B	A/B	В
Special operating conditions (vibration, Ex-area, strong magnetic fields or contamination)	No particular conditions	none	Not defined!
External structural design	in accordance with manufacturer's specifications	Open / closed / standing / in-wall installation & on-wall installation / console	closed
Mobile or stationary	in accordance with manufacturer's specifications	yes / no	ltem-dependent
Dimensions and masses	in accordance with manufacturer's specifications	none	ltem-dependent
Type of conductors introduced from outside	Cables	Cables / busbar trunking systems	Cables
Materials of the conductors introduced from the outside	Copper	Copper / aluminum	Copper
Cross-sections of the outer conductors, PE, N & PEN conductors	As specified in the standard	none	none
Special requirements imposed on the marking of connections	in accordance with manufacturer's specifications	none	Manufacturer execution
Requirements imposed on storage & transport (type of transport, deviating ambient conditions, max. dimensions, packaging requirements)	Standard of the manufacturer	none	Information on request
Operability (access, activation rights, disconnect)	Easy reachability	Authorized persons, ordinary persons, etc.	ltem-dependent
Requirements imposed on accessibility for operation, inspection, maintenance or extension	Inspection, component replacement, extension, maintenance, etc. only by specialized persons (requirement)	none	Inspection, replacement, extension, maintenance, etc. only through specialized persons
Separation of the outgoing electric circuits	in accordance with manufacturer's specifications	Individually / in groups / all	ltem-dependent

Service – Regulations and standards

Characteristic	Standard value	Normative option	MENNEKES standard
Type of interior subdivision	in accordance with manufacturer's specifications	Form 1, 2, 3, 4	none
Rated current of the switchgear and control gear assembly	Manufacturers standard; in accordance with the application	none	ltem-dependent
Rated current of the electric circuits (I_{nc})	Manufacturers standard; in accordance with the application	none	ltem-dependent
Rated diversity factor (RDF)	STANDARD specification	RDF for electric circuits/ RDF for the entire switchgear and control gear assembly	ltem-dependent
Cross-section ratio between outer conductor and N*	$\emptyset \le 16 \text{ mm}^2 = 100 \%$ $\emptyset > 16 \text{ mm}^2 = 50 \%$ (min. 16 mm ²)	For currents in N to 50 % of the outer conductors, otherwise a special agreement is necessary!	Outer conductor = neutral conductor cross-section

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

Clock positions acc. to EN 60309-2:1999 + A1:2007 + A2:2012, Series I (Europe)

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



- * Clock positions not normed and free for use for special applications. ** Clock positions not used.

Service - Regulations and standards

Colour coding

If the rated operating voltage is indicated by a colour coding in addition to compulsory markings, such colour coding must be in accordance with IEC 60309-1:2013-02, table 2:

Rated operating voltage and frequency	Colour code	RAL*
100 to 130 V	yellow	1021
200 to 250 V	blue	5007
380 to 480 V	red	3013
500 to 1.000 V	black	9005
above 60 to 500 Hz	green	6010

* RAL determined by MENNEKES, as in EN 60309-1:1999

CEE plugs and sockets for rated operating voltages above 50 V

Position of the earth contact

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

CEE plugs and sockets for rated voltages of up to 50 V (low voltage)

Since no earth contact is required in plugs and sockets of rated voltage up to 50 V, two keyways instead of one are provided the collar. They are accordingly termed the major and minor keyways. The major keyway is always in the 6 o'clock position. Depending on voltages and frequencies, the minor keyway is always in accordance with table 103 taken from EN 60309-2:1999 + A1:2007 + A2:2012, standard sheet 2-VIII (and in the following drawings).

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



Arrangement of the minor keyway (major keyway 6 o'clock) for various voltages and frequencies using clockface positions in accordance with table 103 taken from EN 60309-2:1999 + A1:2007 + A2:2012

Rated operating voltage V	Frequency Hz	Clockface position of keyway (major keyway = 6 o´clock)
20 to 25	50 and 60	no minor keyway
40 to 50	50 and 60	12
20 to 25 and 40 to 50	100 to 200	4
	300	2
40 10 30	400	3
	> 400 to 500	11
	DC	10
25	DC*	8 *for portable electrical incubators – use with 12 V or 24 V direct-current voltage in ambulances or helicopters.

Colour coding

If the rated operating voltage is indicated by a colour coding in addition to compulsory markings, such colour coding must be in accordance with IEC 60309-1:1999, table 2:

Rated operating voltage	Colour code	9	RAL*	
20 to 25 V	violet		4001	
40 to 50 V	white		7035	
* RAL determined by MENNEKES, as in EN 60309-1:1999 no specification is provided for.				

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Positions 1 and 9 are reserved for future standards. For design reasons, positions 5, 6 and 7 are

not available for use.

Service – Regulations and standards

Interlocks and breaking capacity

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

- electrical interlocks.

In the case of sockets and connectors \geq 63/60 A, EN 60309-2 requires that a distinction is made between products used with or without interlocks. As MENNEKES plugs and sockets have adequate breaking capacity, standard \geq 63/60 A versions are fitted with short contact tubes without pilot contact. In the 63 A and 125 A versions, the short contact tubes meet the finger-touch requirements of IEC 60529. Sockets and connectors 63/60 A for electrical interlocking are fitted with long contact tubes and pilot contact for leading and lagging. The interlock makes up for the lack of finger-touch safety.

Plugs and sockets with mechanical interlocks

Mechanical interlocks for plugs and sockets with a rated operating voltage greater than 50 V must conform to EN 60309-2:1999, standard sheet 2-V. The mechanical switch of a mechanically interlocked socket or connector must not be operational until the proper plug has been inserted. Built-in switches for mechanical interlocking of switched AC sockets must have a breaking capacity conforming at least to IEC 60947-3 (VDE 0660 part 107), utilisation category AC 22. The breaking capacity must be suitable for the appliance connected.

Plugs and sockets with electrical interlocks

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

Plugs and sockets for isolating and switching purposes

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

Shock hazard protection

Shock hazard protection must be achieved in accordance with EN 60309-1:1999 section 9 by designing plugs and sockets in such a way that, when engaged properly, no live parts of sockets, connectors, plugs and inlets are exposed so that they may be touched.

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

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

Protection type

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

– splashproof \longrightarrow drop in a triangle 🛕

– watertight → 2 drops ▲▲

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

IP 44 = Protection from solid bodies with a diameter \geq 1 mm, splashproof IP 67 = Protection from dust ingress, protection against temporary immersion

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

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

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

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

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

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

IP 44 or IP 67 is indicated on the appliances.

Notice for the use of mobile power distribution boxes:

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

Service - Regulations and standards

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

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

Important application instructions concerning the change in the standard.

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

Attention!

- SCHUKO® plugs > IP X4 (in accordance with DIN 49442, resistant to pressurised water) when plugged into mobile IP X4 SCHUKO® sockets or connectors do not achieve adequate contacting due to the design and thus they must not be operated with such sockets!
- The same applies for AC adapters and angled right angle plugs < IP X4!

• On the appropriate SCHUKO® sockets or connectors this circumstance is presented with an engraved right angle SCHUKO® plug with IP X4 mark. Before processing, ensure that the SCHUKO® articles at hand correspond to the implementation conditions for which they are intended.

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

The installed data sockets without lid have a degree of protection of IP 20 which is reducing the degree of the whole unit accordingly. IP protection types for enclosures in accordance with IEC 60529, EN 60529, IEC 60529 (VDE 0470 part 1)

1st number of the code:

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

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



By arrangement between manufacturer

test conditions as compared to code 7

and user. Extra severe

Continuous

Water at high

pressure and steam cleaning

immersion

8

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.



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Max. cable dian Terminal for con section (mm²) n

m) ross

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Max. cable diam. (Terminal for cond. section (mm²) min.

nm) tross

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.



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.



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91

_4

0 95 1.5

Terminal for cond. cross

section (mm²) min.-max

91 95 2.5

-6

-6

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



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Dim. in mm

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







Drawing 1 MB 422

Dim. in mm



1 MB 412

1 MB 422

1



Amp.	25	40	80
Pole	3/3+HS	3/3+HS	3/3+HS
Α	170	263	263
В	118	168.5	168.5
с	98	130	130
D	131	161	161

1 MB 421



1 MB 426



Drawing	Amp.	1	16
1 MB 426	Poles	3	
Dim. in mm	а	55	
	b	55	
	c	54	
	d	45	
	e	45	
	f	5.5	
	g.	8	
	q.1	2	
	ĥ	70	
	h1	12	
	k	28	
	1	47	
Terminal for con	d. cross	1.5	
section (mm ²) mi	nmax.	-4	

1 MB 450





1 MB 452

Drawing	Amp.		16			32	1
1 MB 452	Poles	3	4	5	3	4	5
Dim. in mm	а	85	85	85	85	85	85
	b	85	85	85	85	85	85
	c	57	59	60	68	68	72
	d	70	70	70	70	70	70
	e	70	70	70	70	70	70
	f	5.5	5.5	5.5	5.5	5.5	5.5
	9	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	87	91	99	105	105	110
	- i	78	85	96	103	103	110
	k	39	34	33	53	53	41
	I min.	57	64	70	78	78	78
	I max.	78	78	78	78	78	78
Terminal for cond.	cross	1.5	1.5	1.5	2.5	2.5	2.5
section (mm ²) min	max.	-4	-4	-4	10	—10	_10

1 MB 453

1 MB 463





Drawing <u>1 MB 463</u> Dim. in mn

Amp. Poles a b c d e f1 f2 h i M

Terminal for cond. cross section (mm²) min.-max.

95 73.5 93 55.5 61 5.3 139 19.8 W20x 1.5 1.5 93 87.5 107.5 55.5 76 5.3 139 21.5 M25x 1.5 1.5 1.5 --4

92.5 87.5 110 55.5 76 5.3 136.5 21.5 M25x 1.5 1.5

4 102 94 115.5 62 84 5.1 160 26.5 M32x 1.5 2.5 5 102 94 119.5 62 84 5.1 156.5 26.5 M32x 1.5 2.5

102 94 15.5 62 84 5.1 160 26.5 M25x 1.5 2.5

1 MB 456



Terminal for cond. section (mm²) min. oss 1ax.





Drawing	Amp.		16			32	
1 MB 464	Poles	3	4	5	3	4	5
Dim. in mm	а	75	75	75	75	75	75
	b	75	75	75	75	75	75
	c	53	53	54	64	64	64
	d	60	60	60	60	60	60
	e	60	60	60	60	60	60
	f	5.5	5.5	5.5	5.5	5.5	5.5
	g.	8	8	8	8	8	8
	g.1	2	2	2	2	2	2
	h	75	80	85	89	89	95
	h1		5	8	10	10	12
	k	22	22	22	28	28	28
	1	43	52	57	60	60	64
Terminal for con	nd. cross	1.5	1.5	1.5	2.5	2.5	2.5
section (mm ²) minmax.		-4	-4	-4	6	6	-6

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



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🏝 separate pilot cable gland

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.



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AMAXX[®]. Combination units.

Suspendable AMAXX®





AMAXX[®] with 1 segment





Depth dimensions for identical configuration on both sides.

Sockets	IP-degrees	Depth			
SCHUKO® 16 A, 230 V	IP 44	282 mm			
	IP 67	326 mm			
CEE 16 A, 3 p, 230 V	IP 44	342 mm			
	IP 67	350 mm			
CEE 16 A, 5 p, 400 V	IP 44	354 mm			
	IP 67	362 mm			
CEE 32 A, 5 p, 400 V	IP 44	372 mm			
	IP 67	382 mm			

Cable entries: closed for cut out

1 x M 32 on top, 1 x M 25 on top and 1 x M 20 on top

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

· , , · · · · · · · · · · · · · · · · ·						
Sockets	IP-degrees	Depth				
SCHUKO® 16 A, 230 V	IP 44	175 mm				
	IP 67	194 mm				
CEE 16 A, 3 p, 230 V	IP 44	204 mm				
	IP 67	205 mm				
CEE 16 A, 5 p, 400 V	IP 44	209 mm				
	IP 67	213 mm				
CEE 32 A, 5 p, 400 V	IP 44	221 mm				
	IP 67	227 mm				
CEE 63 A, 5 p, 400 V	IP 44	248 mm				
	IP 67	248 mm				

AMAXX[®] with 2 segments



AMAXX[®] with 3 segments



8 175

1 MB 522

165

Cable entries: closed for cut out.

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

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

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

For all enclosures: $2 \times M 20$ on top and bottom for cut out.

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

AMAXX[®]. Coffrets combinés.



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

Sockets	IP-degrees	Depth
SCHUKO® 16 A, 230 V	IP 44	186 mm
	IP 67	208 mm
CEE 16 A, 3 p, 230 V	IP 44	216 mm
	IP 67	220 mm
CEE 16 A, 5 p, 400 V	IP 44	222 mm
	IP 67	226 mm
CEE 32 A, 5 p, 400 V	IP 44	231 mm
	IP 67	236 mm
CEE 63 A, 5 p, 400 V	IP 44	260 mm
	IP 67	260 mm

$\ensuremath{\mathsf{AMAXX}}\xspace^{\ensuremath{\mathsf{@}}}$ with 5 segments



Cable entries: closed for cut out.

quadruple enclosure 520 mm x 225 mm : quintuple enclosure 650 mm x 225 mm : 2 x M 40 on top and bottom

For both enclosures: $2 \times M 20$ on top and bottom for cut out.

AMAXX[®] s with 5 segments



Depth dimensions of the AMAXX® s enclosures

with 5 segments and various fittings.

Sockets	IP-degrees	Depth			
SCHUKO® 16 A, 230 V	IP 44	140 mm			
	IP 67	157 mm			
CEE 16 A, 3 p, 230 V	IP 44	170 mm			
	IP 67	169 mm			
CEE 16 A, 5 p, 400 V	IP 44	172 mm			
	IP 67	174 mm			
CEE 32 A, 5 p, 400 V	IP 44	182 mm			
	IP 67	188 mm			

Cable entries: closed for cut out.

AMAXX® s 650 mm x 112,5 mm: 1 x M 25 each on top and bottom or 1 x M 32 each on top and bottom

 $\label{eq:additionally: 1 x M 20 each on top and bottom to cut out.$

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.



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

5 MB 42



Dimensions: $380 \times 230 \text{ mm}$ Cable entry: $1 \times M$ 40 at the top with threaded cable gland and $1 \times M$ 40 plugged at the top $2 \times M$ 40 plugged at the bottom Space for 12 modules.

5 MB 43



5 MB 44



Drawing 5 MB 44 Dim. in mm Enclosure size: 445 x 135 mm

Enclosure size: 360 x 340 x 330 mm

5 MB 48a



Enclosure size: 300 x 230 x 287.5 mm



www.MENNEKES.com

stud M 8

j^A

b

A

A-A

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.





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245.5

B-B

for part no.

15678 and 15679

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4	31	195A	38	278	32	362	33	524	38	668A	75	825	34
5	38	203A	24	279	32	363	33	525	38	669A	75	826	34
6	38	204A	24	280	32	364	33	526	38	674A	75	827	34
13A	31	205A	24	281	32	365	33	527	38	675A	75	828	34
14A	31	206A	24	282	32	366	33	528	38	676A	75	829	34
15A	38	207A	24	283	32	367	33	529	38	677A	75	830	34
16A	38	208A	24	284	32	368	33	530	38	707A	75	831	34
31	15	209A	24	285	32	371	35	531	38	708A	75	832	34
32	15	210A	24	286	32	372	35	539	39	711	31	833	34
33	31	211A	24	287	32	373	35	540	39	712	31	834	34
34	31	212A	24	288	32	374	35	541	39	713A	75	835	34
35	38	213A	24	289	32	377	35	542	39	714A	75	836	34
36	38	214A	24	290	32	378	35	543	39	715A	75	837	34
100	13	215A	24	291	32	379	35	544	39	716A	75	838	34
101	13	216A	24	292	32	380	35	545	39	717	31	839	34
102	13	217A	24	293	32	381	35	546	39	719	31	840	34
103	13	218A	24	294	32	382	35	547	39	720A	75	843	33
104	13	219A	24	295	32	383	35	548	39	721A	75	844	33
105	13	220A	24	296	32	384	35	549	39	723	31	846	33
106	13	221A	24	297	32	385	35	550	39	725	38	847	33
107	13	222A	24	298	32	386	35	551	39	726A	75	851	90
108	13	223A	24	299	32	389	35	552	39	727A	75	852	90
109	13	224A	24	300	32	390	35	553	39	728A	75	853	34
110	13	225A	24	315	31	391	35	554	39	729A	75	854	37
111	13	226A	24	318	36	392	35	555	39	731	38	855	37
121	38	227A	24	319	36	393	35	556	39	733	71	856	13
122	38	228A	24	321	36	394	35	557	39	734	71	857	23
125	38	229A	24	322	36	395	35	558	39	735	71	858	23
126	38	230A	24	325	36	396	36	559	39	736	71	859	36
127	38	231A	24	327	36	397	36	560	39	737	71	890	31
1284	13	2324	24	328	36	398	35	561	39	738	71	891	31
120/	13	2334	24	329	37	399	35	562	39	739	71	903	24
1304	13	234	24	330	37	400	35	577	73	740	71	905	24
1310	13	235A	24	331	33	401	35	578	73	740	71	907	27
1320	13	235A	24	332	33	402	35	583	73	747	71	913	37
132A	12	230A	24	332	33	403	35	584	73	742	71	973	33
133A	13	237A	24		33	403	35	585	73	743	71	921	33
134A	13	230A	24	335	33	404	35	585	73	744	71	922	31
1354	13	239A	24	336	33	405	35	580	73	745	72	019	31
130A	13	240A	24		22	400	35	590	73	740	72	940	21
137	14	247	21		33	407	35	591	73	747	72	951	24
130	14	240	21		30	410	35	590	73	740	72	952	24
139	14	249	31	339	36	411	35	597	73	749	72	953	31
140	14	250	31	340	33	412	35	598	73	750	72	954	- 31
141	14	251	31	341	33	418	15	599	73	751	72	965	38
142	14	252	31	342	33	419	15	604	74	702	12	9/9	38
143	14	253	31		33	420	15	604	74	761	38	980	38
14/A	31	254	31	344	33	421	15	609	74	763	38	987	25
148A	31,90	255	31	345	33	422	15	610	74	/65	38	988	25
151A	31	256	31	346	33	509	38	611	74	800	33	989	25
152A	31	257	31	347	33	510	38	612	74	801	33	993	38
153A	31	259	31	348	33	511	38	616	/4	802	33	994	38
159	31	260	31	349	33	512	38	617	/4	803	33	996	38
160	31	261	31	352	33	513	38	622	/4	804	33	997	25
163	31	262	31	353	33	514	38	623	74	812	34	998	25
164	31	263	31	354	33	515	38	624	74	813	34	1035	71
165	31	264	31	355	33	516	38	625	74	814	34	1040	71
179A	38	265	31	356	33	517	38	655A	75	815	34	1045	71
180A	38	266	31	357	33	518	38	656A	75	817	34	1050	71
180AC	90	267	31	358	. 33	519	38	661A	75	- 819	34	1055	71
181A	38	268	31	359	33	521	38	662A	75	820	34	1060	71
193A	38	269	31	360	33	522	38	663A	75	821	34	1065	72

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1080	72	1347	15	1472	23	1647	15	1746	25	1857	15	2406	72
1081	24	1348	15	1473	23	1648	15	1747	25	1858	15	2441	38
1082	24	1349	15	1474	24	1649	15	1749	25	1859	15	2459	71
1103	24	1365	23	1475	24	1650	15	1750	15	1860	15	2460	72
1107	33	1366	23	1476	24	1651	15	1751	15	1861	15	2478	37
1107	24	1365	23	1473	24	1657	74	1751	15	1962	15	2470	74
1122A	24	1307	23	1477	24	1057	74	1752	15	1864	15	2400A	20
1123A	24	1304	23	1478	24	1667	25	1753	15	1004	75	2495	20
1124A	24	1385	23	1479	24	1667	25	1754	15	1955	75	2495	38
1125A	24	1386	23	1480	24	1668	25	1755	15	1959	75	2511	37
1126A	24	1388	23	1481	24	1669	25	1/56	15	1961	/5	2517	38
1127A	24	1389	23	1482	24	1671	25	1757	15	1962	75	2617A	74
1128A	24	1390	23	1483	24	1672	25	1786	25	1965	75	2668	33
1131	26	1391	23	1484	24	1673	25	1787	25	1967	75	2674	38
1132	25	1392	23	1485	24	1674	25	1788	25	1968	75	2692	86
1133	25	1393	23	1486	23	1675	25	1789	25	1972	75	2837	74
1134	25	1394	23	1487	23	1676	25	1790	25	1974	75	2841	74
1135	25	1395	23	1489	24	1677	25	1791	25	1975	75	2845	74
1136A	13	1396	23	1490	24	1678	25	1792	25	1978	75	2852	74
1137A	13	1397	23	1491	23	1679	25	1793	25	1980	75	2855	74
1140A	13	1398	23	1492	23	1680	25	1794	25	1981	34	2860	74
1141A	13	1399	23	1493	23	1682	25	1795	25	1982	34	2864	74
1142A	13	1400	23	1494	23	1688	34	1796	25	1983	34	2869	74
1144A	13	1401	23	1495	23	1693	74	1797	25	1984	34	2870	74
1145A	13	1402	23	1496	23	1700	26	1798	25	2000	13	2883	71
1146A	23	1408	34	1497	23	1701	26	1800	25	2007A	13	3004	25
1147A	23	1409	34	1498	23	1702	26	1801	26	2014	31	3008	25
1148A	23	1410	31	1499	23	1703	26	1802	26	2015	31	3028	13
1149A	23	1411	31	1500	23	1704	26	1803	26	2026	38	3030	13
11504	23	1/17	31	1501	24	1705	26	1804	26	2020	38	3031	23
1151A	23	1414	35	1502	24	1706	26	1805	26	2027	85	3032	13
1157A	23	1/15	35	1502	24	1707	20	1805	20	21257	14	3034	13
1152A	23	1419	13	1504	24	1709	20	1800	20	2155	72	3035	13
1153A	23	1410	12	1504	24	1708	20	1909	20	2100	72	2026	13
1154A	23	1419	13	1505	24	1709	20	1808	20	2107	21		12
1155A	23	1420	13	1506	24	1710	20	1809	20	2108			13
1100	25	1421	13	1507	24	1711	20	1810	20	2109	31		13
1167	25	1422	13	1551	24	1/12	26	1811	26	2175B	85	3045	13
1168	26	1423	13	1555	13	1/13	26	1812	26	2177A	86	3046	13
1169	26	1424	13	1556	13	1/14	26	1813	26	2178	31	3048	25
1171	26	1425	13	1557	13	1715	26	1814	26	2179A	24	3049	25
1173	26	1426	13	1567	24	1716	26	1815	26	2180A	24	3054	23
1216	33	1427	13	1568	24	1717	26	1816	26	2181A	24	3055	23
1217	33	1428	13	1579	74	1719	15	1817	26	2199	13	3057	23
1247A	23	1436	35	1594	74	1720	15	1818	26	2189	31	3059	23
1248A	23	1437	35	1595	74	1721	15	1819	26	2193	38	3060	23
1249A	23	1438	38,90	1602	74	1723	15	1820	26	2195	31	3070	25
1252A	23	1455	24	1603	74	1724	15	1823	74	2196	38	3072	23
1260A	23	1456	24	1618	25	1725	15	1825	73	2212	71	3074	23
1261A	23	1457	24	1619	25	1726	15	1829	73	2213	72	3093	23
1263A	24	1458	24	1631	25	1727	15	1831	73	2241	13	3110	23
1264A	24	1459	24	1632	25	1730	15	1832	73	2243	31	3112	23
1265A	24	1460	24	1633	25	1733	25	1835	73	2244	31	3114	23
1270	74	1461	24	1635	25	1734	25	1837	73	2245	38	3124	25
1271	74	1462	23	1636	25	1735	25	1838	73	2255	72	3126	25
1272	74	1463	23	1637	25	1737	25	1842	73	2271	31	3134	13
1273	74	1464	23	1638	25	1738	25	1844	73	2296	71	3136	23
1340	15	1465	23	1639	25	1739	25	1845	73	2317	71	3137	23
1341	15,90	1466	23	1640	25	1740	25	1848	73	2324	72	3139	13
1342	15	1467	23	1641	25	1741	25	1850	73	2341	31	3140	23
1343	15	1468	23	1642	25	1742	25	1851	15	2359	3.3	3141	1.3
1344	15	1469	23	1643	25	1743	25	1852	15	2386	33	3149	1.3

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3155	25	3523	37	3887	39	4233	22	5691AM	21	7293ZA	18	7634	17
3157	25	3524	24	3888	39	4254	22	5692A	17	7294	18	7635	17
3171	25	3527	35	3891	39	4258	22	5692AM	21	7295	18	7636	17
3186	23	3528	35	3896	39	4259	22	5696A	16	7296	18	8001	90
3187	23	3566	26	3897	39	4300	80	5743A	16	7306	71	8008	90
3188	23	3573	26	3898	39	4302	80	5759A	16	7307	71	9104	15
3189	23	3575	24	3899	39	4304	80	5792A	85	7312	18	9105	15
3190	23	3581	26	3905	39	4320	80	5793A	16	7313	18	9106	15
3191	23	3583	34	3907	39	4322	80	5887A	17	7356	18	9120	15
3192	23	3587	26	3909	39	4324	80	5888A	17	7386	20	9121	15
3193	23	3590	26	3913	72	4326	80	5911A	16	7388	16	9122	15
3197	24	3600	34	3914	72	4340	80	5924A	16	7392	20	9123	15
3200	24	3646	31	3915	72	4342	80	5925A	16	7393UK	20	9124	15
3201	23	3656	34	3916	72	4344	80	5946A	85	7394	18	9125	15
3202	23	3657	34	3917	35	4345	80	5955A	16	7434	20	9140	15
3231	35	3658	34	3980	31	4350	80	5956A	16	7469	18	9141	15
3232	35	3665	34	3981	31	4352	80	5957A	16	7470UK	20	9142	15
3254	24	3704	34	3982	31	4354	80	5959A	16	7502	27	9150	15
3256	24	3717	37	3983	31	4360	80	6571	16	7503	27	9151	15
3266	31	3718	85	3987	31	4362	80	7000	17	7504	27	9152	15
3283	24	3773	14	3999	39	4364	80	7000AM	21	7505	27	9170	15
3290	74	3774	14	4101	22	4365	80	7002A	16	7506	27	9171	15
3306	31	3775	71	4102	22	4366	80	7010A	16	7507	27	9172	15
3312	31	3776	72	4103	22	4367	80	7011A	16	7511	27	9173	15
3319A	36	3777	72	4104	22	4370	80	7012A	16	7512	27	9174	15
3322	36	3778	39	4105	22	4372	80	7051ZC	18	7513	27	9175	15
3331	15	3779	72	4106	22	4374	80	7060	17	7514	27	9180	15
3338	36	3780	72	4107	22	4375	80	7123	18	7515	27	9181	15
3339	36	3781	72	4108	22	4377	80	7124	18	7516	27	9182	15
3340	36	3782	72	4110	22	4378	80	7125	18	7520	27	9300	13
3341	36	3783	72	4111	22	4379	80	7126	18	7521	27	9301	13
3342	37	3784	72	4112	22	5099A	16	7127	18	7523	27	9302	13
3343	37	3794	32	4113	22	5100A	16	7148	18	7524	27	9320	13
3345	37	3796	32	4114	22	5101A	16	7149	18	7525	27	9321	13
3346	37	3799	32	4115	22	5102A	16	7150	18	7526	27	9322	13
3347	37	3807	32	4116	22	5103A	16	7151	18	7530	27	9323	13
3348	37	3809	32	4117	22	5104A	16	7152	18	7531	27	9325	13
3350	37	3810	32	4118	22	5105A	16	7245UK	20	7533	27	9340	13
3355	37	3811	32	4119	22	5106A	16	7246UK	20	7534	27	9341	13
3356	37	3819	32	4120	22	5107A	16	721001	20	7535	27	9342	13
3357	37	3821	32	4121	22	51084	16	7248116	20	7536	27	9350	13
3367	37	3823	32	4122	22	51094	16	721001	20	7602	16	9351	13
3368	37	3829	32		22	51104	16	7250	20	7603	16	0352	12
3380	24	3830	32	4123	22	5111A	16	7250	20	7603	16	9352	13
3385	27	3832	32	4124	22	5112A	16	7251	20	7605	16	9370	13
3413	34	3839	32	4125	22	5113A	16	7252	20	7605	16	0372	13
3420	35	38/1	32	4120	22	5115A	16	7255	20	7600	16	0272	12
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3451	23	3853	32	4133	22	2222A	10	7258	20	7014	10	9382	13
3452	23	3855	32	4135	22	SOUUA	10	7260	20	7015	10	9530	
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10833	68	13209	32	20458	88	24970	89	75041	77	94553	55	923277	19
10837	60	13208	32	20458	00	24970	0.5	75041	77	94555	55	022206	10
10838	60	13209	32	20459	00	24973	09	75046	77	94559	55	923296	19
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