



Plugs and Sockets CES System Series 8575, 8578, 8579, 8581

- Explosion protection to
 - CENELEC
 - IEC
 - NEC
- Series
 - 8575 16 A
 - 8578 32 A
 - 8579 63 A
 - 8581 125 A
- Low plugging and unplugging forces
- Optimal contact by means of laminated contacts
- Individually encapsulated pins, flexibly embedded
- Switches
 - with large handle
 - can be locked in 0 and 1 positions
 - with clear switch position indication
 - with motor switching capacity AC23 to VDE 0660 T107 (IEC 947-3)
 - with auxiliary contact for control and signalling purposes
- Write-on circuit label
- Fully colour-coded plug enclosure in colours for voltage and frequency to CEE publication 17


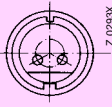
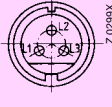
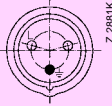
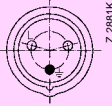
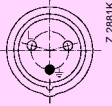


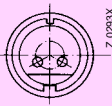
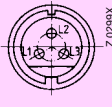
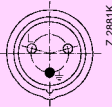
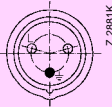
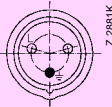

STAHL

The plugs and sockets in the CES system comply with CEE publication 17 and European standards EN 50 014.

The small 16 A socket has switching capacity AC 23 to VDE 0660 T107 (IEC 947-3). The interlock switch is incorporated into the bush carrier. The ability to plug the Ex-plug into non-Ex sockets is guaranteed, while operation of the Ex-socket using a non-Ex plug is reliably prevented.

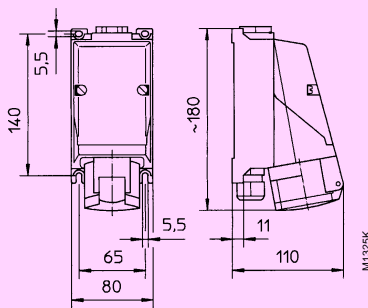
Zone 1 and Zone 2

Selection table

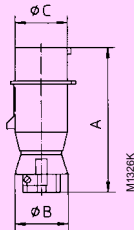
| Version | Voltage [V] | Number of pins | Colour | Frequency [Hz] | h | Ordering code | Weight [kg] | |
|--|--|---|--|----------------|--|--------------------|--------------------|------|
| 16 A Small type socket  | Extra low voltage |  2 P | violet | 50/60 | – | 8575/13–100 | 0,8 | |
| | | | violet | DC | 10 | 8575/13–110 | 0,8 | |
| | | | white | 50/60 | 12 | 8575/13–112 | 0,8 | |
| | Extra low voltage |  3 P | violet | 50/60 | – | 8575/13–200 | 0,8 | |
| | | | white | 50/60 | 12 | 8575/13–212 | 0,8 | |
| | | | Low voltage | 110 – 130 |  3 P | yellow | 50/60 | 4 |
| | 220 – 240 |  3 P | | blue | 50/60 | 6 | 8575/13–306 | 0,8 |
| | 380 – 415 |  (2 P + ) | | red | 50/60 | 9 | 8575/13–309 | 0,8 |
| | 16 A Plug  | Extra low voltage |  2 P | violet | 50/60 | – | 8575/12–100 | 0,35 |
| violet | | | | DC | 10 | 8575/12–110 | 0,35 | |
| white | | | | 50/60 | 12 | 8575/12–112 | 0,35 | |
| Extra low voltage | |  3 P | violet | 50/60 | – | 8575/12–200 | 0,35 | |
| | | | white | 50/60 | 12 | 8575/12–212 | 0,35 | |
| | | | Low voltage | 110 – 130 |  3 P | yellow | 50/60 | 4 |
| 220 – 240 | |  3 P | | blue | 50/60 | 6 | 8575/12–306 | 0,35 |
| 380 – 415 | |  (2 P + ) | | red | 50/60 | 9 | 8575/12–309 | 0,35 |




Dimensions, all dimensions in mm – subject to alteration



8575/13
Small socket



8575/12
Plug



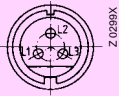
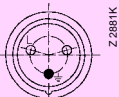




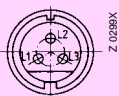
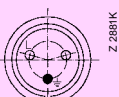



| Type | A | B | C |
|--|-----|------|------|
| 8575/12–1.. (16 A, 2 P) | 140 | 53,0 | 42,0 |
| 8575/12–2.. (16 A, 3 P) | 140 | 53,0 | 42,0 |
| 8575/12–3.. (16 A, 2 P + ) | 159 | 58,5 | 43,5 |

Plugs and Sockets CES System

16 A, ...690 V Switch Socket

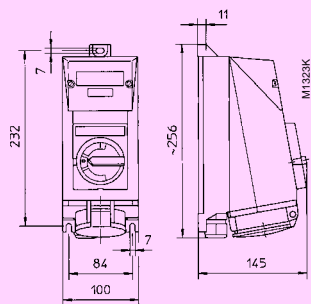
Series 8575/11

Selection table

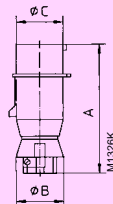
| Version | Voltage [V] | Number of pins | Colour | Frequency [Hz] | h | Ordering code | Weight [kg] | |
|--|---|---|---|----------------|--------------------|--------------------|--------------------|------|
| 16 A Switch socket  | Extra low voltage |  2 P Z 0283X | violet | 50/60 | – | 8575/11-100 | 2,0 | |
| | | | violet | DC | 10 | 8575/11-110 | 2,0 | |
| | | | white | 50/60 | 12 | 8575/11-112 | 2,0 | |
| | Low voltage | 20 – 25 40 – 50 |  3 P Z 0289X | violet | 50/60 | – | 8575/11-200 | 2,0 |
| | | | | white | 50/60 | 12 | 8575/11-212 | 2,0 |
| | | 110 – 130 220 – 240 380 – 415 |  3 P (2 P + \perp) Z 2881K | yellow | 50/60 | 4 | 8575/11-304 | 2,0 |
| | | | | blue | 50/60 | 6 | 8575/11-306 | 2,0 |
| | | | | red | 50/60 | 9 | 8575/11-309 | 2,0 |
| | | 110 – 130 220 – 240 380 – 415 500 660 – 690 |  4 P (3 P + \perp) Z 0643K | Yellow | 50/60 | 4 | 8575/11-404 | 2,0 |
| | | | | blue | 50/60 | 9 | 8575/11-409 | 2,0 |
| | | | | red | 50/60 | 6 | 8575/11-406 | 2,0 |
| | | | | black | 50/60 | 7 | 8575/11-407 | 2,0 |
| 110 – 130 127 – 240 220 – 415 500 660 – 690 |  5 P (3 P + N + \perp) Z 0642K | black | 50/60 | 5 | 8575/11-405 | 2,0 | | |
| | | yellow | 50/60 | 4 | 8575/11-504 | 2,0 | | |
| | | blue | 50/60 | 9 | 8575/11-509 | 2,0 | | |
| | | red | 50/60 | 6 | 8575/11-506 | 2,0 | | |
| | | black | 50/60 | 7 | 8575/11-507 | 2,0 | | |
| 16 A Plug  | Extra low voltage |  2 P Z 0283X | violet | 50/60 | – | 8575/12-100 | 0,35 | |
| | | | violet | DC | 10 | 8575/12-110 | 0,35 | |
| | | | white | 50/60 | 12 | 8575/12-112 | 0,35 | |
| | Low voltage | 20 – 25 40 – 50 |  3 P Z 0289X | violet | 50/60 | – | 8575/12-200 | 0,35 |
| | | | | white | 50/60 | 12 | 8575/12-212 | 0,35 |
| | | 110 – 130 220 – 240 380 – 415 |  3 P (2 P + \perp) Z 2881K | yellow | 50/60 | 4 | 8575/12-304 | 0,35 |
| | | | | blue | 50/60 | 6 | 8575/12-306 | 0,35 |
| | | | | red | 50/60 | 9 | 8575/12-309 | 0,35 |
| | | 110 – 130 220 – 240 380 – 415 500 660 – 690 |  4 P (3 P + \perp) Z 0643K | yellow | 50/60 | 4 | 8575/12-404 | 0,35 |
| | | | | blue | 50/60 | 9 | 8575/12-409 | 0,35 |
| | | | | red | 50/60 | 6 | 8575/12-406 | 0,35 |
| | | | | black | 50/60 | 7 | 8575/12-407 | 0,35 |
| 110 – 130 127 – 240 220 – 415 500 660 – 690 |  5 P (3 P + N + \perp) Z 0642K | black | 50/60 | 5 | 8575/12-405 | 0,35 | | |
| | | yellow | 50/60 | 4 | 8575/12-504 | 0,35 | | |
| | | blue | 50/60 | 9 | 8575/12-509 | 0,35 | | |
| | | red | 50/60 | 6 | 8575/12-506 | 0,35 | | |
| | | black | 50/60 | 7 | 8575/12-507 | 0,35 | | |
| 110 – 130 127 – 240 220 – 415 500 660 – 690 |  5 P (3 P + N + \perp) Z 0642K | black | 50/60 | 5 | 8575/12-505 | 0,35 | | |

Dimensions, all dimensions in mm – subject to alteration

| Type | A | B | C |
|--|-----|------|------|
| 8575/12-1.. (16 A, 2 P) | 140 | 53,0 | 42,0 |
| 8575/12-2.. (16 A, 3 P) | 140 | 53,0 | 42,0 |
| 8575/12-3.. (16 A, 2 P + \perp) | 159 | 58,5 | 43,5 |
| 8575/12-4.. (16 A, 3 P + \perp) | 159 | 58,5 | 49,0 |
| 8575/12-5.. (16 A, 3 P + N + \perp) | 159 | 58,5 | 56,0 |













8575/12
16 A Switch socket



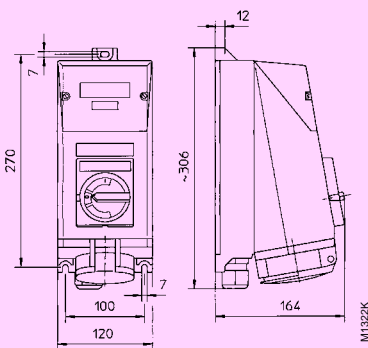
8575/12
Plug

Selection table

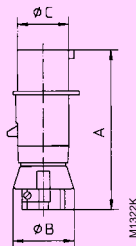
| Version | Voltage [V] | Number of pins | Colour | Frequency [Hz] | h | Ordering code | Weight [kg] |
|--|-------------|--|--|----------------|--------------------|--------------------|--------------------|
| 32 A Switch socket  | 110 – 130 |  4 P (3 P + ) | yellow | 50/60 | 4 | 8578/11-404 | 3,5 |
| | 220 – 240 | | blue | 50/60 | 9 | 8578/11-409 | 3,5 |
| | 380 – 415 | | red | 50/60 | 6 | 8578/11-406 | 3,5 |
| | 500 | | black | 50/60 | 7 | 8578/11-407 | 3,5 |
| | 660 – 690 | | black | 50/60 | 5 | 8578/11-405 | 3,5 |
| | 110 – 130 | |  5 P (3 P + N + ) | yellow | 50/60 | 4 | 8578/11-504 |
| 380 – 415 | red | 50/60 | | 6 | 8578/11-506 | 3,5 | |
| 500 | black | 50/60 | | 7 | 8578/11-507 | 3,5 | |
| 32 A Plug  | 110 – 130 |  4 P (3 P + ) | yellow | 50/60 | 4 | 8578/12-404 | 0,5 |
| | 220 – 240 | | blue | 50/60 | 9 | 8578/12-409 | 0,5 |
| | 380 – 415 | | red | 50/60 | 6 | 8578/12-406 | 0,5 |
| | 500 | | black | 50/60 | 7 | 8578/12-407 | 0,5 |
| | 660 – 690 | | black | 50/60 | 5 | 8578/12-405 | 0,5 |
| | 110 – 130 | |  5 P (3 P + N + ) | yellow | 50/60 | 4 | 8578/12-504 |
| 380 – 415 | red | 50/60 | | 6 | 8578/12-506 | 0,5 | |
| 500 | black | 50/60 | | 7 | 8578/12-507 | 0,5 | |

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

Dimensions, all dimensions in mm – subject to alteration



8578/11
32 A Switch socket



8578/12
32 A Plug





| Type | A | B | C |
|--|-----|------|------|
| 8578/12-4.. (32 A, 3 P + ) | 179 | 68,0 | 57,0 |
| 8578/12-5.. (32 A, 3 P + N + ) | 179 | 68,0 | 63,4 |

Plugs and Sockets CES System

63 A, ...690 V Switch Socket

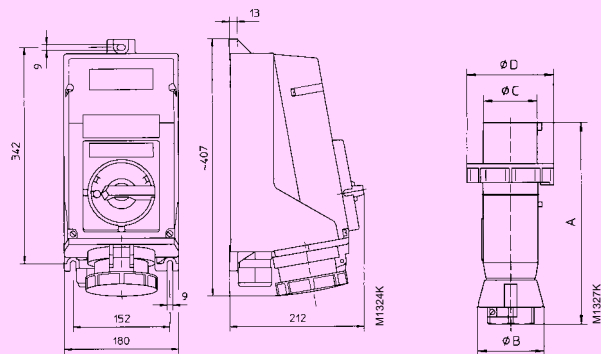
Series 8579/11

Selection table

| Version | Voltage [V] | Number of pins | Colour | Frequency [Hz] | h | Ordering code | Weight [kg] | |
|--|-------------|--|--------|----------------|---|--------------------|-------------|--|
| 63 A Switch socket  | 220 – 240 |  4 P (3 P + \perp) | blue | 50/60 | 9 | 8579/11-409 | 5,5 | |
| | 380 – 415 | | red | 50/60 | 6 | 8579/11-406 | 5,5 | |
| | 500 | | black | 50/60 | 7 | 8579/11-407 | 5,5 | |
| | 660 – 690 | | black | 50/60 | 5 | 8579/11-405 | 5,5 | |
| | 220 – 415 |  5 P (3 P + N + \perp) | red | 50/60 | 6 | 8579/11-506 | 5,5 | |
| | 500 | | black | 50/60 | 7 | 8579/11-507 | 5,5 | |
| | | | | | | | | |
| | | | | | | | | |
| 63 A Plug  | 220 – 240 |  4 P (3 P + \perp) | blue | 50/60 | 9 | 8579/12-409 | 0,8 | |
| | 380 – 415 | | red | 50/60 | 6 | 8579/12-406 | 0,8 | |
| | 500 | | black | 50/60 | 7 | 8579/12-407 | 0,8 | |
| | 660 – 690 | | black | 50/60 | 5 | 8579/12-405 | 0,8 | |
| | 220 – 415 |  5 P (3 P + N + \perp) | red | 50/60 | 6 | 8579/12-506 | 0,8 | |
| | 500 | | black | 50/60 | 7 | 8579/12-507 | 0,8 | |
| | | | | | | | | |
| | | | | | | | | |

STAHL

Dimensions, all dimensions in mm – subject to alteration






8579/11
63 A Switch socket

8579/12
63 A Plug

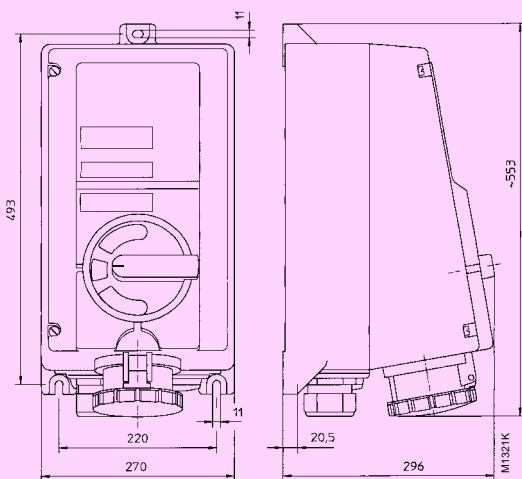
| Type | A | B | C | D |
|--|-----|----|------|-----|
| 8579/12-4.. (63 A, 3 P + \perp) | 260 | 84 | 69,5 | 112 |
| 8579/12-5.. (63 A, 3 P + N + \perp) | 260 | 84 | 69,5 | 112 |

Selection table

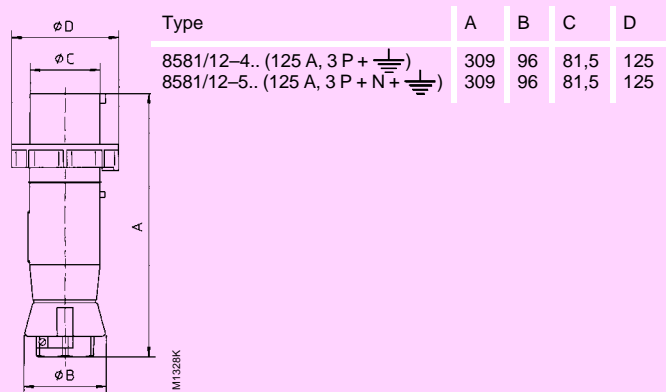
| Version | Voltage [V] | Number of pins | Colour | Frequency [Hz] | h | Ordering code | Weight [kg] |
|---|-------------|--|--------|----------------|---|--------------------|-------------|
| 125 A Switch Socket  | 220 – 240 |  Z 0281X 4 P (3 P + ) | blue | 50/60 | 9 | 8581/11-409 | 22 |
| | 380 – 415 | | red | 50/60 | 6 | 8581/11-406 | 22 |
| | 500 | | black | 50/60 | 7 | 8581/11-407 | 22 |
| | 220 – 415 |  Z 0282X 5 P (3 P + N + ) | red | 50/60 | 6 | 8581/11-506 | 22 |
| | 500 | | black | 50/60 | 7 | 8581/11-507 | 22 |
| | | | | | | | |
| 125 A Plug  | 220 – 240 |  Z 0281X 4 P (3 P + ) | blue | 50/60 | 9 | 8581/12-409 | 2 |
| | 380 – 415 | | red | 50/60 | 6 | 8581/12-406 | 2 |
| | 500 | | black | 50/60 | 7 | 8581/12-407 | 2 |
| | 220 – 415 |  Z 0282X 5 P (3 P + N + ) | red | 50/60 | 6 | 8581/12-506 | 2 |
| | 500 | | black | 50/60 | 7 | 8581/12-507 | 2 |
| | | | | | | | |

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Dimensions, all dimensions in mm – subject to alteration



8581/11
125 A Switch socket



8581/12
125 A Plug

Plugs and Sockets CES System

16 A ... 125 A, Zone 1

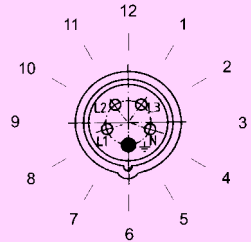
Series 8575/11, 8575/13, 8578/11, 8579/11, 8581/11

| Technical data | | | | | |
|-------------------------------------|--|---|--|--|---|
| Socket | 8575/13, 16 A | 8575/11, 16 A | 8578/11, 32 A | 8579/11, 63 A | 8581/11, 125 A |
| Explosion protection | EEx de IIC T6 | EEx de IIC T6 | EEx de IIC T6 | EEx de IIC T6 | EEx de IIC T6 |
| Test certificate | PTB Nr. Ex-98.E.1022 | PTB Nr. Ex-82/1047 | PTB Nr. Ex-82/1081 | PTB Nr. Ex-84/1004 | PTB Nr. Ex-89.C.1014 |
| | Other certificates: | | | | |
| | VDE (Germany), FTZU (Czech Republic), CEPEL (Brazil), SEV (Switzerland), VNIIEF (Russia) | VDE (Germany), FTZU (Czech Republic), CEPEL (Brazil), SEV (Switzerland) | VDE (Germany), FTZU (Czech Republic), CEPEL (Brazil), SEV (Switzerland) | CEPEL (Brazil), SEV (Switzerland) | CEPEL (Brazil), SEV (Switzerland) |
| Enclosure material | Polyester | Polyester | Polyester | Polyester | Polyester |
| Rated voltage | ... 500 V | ... 690 V + 5 % | > 50 V ... 690 V + 5 % | > 50 V ... 690 V + 5 % | > 50 V ... 690 V + 5 % |
| Rated current | 16 A | 16 A | 32 A | 63 A | 125 A |
| Interlock switch | 3 pole, switch with definite contacts (NC) | 3 pole switch with isolating characteristics 1 auxiliary contact (ON – delayed, OFF – advanced) | | | |
| Handle | – | Actuator is lockable in 0 and I position | | | |
| Switching capacity | AC 21 ²⁾ 16 A, 500 V~ | AC 23 ²⁾ 16 A, 690 V~ | AC 23 ²⁾ 32 A, 690 V~ | AC 23 ²⁾ 63 A, 690 V~ | AC 23 ²⁾ 125 A, 690 V~ |
| | AC 3 ¹⁾ 16 A, 380 V ~ | AC 3 ²⁾ 16 A, 690 V ~ | AC 3 ²⁾ 32 A, 690 V ~ | AC 3 ²⁾ 63 A, 690 V ~ | AC 3 ²⁾ 80 A, 690 V ~ |
| | 4 kW 220 V ~ 230 V ~ 240 V ~ | 4 kW 220 V ~ 230 V ~ 240 V ~ | 7,5 kW 220 V ~ 230 V ~ 240 V ~ | 18,5 kW 220 V ~ 230 V ~ 240 V ~ | 45 kW 220 V ~ 230 V ~ 240 V ~ |
| | | 7,5 kW 380 V ~ 400 V ~ 415 V ~ 500 V ~ | 15 kW 380 V ~ 400 V ~ 415 V ~ | 30 kW 380 V ~ 400 V ~ 415 V ~ | 75 kW 380 V ~ 400 V ~ 415 V ~ |
| | | 11 kW 660 V ~ 690 V ~ | 18,5 kW 500 V ~ 30 kW 660 V ~ 690 V ~ | 37 kW 500 V ~ 55 kW 660 V ~ 690 V ~ | 500 V ~ 660 V ~ 690 V ~ |
| | | DC 3 ³⁾ 0,5 A, 220 V – | DC 3 ³⁾ 10 A, 110 V – | | |
| | DC 21 ⁴⁾ 16 A, 110 V – | | DC 11 ⁴⁾ 32 A, 110 V – | DC 11 ⁴⁾ 63 A, 110 V – | |
| Back-up fuse with therm. protection | according to operating instructions | | | | |
| Terminals | 2 x 4 mm ² , Additional slide-in terminal block with 2 supporting terminals for each 2 x 4 mm ² | 2 x 4 mm ² | 2 x 10 mm ² | 1 x 35 mm ² with cable lug 2 x 35 mm ² | 1 x 120 mm ² with additional clamping saddle 2 x 120 mm ² |
| Degree of protection | IP 65 | IP 65 | IP 65 | IP 66 | IP 66 |
| | IP 54 at the hinged cover | | | | |
| | IP 66 possible upon request | | | | |
| Ambient temperature | –20° C ... +40° C | –20° C ... +40° C | –20° C ... +40° C | –20° C ... +40° C | –20° C ... +40° C |
| | other on request | | | | |
| Cable entries Compression gland | bottom 1 x M 25 | bottom 1 x M 25 | bottom 1 x M 32 | bottom 1 x M 50 | bottom 1 x M 63 |
| | Cable entries are possible on the top or on the side wall (upon request) | | | | |
| Stopping plug | top 1 x M 25 | bottom 1 x M 25 | bottom 1 x M 32 | bottom 1 x M 25 | bottom 1 x M 25 1 x M 63 |
| Plug | 8575/12 | | 8578/12 | 8579/12 | 8581/12 |
| | Technical data, see plugs | | | | |
| Enclosure material | Polyamide | | Polyamide | Polyamide | Polyamide |
| Degree of protection | IP 54 | | IP 54 | IP 65 | IP 65 |
| Terminals | 4 mm ² | | 10 mm ² | 16 mm ² | 35 mm ² |
| Cable entry | ≤ 21 mm outer diameter (corresponding Pg 21) | | ≤ 28 mm outer diameter | ≤ 36 mm outer diameter | ≤ 50 mm outer diameter |

Colour and arrangement of contact bushes

| Operating voltage [V] | Frequency [Hz] | Colour | h-position | | |
|--------------------------|-------------------|--------|------------|-------|-----------|
| | | | 2 P + | 3 P + | 3 P + N + |
| 110 ... 130 | 50/60 | yellow | 4 | 4 | 4 |
| 127/220 ... 138/240 | 50/60 | blue | – | – | 9 |
| 220 ... 240 | 50/60 | | 6 | 9 | – |
| 220/380 ... 240/415 | 50/60 | red | – | – | 6 |
| 250/440 | 60 | | – | – | 11 |
| 380 ... 415 | 50/60 | | 9 | 6 | – |
| 380 | 50 | | – | 3 | – |
| 220/380 | 50 | | – | – | 3 |
| 440 | 60 | | – | 11 | – |
| 500 | 50/60 | black | 7 | 7 | 7 |
| 660 ... 690 | 50/60 | | – | 5 | 5 |
| 100 ... 300 Hz | | green | – | 10 | – |
| 300 ... 500 Hz | | | 2 | 2 | 2 |

Example:
Position clockwise,
Front view
of socket

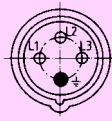


Marking of connections

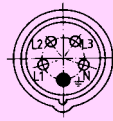
Front view of socket



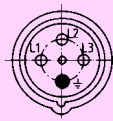
2 P +



3 P +
16 A and 32 A



3 P + N +



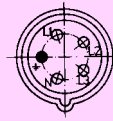
3 P +



3 P + N +



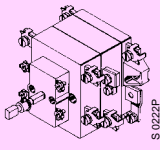
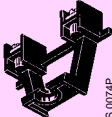
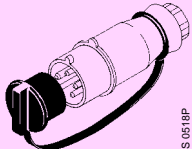
380 V = 6^h



220 V = 9^h

63 A and 125 A

Accessories and spare parts

| Designation | Illustration | Description | Ordering code | Weight [kg] | |
|----------------|---|---------------------------|---|---|-----------------------|
| Switch |  | for socket: | 8575/11 | 80 080 86 02 0 | 0,17 |
| | | | 8575/16 | 80 060 05 01 0 | 0,30 |
| | | | 8578/11 | 85 430 07 01 0 | 1,50 |
| | | | 8578/16 | 85 430 36 01 0 | 1,50 |
| | | | 8579/11 | 85 430 16 02 0 | 1,80 |
| | | | 8581/11 | 85 480 17 02 0 | 3,70 |
| | | Additional terminal block |  | for 8575/13 Additional slide-in terminal block with 2 supporting terminals, each for 2 x 4 mm ² | 85 750 11 66 0 |
| Protection cap |  | for plug 16 A | 3 poles | 85 759 07 14 0 | 0,050 |
| | | | 4 poles | 85 759 06 14 0 | 0,055 |
| | | | 5 poles | 85 759 05 14 0 | 0,060 |
| | | for plug 32 A | 4 poles | 85 789 03 14 0 | 0,070 |
| | | | 5 poles | 85 789 02 14 0 | 0,080 |
| | for plug 63 A | 4/5 poles | 85 798 01 14 0 | 0,100 | |
| | for plug 125 A | 4/5 poles | 85 818 01 14 0 | 0,120 | |