

## ELECTRICAL

|                                                                                     |                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>Insulation Resistance</b><br>Per IEC 309-1, Clause 19                            | 500V for 1 min. Resistance $\geq 5M \Omega$                                   |
| <b>Dielectric Strength</b><br>Per IEC 309-1, Clause 19                              | 3000V for 1 min.                                                              |
| <b>Norm. Operation, Connect &amp; Disconnect Cycles</b><br>Per IEC 309-1, Clause 21 | See Table 1                                                                   |
| <b>Breaking Capacity</b><br>Per IEC 309-1, Clause 20                                | Tested at 110 % of the rated operating voltage and 125% of the rated current. |
| <b>Temperature Rise</b><br>Per IEC 309-1, Clause 22                                 | Maximum 50 K rise at full rated current.                                      |

## MECHANICAL

|                                                   |                                                                                                                                                                                      |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cable Secureness</b><br>Per IEC 309, Clause 23 | See Table 2                                                                                                                                                                          |
| <b>Impact</b><br>Per IEC 309, Clause 24           | A device is wired with a 2.25m length of flexible cord and dropped from a height of 75 cm, 8 times. The device is then tested for applicable degrees of protection against moisture. |

## ENVIRONMENTAL

|                                  |                                                                                                                                                                                                                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammability</b>              | Self-extinguishing<br>Per IEC 309-1, Clause 27                                                                                                                                                                                                                                                          |
| <b>Ambient Temperature Range</b> | Minimum: -25°C with impact<br>Maximum: 90°C                                                                                                                                                                                                                                                             |
| <b>Moisture Resistance</b>       | Watertight (IP67): Device immersed for 24 hours in water at a temp. of 25°C, the highest point of the device being 5cm (2") below the water level.<br>Splashproof (IP44): Device is sprayed with water for 10 minutes and immediately afterwards subjected to splashing water in all directions (360°). |
| <b>UV Resistance</b>             | Exposed plastic materials are UV stabilized.                                                                                                                                                                                                                                                            |



## DECLARATION OF CONFORMITY

WALTHER WERKE, Ferdinand Walther GmbH  
Ramsener Strasse 6  
67304 Eisenberg

We declare, under our sole responsibility, the conformity of the following products and standards:

Plugs and Sockets (Pin and Sleeve devices)  
DIN EN 60 309, T. 1  
DIN EN 60 309, T. 2

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

## Minimum test requirements

TABLE 1

| Connect and Disconnect Cycles |                                               |                |             |
|-------------------------------|-----------------------------------------------|----------------|-------------|
| Device Rating Amperes         | Cycles with Load at Rated Current and Voltage | No-Load Cycles | Sequence    |
| 16                            | 5000 p.f of 0.6                               | 0              | -           |
| 32                            | 1000 p.f of 0.6                               | 1000           | Alternating |
| 63                            | 1000 p.f of 0.6                               | 1000           | Alternating |
| 125                           | 250 p.f of 0.7                                | 250            | Alternating |

The test sequence is conducted by using a no-load, followed by a load sequence.

TABLE 2

| Cable Secureness Test |       |        |                      |
|-----------------------|-------|--------|----------------------|
| Device Rating Amperes | Force | Torque | Maximum Displacement |
|                       | N     | N•m    | mm                   |
| 16                    | 80    | 0.350  | 2                    |
| 32                    | 100   | 0.425  | 2                    |
| 63                    | 120   | 0.8    | 2                    |
| 125                   | 200   | 1.5    | 2                    |

The flexible cord or cable is twisted and pulled. Values for the applied twisting torque and force of pull are shown in Table 2. In all cases the cord displacement is less than 2mm.



Norway



Germany



Finland



Switzerland



Austria



Sweden



Belgium



Denmark



Italy



Netherlands



Czechoslovakia



Hungary



Russia



For all plugs,  
sockets &  
receptacles



United States



Canada



China  
\*part specific

DIN EN ISO 9001 Certificate Registration No. 4678-01



## MALE PLUGS

 LISTED

| MALE PLUGS |              |                 |                                  | WATERTIGHT (IP67)                                                                 | SPLASHPROOF (IP44)                                                                |                                                                                     |                                                                                     |
|------------|--------------|-----------------|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| UL LISTED  |              |                 |                                  |                                                                                   | with cable gland                                                                  | with cable sleeve                                                                   | Angled 90°                                                                          |
|            | No. of Wires | Voltage AC      | Clock Position of Ground Contact |  |  |  |  |
| 3          | 2P + G       | 110             | 4                                | 219304                                                                            | 211304                                                                            | 210304                                                                              | 216304                                                                              |
|            |              | 230             | 6                                | 219306                                                                            | 211306                                                                            | 210306                                                                              | 216306                                                                              |
|            |              | 400             | 9                                | 219309                                                                            | 211309                                                                            | 210309                                                                              | 216309                                                                              |
| 4          | 3P + G       | 110             | 4                                | 219404                                                                            | 211404                                                                            | 210404                                                                              | 216404                                                                              |
|            |              | 230             | 9                                | 219409                                                                            | 211409                                                                            | 210409                                                                              | 216409                                                                              |
|            |              | 400             | 6                                | 219406                                                                            | 211406                                                                            | 210406                                                                              | 216406                                                                              |
|            |              | 440             | 11                               | 219411                                                                            | 211411                                                                            | 210411                                                                              | 216411                                                                              |
|            |              | 500             | 7                                | 219407                                                                            | 211407                                                                            | 210407                                                                              | 216407                                                                              |
|            |              | >50 (100-300Hz) | 10                               | 219410                                                                            | 211410                                                                            | 210410                                                                              | 216410                                                                              |
|            |              | >50 (300-500Hz) | 2                                | 219402                                                                            | 211402                                                                            | 210402                                                                              | 216402                                                                              |
| 5          | 3P + N + G   | 110             | 4                                | 219504                                                                            | 211504                                                                            | 210504                                                                              | 216504                                                                              |
|            |              | 230             | 9                                | 219509                                                                            | 211509                                                                            | 210509                                                                              | 216509                                                                              |
|            |              | 400             | 6                                | 219                                                                               | 211                                                                               | 210                                                                                 | 216                                                                                 |
|            |              | 440             | 11                               | 219511                                                                            | 211511                                                                            | 210511                                                                              | 216511                                                                              |
| 7          | 6P + G       | 400             | 6                                |                                                                                   | 211706                                                                            | 210706                                                                              |                                                                                     |

## FEMALE CONNECTORS (Couplers)

 LISTED

| FEMALE CONNECTORS (Couplers)<br><div>UL LISTED</div> |              |                 |                                  | WATERTIGHT (IP67)                                                                   | SPLASHPROOF (IP44)                                                                  |                                                                                       |                                                                                       |
|------------------------------------------------------|--------------|-----------------|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                      |              |                 |                                  |                                                                                     | with cable gland                                                                    | with cable sleeve                                                                     | Angled 90°                                                                            |
|                                                      | No. of Wires | Voltage AC      | Clock Position of Ground Contact |  |  |  |  |
| 3                                                    | 2P + G       | 110             | 4                                | 319304                                                                              | 311304                                                                              | 310304                                                                                | 316304                                                                                |
|                                                      |              | 230             | 6                                | 319306                                                                              | 311306                                                                              | 310306                                                                                | 316306                                                                                |
|                                                      |              | 400             | 9                                | 319309                                                                              | 311309                                                                              | 310309                                                                                | 316309                                                                                |
| 4                                                    | 3P + G       | 110             | 4                                | 319404                                                                              | 311404                                                                              | 310404                                                                                |                                                                                       |
|                                                      |              | 230             | 9                                | 319409                                                                              | 311409                                                                              | 310409                                                                                |                                                                                       |
|                                                      |              | 400             | 6                                | 319406                                                                              | 311406                                                                              | 310406                                                                                |                                                                                       |
|                                                      |              | 440             | 11                               | 319411                                                                              | 311411                                                                              | 310411                                                                                |                                                                                       |
|                                                      |              | 500             | 7                                | 319407                                                                              | 311407                                                                              | 310407                                                                                |                                                                                       |
|                                                      |              | >50 (100-300Hz) | 10                               | 319410                                                                              | 311410                                                                              | 310410                                                                                |                                                                                       |
|                                                      |              | >50 (300-500Hz) | 2                                | 319402                                                                              | 311402                                                                              | 310402                                                                                |                                                                                       |
| 5                                                    | 3P + N + G   | 110             | 4                                | 319504                                                                              | 311504                                                                              | 310504                                                                                |                                                                                       |
|                                                      |              | 230             | 9                                | 319509                                                                              | 311509                                                                              | 310509                                                                                |                                                                                       |
|                                                      |              | 400             | 6                                | 319                                                                                 | 311                                                                                 | 310                                                                                   |                                                                                       |
|                                                      |              | 440             | 11                               | 319511                                                                              | 311511                                                                              | 310511                                                                                |                                                                                       |
| 7                                                    | 6P + G       | 400             | 6                                |                                                                                     | 311706                                                                              | 310706                                                                                |                                                                                       |

## FEMALE PANEL MOUNTED SOCKET-OUTLET



| FEMALE PANEL MOUNTED SOCKET-OUTLET<br><div>UL LISTED</div> |            |                 |                                  | WATERTIGHT (IP67)                                                                 |                                                                                   |                                                                                    | SPLASHPROOF (IP44)                                                                  |                                                                                     |                                                                                     |
|------------------------------------------------------------|------------|-----------------|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                            |            |                 |                                  | Straight                                                                          | Angled 15°                                                                        | Angled 80°                                                                         | Straight                                                                            | Angled 15°                                                                          | Angled 80°                                                                          |
| No. of Wires                                               |            | Voltage AC      | Clock Position of Ground Contact |  |  |  |  |  |  |
| 3                                                          | 2P + G     | 110             | 4                                | 419304                                                                            | 519304                                                                            | 518304                                                                             | 410304                                                                              | 510304                                                                              | 514304                                                                              |
|                                                            |            | 230             | 6                                | 419306                                                                            | 519306                                                                            | 518306                                                                             | 410306                                                                              | 510306                                                                              | 514306                                                                              |
|                                                            |            | 400             | 9                                | 419309                                                                            | 519309                                                                            | 518309                                                                             | 410309                                                                              | 510309                                                                              | 514309                                                                              |
| 4                                                          | 3P + G     | 110             | 4                                | 419404                                                                            | 519404                                                                            | 518404                                                                             | 410404                                                                              | 510404                                                                              | 514404                                                                              |
|                                                            |            | 230             | 9                                | 419409                                                                            | 519409                                                                            | 518409                                                                             | 410409                                                                              | 510409                                                                              | 514409                                                                              |
|                                                            |            | 400             | 6                                | 419406                                                                            | 519406                                                                            | 518406                                                                             | 410406                                                                              | 510406                                                                              | 514406                                                                              |
|                                                            |            | 440             | 11                               | 419411                                                                            | 519411                                                                            | 518411                                                                             | 410411                                                                              | 510411                                                                              | 514411                                                                              |
|                                                            |            | 500             | 7                                | 419407                                                                            | 519407                                                                            | 518407                                                                             | 410407                                                                              | 510407                                                                              | 514407                                                                              |
|                                                            |            | >50 (100-300Hz) | 10                               | 419410                                                                            | 519410                                                                            | 518410                                                                             | 410410                                                                              | 510410                                                                              | 514410                                                                              |
|                                                            |            | >50 (300-500Hz) | 2                                | 419402                                                                            | 519402                                                                            | 518402                                                                             | 410402                                                                              | 510402                                                                              | 514402                                                                              |
| 5                                                          | 3P + N + G | 110             | 4                                | 419504                                                                            | 519504                                                                            | 518504                                                                             | 410504                                                                              | 510504                                                                              | 514504                                                                              |
|                                                            |            | 230             | 9                                | 419509                                                                            | 519509                                                                            | 518509                                                                             | 410509                                                                              | 510509                                                                              | 514509                                                                              |
|                                                            |            | 400             | 6                                | 419                                                                               | 519                                                                               | 518                                                                                | 410                                                                                 | 510                                                                                 | 514                                                                                 |
|                                                            |            | 440             | 11                               | 419511                                                                            | 519511                                                                            | 518511                                                                             | 410511                                                                              | 510511                                                                              | 514511                                                                              |
| 7                                                          | 6P + G     | 400             | 6                                |                                                                                   |                                                                                   |                                                                                    | 411706                                                                              |                                                                                     | 514706                                                                              |

Note: See page 28 for surface mount socket-outlets.

## MALE APPLIANCE PLUG (Inlet)



| MALE APPLIANCE PLUG (Inlet) |            |                 |                                  | WATERTIGHT (IP67)                                                                   |                                                                                     | SPLASHPROOF (IP44)                                                                   |                                                                                       |                                                                                       |                                                                                       |
|-----------------------------|------------|-----------------|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                             |            |                 |                                  | Angled 80°                                                                          | Surface Mount                                                                       | Straight                                                                             | Angled 80°                                                                            | Surface Mount External Mounting                                                       | Surface Mount Internal Mounting                                                       |
| No. of Wires                |            | Voltage AC      | Clock Position of Ground Contact |  |  |  |  |  |  |
| 3                           | 2P + G     | 110             | 4                                | 619304                                                                              | 618304                                                                              | 615304                                                                               | 611304                                                                                | 610304                                                                                |                                                                                       |
|                             |            | 230             | 6                                | 619306                                                                              | 618306                                                                              | 615306                                                                               | 611306                                                                                | 610306                                                                                |                                                                                       |
|                             |            | 400             | 9                                | 619309                                                                              | 618309                                                                              | 615309                                                                               | 611309                                                                                | 610309                                                                                |                                                                                       |
| 4                           | 3P + G     | 110             | 4                                | 619404                                                                              | 618404                                                                              | 615404                                                                               | 611404                                                                                | 610404                                                                                | 616404                                                                                |
|                             |            | 230             | 9                                | 619409                                                                              | 618409                                                                              | 615409                                                                               | 611409                                                                                | 610409                                                                                | 616409                                                                                |
|                             |            | 400             | 6                                | 619406                                                                              | 618406                                                                              | 615406                                                                               | 611406                                                                                | 610406                                                                                | 616406                                                                                |
|                             |            | 440             | 11                               | 619411                                                                              | 618411                                                                              | 615411                                                                               | 611411                                                                                | 610411                                                                                | 616411                                                                                |
|                             |            | 500             | 7                                | 619407                                                                              | 618407                                                                              | 615407                                                                               | 611407                                                                                | 610407                                                                                | 616407                                                                                |
|                             |            | >50 (100-300Hz) | 10                               | 619410                                                                              | 618410                                                                              | 615410                                                                               | 611410                                                                                | 610410                                                                                | 616410                                                                                |
|                             |            | >50 (300-500Hz) | 2                                | 619402                                                                              | 618402                                                                              | 615402                                                                               | 611402                                                                                | 610402                                                                                | 616402                                                                                |
| 5                           | 3P + N + G | 110             | 4                                | 619504                                                                              | 618504                                                                              | 615504                                                                               | 611504                                                                                | 610504                                                                                | 616504                                                                                |
|                             |            | 230             | 9                                | 619509                                                                              | 618509                                                                              | 615509                                                                               | 611509                                                                                | 610509                                                                                | 616509                                                                                |
|                             |            | 400             | 6                                | 619                                                                                 | 618                                                                                 | 615                                                                                  | 611                                                                                   | 610                                                                                   | 616                                                                                   |
|                             |            | 440             | 11                               | 619511                                                                              | 618511                                                                              | 615511                                                                               | 611511                                                                                | 610511                                                                                | 616511                                                                                |
| 7                           | 6P + G     | 400             | 6                                |                                                                                     |                                                                                     | 615706                                                                               | 611706                                                                                | 610706                                                                                | 616706                                                                                |

## MALE PLUGS

 LISTED

| MALE PLUGS |              |                 |                                  | WATERTIGHT (IP67)                                                                 | SPLASHPROOF (IP44)                                                                |                                                                                     |                                                                                     |
|------------|--------------|-----------------|----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| UL LISTED  |              |                 |                                  |                                                                                   | with cable gland                                                                  | with cable sleeve                                                                   | Angled 90°                                                                          |
|            | No. of Wires | Voltage AC      | Clock Position of Ground Contact |  |  |  |  |
| 3          | 2P + G       | 110             | 4                                | 239304                                                                            | 231304                                                                            | 230304                                                                              | 236304                                                                              |
|            |              | 230             | 6                                | 239306                                                                            | 231306                                                                            | 230306                                                                              | 236306                                                                              |
|            |              | 400             | 9                                | 239309                                                                            | 231309                                                                            | 230309                                                                              | 236309                                                                              |
| 4          | 3P + G       | 110             | 4                                | 239404                                                                            | 231404                                                                            | 230404                                                                              | 236404                                                                              |
|            |              | 230             | 9                                | 239409                                                                            | 231409                                                                            | 230409                                                                              | 236409                                                                              |
|            |              | 400             | 6                                | 239406                                                                            | 231406                                                                            | 230406                                                                              | 236406                                                                              |
|            |              | 380/440*        | 3                                | 239403*                                                                           |                                                                                   |                                                                                     |                                                                                     |
|            |              | 440             | 11                               | 239411                                                                            | 231411                                                                            | 230411                                                                              | 236411                                                                              |
|            |              | 500             | 7                                | 239407                                                                            | 231407                                                                            | 230407                                                                              | 236407                                                                              |
|            |              | >50 (100-300Hz) | 10                               | 239410                                                                            | 231410                                                                            | 230410                                                                              | 236410                                                                              |
|            |              | >50 (300-500Hz) | 2                                | 239402                                                                            | 231402                                                                            | 230402                                                                              | 236402                                                                              |
| 5          | 3P + N + G   | 110             | 4                                | 239504                                                                            | 231504                                                                            | 230504                                                                              | 236504                                                                              |
|            |              | 230             | 9                                | 239509                                                                            | 231509                                                                            | 230509                                                                              | 236509                                                                              |
|            |              | 400             | 6                                | 239                                                                               | 231                                                                               | 230                                                                                 | 236                                                                                 |
|            |              | 440             | 11                               | 239511                                                                            | 231511                                                                            | 230511                                                                              | 236511                                                                              |
| 7          | 6P + G       | 400             | 6                                |                                                                                   | 231706                                                                            | 230706                                                                              |                                                                                     |

## FEMALE CONNECTORS (Couplers)

 LISTED

| FEMALE CONNECTORS (Couplers)<br><div>UL LISTED</div> |              |                 |                                  | WATERTIGHT (IP67)                                                                   | SPLASHPROOF (IP44)                                                                   |                                                                                       |
|------------------------------------------------------|--------------|-----------------|----------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                      |              |                 |                                  |                                                                                     | with cable gland                                                                     | with cable sleeve                                                                     |
|                                                      | No. of Wires | Voltage AC      | Clock Position of Ground Contact |  |  |  |
| 3                                                    | 2P + G       | 110             | 4                                | 339304                                                                              | 331304                                                                               | 330304                                                                                |
|                                                      |              | 230             | 6                                | 339306                                                                              | 331306                                                                               | 330306                                                                                |
|                                                      |              | 400             | 9                                | 339309                                                                              | 331309                                                                               | 330309                                                                                |
| 4                                                    | 3P + G       | 110             | 4                                | 339404                                                                              | 331404                                                                               | 330404                                                                                |
|                                                      |              | 230             | 9                                | 339409                                                                              | 331409                                                                               | 330409                                                                                |
|                                                      |              | 400             | 6                                | 339406                                                                              | 331406                                                                               | 330406                                                                                |
|                                                      |              | 380/440*        | 3                                | 339403*                                                                             |                                                                                      |                                                                                       |
|                                                      |              | 440             | 11                               | 339411                                                                              | 331411                                                                               | 330411                                                                                |
|                                                      |              | 500             | 7                                | 339407                                                                              | 331407                                                                               | 330407                                                                                |
|                                                      |              | >50 (100/300Hz) | 10                               | 339410                                                                              | 331410                                                                               | 330410                                                                                |
|                                                      |              | >50 (300/500Hz) | 2                                | 339402                                                                              | 331402                                                                               | 330402                                                                                |
| 5                                                    | 3P + N + G   | 110             | 4                                | 339504                                                                              | 331504                                                                               | 330504                                                                                |
|                                                      |              | 230             | 9                                | 339509                                                                              | 331509                                                                               | 330509                                                                                |
|                                                      |              | 400             | 6                                | 339                                                                                 | 331                                                                                  | 330                                                                                   |
|                                                      |              | 440             | 11                               | 339511                                                                              | 331511                                                                               | 330511                                                                                |
| 7                                                    | 6P + G       | 400             | 6                                |                                                                                     | 331706                                                                               | 330706                                                                                |

\* Only for refrigerated containers.

## FEMALE PANEL MOUNTED SOCKET-OUTLET



|          |            |                 |    | WATERTIGHT (IP67) |            |            | SPLASHPROOF (IP44) |            |            |
|----------|------------|-----------------|----|-------------------|------------|------------|--------------------|------------|------------|
|          |            |                 |    | Straight          | Angled 15° | Angled 80° | Straight           | Angled 15° | Angled 80° |
| <b>3</b> | 2P + G     | 110             | 4  |                   |            |            |                    |            |            |
|          |            | 230             | 6  | 439304            | 539304     | 538304     | 430304             | 530304     | 534304     |
|          |            | 400             | 9  | 439306            | 539306     | 538306     | 430306             | 530306     | 534306     |
| <b>4</b> | 3P + G     | 110             | 4  | 439309            | 539309     | 538309     | 430309             | 530309     | 534309     |
|          |            | 230             | 9  | 439404            | 539404     | 538404     | 430404             | 530404     | 534404     |
|          |            | 400             | 6  | 439409            | 539409     | 538409     | 430409             | 530409     | 534409     |
|          |            | 380/440*        | 3  | 439406            | 539406     | 538406     | 430406             | 530406     | 534406     |
|          |            | 440             | 11 | 439403*           |            |            |                    |            |            |
|          |            | 500             | 7  | 439411            | 539411     | 538411     | 430411             | 530411     | 534411     |
|          |            | >50 (100-300Hz) | 10 | 439407            | 539407     | 538407     | 430407             | 530407     | 534407     |
|          |            | >50 (300-500Hz) | 2  | 439410            | 539410     | 538410     | 430410             | 530410     | 534410     |
| <b>5</b> | 3P + N + G | 110             | 4  | 439402            | 539402     | 538402     | 430402             | 530402     | 534402     |
|          |            | 230             | 9  | 439504            | 539504     | 538504     | 430504             | 530504     | 534504     |
|          |            | 400             | 6  | 439509            | 539509     | 538509     | 430509             | 530509     | 534509     |
|          |            | 440             | 11 | 439               | 539        | 538        | 430                | 530        | 534        |
| <b>7</b> | 6P + G     | 400             | 6  | 439511            | 539511     | 538511     | 430511             | 530511     | 534511     |
|          |            |                 |    |                   |            |            | 431706             |            | 534706     |

Note: See page 28 for surface mount socket-outlets.

## MALE APPLIANCE PLUG (Inlet)



|          |            |                 |    | WATERTIGHT (IP67) |               | SPLASHPROOF (IP44) |            |                                 |                                 |
|----------|------------|-----------------|----|-------------------|---------------|--------------------|------------|---------------------------------|---------------------------------|
|          |            |                 |    | Angled 80°        | Surface Mount | Straight           | Angled 80° | Surface Mount External Mounting | Surface Mount Internal Mounting |
| <b>3</b> | 2P + G     | 110             | 4  |                   |               |                    |            |                                 |                                 |
|          |            | 230             | 6  | 639304            | 638304        | 635304             | 631304     | 630304                          | 636304                          |
|          |            | 400             | 9  | 639306            | 638306        | 635306             | 631306     | 630306                          | 636306                          |
| <b>4</b> | 3P + G     | 110             | 4  | 639309            | 638309        | 635309             | 631309     | 630309                          | 636309                          |
|          |            | 230             | 9  | 639404            | 638404        | 635404             | 631404     | 630404                          | 636404                          |
|          |            | 400             | 6  | 639409            | 638409        | 635409             | 631409     | 630409                          | 636409                          |
|          |            | 400             | 6  | 639406            | 638406        | 635406             | 631406     | 630406                          | 636406                          |
|          |            | 380/440*        | 3  | 639403*           | 638403*       |                    |            |                                 |                                 |
|          |            | 440             | 11 | 639411            | 638411        | 635411             | 631411     | 630411                          | 636411                          |
|          |            | 500             | 7  | 639407            | 638407        | 635407             | 631407     | 630407                          | 636407                          |
|          |            | >50 (100-300Hz) | 10 | 639410            | 638410        | 635410             | 631410     | 630410                          | 636410                          |
| <b>5</b> | 3P + N + G | 110             | 4  | 639402            | 638402        | 635402             | 631402     | 630402                          | 636402                          |
|          |            | 230             | 9  | 639504            | 638504        | 635504             | 631504     | 630504                          | 636504                          |
|          |            | 400             | 6  | 639509            | 638509        | 635509             | 631509     | 630509                          | 636509                          |
|          |            | 440             | 11 | 639               | 638           | 635                | 631        | 630                             | 636                             |
| <b>7</b> | 6P + G     | 400             | 6  | 639511            | 638511        | 635511             | 631511     | 630511                          | 636511                          |
|          |            |                 |    |                   |               | 635706             | 631706     | 630706                          | 636706                          |

\* Only for refrigerated containers.

## MALE PLUGS



| MALE PLUGS   |            |                                  |                                                                                   | WATERTIGHT (IP67)                                                                  | SPLASHPROOF (IP44)                                                                  |                   |
|--------------|------------|----------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|
|              |            |                                  |                                                                                   |                                                                                    | with cable gland                                                                    | with cable sleeve |
| UL LISTED    |            |                                  |                                                                                   |                                                                                    |                                                                                     |                   |
| No. of Wires | Voltage AC | Clock Position of Ground Contact |  |  |  |                   |
| 3            | 2P + G     | 110                              | 4                                                                                 | 269304                                                                             | 261304                                                                              | 260304            |
|              |            | 230                              | 6                                                                                 | 269306                                                                             | 261306                                                                              | 260306            |
|              |            | 400                              | 9                                                                                 | 269309                                                                             | 261309                                                                              | 260309            |
| 4            | 3P + G     | 110                              | 4                                                                                 | 269404                                                                             | 261404                                                                              | 260404            |
|              |            | 230                              | 9                                                                                 | 269409                                                                             | 261409                                                                              | 260409            |
|              |            | 400                              | 6                                                                                 | 269406                                                                             | 261406                                                                              | 260406            |
|              |            | 440                              | 11                                                                                | 269411                                                                             | 261411                                                                              | 260411            |
|              |            | 500                              | 7                                                                                 | 269407                                                                             | 261407                                                                              | 260407            |
| 5            | 3P + N + G | 110                              | 4                                                                                 | 269504                                                                             | 261504                                                                              | 260504            |
|              |            | 230                              | 9                                                                                 | 269509                                                                             | 261509                                                                              | 260509            |
|              |            | 400                              | 6                                                                                 | 269                                                                                | 261                                                                                 | 260               |
|              |            | 440                              | 11                                                                                | 269511                                                                             | 261511                                                                              | 260511            |

## FEMALE CONNECTORS (Couplers)



| FEMALE CONNECTORS (Couplers) |              |            |                                  | WATERTIGHT (IP67)                                                                   | SPLASHPROOF (IP44)                                                                   |                                                                                       |
|------------------------------|--------------|------------|----------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| UL LISTED                    |              |            |                                  |                                                                                     | with cable gland                                                                     | with cable sleeve                                                                     |
|                              | No. of Wires | Voltage AC | Clock Position of Ground Contact |  |  |  |
| 3                            | 2P + G       | 110        | 4                                | 369304                                                                              | 361304                                                                               | 360304                                                                                |
|                              |              | 230        | 6                                | 369306                                                                              | 361306                                                                               | 360306                                                                                |
|                              |              | 400        | 9                                | 369309                                                                              | 361309                                                                               | 360309                                                                                |
| 4                            | 3P + G       | 110        | 4                                | 369404                                                                              | 361404                                                                               | 360404                                                                                |
|                              |              | 230        | 9                                | 369409                                                                              | 361409                                                                               | 360409                                                                                |
|                              |              | 400        | 6                                | 369406                                                                              | 361406                                                                               | 360406                                                                                |
|                              |              | 440        | 11                               | 369411                                                                              | 361411                                                                               | 360411                                                                                |
|                              |              | 500        | 7                                | 369407                                                                              | 361407                                                                               | 360407                                                                                |
| 5                            | 3P + N + G   | 110        | 4                                | 369504                                                                              | 361504                                                                               | 360504                                                                                |
|                              |              | 230        | 9                                | 369509                                                                              | 361509                                                                               | 360509                                                                                |
|                              |              | 400        | 6                                | 369                                                                                 | 361                                                                                  | 360                                                                                   |
|                              |              | 440        | 11                               | 369511                                                                              | 361511                                                                               | 360511                                                                                |

## FEMALE PANEL MOUNTED SOCKET-OUTLET



|          |            |     | WATERTIGHT (IP67) |            |            | SPLASHPROOF (IP44) |            |            |
|----------|------------|-----|-------------------|------------|------------|--------------------|------------|------------|
|          |            |     | Straight          | Angled 15° | Angled 80° | Straight           | Angled 15° | Angled 80° |
| <b>3</b> | 2P + G     | 110 |                   |            |            |                    |            |            |
|          |            | 230 | 469304            | 569304     | 568304     | 460304             | 560304     | 564304     |
|          |            | 400 | 469306            | 569306     | 568306     | 460306             | 560306     | 564306     |
| <b>4</b> | 3P + G     | 110 | 469309            | 569309     | 568309     | 460309             | 560309     | 564309     |
|          |            | 230 | 469404            | 569404     | 568404     | 460404             | 560404     | 564404     |
|          |            | 230 | 469409            | 569409     | 568409     | 460409             | 560409     | 564409     |
|          |            | 400 | 469406            | 569406     | 568406     | 460406             | 560406     | 564406     |
|          |            | 440 | 469411            | 569411     | 568411     | 460411             | 560411     | 564411     |
| <b>5</b> | 3P + N + G | 500 | 469407            | 569407     | 568407     | 460407             | 560407     | 564407     |
|          |            | 110 | 469504            | 569504     | 568504     | 460504             | 560504     | 564504     |
|          |            | 230 | 469509            | 569509     | 568509     | 460509             | 560509     | 564509     |
|          |            | 400 | 469               | 569        | 568        | 460                | 560        | 564        |
|          |            | 440 | 469511            | 569511     | 568511     | 460511             | 560511     | 564511     |

Note: See page 28 for surface mount receptacles.

## MALE APPLIANCE PLUG (Inlet)



|          |            |     | WATERTIGHT (IP67) |               | SPLASHPROOF (IP44) |            |
|----------|------------|-----|-------------------|---------------|--------------------|------------|
|          |            |     | Angled 80°        | Surface Mount | Straight           | Angled 80° |
| <b>3</b> | 2P + G     | 110 |                   |               |                    |            |
|          |            | 230 | 669304            | 668304        |                    | 661304     |
|          |            | 400 | 669306            | 668306        |                    | 661306     |
| <b>4</b> | 3P + G     | 230 | 669309            | 668309        |                    | 661309     |
|          |            | 110 | 669404            | 668404        |                    | 661404     |
|          |            | 230 | 669409            | 668409        |                    | 661409     |
|          |            | 400 | 669406            | 668406        |                    | 661406     |
|          |            | 440 | 669411            | 668411        |                    | 661411     |
| <b>5</b> | 3P + N + G | 500 | 669407            | 668407        |                    | 661407     |
|          |            | 110 | 669504            | 668504        | 665504             | 661504     |
|          |            | 230 | 669509            | 668509        | 665509             | 661509     |
|          |            | 400 | 669               | 668           | 665                | 661        |
|          |            | 440 | 669511            | 668511        | 665511             | 661511     |



## MALE PLUGS

**UL LISTED**

WATERTIGHT (IP67)



| No. of Wires | Voltage AC | Clock Position of Ground Contact |    |
|--------------|------------|----------------------------------|----|
| <b>3</b>     | 2P + G     | 110                              | 4  |
|              |            | 230                              | 6  |
|              |            | 400                              | 9  |
| <b>4</b>     | 3P + G     | 110                              | 4  |
|              |            | 230                              | 9  |
|              |            | 400                              | 6  |
|              |            | 440                              | 11 |
|              |            | 500                              | 7  |
| <b>5</b>     | 3P + N + G | 110                              | 4  |
|              |            | 230                              | 9  |
|              |            | 400                              | 6  |
|              |            | 440                              | 11 |

279304

279306

279309

279404

279409

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279411

279407

279504

279509

279

279511

## FEMALE CONNECTORS (Couplers)

**UL LISTED**

WATERTIGHT (IP67)



| No. of Wires | Voltage AC | Clock Position of Ground Contact |    |
|--------------|------------|----------------------------------|----|
| <b>3</b>     | 2P + G     | 110                              | 4  |
|              |            | 230                              | 6  |
|              |            | 400                              | 9  |
| <b>4</b>     | 3P + G     | 110                              | 4  |
|              |            | 230                              | 9  |
|              |            | 400                              | 6  |
|              |            | 440                              | 11 |
|              |            | 500                              | 7  |
| <b>5</b>     | 3P + N + G | 110                              | 4  |
|              |            | 230                              | 9  |
|              |            | 400                              | 6  |
|              |            | 440                              | 11 |

379304

379306

379309

379404

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379511

Note: 125-Amp devices are only available in IP67-Watertight configuration.



## FEMALE PANEL MOUNTED SOCKET-OUTLET

**UL LISTED**

| FEMALE PANEL MOUNTED SOCKET-OUTLET<br><br> LISTED |            |            |                                  | WATERTIGHT (IP67)                                                                 |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------|------------|------------|----------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                    |            |            |                                  |                                                                                   |                                                                                     |
|                                                                                                                                    |            |            |                                  | Straight                                                                          | Angled 15°                                                                          |
| No. of Wires                                                                                                                       |            | Voltage AC | Clock Position of Ground Contact |  |  |
| 3                                                                                                                                  | 2P + G     | 110        | 4                                | 479304                                                                            | 579304                                                                              |
|                                                                                                                                    |            | 230        | 6                                | 479306                                                                            | 579306                                                                              |
|                                                                                                                                    |            | 400        | 9                                | 479309                                                                            | 579309                                                                              |
| 4                                                                                                                                  | 3P + G     | 110        | 4                                | 479404                                                                            | 579404                                                                              |
|                                                                                                                                    |            | 230        | 9                                | 479409                                                                            | 579409                                                                              |
|                                                                                                                                    |            | 400        | 6                                | 479406                                                                            | 579406                                                                              |
|                                                                                                                                    |            | 440        | 11                               | 479411                                                                            | 579411                                                                              |
|                                                                                                                                    |            | 500        | 7                                | 479407                                                                            | 579407                                                                              |
| 5                                                                                                                                  | 3P + N + G | 110        | 4                                | 479504                                                                            | 579504                                                                              |
|                                                                                                                                    |            | 230        | 9                                | 479509                                                                            | 579509                                                                              |
|                                                                                                                                    |            | 400        | 6                                | 479                                                                               | 579                                                                                 |
|                                                                                                                                    |            | 440        | 11                               | 479511                                                                            | 579511                                                                              |

Note: See page 28 for surface mount receptacles.

## MALE APPLIANCE PLUG (Inlet)

**UL LISTED**

| MALE APPLIANCE PLUG (Inlet) |            |                                  |    | WATERTIGHT (IP67)                                                                   |                                                                                       |
|-----------------------------|------------|----------------------------------|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| UL LISTED                   |            |                                  |    |                                                                                     |                                                                                       |
|                             |            |                                  |    | Straight                                                                            | Surface Mount                                                                         |
|                             |            |                                  |    |  |  |
| No. of Wires                | Voltage AC | Clock Position of Ground Contact |    |                                                                                     |                                                                                       |
| 3                           | 2P + G     | 110                              | 4  | 679304                                                                              | 678304                                                                                |
|                             |            | 230                              | 6  | 679306                                                                              | 678306                                                                                |
|                             |            | 400                              | 9  | 679309                                                                              | 678309                                                                                |
| 4                           | 3P + G     | 110                              | 4  | 679404                                                                              | 678404                                                                                |
|                             |            | 230                              | 9  | 679409                                                                              | 678409                                                                                |
|                             |            | 400                              | 6  | 679406                                                                              | 678406                                                                                |
|                             |            | 440                              | 11 | 679411                                                                              | 678411                                                                                |
|                             |            | 500                              | 7  | 679407                                                                              | 678407                                                                                |
| 5                           | 3P + N + G | 110                              | 4  | 679504                                                                              | 678504                                                                                |
|                             |            | 230                              | 9  | 679509                                                                              | 678509                                                                                |
|                             |            | 400                              | 6  | 679                                                                                 | 678                                                                                   |
|                             |            | 440                              | 11 | 679511                                                                              | 678511                                                                                |

## SURFACE MOUNT SOCKET-OUTLETS



(Internal Mounting)

|          |            |                 |    | WATERTIGHT (IP67)                                                                 |         |         |                                                                                   | SPLASHPROOF (IP44)                                                                  |         |                                                                                     |
|----------|------------|-----------------|----|-----------------------------------------------------------------------------------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|
|          |            |                 |    | 16 Amps                                                                           | 32 Amps | 63 Amps | 125 Amps                                                                          | 16 Amps                                                                             | 32 Amps | 63 Amps                                                                             |
|          |            |                 |    |  |         |         |  |  |         |  |
| <b>3</b> | 2P + G     | 110             | 4  | 119304                                                                            | 139304  |         | 179304                                                                            | 111304                                                                              | 131304  |                                                                                     |
|          |            | 230             | 6  | 119306                                                                            | 139306  |         | 179306                                                                            | 111306                                                                              | 131306  |                                                                                     |
|          |            | 400             | 9  | 119309                                                                            | 139309  |         | 179309                                                                            | 111309                                                                              | 131309  |                                                                                     |
| <b>4</b> | 3P + G     | 110             | 4  | 119404                                                                            | 139404  | 169404  | 179404                                                                            | 111404                                                                              | 131404  | 161404                                                                              |
|          |            | 230             | 9  | 119409                                                                            | 139409  | 169409  | 179409                                                                            | 111409                                                                              | 131409  | 161409                                                                              |
|          |            | 400             | 6  | 119406                                                                            | 139406  | 169406  | 179406                                                                            | 111406                                                                              | 131406  | 161406                                                                              |
|          |            | 440             | 11 | 119411                                                                            | 139411  | 169411  | 179411                                                                            | 111411                                                                              | 131411  | 161411                                                                              |
|          |            | 500             | 7  | 119407                                                                            | 139407  | 169407  | 179407                                                                            | 111407                                                                              | 131407  | 161407                                                                              |
|          |            | >50 (100-300Hz) | 10 | 119410                                                                            | 139410  | 169410  | 179410                                                                            | 111410                                                                              | 131410  | 161410                                                                              |
|          |            | >50 (300-500Hz) | 2  | 119402                                                                            | 139402  | 169402  | 179402                                                                            | 111402                                                                              | 131402  | 161402                                                                              |
| <b>5</b> | 3P + N + G | 110             | 4  | 119504                                                                            | 139504  | 169504  | 179504                                                                            | 111504                                                                              | 131504  | 161504                                                                              |
|          |            | 230             | 9  | 119509                                                                            | 139509  | 169509  | 179509                                                                            | 111509                                                                              | 131509  | 161509                                                                              |
|          |            | 400             | 6  | 119                                                                               | 139     | 169     | 179                                                                               | 111                                                                                 | 131     | 161                                                                                 |
|          |            | 440             | 11 | 119511                                                                            | 139511  | 169511  | 179511                                                                            | 111511                                                                              | 131511  | 161511                                                                              |
| <b>7</b> | 6P + G     | 400             | 6  |                                                                                   |         |         |                                                                                   | 111706                                                                              | 131706  |                                                                                     |

## SURFACE MOUNT SOCKET-OUTLETS



(External Mounting)

|          |            |                 |    | SPLASHPROOF (IP44)                                                                   |         |
|----------|------------|-----------------|----|--------------------------------------------------------------------------------------|---------|
|          |            |                 |    | 16 Amps                                                                              | 32 Amps |
|          |            |                 |    |  |         |
| <b>3</b> | 2P + G     | 110             | 4  | 110304                                                                               | 130304  |
|          |            | 230             | 6  | 110306                                                                               | 130306  |
|          |            | 400             | 9  | 110309                                                                               | 130309  |
| <b>4</b> | 3P + G     | 110             | 4  | 110404                                                                               | 130404  |
|          |            | 230             | 9  | 110409                                                                               | 130409  |
|          |            | 400             | 6  | 110406                                                                               | 130406  |
|          |            | 440             | 11 | 110411                                                                               | 130411  |
|          |            | 500             | 7  | 110407                                                                               | 130407  |
|          |            | >50 (100-300Hz) | 10 | 110410                                                                               | 130410  |
|          |            | >50 (300-500Hz) | 2  | 110402                                                                               | 130402  |
| <b>5</b> | 3P + N + G | 110             | 4  | 110504                                                                               | 130504  |
|          |            | 230             | 9  | 110509                                                                               | 130509  |
|          |            | 400             | 6  | 110                                                                                  | 130     |
|          |            | 440             | 11 | 110511                                                                               | 130511  |
| <b>7</b> | 6P + G     | 400             | 6  | 110706                                                                               | 130706  |