

 **MENNEKES®**

Plugs for the world

# Industrial plugs and sockets



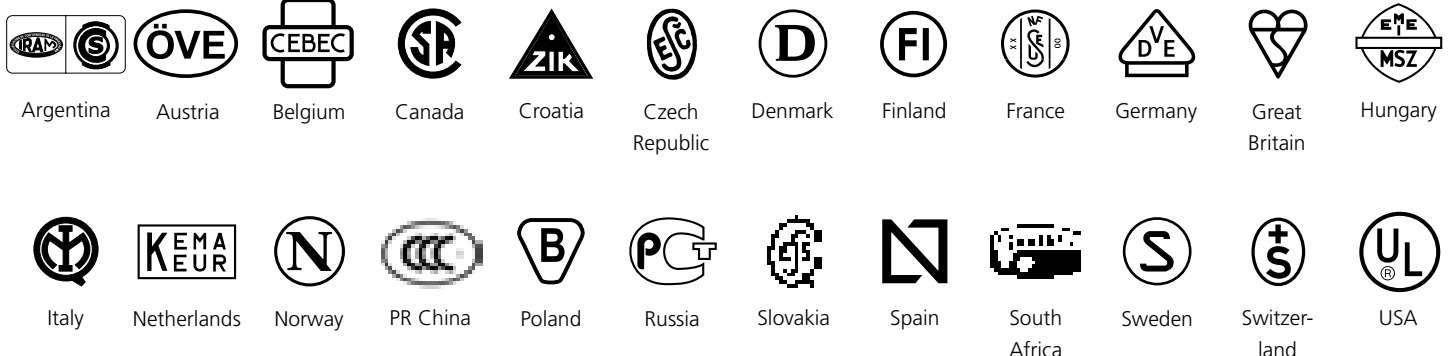
International  
Edition

# Global focus

Well known internationally and certified.



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



# Family business

MENNEKES is a family-run business - like most of our customers' companies.

Perhaps this is also the reason behind our legendary customer focus. At MENNEKES, an 800-strong global workforce produces plugs and sockets for international markets. From its headquarters in Kirchhundem and its Neudorf plant in the Erzgebirge. In addition, a production plant in Nanjing supplies the Chinese market exclusively.



Neudorf plant



Nanjing plant (to serve the Chinese market)



Kirchhundem headquarters

When a MENNEKES product leaves our works, it has already survived the harshest testing. In our test lab it is exposed to cold, heat, dust and water over and over again. Only the products that withstand these tests are worthy of the name MENNEKES. All our products are of course certified to national and international standards by renowned institutions.



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

# CEE receptacles 16A up to 125A

63A: SoftCONTACT, 125A: TorsionSpringCONTACT

Other voltages and frequencies available on request.

## Wall mounted receptacles



▲ IP 44

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 1177 | <b>1178</b> | —           |
| 16 | 4 | —    | 1267        | <b>1268</b> |
| 16 | 5 | —    | —           | <b>1</b>    |
| 32 | 3 | 1368 | <b>1369</b> | —           |
| 32 | 4 | 1371 | 1372        | <b>1373</b> |
| 32 | 5 | —    | —           | <b>2</b>    |

## Wall mounted receptacles



▲ IP 44

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | —    | —           | —           |
| 16 | 4 | 3030 | 3034        | <b>1418</b> |
| 16 | 5 | 3041 | 3045        | <b>1419</b> |
| 32 | 3 | 1420 | <b>1421</b> | 1422        |
| 32 | 4 | 1423 | 1424        | <b>1425</b> |
| 32 | 5 | 1555 | 1556        | <b>1557</b> |

## Wall mounted receptacles



▲▲ IP 67

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 1193 | <b>1192</b> | 1211        |
| 16 | 4 | 1194 | 1195        | <b>1196</b> |
| 16 | 5 | 1198 | 1199        | <b>1200</b> |
| 32 | 3 | 1201 | <b>1202</b> | 1203        |
| 32 | 4 | 1204 | 1205        | <b>1206</b> |
| 32 | 5 | 1208 | 1209        | <b>1210</b> |

## Wall mounted receptacles

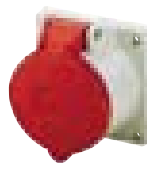


▲▲ IP 67

| A   | P | 110V | 230V | 400V       |
|-----|---|------|------|------------|
| 63  | 3 | —    | —    | —          |
| 63  | 4 | —    | —    | —          |
| 63  | 5 | —    | —    | —          |
| 125 | 3 | —    | —    | —          |
| 125 | 4 | 137  | 138  | <b>139</b> |
| 125 | 5 | 141  | 142  | <b>143</b> |

## Panel mounted receptacles

straight



▲ IP 44

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 1365 | <b>1366</b> | 1367        |
| 16 | 4 | 1388 | 1389        | <b>1390</b> |
| 16 | 5 | 1384 | 1386        | <b>1385</b> |
| 32 | 3 | 1394 | <b>1395</b> | 1396        |
| 32 | 4 | 1397 | 1398        | <b>1399</b> |
| 32 | 5 | 3449 | 3454        | <b>3451</b> |

## Panel mounted receptacles

angled 20°



▲ IP 44

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 1462 | <b>1463</b> | 1464        |
| 16 | 4 | 1465 | 1466        | <b>1467</b> |
| 16 | 5 | 1471 | 1472        | <b>1473</b> |
| 32 | 3 | 1491 | <b>1492</b> | 1493        |
| 32 | 4 | 1494 | 1495        | <b>1496</b> |
| 32 | 5 | 1498 | 1499        | <b>1500</b> |

## Panel mounted receptacles

angled 20°



▲ IP 44

| A   | P | 110V | 230V        | 400V        |
|-----|---|------|-------------|-------------|
| 63  | 3 | 1260 | <b>1261</b> | 1262        |
| 63  | 4 | 1246 | 1247        | <b>1248</b> |
| 63  | 5 | 1250 | 1251        | <b>1552</b> |
| 125 | 3 | —    | —           | —           |
| 125 | 4 | —    | —           | —           |
| 125 | 5 | —    | —           | —           |

## Panel mounted receptacles

angled 20°



▲ IP 44

| A   | P | 110V | 230V        | 400V        |
|-----|---|------|-------------|-------------|
| 63  | 3 | 1146 | <b>1147</b> | 1148        |
| 63  | 4 | 1149 | 1150        | <b>1151</b> |
| 63  | 5 | 1153 | 1154        | <b>1155</b> |
| 125 | 3 | —    | —           | —           |
| 125 | 4 | —    | —           | —           |
| 125 | 5 | —    | —           | —           |

## Panel mounted receptacles with standard flange dimensions



▲ IP 44

angled 20°,  
flange:  
85 x 85 mm,  
fixing hole spacing:  
70 x 70 mm

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 3031 | <b>3036</b> | —           |
| 16 | 4 | —    | —           | <b>3072</b> |
| 16 | 5 | —    | —           | <b>3093</b> |
| 32 | 3 | 3110 | <b>3112</b> | —           |
| 32 | 4 | —    | —           | <b>3136</b> |
| 32 | 5 | —    | —           | <b>3153</b> |

## Wall mounted receptacles



▲ IP 44

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 100  | <b>101</b> | 102        |
| 16 | 4 | 103  | 104        | <b>105</b> |
| 16 | 5 | 109  | 110        | <b>111</b> |
| 32 | 3 | —    | —          | —          |
| 32 | 4 | —    | —          | —          |
| 32 | 5 | —    | —          | —          |

## Wall mounted receptacles



▲ IP 44

| A   | P | 110V | 230V        | 400V        |
|-----|---|------|-------------|-------------|
| 63  | 3 | 1136 | <b>1137</b> | 1138        |
| 63  | 4 | 1139 | 1140        | <b>1141</b> |
| 63  | 5 | 1143 | 1144        | <b>1145</b> |
| 125 | 3 | —    | —           | —           |
| 125 | 4 | —    | —           | —           |
| 125 | 5 | —    | —           | —           |

## Wall mounted receptacles



▲▲ IP 67

| A   | P | 110V | 230V       | 400V       |
|-----|---|------|------------|------------|
| 63  | 3 | 856  | <b>128</b> | 129        |
| 63  | 4 | 130  | 131        | <b>132</b> |
| 63  | 5 | 134  | 135        | <b>136</b> |
| 125 | 3 | —    | —          | —          |
| 125 | 4 | —    | —          | —          |
| 125 | 5 | —    | —          | —          |

## Wall mounted receptacles



▲▲ IP 67

with large  
space for  
accommodating  
wiring

| A   | P | 110V | 230V        | 400V |
|-----|---|------|-------------|------|
| 63  | 3 | —    | —           | —    |
| 63  | 4 | —    | —           | —    |
| 63  | 5 | —    | —           | —    |
| 125 | 3 | —    | —           | —    |
| 125 | 4 | —    | —           | —    |
| 125 | 5 | —    | <b>2162</b> | —    |

## Panel mounted receptacles

straight



▲▲ IP 67

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 217  | <b>218</b> | 219        |
| 16 | 4 | 220  | 221        | <b>222</b> |
| 16 | 5 | 226  | 227        | <b>228</b> |
| 32 | 3 | 229  | <b>230</b> | 231        |
| 32 | 4 | 232  | 233        | <b>234</b> |
| 32 | 5 | 238  | 239        | <b>240</b> |

## Panel mounted receptacles

angled 20°



▲▲ IP 67

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 1474 | <b>1475</b> | 1476        |
| 16 | 4 | 1477 | 1478        | <b>1479</b> |
| 16 | 5 | 1483 | 1484        | <b>1485</b> |
| 32 | 3 | 1501 | <b>1502</b> | 1503        |
| 32 | 4 | 1504 | 1505        | <b>1506</b> |
| 32 | 5 | 1489 | 1490        | <b>1551</b> |

## Panel mounted receptacles

angled 20°



▲▲ IP 67

| A   | P | 110V | 230V        | 400V        |
|-----|---|------|-------------|-------------|
| 63  | 3 | 1263 | <b>1264</b> | 1265        |
| 63  | 4 | 1122 | 1123        | <b>1124</b> |
| 63  | 5 | 1126 | 1127        | <b>1128</b> |
| 125 | 3 | —    | <b>3380</b> | —           |
| 125 | 4 | 1455 | 1456        | <b>1457</b> |
| 125 | 5 | 1459 | 1460        | <b>1461</b> |

## Panel mounted receptacles

angled 20°



▲▲ IP 67

| A   | P | 110V | 230V        | 400V       |
|-----|---|------|-------------|------------|
| 63  | 3 | 2179 | <b>2180</b> | 2181       |
| 63  | 4 | 203  | 204         | <b>205</b> |
| 63  | 5 | 207  | 208         | <b>209</b> |
| 125 | 3 | —    | <b>3575</b> | —          |
| 125 | 4 | 210  | 211         | <b>212</b> |
| 125 | 5 | 214  | 215         | <b>216</b> |

## Panel mounted receptacles with standard flange dimensions



▲▲ IP 67


angled 20°,  
flange:  
85 x 85 mm,  
fixing hole spacing:  
70 x 70 mm

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 903  | 905         | —           |
| 16 | 4 | —    | —           | <b>1081</b> |
| 16 | 5 | —    | —           | <b>1103</b> |
| 32 | 3 | 3197 | <b>3200</b> | —           |
| 32 | 4 | —    | —           | <b>3254</b> |
| 32 | 5 | —    | —           | <b>3524</b> |

# CEE receptacles 16A and 32A, screwless connection technique

Other voltages and frequencies available on request.

**Wall mounted receptacles with TwinCONTACT**




screwless spring terminals

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 1340 | <b>1341</b> | —           |
| 16 | 4 | —    | 1342        | <b>1343</b> |
| 16 | 5 | —    | —           | <b>31</b>   |
| 32 | 3 | 1345 | <b>1346</b> | —           |
| 32 | 4 | —    | 1347        | <b>1348</b> |
| 32 | 5 | —    | —           | <b>32</b>   |

▲ IP 44

**Wall mounted receptacles with TwinCONTACT**




screwless spring terminals

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 1719 | <b>1720</b> | 1721        |
| 16 | 4 | —    | 1723        | <b>1724</b> |
| 16 | 5 | —    | 1730        | <b>3331</b> |
| 32 | 3 | —    | —           | —           |
| 32 | 4 | —    | —           | —           |
| 32 | 5 | —    | —           | —           |

▲ IP 44

**Wall mounted receptacles with TwinCONTACT**




screwless spring terminals

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | —    | —          | —          |
| 16 | 4 | 1750 | 1751       | <b>418</b> |
| 16 | 5 | 1755 | 1756       | <b>419</b> |
| 32 | 3 | 1851 | <b>420</b> | 1852       |
| 32 | 4 | 1855 | 1856       | <b>421</b> |
| 32 | 5 | 1860 | 1861       | <b>422</b> |

▲ IP 44

**Wall mounted receptacles with TwinCONTACT**




screwless spring terminals

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 1867 | <b>241</b> | 1868       |
| 16 | 4 | 1870 | 1871       | <b>242</b> |
| 16 | 5 | 1875 | 1876       | <b>200</b> |
| 32 | 3 | 1877 | <b>243</b> | 1878       |
| 32 | 4 | 1879 | 1880       | <b>244</b> |
| 32 | 5 | 1884 | 1885       | <b>245</b> |

▲▲ IP 67

**Panel mounted receptacles with TwinCONTACT**




screwless spring terminals, straight

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

▲ IP 44

**Panel mounted receptacles with TwinCONTACT**




screwless spring terminals, straight

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

▲▲ IP 67

**Panel mounted receptacles with TwinCONTACT**




screwless spring terminals, angled 20°

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

▲ IP 44

**Panel mounted receptacles with TwinCONTACT**




screwless spring terminals, angled 20°

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 1700 | <b>1701</b> | 1702        |
| 16 | 4 | —    | 1703        | <b>1704</b> |
| 16 | 5 | —    | —           | <b>3485</b> |
| 32 | 3 | 1801 | <b>1802</b> | 1803        |
| 32 | 4 | —    | 1804        | <b>1805</b> |
| 32 | 5 | —    | —           | <b>1808</b> |

▲▲ IP 67

**Panel mounted receptacles RAPIDO® with TwinCONTACT**

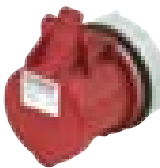


screwless spring terminals, central fixing, 61 mm Ø mounting hole

| A  | P | 110V | 230V       | 400V |
|----|---|------|------------|------|
| 16 | 3 | 1132 | <b>997</b> | —    |
| 16 | 4 | —    | —          | —    |
| 16 | 5 | —    | —          | —    |
| 32 | 3 | —    | —          | —    |
| 32 | 4 | —    | —          | —    |
| 32 | 5 | —    | —          | —    |

▲ IP 44

**Panel mounted receptacles RAPIDO® with TwinCONTACT**



screwless spring terminals, central fixing, 70 mm Ø mounting hole

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | —    | —          | —          |
| 16 | 4 | —    | 1133       | <b>998</b> |
| 16 | 5 | —    | —          | <b>907</b> |
| 32 | 3 | 1135 | <b>987</b> | —          |
| 32 | 4 | —    | 1166       | <b>988</b> |
| 32 | 5 | —    | —          | <b>989</b> |

▲ IP 44

## TwinCONTACT Screwless connection technique

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



## RAPIDO®

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

16A, 3p:

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

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

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



# CEE plugs and inlets 16A up to 125A

Other voltages and frequencies available on request.

## Plugs AM-TOP®



single part  
body, screw  
terminals

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 247  | <b>248</b> | 249        |
| 16 | 4 | 250  | 251        | <b>252</b> |
| 16 | 5 | 256  | 257        | <b>3</b>   |
| 32 | 3 | 259  | <b>260</b> | 261        |
| 32 | 4 | 262  | 263        | <b>264</b> |
| 32 | 5 | 268  | 269        | <b>4</b>   |

▲ IP 44

## Plugs StarTOP® with SafeCONTACT



screwless with  
insulation  
displacement  
technique

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 947  | <b>948</b> | —          |
| 16 | 4 | —    | 951        | <b>952</b> |
| 16 | 5 | —    | —          | <b>33</b>  |
| 32 | 3 | 711  | <b>712</b> | —          |
| 32 | 4 | —    | 717        | <b>719</b> |
| 32 | 5 | —    | —          | <b>34</b>  |

▲ IP 44

## Plugs AM-TOP®



single part  
body, screw  
terminals

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 277  | <b>278</b> | 279        |
| 16 | 4 | 280  | 281        | <b>282</b> |
| 16 | 5 | 286  | 287        | <b>288</b> |
| 32 | 3 | 289  | <b>290</b> | 291        |
| 32 | 4 | 292  | 293        | <b>294</b> |
| 32 | 5 | 298  | 299        | <b>300</b> |

▲▲ IP 67

## Plugs PowerTOP Xtra



with rubberised  
grip area,  
for toughest  
conditions

| A   | P | 110V  | 230V         | 400V         |
|-----|---|-------|--------------|--------------|
| 63  | 3 | 13201 | <b>13202</b> | 13203        |
| 63  | 4 | 13204 | 13205        | <b>13206</b> |
| 63  | 5 | 13210 | 13211        | <b>13212</b> |
| 125 | 3 | 13215 | <b>13216</b> | —            |
| 125 | 4 | 13217 | 13218        | <b>13219</b> |
| 125 | 5 | 13223 | 13224        | <b>13225</b> |

▲▲ IP 67

## Panel mounted inlets RAPIDO®



with screw  
terminals,  
central fixing,  
61 mm Ø  
mounting hole

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 919  | <b>924</b> | —          |
| 16 | 4 | —    | —          | <b>931</b> |
| 16 | 5 | —    | —          | <b>949</b> |
| 32 | 3 | —    | —          | —          |
| 32 | 4 | —    | —          | —          |
| 32 | 5 | —    | —          | —          |

▲ IP 44

## Wall mounted appliance inlets



with screw  
terminals,  
central fixing,  
61 mm Ø  
mounting hole

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 843  | <b>844</b> | —          |
| 16 | 4 | —    | —          | <b>800</b> |
| 16 | 5 | —    | —          | <b>801</b> |
| 32 | 3 | —    | <b>802</b> | —          |
| 32 | 4 | —    | —          | <b>803</b> |
| 32 | 5 | —    | —          | <b>804</b> |

▲ IP 44

## Panel mounted appliance inlets



with hinged lid

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | —    | —          | —          |
| 16 | 4 | 392  | 393        | <b>394</b> |
| 16 | 5 | 398  | 399        | <b>400</b> |
| 32 | 3 | 401  | <b>402</b> | 403        |
| 32 | 4 | 404  | 405        | <b>406</b> |
| 32 | 5 | 410  | 411        | <b>412</b> |

▲ IP 44

## Panel mounted inlets



with screw  
terminals,  
central fixing,  
61 mm Ø  
mounting hole

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 810  | <b>812</b> | —          |
| 16 | 4 | —    | 837        | <b>813</b> |
| 16 | 5 | —    | —          | <b>815</b> |
| 32 | 3 | 816  | <b>817</b> | —          |
| 32 | 4 | —    | 838        | <b>819</b> |
| 32 | 5 | —    | —          | <b>821</b> |

▲ IP 44

## Panel mounted inlets



with screw  
terminals,  
central fixing,  
61 mm Ø  
mounting hole

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 825  | <b>826</b> | —          |
| 16 | 4 | —    | 839        | <b>827</b> |
| 16 | 5 | —    | —          | <b>829</b> |
| 32 | 3 | 830  | <b>831</b> | —          |
| 32 | 4 | —    | 840        | <b>832</b> |
| 32 | 5 | —    | —          | <b>834</b> |

▲▲ IP 67

## Plugs ProTOP



split body,  
screw  
terminals

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 147  | <b>148</b> | 149        |
| 16 | 4 | —    | 151        | <b>152</b> |
| 16 | 5 | —    | —          | <b>13</b>  |
| 32 | 3 | 159  | <b>160</b> | —          |
| 32 | 4 | —    | 163        | <b>164</b> |
| 32 | 5 | —    | —          | <b>14</b>  |

▲ IP 44

## Plugs PowerTOP Xtra



with rubberised  
grip area,  
for toughest  
conditions

| A   | P | 110V  | 230V         | 400V         |
|-----|---|-------|--------------|--------------|
| 63  | 3 | 13101 | <b>13102</b> | —            |
| 63  | 4 | —     | 13105        | <b>13106</b> |
| 63  | 5 | —     | 13111        | <b>13112</b> |
| 125 | 3 | —     | —            | —            |
| 125 | 4 | —     | —            | —            |
| 125 | 5 | —     | —            | —            |

▲ IP 44

## Plugs PowerTOP



with external  
strain relief

| A  | P | 110V | 230V        | 400V        |
|----|---|------|-------------|-------------|
| 16 | 3 | 3794 | <b>3796</b> | 3799        |
| 16 | 4 | 3807 | 3811        | <b>3809</b> |
| 16 | 5 | 3819 | 3823        | <b>3821</b> |
| 32 | 3 | 3829 | <b>3830</b> | 3832        |
| 32 | 4 | 3839 | 3844        | <b>3841</b> |
| 32 | 5 | 3851 | 3855        | <b>3853</b> |

▲▲ IP 67

## Angled plugs

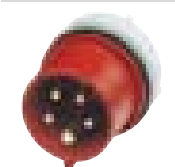


\*VarioTOP

| A  | P | 110V | 230V        | 400V         |
|----|---|------|-------------|--------------|
| 16 | 3 | 1410 | <b>1411</b> | —            |
| 16 | 4 | —    | 891         | <b>315</b>   |
| 16 | 5 | 3312 | 3981*       | <b>3980*</b> |
| 32 | 3 | —    | —           | <b>3306</b>  |
| 32 | 4 | —    | 3646        | <b>3987</b>  |
| 32 | 5 | —    | 3424        | <b>3266</b>  |

▲ IP 44

## Panel mounted inlets RAPIDO®

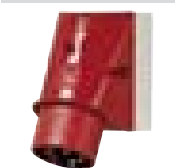


with screw  
terminals,  
central fixing,  
70 mm Ø  
mounting hole

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | —    | —          | —          |
| 16 | 4 | —    | 932        | <b>933</b> |
| 16 | 5 | —    | —          | <b>972</b> |
| 32 | 3 | 935  | <b>938</b> | —          |
| 32 | 4 | —    | 939        | <b>942</b> |
| 32 | 5 | —    | —          | <b>945</b> |

▲ IP 44

## Wall mounted appliance inlets



with screw  
terminals,  
central fixing,  
61 mm Ø  
mounting hole

| A  | P | 110V | 230V       | 400V       |
|----|---|------|------------|------------|
| 16 | 3 | 331  | <b>332</b> | 333        |
| 16 | 4 | 334  | 335        | <b>336</b> |
| 16 | 5 | 340  | 341        | <b>342</b> |
| 32 | 3 | 343  | <b>344</b> | 345        |
| 32 | 4 | 346  | 347        | <b>348</b> |
| 32 | 5 | 352  | 353        | <b>354</b> |

▲ IP 44

## Wall mounted appliance inlets

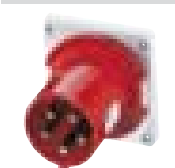


with screw  
terminals,  
central fixing,  
61 mm Ø  
mounting hole

| A   | P | 110V | 230V        | 400V       |
|-----|---|------|-------------|------------|
| 63  | 3 | 1216 | <b>1107</b> | 1217       |
| 63  | 4 | 355  | 356         | <b>357</b> |
| 63  | 5 | 359  | 360         | <b>361</b> |
| 125 | 3 | —    | —           | —          |
| 125 | 4 | 362  | 363         | <b>364</b> |
| 125 | 5 | 366  | 367         | <b>368</b> |

▲▲ IP 67

## Panel mounted inlets



with screw  
terminals,  
central fixing,  
61 mm Ø  
mounting hole

| A   | P | 110V | 230V        | 400V        |
|-----|---|------|-------------|-------------|
| 63  | 3 | 822  | <b>1981</b> | —           |
| 63  | 4 | —    | 1984        | <b>1982</b> |
| 63  | 5 | —    | —           | <b>1688</b> |
| 125 | 3 | —    | —           | —           |
| 125 | 4 | —    | —           | —           |
| 125 | 5 | —    | —           | —           |

▲ IP 44

## Panel mounted inlets



with screw  
terminals,  
central fixing,  
61 mm Ø  
mounting hole

| A   | P | 110V | 230V       | 400V        |
|-----|---|------|------------|-------------|
| 63  | 3 | 835  | <b>836</b> | —           |
| 63  | 4 | —    | 3704       | <b>3656</b> |
| 63  | 5 | —    | —          | <b>3658</b> |
| 125 | 3 | —    | 3665       | —           |
| 125 | 4 | —    | 3413       | <b>3583</b> |
| 125 | 5 | —    | —          | <b>1983</b> |

▲▲ IP 67

# CEE connectors 16A up to 125A

63A: SoftCONTACT, 125A: TorsionSpringCONTACT

Other voltages and frequencies available on request.



Plugs for the world

**Connectors AM-TOP®**

single part body, screw terminals

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 509  | 510  | 511  |
| 16 | 4 | 512  | 513  | 514  |
| 16 | 5 | 518  | 519  | 5    |
| 32 | 3 | 521  | 522  | 523  |
| 32 | 4 | 524  | 525  | 526  |
| 32 | 5 | 530  | 531  | 6    |

▲ IP 44

**Connectors ProTOP**

split body, screw terminals

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 179  | 180  | 181  |
| 16 | 4 | —    | 193  | 194  |
| 16 | 5 | —    | —    | 15   |
| 32 | 3 | 121  | 122  | —    |
| 32 | 4 | —    | 125  | 126  |
| 32 | 5 | —    | —    | 16   |

▲ IP 44

**Connectors StarTOP® with SafeCONTACT**

screwless with insulation displacement technique

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 979  | 980  | —    |
| 16 | 4 | —    | 993  | 994  |
| 16 | 5 | —    | —    | 35   |
| 32 | 3 | 725  | 731  | —    |
| 32 | 4 | —    | 761  | 763  |
| 32 | 5 | —    | —    | 36   |

▲ IP 44

**Connectors PowerTOP Xtra**

with rubberised grip area, for toughest conditions

| A   | P | 110V  | 230V  | 400V  |
|-----|---|-------|-------|-------|
| 63  | 3 | 14101 | 14102 | —     |
| 63  | 4 | —     | 14105 | 14106 |
| 63  | 5 | —     | 14111 | 14112 |
| 125 | 3 | —     | —     | —     |
| 125 | 4 | —     | —     | —     |
| 125 | 5 | —     | —     | —     |

▲ IP 44

**Connectors AM-TOP®**

single part body, screw terminals

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 539  | 540  | 541  |
| 16 | 4 | 542  | 543  | 544  |
| 16 | 5 | 548  | 549  | 550  |
| 32 | 3 | 551  | 552  | 553  |
| 32 | 4 | 554  | 555  | 556  |
| 32 | 5 | 560  | 561  | 562  |

▲ IP 67

**Connectors PowerTOP**

with external strain relief

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 3859 | 3860 | 3862 |
| 16 | 4 | 3869 | 3873 | 3871 |
| 16 | 5 | 3879 | 3883 | 3881 |
| 32 | 3 | 3887 | 3888 | 3891 |
| 32 | 4 | 3896 | 3899 | 3897 |
| 32 | 5 | 3905 | 3909 | 3907 |

▲ IP 67

**Connectors PowerTOP Xtra**

with rubberised grip area, for toughest conditions

| A   | P | 110V  | 230V  | 400V  |
|-----|---|-------|-------|-------|
| 63  | 3 | 14201 | 14202 | 14203 |
| 63  | 4 | 14204 | 14205 | 14206 |
| 63  | 5 | 14210 | 14211 | 14212 |
| 125 | 3 | 14215 | 14216 | —     |
| 125 | 4 | 14217 | 14218 | 14219 |
| 125 | 5 | 14223 | 14224 | 14225 |

▲ IP 67

**Angled connector**

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | 1438 | —    |
| 16 | 4 | —    | —    | —    |
| 16 | 5 | —    | —    | —    |
| 32 | 3 | —    | —    | —    |
| 32 | 4 | —    | —    | —    |
| 32 | 5 | —    | —    | —    |

▲ IP 44

## PowerTOP Xtra



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

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

SoftCONTACT



TorsionSpringCONTACT



## StarTOP®



with SafeCONTACT, screwless with insulation displacement technique, cable gland with sealing, strain relief and protection against kinking, 2-part enclosure with thread and locking slider.




# CEE receptacles switched, interlocked, 16A up to 125A

63A: SoftCONTACT, 125A: TorsionSpringCONTACT. CEE receptacles with DUO-interlock can be padlocked.

Other voltages and frequencies available on request.


**Wall mounted receptacles with mechanical DUO-interlock**



| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 7010 | 7002 | —    |
| 16 | 4 | 5457 | 5099 | 5100 |
| 16 | 5 | 5459 | 5102 | 5103 |
| 32 | 3 | 5743 | 5696 | —    |
| 32 | 4 | 5460 | 5104 | 5105 |
| 32 | 5 | 5462 | 5107 | 5108 |

▲ IP 44


**Wall mounted receptacles with mechanical DUO-interlock**



| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 7011 | 7012 | —    |
| 16 | 4 | —    | 5599 | 5600 |
| 16 | 5 | —    | 5602 | 5603 |
| 32 | 3 | 5924 | 5793 | —    |
| 32 | 4 | —    | 5604 | 5605 |
| 32 | 5 | —    | 5607 | 5608 |

▲▲ IP 67


**Wall mounted receptacles with mechanical DUO-interlock**



| A   | P | 110V | 230V | 400V |
|-----|---|------|------|------|
| 63  | 3 | 6569 | 6571 | —    |
| 63  | 4 | —    | 5955 | 5956 |
| 63  | 5 | —    | —    | 5959 |
| 125 | 3 | —    | —    | —    |
| 125 | 4 | —    | —    | —    |
| 125 | 5 | —    | —    | —    |

▲ IP 44


**Wall mounted receptacles with mechanical DUO-interlock**



| A   | P | 110V | 230V | 400V |
|-----|---|------|------|------|
| 63  | 3 | 5925 | 5911 | —    |
| 63  | 4 | —    | 5109 | 5110 |
| 63  | 5 | —    | 5112 | 5113 |
| 125 | 3 | 7060 | 7000 | —    |
| 125 | 4 | —    | 5887 | 5691 |
| 125 | 5 | —    | 5888 | 5692 |

▲▲ IP 67


**Wall mounted receptacles with mechanical DUO-interlock**



| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 7602 | 7603 | —    |
| 16 | 4 | —    | 7604 | 7605 |
| 16 | 5 | —    | —    | 7607 |
| 32 | 3 | 7611 | 7612 | —    |
| 32 | 4 | —    | 7613 | 7614 |
| 32 | 5 | —    | —    | 7616 |

▲ IP 44

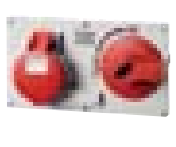
**Wall mounted receptacles with mechanical DUO-interlock**



| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 7620 | 7621 | —    |
| 16 | 4 | —    | 7623 | 7624 |
| 16 | 5 | —    | —    | 7626 |
| 32 | 3 | 7628 | 7629 | —    |
| 32 | 4 | —    | 7633 | 7634 |
| 32 | 5 | —    | —    | 7636 |

▲▲ IP 67


**Panel mounted receptacles with mechanical DUO-interlock**



| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 7502 | 7503 | —    |
| 16 | 4 | —    | 7504 | 7505 |
| 16 | 5 | —    | —    | 7507 |
| 32 | 3 | 7511 | 7512 | —    |
| 32 | 4 | —    | 7513 | 7514 |
| 32 | 5 | —    | —    | 7516 |

▲ IP 44


**Panel mounted receptacles with mechanical DUO-interlock**



| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | 7520 | 7521 | —    |
| 16 | 4 | —    | 7523 | 7524 |
| 16 | 5 | —    | —    | 7526 |
| 32 | 3 | 7530 | 7531 | —    |
| 32 | 4 | —    | 7533 | 7534 |
| 32 | 5 | —    | —    | 7536 |

▲▲ IP 67

**Wall mounted receptacles with mechanical DUO-interlock**




fused, DIN-rail

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | 7213 | —    |
| 16 | 4 | —    | —    | 5610 |
| 16 | 5 | —    | —    | 5613 |
| 32 | 4 | —    | —    | 5615 |
| 32 | 5 | —    | —    | 5618 |
| 63 | 4 | —    | —    | 6059 |
| 63 | 5 | —    | —    | 6062 |

▲ IP 44

**Wall mounted receptacles with mechanical DUO-interlock**




fused, DIN-rail

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | 7050 | —    |
| 16 | 4 | —    | —    | 5630 |
| 16 | 5 | —    | —    | 5633 |
| 32 | 4 | —    | —    | 5635 |
| 32 | 5 | —    | —    | 5638 |
| 63 | 4 | —    | —    | 5640 |
| 63 | 5 | —    | —    | 5643 |

▲▲ IP 67

**Wall mounted receptacles with mechanical DUO-interlock**




fused, MCB

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | 7216 | —    |
| 16 | 4 | —    | —    | 7217 |
| 16 | 5 | —    | —    | 7218 |
| 32 | 4 | —    | —    | 7219 |
| 32 | 5 | —    | —    | 7220 |
| 63 | 4 | —    | —    | 7221 |
| 63 | 5 | —    | —    | 7222 |

▲ IP 44

**Wall mounted receptacles with mechanical DUO-interlock**



fused, MCB

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | 7238 | —    |
| 16 | 4 | —    | —    | 7239 |
| 16 | 5 | —    | —    | 7240 |
| 32 | 4 | —    | —    | 7241 |
| 32 | 5 | —    | —    | 7242 |
| 63 | 4 | —    | —    | 7243 |
| 63 | 5 | —    | —    | 7244 |

▲▲ IP 67

## Mechanical DUO-interlock



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





# Phase inverter plugs/inlets 16A and 32A Plugs and sockets for low voltage

Other voltages and frequencies available on request.

## Phase inverter plugs AM-TOP®



single part  
body, screw  
terminals

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | —    | —    |
| 16 | 4 | —    | 338  | 339  |
| 16 | 5 | —    | 318  | 319  |
| 32 | 3 | —    | —    | —    |
| 32 | 4 | —    | 396  | 397  |
| 32 | 5 | —    | 321  | 322  |

▲ IP 44

## Phase inverter plugs AM-TOP®



single part  
body, screw  
terminals

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | —    | —    |
| 16 | 4 | —    | 3338 | 3339 |
| 16 | 5 | —    | —    | 325  |
| 32 | 3 | —    | —    | —    |
| 32 | 4 | —    | 3340 | 3341 |
| 32 | 5 | —    | 327  | 328  |

▲▲ IP 67

## Phase inverter plugs ProTOP



split body,  
screw  
terminals

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | —    | —    |
| 16 | 4 | —    | —    | —    |
| 16 | 5 | —    | —    | 3319 |
| 32 | 3 | —    | —    | —    |
| 32 | 4 | —    | —    | —    |
| 32 | 5 | —    | —    | 3322 |

▲ IP 44

## Phase inverter plug VarioTOP



▲ IP 44

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | —    | —    |
| 16 | 4 | —    | —    | —    |
| 16 | 5 | —    | —    | 859  |
| 32 | 3 | —    | —    | —    |
| 32 | 4 | —    | —    | —    |
| 32 | 5 | —    | —    | —    |

## Wall mounted phase inverter inlets



▲ IP 44

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | —    | —    |
| 16 | 4 | —    | —    | —    |
| 16 | 5 | —    | —    | 3517 |
| 32 | 3 | —    | —    | —    |
| 32 | 4 | —    | —    | —    |
| 32 | 5 | —    | —    | 3523 |

## Wall mounted phase inverter inlets



▲ IP 44

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | —    | —    |
| 16 | 4 | —    | 3342 | 3343 |
| 16 | 5 | —    | —    | 2511 |
| 32 | 3 | —    | —    | —    |
| 32 | 4 | —    | 3345 | 3346 |
| 32 | 5 | —    | 3347 | 2478 |

## Panel mounted phase inverter inlets



▲ IP 44

| A  | P | 110V | 230V | 400V  |
|----|---|------|------|-------|
| 16 | 3 | —    | —    | —     |
| 16 | 4 | —    | 3348 | 3350  |
| 16 | 5 | —    | —    | 20970 |
| 32 | 3 | —    | —    | —     |
| 32 | 4 | —    | 3355 | 3356  |
| 32 | 5 | —    | 3717 | 21241 |

## Panel mounted phase inverter inlet



▲ IP 44

| A  | P | 110V | 230V | 400V |
|----|---|------|------|------|
| 16 | 3 | —    | —    | —    |
| 16 | 4 | —    | —    | —    |
| 16 | 5 | —    | —    | 854  |
| 32 | 3 | —    | —    | —    |
| 32 | 4 | —    | —    | —    |
| 32 | 5 | —    | —    | —    |



## Wall mounted receptacles for low voltage



▲ IP 44

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

## Wall mounted receptacles for low voltage



▲ IP 44

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

## Panel mounted receptacles for low voltage



▲ IP 44

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

## Panel mounted receptacles for low voltage



▲ IP 44

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

## Plugs for low voltage



▲ IP 44

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

## Wall mounted appliance inlets for low voltage



▲ IP 44

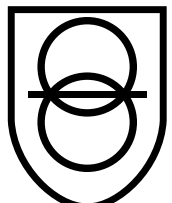
| A  | P | 20-25V<br>50 a. 60 Hz | 40-50V<br>50 a. 60 Hz | 20-25V/<br>40-50V<br>100-200 Hz |
|----|---|-----------------------|-----------------------|---------------------------------|
| 16 | 2 | 1955                  | 1961                  | —                               |
| 16 | 3 | 1962      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

## Connectors for low voltage



▲ IP 44


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



# Plugs and sockets 7 pole

Other voltages and frequencies available on request.


**Wall mounted receptacles**



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

▲ IP 44


**Wall mounted receptacles**



| A  | P | 230V | 400V | 500V |
|----|---|------|------|------|
| 16 | 7 | 3240 | 2746 | 3262 |
| 32 | 7 | 2818 | 2648 | 2782 |

▲▲ IP 67


**Panel mounted receptacles**  
angled 20°



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

▲ IP 44


**Panel mounted receptacles**  
angled 20°



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

▲▲ IP 67


**Plugs AM-TOP®**  
single part body, screw terminals



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

▲ IP 44


**Plugs AM-TOP®**  
single part body, screw terminals



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

▲▲ IP 67


**Wall mounted inlets**



| A  | P | 230V | 400V | 500V |
|----|---|------|------|------|
| 16 | 7 | —    | 2166 | —    |
| 32 | 7 | —    | 2167 | —    |

▲ IP 44


**Panel mounted inlets**



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

▲ IP 44


**Connectors AM-TOP®**  
single part body, screw terminals



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

▲ IP 44


**Connectors AM-TOP®**  
single part body, screw terminals



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

▲▲ IP 67


**Wall mounted receptacles with mechanical DUO-interlock**  
3 pole switch, can be padlocked



| A  | P | 230V | 400V | 500V |
|----|---|------|------|------|
| 16 | 7 | —    | 5536 | —    |
| 32 | 7 | —    | 7061 | —    |

▲ IP 44

**Wall mounted receptacles with mechanical DUO-interlock**  
3 pole switch, can be padlocked



| A  | P | 230V | 400V | 500V |
|----|---|------|------|------|
| 16 | 7 | —    | 5785 | —    |
| 32 | 7 | —    | 6106 | —    |

▲▲ IP 67

## Plugs and sockets 7 pole for multi functional applications

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

This number of poles provides solutions in the following fields:

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



# CEE receptacles Cepex

Other voltages and frequencies available on request.



Plugs for the world

**Wall mounted receptacles**

grey

| A       | P | 110V | 230V | 400V |
|---------|---|------|------|------|
| 16      | 3 | 4101 | 4102 | —    |
| 16      | 4 | —    | 4254 | 4103 |
| 16      | 5 | —    | —    | 4105 |
| 32      | 3 | 4106 | 4107 | —    |
| 32      | 4 | —    | —    | 4108 |
| 32      | 5 | —    | —    | 4110 |
| SCHUKO® |   |      |      | 4970 |

▲ IP 44

**Wall mounted receptacles**

grey, with labelling field

| A       | P | 110V | 230V | 400V |
|---------|---|------|------|------|
| 16      | 3 | —    | 4132 | —    |
| 16      | 4 | —    | —    | 4133 |
| 16      | 5 | —    | —    | 4135 |
| 32      | 3 | —    | 4137 | —    |
| 32      | 4 | —    | —    | 4138 |
| 32      | 5 | —    | —    | 4140 |
| SCHUKO® |   |      |      | 4973 |

▲ IP 44

**Wall mounted receptacles**

grey, with labelling field and lockable cover

| A       | P | 110V | 230V | 400V |
|---------|---|------|------|------|
| 16      | 3 | —    | 4162 | —    |
| 16      | 4 | —    | —    | 4163 |
| 16      | 5 | —    | —    | 4165 |
| 32      | 3 | —    | 4167 | —    |
| 32      | 4 | —    | —    | 4168 |
| 32      | 5 | —    | —    | 4170 |
| SCHUKO® |   |      |      | 4976 |

▲ IP 44

**Panel mounted receptacles**

alpine white

| A       | P | 110V | 230V | 400V |
|---------|---|------|------|------|
| 16      | 3 | —    | —    | —    |
| 16      | 4 | —    | —    | —    |
| 16      | 5 | —    | —    | 4262 |
| 32      | 3 | —    | —    | —    |
| 32      | 4 | —    | —    | —    |
| 32      | 5 | —    | —    | 4263 |
| SCHUKO® |   |      |      | 4979 |

▲ IP 44

**Flush mounted receptacles**


pearl white

| A       | P | 110V | 230V | 400V |
|---------|---|------|------|------|
| 16      | 3 | —    | 4122 | —    |
| 16      | 4 | —    | —    | —    |
| 16      | 5 | —    | —    | 4125 |
| 32      | 3 | —    | 4127 | —    |
| 32      | 4 | —    | —    | —    |
| 32      | 5 | —    | —    | 4130 |
| SCHUKO® |   |      |      | 4972 |

▲ IP 44

**Flush mounted installation box**

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



Part no. 41404

**Panel mounted receptacles**

pearl white

| A       | P | 110V | 230V | 400V |
|---------|---|------|------|------|
| 16      | 3 | 4111 | 4112 | —    |
| 16      | 4 | —    | 4233 | 4113 |
| 16      | 5 | —    | —    | 4115 |
| 32      | 3 | 4116 | 4117 | —    |
| 32      | 4 | —    | —    | 4118 |
| 32      | 5 | —    | —    | 4120 |
| SCHUKO® |   |      |      | 4971 |

▲ IP 44

**Panel mounted receptacles**

pearl white, with labelling field

| A       | P | 110V | 230V | 400V |
|---------|---|------|------|------|
| 16      | 3 | 4141 | 4142 | —    |
| 16      | 4 | —    | —    | 4143 |
| 16      | 5 | —    | —    | 4145 |
| 32      | 3 | 4146 | 4147 | —    |
| 32      | 4 | —    | —    | 4148 |
| 32      | 5 | —    | —    | 4150 |
| SCHUKO® |   |      |      | 4974 |

▲ IP 44

**Panel mounted receptacles**

pearl white, with labelling field and lockable cover

| A       | P | 110V | 230V | 400V |
|---------|---|------|------|------|
| 16      | 3 | 4171 | 4172 | —    |
| 16      | 4 | —    | —    | 4173 |
| 16      | 5 | —    | —    | 4175 |
| 32      | 3 | —    | 4177 | —    |
| 32      | 4 | —    | —    | 4178 |
| 32      | 5 | —    | —    | 4180 |
| SCHUKO® |   |      |      | 4977 |

▲ IP 44

**Panel mounted receptacles**

alpine white, with labelling field

| A       | P | 110V | 230V | 400V |
|---------|---|------|------|------|
| 16      | 3 | —    | 4247 | —    |
| 16      | 4 | —    | —    | 4273 |
| 16      | 5 | —    | —    | 4237 |
| 32      | 3 | —    | 4274 | —    |
| 32      | 4 | —    | —    | 4275 |
| 32      | 5 | —    | —    | 4238 |
| SCHUKO® |   |      |      | 4980 |

▲ IP 44

**Cepex modular system**

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



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

## Perfect in every detail - one fits another

**Anything goes.**

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




**Resistant to ball rebound.**


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


# Plugs and sockets 200A up to 400A


Plugs and sockets are available in seawater resistant design on request.


Other voltages and frequencies available on request.

| Receptacles   |     | A | P     | 230V  | 400V  | 500V  | 690V  | 1000V | weight |
|---|-----|---|-------|-------|-------|-------|-------|-------|--------|
|  <p>with cable gland</p> <p>IP 67</p> | 200 | 4 | 75220 | 75221 | 75222 | 75223 | 75224 | 5580  |        |
|   | 200 | 5 | 75225 | 75226 | 75227 | 75228 | 75229 | 5780  |        |
|   | 250 | 4 | 75020 | 75021 | 75022 | 75023 | 75024 | 10510 |        |
|   | 250 | 5 | 75110 | 75111 | 75112 | 75113 | 75114 | 11020 |        |
|   | 400 | 4 | 75025 | 75026 | 75027 | 75028 | 75029 | 10510 |        |
|   | 400 | 5 | 75115 | 75116 | 75117 | 75118 | 75119 | 11020 |        |

| Panel mounted receptacles   |     | A | P     | 230V  | 400V  | 500V  | 690V  | 1000V | weight |
|---|-----|---|-------|-------|-------|-------|-------|-------|--------|
|  <p>IP 67</p> | 200 | 4 | 75240 | 75241 | 75242 | 75243 | 75244 | 3200  |        |
|   | 200 | 5 | 75245 | 75246 | 75247 | 75248 | 75249 | 3450  |        |
|   | 250 | 4 | 75040 | 75041 | 75042 | 75043 | 75044 | 6800  |        |
|   | 250 | 5 | 75130 | 75131 | 75132 | 75133 | 75134 | 7300  |        |
|   | 400 | 4 | 75045 | 75046 | 75047 | 75048 | 75049 | 6800  |        |
|   | 400 | 5 | 75135 | 75136 | 75137 | 75138 | 75139 | 7300  |        |

| Receptacles, switched and interlocked  |     | A | P     | 230V  | 400V  | 500V  | 690V  | 1000V | weight |
|--|-----|---|-------|-------|-------|-------|-------|-------|--------|
|  <p>IP 55</p> | 200 | 4 | 75230 | 75231 | 75232 | 75233 | 75234 | 25100 |        |
|  | 200 | 5 | 75235 | 75236 | 75237 | 75238 | 75239 | 25300 |        |
|  | 250 | 4 | 75030 | 75031 | 75032 | 75033 | 75034 | 45000 |        |
|  | 250 | 5 | 75120 | 75121 | 75122 | 75123 | 75124 | 46500 |        |
|  | 400 | 4 | 75035 | 75036 | 75037 | 75038 | 75039 | 43900 |        |
|  | 400 | 5 | 75125 | 75126 | 75127 | 75128 | 75129 | 45400 |        |

| Plugs  |     | A | P     | 230V  | 400V  | 500V  | 690V  | 1000V | weight |
|--|-----|---|-------|-------|-------|-------|-------|-------|--------|
|  <p>with cable gland</p> <p>IP 67</p> | 200 | 4 | 75200 | 75201 | 75202 | 75203 | 75204 | 3000  |        |
|  | 200 | 5 | 75205 | 75206 | 75207 | 75208 | 75209 | 3200  |        |
|  | 250 | 4 | 75000 | 75001 | 75002 | 75003 | 75004 | 8290  |        |
|  | 250 | 5 | 75090 | 75091 | 75092 | 75093 | 75094 | 8610  |        |
|  | 400 | 4 | 75005 | 75006 | 75007 | 75008 | 75009 | 8290  |        |
|  | 400 | 5 | 75095 | 75096 | 75097 | 75098 | 75099 | 8610  |        |

| Connectors  |     | A | P     | 230V  | 400V  | 500V  | 690V  | 1000V | weight |
|---|-----|---|-------|-------|-------|-------|-------|-------|--------|
|  <p>with cable gland</p> <p>IP 67</p> | 200 | 4 | 75210 | 75211 | 75212 | 75213 | 75214 | 3730  |        |
|   | 200 | 5 | 75215 | 75216 | 75217 | 75218 | 75219 | 3980  |        |
|   | 250 | 4 | 75010 | 75011 | 75012 | 75013 | 75014 | 9160  |        |
|   | 250 | 5 | 75100 | 75101 | 75102 | 75103 | 75104 | 9670  |        |
|   | 400 | 4 | 75015 | 75016 | 75017 | 75018 | 75019 | 9160  |        |
|   | 400 | 5 | 75105 | 75106 | 75107 | 75108 | 75109 | 9670  |        |

## Heavy duty versions for industry



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

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

- drilling rigs
- tunnel constructions
- gravel pits
- strip mining
- container terminals and crane connections in harbours
- for versatile power supply at large-scale indoor and outdoor events
- power supply to market places
- airports
- quarries

# SCHUKO® and grounding-type receptacles

SCHUKO® and French/Belgian standard 16A, 230V, 2p + E. British standard 13A, 230V, 2p + E.

Other variations on request.

Plugs for the world

## SCHUKO® panel mounted receptacles



with plug-in terminals or screw-terminals, without shutter

▲ IP 54

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | 11010             | 11030           |
| blue   | 11011             | 11031           |
| black  | 11012             | 11032           |
| red    | 11013             | 11033           |

## SCHUKO® panel mounted receptacles



with plug-in terminals or screw-terminals, with shutter

▲ IP 54

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | 11060             | —               |
| blue   | 11061             | 11081           |
| black  | —                 | —               |
| red    | —                 | —               |

## Grounding-type panel mounted receptacles French/Belgian standard

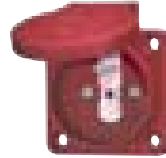


with plug-in terminals, without shutter

▲ IP 44

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | 11110             | —               |
| blue   | 11111             | —               |
| black  | —                 | —               |
| red    | —                 | —               |

## Grounding-type panel mounted receptacles French/Belgian standard



with plug-in terminals or screw-terminals, with shutter

▲ IP 44

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | 11160             | 11180           |
| blue   | 11161             | 11181           |
| black  | 11162             | 11182           |
| red    | 11163             | 11183           |

## SCHUKO® panel mounted receptacles

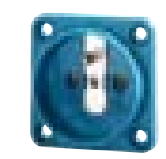


with plug-in terminals or screw-terminals, without shutter

IP 20

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | —                 | —               |
| blue   | 11511             | 11531           |
| black  | 11512             | 11532           |
| red    | —                 | —               |

## Grounding-type panel mounted receptacles French/Belgian standard



with plug-in terminals or screw-terminals, without shutter

IP 20

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | —                 | —               |
| blue   | 11611             | 11631           |
| black  | —                 | —               |
| red    | —                 | —               |

## Grounding-type panel mounted receptacle British standard



with screw-terminals, with shutter and matching frame and seal

▲ IP 44

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | —                 | —               |
| blue   | —                 | —               |
| black  | —                 | 10713           |
| red    | —                 | —               |

## Grounding-type panel mounted receptacle British standard



with screw-terminals, with shutter and seal

▲ IP 44

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | —                 | —               |
| blue   | —                 | 10718           |
| black  | —                 | —               |
| red    | —                 | —               |

## SCHUKO® wall mounted receptacles



with plug-in terminals, without shutter

▲ IP 44

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | 10081             | —               |
| blue   | 10082             | —               |
| black  | 10083             | —               |
| red    | —                 | —               |

## Grounding-type wall mounted receptacles French/Belgian standard



with plug-in terminals, with shutter

▲ IP 44

| Colour | plug-in terminals | screw terminals |
|--------|-------------------|-----------------|
| grey   | —                 | —               |
| blue   | 10092             | —               |
| black  | —                 | —               |
| red    | —                 | —               |

## Base for wall mounted receptacles



with cable entry and screws

|          |       |       |
|----------|-------|-------|
| Part no. | grey  | 10714 |
| Part no. | blue  | 10715 |
| Part no. | black | 10716 |

## Modular system for wall mounted receptacle

The combination of the base with one of the panel mounted receptacles shown above, gives a wall mounted receptacle.



## SCHUKO® plugs with grommet



combined PE-conductor acc. to German and French/Belgian standards.

| Colour | Part no. |
|--------|----------|
| grey   | 10749    |
| black  | 10754    |
| orange | 10837    |
| blue   | 10838    |
| red    | 10839    |
| yellow | 10840    |
| green  | 10841    |

## SCHUKO® connectors with grommet



| Colour | Part no. |
|--------|----------|
| grey   | 10751    |
| black  | 10755    |
| orange | 10842    |
| blue   | 10843    |
| red    | 10844    |
| yellow | 10845    |
| green  | 10846    |

# AMAXX® receptacle combinations

## Success in series

Extensively configurable receptacle combinations in six different sizes – the AMAXX® range by MENNEKES. With an appealing and unique design in many variations for almost all applications. With our extended programme, you now have three good extra reasons to opt for AMAXX® receptacle combinations.

**AMAXX®**  
by MENNEKES

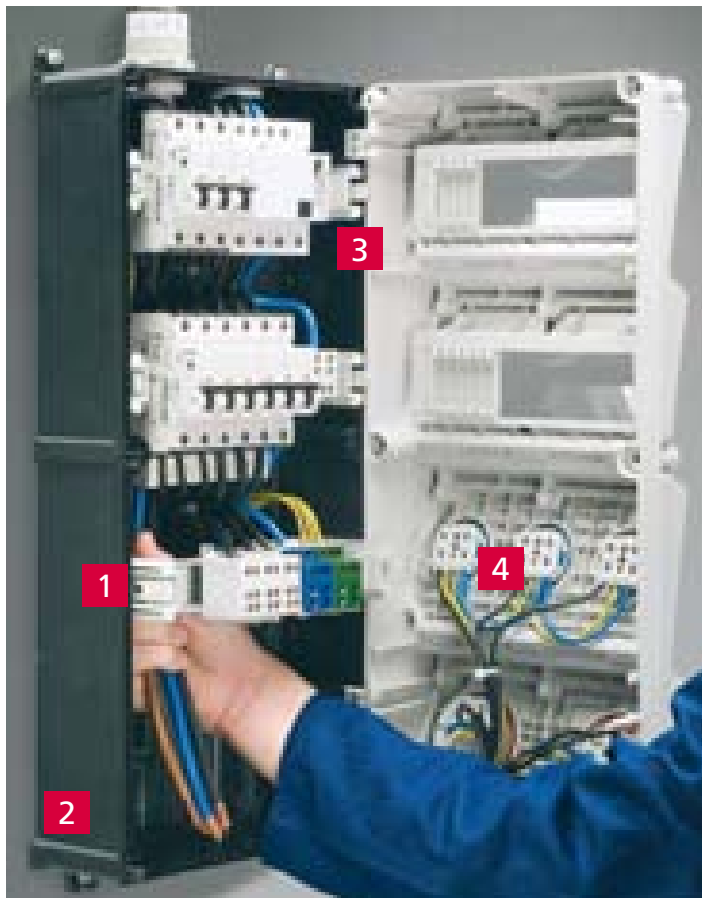


- Protection types: IP 44 and IP 67.
- Enclosure materials: AMAPLAST and especially chemical-resistant AMELAN®.
- Colours: bottom part black, top part grey, silver (IP 44), yellow or red.
- Equipped with: CEE receptacles from 16A, 3-poles up to 63A, 5-poles, grounding type receptacles in acc. with many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

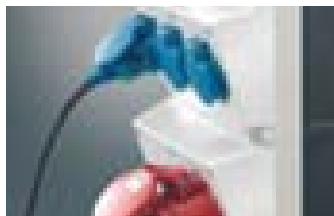
## International



## Features and benefits



- 1 Adjustable DIN Rails**  
Adjustable DIN rails and a large, smooth wiring space significantly ease the insertion as well as connection of large cables.
- 2 One-man installation**  
Shorter installation times with the new, user-friendly external fixing.
- 3 Hinged cover**  
The hinged cover which opens on the side, eases connection work.
- 4 Ready for application**  
All combinations are pre-wired for installation and tested for electric safety and quality.



Generally angled insertion direction.



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



Both hands free because inspection windows fold downwards. Window can be locked with a padlock, enclosure can be sealed.



Standard pre-punched cable entries on the top and at the bottom for M20 up to M40.

## Online configurator

The AMAXX® online configurator takes you to the right solution in just three easy steps. Compile your preferred combination from our range of SCHUKO® and CEE receptacles as well as fuse elements. 24 hours around the clock. The configurator immediately displays the selected combination, complete with text, image, price and delivery time. Your advantage: a drastically reduced offer time and therefore fast delivery of your AMAXX® combinations.

You will find the AMAXX® configurator at [www.AMAXX.info](http://www.AMAXX.info).



## Receptacle combinations for versatile use

# EverGUM receptacle combinations with solid rubber enclosures

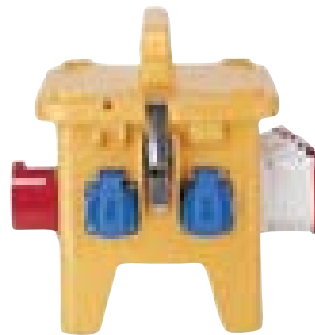
Wall mounted, enclosure  
380 x 230 mm or  
380 x 320 mm



Receptacle strip, enclosure  
445 x 135 mm



Portable, enclosure  
300 x 230 x 287.5 mm or  
360 x 340 x 330 mm



Portable, with feeder cable, enclosure  
300 x 230 x 287.5 mm or  
360 x 340 x 330 mm



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

## AirKRAFT® and 3KRAFT®

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



**3KRAFT®**  
for energy, data,  
compressed air.  
Also available with feeder cable.  
Enclosure  
diam. 240-264 x H 152 mm  
(depending what receptacles  
are used)



## DELTA-BOX

**DELTA-BOXES**

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



**DELTA-BOXES  
with feeder cable.**

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



### For ceilings, walls and floors.

Three colours: Signal yellow, red or silver.

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

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

### DELTA-BOX - the classic unit.

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

Available in ▲ IP 44, ▲▲ IP 67 and ▲▲▲ IP 68.



## Stainless steel surface and flush mounted receptacle combinations



**Safe.**  
**Practical.**  
**Timelessly elegant.**

- Protection type IP 44 with closed door, even when appliances are plugged in.
- Cable entry with closed door.
- Safety lock protects against unauthorised access.

## Power posts

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



## CombiTOWER®

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



# Index of part numbers

| Part no. | page | Part no. | page | Part no. | page | Part no. | page | Part no. | page | Part no. | page | Part no. | page | Part no. | page | Part no. | page |
|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| 1        | 4    | 278      | 6    | 560      | 7    | 931      | 6    | 1347     | 5    | 1720     | 5    | 2864     | 9    | 4107     | 11   | 6059     | 8    |
| 2        | 4    | 279      | 6    | 561      | 7    | 932      | 6    | 1348     | 5    | 1721     | 5    | 2870     | 9    | 4108     | 11   | 6062     | 8    |
| 3        | 6    | 280      | 6    | 562      | 7    | 933      | 6    | 1365     | 4    | 1723     | 5    | 2883     | 10   | 4110     | 11   | 6106     | 10   |
| 4        | 6    | 281      | 6    | 577      | 9    | 935      | 6    | 1366     | 4    | 1724     | 5    | 3030     | 4    | 4111     | 11   | 6569     | 8    |
| 5        | 7    | 282      | 6    | 578      | 9    | 938      | 6    | 1367     | 4    | 1730     | 5    | 3031     | 4    | 4112     | 11   | 6571     | 8    |
| 6        | 7    | 286      | 6    | 584      | 9    | 939      | 6    | 1368     | 4    | 1733     | 5    | 3034     | 4    | 4113     | 11   | 7000     | 8    |
| 13       | 6    | 287      | 6    | 585      | 9    | 942      | 6    | 1369     | 4    | 1734     | 5    | 3036     | 4    | 4115     | 11   | 7002     | 8    |
| 14       | 6    | 288      | 6    | 586      | 9    | 945      | 6    | 1371     | 4    | 1735     | 5    | 3041     | 4    | 4116     | 11   | 7010     | 8    |
| 15       | 7    | 289      | 6    | 590      | 9    | 947      | 6    | 1372     | 4    | 1738     | 5    | 3045     | 4    | 4117     | 11   | 7011     | 8    |
| 16       | 7    | 290      | 6    | 591      | 9    | 948      | 6    | 1373     | 4    | 1739     | 5    | 3072     | 4    | 4118     | 11   | 7012     | 8    |
| 31       | 5    | 291      | 6    | 597      | 9    | 949      | 6    | 1384     | 4    | 1740     | 5    | 3074     | 4    | 4120     | 11   | 7050     | 8    |
| 32       | 5    | 292      | 6    | 598      | 9    | 951      | 6    | 1385     | 4    | 1744     | 5    | 3093     | 4    | 4122     | 11   | 7060     | 8    |
| 33       | 6    | 293      | 6    | 599      | 9    | 952      | 6    | 1386     | 4    | 1745     | 5    | 3110     | 4    | 4125     | 11   | 7061     | 10   |
| 34       | 6    | 294      | 6    | 603      | 9    | 972      | 6    | 1388     | 4    | 1746     | 5    | 3112     | 4    | 4127     | 11   | 7213     | 8    |
| 35       | 7    | 298      | 6    | 604      | 9    | 979      | 7    | 1389     | 4    | 1750     | 5    | 3136     | 4    | 4130     | 11   | 7216     | 8    |
| 36       | 7    | 299      | 6    | 610      | 9    | 980      | 7    | 1390     | 4    | 1751     | 5    | 3153     | 4    | 4132     | 11   | 7217     | 8    |
| 100      | 4    | 300      | 6    | 611      | 9    | 987      | 5    | 1394     | 4    | 1755     | 5    | 3197     | 4    | 4133     | 11   | 7218     | 8    |
| 101      | 4    | 315      | 6    | 612      | 9    | 988      | 5    | 1395     | 4    | 1756     | 5    | 3200     | 4    | 4135     | 11   | 7219     | 8    |
| 102      | 4    | 318      | 6    | 616      | 9    | 989      | 5    | 1396     | 4    | 1786     | 5    | 3240     | 10   | 4137     | 11   | 7220     | 8    |
| 103      | 4    | 319      | 9    | 617      | 9    | 993      | 7    | 1397     | 4    | 1787     | 5    | 3254     | 4    | 4138     | 11   | 7221     | 8    |
| 104      | 4    | 321      | 9    | 623      | 9    | 994      | 7    | 1398     | 4    | 1788     | 5    | 3262     | 10   | 4140     | 11   | 7222     | 8    |
| 105      | 4    | 322      | 9    | 624      | 9    | 997      | 5    | 1399     | 4    | 1789     | 5    | 3266     | 6    | 4141     | 11   | 7238     | 8    |
| 109      | 4    | 325      | 9    | 625      | 9    | 998      | 5    | 1410     | 6    | 1790     | 5    | 3306     | 6    | 4142     | 11   | 7239     | 8    |
| 110      | 4    | 327      | 9    | 629      | 9    | 1035     | 10   | 1411     | 6    | 1791     | 5    | 3312     | 6    | 4143     | 11   | 7240     | 8    |
| 111      | 4    | 328      | 9    | 630      | 9    | 1040     | 10   | 1418     | 4    | 1795     | 5    | 3319     | 9    | 4145     | 11   | 7241     | 8    |
| 121      | 7    | 331      | 6    | 636      | 9    | 1045     | 10   | 1419     | 4    | 1796     | 5    | 3322     | 9    | 4146     | 11   | 7242     | 8    |
| 122      | 7    | 332      | 6    | 637      | 9    | 1050     | 10   | 1420     | 4    | 1797     | 5    | 3331     | 5    | 4147     | 11   | 7243     | 8    |
| 125      | 7    | 333      | 6    | 638      | 9    | 1055     | 10   | 1421     | 4    | 1801     | 5    | 3338     | 9    | 4148     | 11   | 7244     | 8    |
| 126      | 7    | 334      | 6    | 642      | 9    | 1060     | 10   | 1422     | 4    | 1802     | 5    | 3339     | 9    | 4150     | 11   | 7502     | 8    |
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| 212      | 4    | 402      | 6    | 750      | 10   | 1178     | 4    | 1499     | 4    | 1879     | 5    | 3799     | 6    | 5105     | 8    | 7634     | 8    |
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| 216      | 4    | 405      | 6    | 761      | 7    | 1194     | 4    | 1502     | 4    | 1885     | 5    | 3811     | 6    | 5109     | 8    | 10082    | 13   |
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| 220      | 4    | 412      | 6    | 802      | 6    | 1199     | 4    | 1506     | 4    | 1965     | 9    | 3829     | 6    | 5457     | 8    | 10714    | 13   |
| 221      | 4    | 418      | 5    | 803      | 6    | 1200     | 4    | 1551     | 4    | 1967     | 9    | 3830     | 6    | 5459     | 8    | 10715    | 13   |
| 222      | 4    | 419      | 5    | 804      | 6    | 1201     | 4    | 1552     | 4    | 1968     | 9    | 3832     | 6    | 5460     | 8    | 10716    | 13   |
| 226      | 4    | 420      | 5    | 810      | 6    | 1202     | 4    | 1555     | 4    | 1974     | 9    | 3839     | 6    | 5462     | 8    | 10718    | 13   |
| 227      | 4    | 421      | 5    | 812      | 6    | 1203     | 4    | 1556     | 4    | 1975     | 9    | 3841     | 6    | 5536     | 10   | 10749    | 13   |
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| 239      | 4    | 519      | 7    | 826      | 6    | 1217     | 6    | 1643     | 5    | 2167     | 10   | 3871     | 7    | 5610     | 8    | 10842    | 13   |
| 240      | 4    | 521      | 7    | 827      | 6    | 1246     | 6    | 1667     | 5    | 2179     | 4    | 3873     | 7    | 5613     | 8    | 10843    | 13   |
| 241      | 5    |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |

# References



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



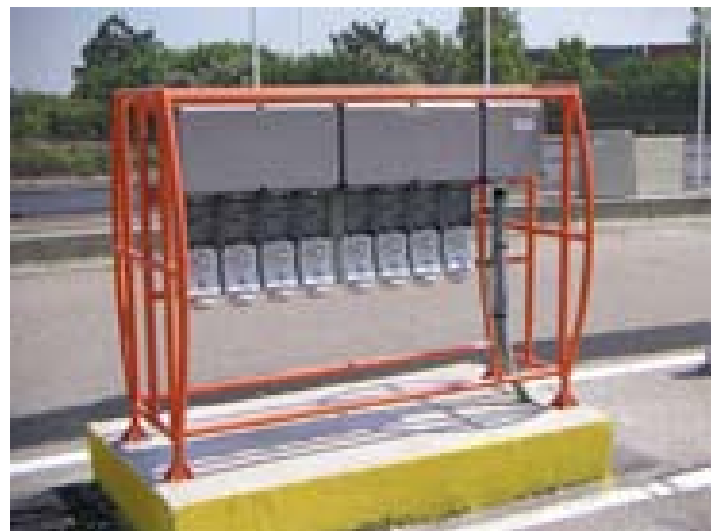
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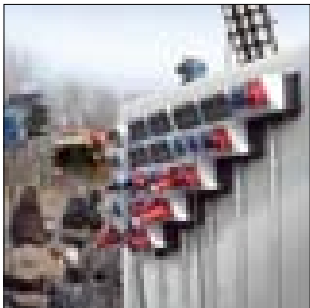
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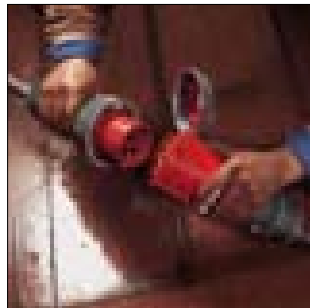
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