

Plugs and Sockets



8570, 8571 Series and 8575, 8579, 8581 Series

These plug and sockets Series comply with IEC/EN 60 309-1/-2 (CEE) and European standards EN 50 014, EN 50 018 and EN 50 019. 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.


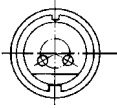


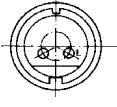
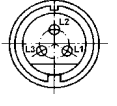


- Explosion protection to
 - CENELEC
 - IEC
 - NEC
- For use in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Certified for
 - gas explosion protection
 - dust explosion protection
- Type of Protection IP 66
- Series
 - 8575: 16 A, extra low voltage
 - 8570: 16 A
 - 8571: 32 A
 - 8579: 63 A
 - 8581: 125 A
- 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 AC3 according to IEC 60 947-3
 - with auxiliary contact for control and signalling purposes

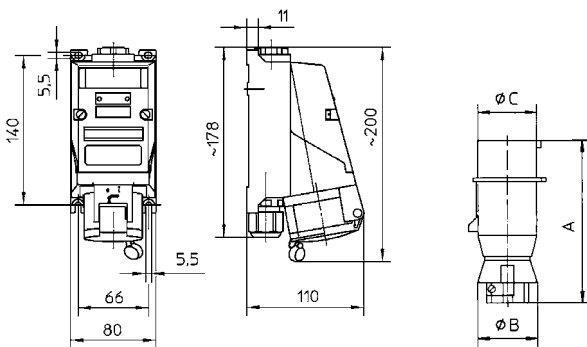
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WEB site: www.BiaGmbH.com



Selection table

| Version | Number of pins | Voltage [V] | Colour | Frequency [Hz] | h | Ordering code | Weight kg |
|--|--|-------------|------------|----------------|----|--------------------|-----------|
| Small socket extra low voltage 16 A  |  2 P | 20 - 25 | violet | 50/60 | -- | 8575/13-100 | 0,920 |
| | | 20 - 25 | violet | DC | 10 | 8575/13-110 | 0,983 |
| | | 40 - 50 | light grey | 50/60 | 12 | 8575/13-112 | 0,900 |
| |  3 P | 20 - 25 | violet | 50/60 | -- | 8575/13-200 | 0,940 |
| | | 40 - 50 | light grey | 50/60 | 12 | 8575/13-212 | 0,940 |
| | | | | | | | |
| Plug 16 A  |  2 P | 20 - 25 | violet | 50/60 | -- | 8575/12-100 | 0,200 |
| | | 20 - 25 | violet | DC | 10 | 8575/12-110 | 0,216 |
| | | 40 - 50 | light grey | 50/60 | 12 | 8575/12-112 | 0,190 |
| |  3 P | 20 - 25 | violet | 50/60 | -- | 8575/12-200 | 0,220 |
| | | 40 - 50 | light grey | 50/60 | 12 | 8575/12-212 | 0,215 |
| | | | | | | | |

Dimension drawings (all dimensions in mm) - subject to alterations



8575/13-...
16 A Small socket






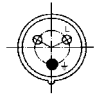
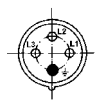
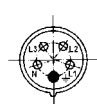
8575/12-...
16 A Plug

| 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 + Ψ) | 159 | 58,5 | 43,5 |

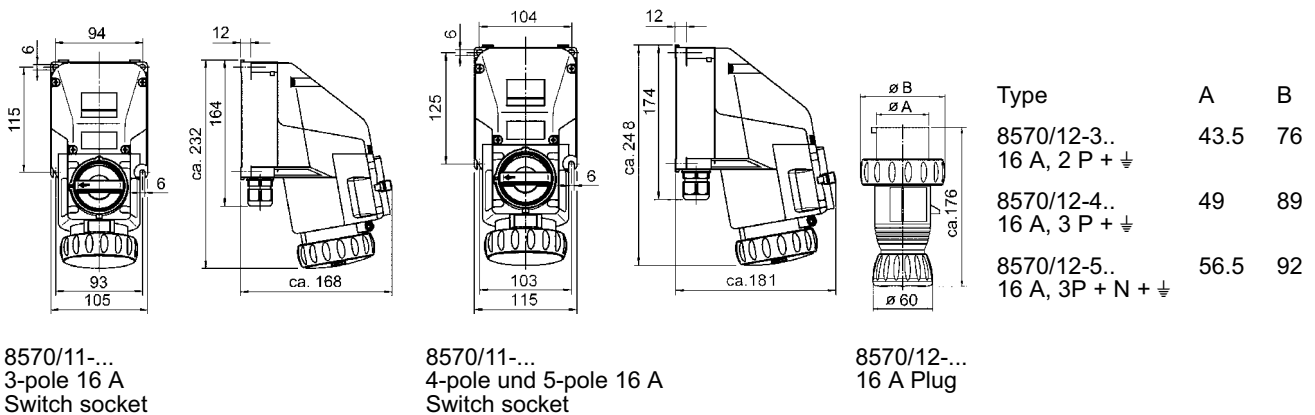
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

Selection table

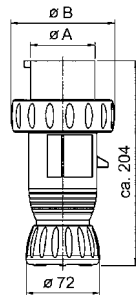
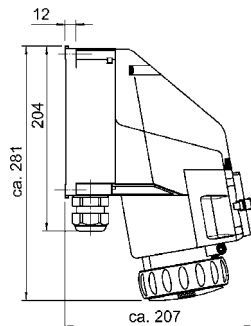
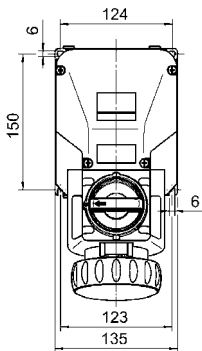
| Version | Number of pins | Voltage [V] | Colour | Frequency [Hz] | h | Ordering code | Weight kg |
|--|---|-------------------|--------|-------------------|---|--------------------|--------------|
| Switch socket 16 A  |  3 P (2 P + PE) | 100 - 130 | yellow | 50/60 | 4 | 8570/11-304 | 1,120 |
| | | 200 - 250 | blue | 50/60 | 6 | 8570/11-306 | 1,120 |
| |  4 P (3 P + PE) | 200 - 250 | blue | 50/60 | 9 | 8570/11-409 | 1,350 |
| | | 380 - 415 | red | 50/60 | 6 | 8570/11-406 | 1,350 |
| | | 480 - 500 | black | 50/60 | 7 | 8570/11-407 | 1,350 |
| |  5 P (3 P + N + PE) | 600 - 690 | black | 50/60 | 5 | 8570/11-405 | 1,350 |
| | | 120/208 - 144/250 | blue | 50/60 | 9 | 8570/11-509 | 1,450 |
| | | 200/346 - 240/415 | red | 50/60 | 6 | 8570/11-506 | 1,450 |
| | | 277/480 - 288/500 | black | 50/60 | 7 | 8570/11-507 | 1,450 |
| | | 347/600 - 400/690 | black | 50/60 | 5 | 8570/11-505 | 1,450 |
| Plug 16 A  |  3 P (2 P + PE) | 100 - 130 | yellow | 50/60 | 4 | 8570/12-304 | 0,310 |
| | | 200 - 250 | blue | 50/60 | 6 | 8570/12-306 | 0,310 |
| |  4 P (3 P + PE) | 200 - 250 | blue | 50/60 | 9 | 8570/12-409 | 0,380 |
| | | 380 - 415 | red | 50/60 | 6 | 8570/12-406 | 0,380 |
| | | 480 - 500 | black | 50/60 | 7 | 8570/12-407 | 0,380 |
| |  5 P (3 P + N + PE) | 600 - 690 | black | 50/60 | 5 | 8570/12-405 | 0,380 |
| | | 120/208 - 144/250 | blue | 50/60 | 9 | 8570/12-509 | 0,430 |
| | | 200/346 - 240/415 | red | 50/60 | 6 | 8570/12-506 | 0,430 |
| | | 277/480 - 288/500 | black | 50/60 | 7 | 8570/12-507 | 0,430 |
| | | 347/600 - 400/690 | black | 50/60 | 5 | 8570/12-505 | 0,430 |

Dimension drawings (all dimensions in mm) - subject to alterations



Selection table

| Version | Number of pins | Voltage [V] | Colour | Frequency [Hz] | h | Ordering code | Weight kg |
|--|--|-------------------|--------|----------------|---|--------------------|-----------|
| Switch socket 32 A  |  4 P (3 P + ⚡) | 200 - 250 | blue | 50/60 | 9 | 8571/11-409 | 2,000 |
| | | 380 - 415 | red | 50/60 | 6 | 8571/11-406 | 2,000 |
| | | 480 - 500 | black | 50/60 | 7 | 8571/11-407 | 2,000 |
| |  5 P (3 P + N + ⚡) | 600 - 690 | black | 50/60 | 5 | 8570/11-405 | 1,350 |
| | | 200/346 - 240/415 | red | 50/60 | 6 | 8571/11-506 | 2,200 |
| | | 277/480 - 288/500 | black | 50/60 | 7 | 8571/11-507 | 2,200 |
| Plug 32 A  |  4 P (3 P + ⚡) | 200 - 250 | blue | 50/60 | 9 | 8571/12-409 | 0,500 |
| | | 380 - 415 | red | 50/60 | 6 | 8571/12-406 | 0,500 |
| | | 480 - 500 | black | 50/60 | 7 | 8571/12-407 | 0,500 |
| |  5 P (3 P + N + ⚡) | 600 - 690 | black | 50/60 | 5 | 8571/12-405 | 0,500 |
| | | 200/346 - 240/415 | red | 50/60 | 6 | 8571/12-506 | 0,600 |
| | | 277/480 - 288/500 | black | 50/60 | 7 | 8571/12-507 | 0,600 |

Dimension drawings (all dimensions in mm) - subject to alterations


| Type | A | B |
|---------------------------------|------|-----|
| 8571/12-4.. (32 A, 3 P + ⚡) | 57 | 99 |
| 8571/12-5.. (32 A, 3 P + N + ⚡) | 63.4 | 102 |


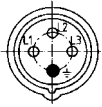



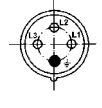

 8571/11-...
 32 A Switch socket

 8571/12-...
 32 A Plug

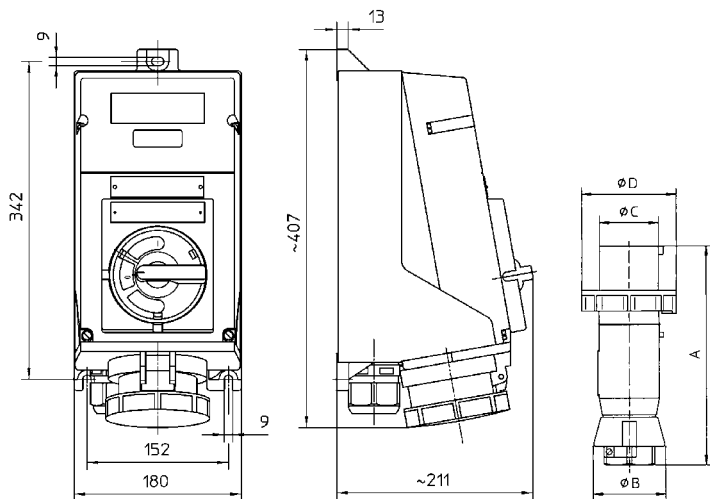
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Selection table

| Version | Number of pins | Voltage [V] | Colour | Frequency [Hz] | h | Ordering code | Weight kg | |
|--|---|---|-----------|----------------|--------------------|--------------------|--------------------|-------|
| Switch socket 63 A  |  4 P (3 P + $\frac{1}{2}$) | 200 - 250 | blue | 50/60 | 9 | 8579/11-409 | 7,020 | |
| | | 380 - 415 | red | 50/60 | 6 | 8579/11-406 | 7,900 | |
| |  4 P (3 P + $\frac{1}{2}$) | 480 - 500 | black | 50/60 | 7 | 8579/11-407 | 7,800 | |
| | | 600 - 690 | black | 50/60 | 5 | 8579/11-405 | 7,020 | |
| |  5 P (3 P + N + $\frac{1}{2}$) | 200/346 - 240/415 | red | 50/60 | 6 | 8579/11-506 | 7,800 | |
| | | 277/480 - 288/500 | black | 50/60 | 7 | 8579/11-507 | 7,120 | |
| | | Plug 63 A  | 200 - 250 | blue | 50/60 | 9 | 8579/12-409 | 0,840 |
| | | | 380 - 415 | red | 50/60 | 6 | 8579/12-406 | 0,935 |
| |  4 P (3 P + $\frac{1}{2}$) | 480 - 500 | black | 50/60 | 7 | 8579/12-407 | 0,900 | |
| | | 600 - 690 | black | 50/60 | 5 | 8579/12-405 | 0,820 | |
|  5 P (3 P + N + $\frac{1}{2}$) | 200/346 - 240/415 | red | 50/60 | 6 | 8579/12-506 | 0,990 | | |
| | 277/480 - 288/500 | black | 50/60 | 7 | 8579/12-507 | 0,880 | | |

Dimension drawings (all dimensions in mm) - subject to alterations


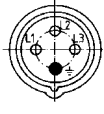






8579/11-...
63 A Switch socket

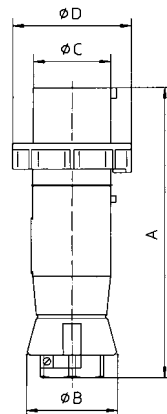
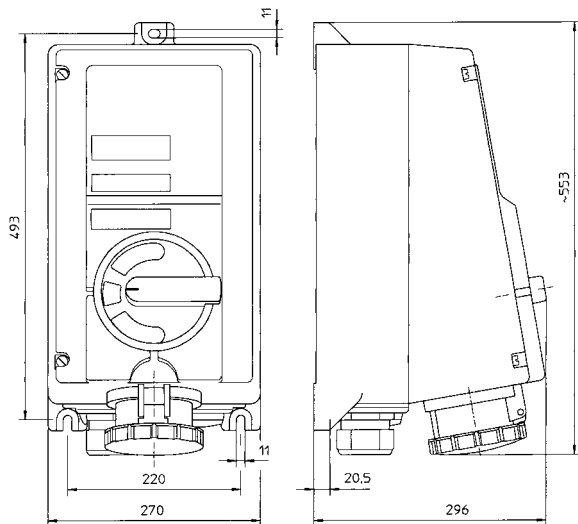
8579/12-...
63 A Plug

| Type | A | B | C | D |
|--|-------|------|------|-----|
| 8579/12-4.. (63 A, 3 P + $\frac{1}{2}$) | 268,5 | 84,0 | 69,5 | 112 |
| 8579/12-5.. (63 A, 3 P + N + $\frac{1}{2}$) | 268,5 | 84,0 | 69,5 | 112 |

Selection table

| Version | Number of pins | Voltage [V] | Colour | Frequency [Hz] | h | Ordering code | Weight kg |
|---|--|-------------------|--------|-------------------|---|--------------------|--------------|
| Switch socket 125 A  |  4 P (3 P + \perp) | 200 - 250 | blue | 50/60 | 9 | 8581/11-409 | 20,800 |
| | | 380 - 415 | red | 50/60 | 6 | 8581/11-406 | 20,920 |
| | | 480 - 500 | black | 50/60 | 7 | 8581/11-407 | 20,920 |
| |  5 P (3 P + N + \perp) | 200/346 - 240/415 | red | 50/60 | 6 | 8581/11-506 | 22,040 |
| | | 277/480 - 288/500 | black | 50/60 | 7 | 8581/11-507 | 22,040 |
| | | | | | | | |
| Plug 125 A  |  4 P (3 P + \perp) | 200 - 250 | blue | 50/60 | 9 | 8581/12-409 | 1,280 |
| | | 380 - 415 | red | 50/60 | 6 | 8581/12-406 | 1,280 |
| | | 480 - 500 | black | 50/60 | 7 | 8581/12-407 | 1,280 |
| |  5 P (3 P + N + \perp) | 200/346 - 240/415 | red | 50/60 | 6 | 8581/12-506 | 1,380 |
| | | 277/480 - 288/500 | black | 50/60 | 7 | 8581/12-507 | 1,380 |
| | | | | | | | |

Dimension drawings (all dimensions in mm) - subject to alterations



| | 8581/12-4... 125 A 3 P + \perp | 8581/12-5... 125 A 3 P + N + \perp |
|---|--|--|
| A | 310.5 | 310.5 |
| B | 96.0 | 96.0 |
| C | 82.0 | 82.0 |
| D | 125 | 125 |

8581/11-...
125 A Switch socket

8581/12-...
125 A Plug

Technical Data

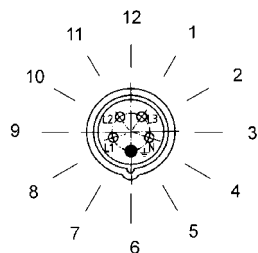
| Socket | 8570/11 (16 A) | 8571/11 (32 A) |
|-------------------------------|---|--|
| Explosion protection | | |
| Gas explosion protection | ⊕ II 2 G EEx ed IIC T6 | ⊕ II 2 G EEx ed IIC T6 |
| Dust explosion protection | ⊕ II 2 D IP 66 T80 °C | ⊕ II 2 D IP 66 T80 °C |
| Certificates | | |
| Gas explosion protection | PTB 03 ATEX 1227 | PTB 04 ATEX 1060 |
| Dust explosion protection | PTB 03 ATEX 1227 | PTB 04 ATEX 1060 |
| Rated voltage | | |
| Main contacts | max. 690 V AC max. 110 V DC | max. 690 V AC max. 110 V DC |
| Auxiliary contacts | max. 500 V AC | max. 500 V AC |
| Rated current | | |
| Main contacts | 16 A | 32 A |
| Auxiliary contacts | max. 6 A | max. 6 A |
| Switching capacity | | |
| | Main contacts: | Main contacts: |
| | AC 3 690 V 16 A | AC 3 690 V 32 A |
| | 4 kW 220 V / 230 V / 240 V | 7.5 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 |
| | 11 kW 600 V / 690 V | 30 kW 600 V / 690 V |
| | DC1 110 V 16 A | |
| | Auxiliary contacts: | Auxiliary contacts: |
| | AC 15 500 V max. 1250 VA | AC 15 500 V max. 1250 VA |
| | AC 15 230 V max. 1380 VA | AC 15 230 V max. 1380 VA |
| | AC 12 500 V max. 3000 VA | AC 12 500 V max. 3000 VA |
| | DC 13 110 V 110 W | DC 13 110 V 110 W |
| Back-up fuse | | |
| without therm. protection | 16 A gL | 35 A gL |
| with therm. protection | 35 A gL | 63 A gL |
| Ambient temperature | | |
| | - 30 °C ... + 55 °C | - 30 °C ... + 55 °C |
| Interlocked switch | | |
| | 3 pole switch 2 auxiliary contacts (ON - delayed, OFF - advanced) | 3 pole switch 2 auxiliary contacts (ON - delayed, OFF - advanced) |
| Handle | | |
| | Actuator is lockable in 0 and I position | Actuator is lockable in 0 and I position |
| Enclosure material | | |
| | Polyamide GF30 | Polyamide GF30 |
| Degree of protection | | |
| | IP 66 | IP 66 |
| Terminals | | |
| | 2 x 1.5 mm ² ... 6 mm ² solid 2 x 1.5 mm ² ... 4 mm ² flexible | 2 x 2.5 mm ² ... 10 mm ² solid 2 x 2.5 mm ² ... 6 mm ² flexible |
| Cable entries | | |
| Cable gland | 1 x M 25 x 1,5 Cable entries are possible on the top or on the side wall (upon request) | 1 x M 32 x 1,5 Cable entries are possible on the top or on the side wall (upon request) |
| Stopping plug | 1 x M 25 x 1,5 | 1 x M 32 x 1,5 |
| Plug | | |
| 8570/12 | | 8571/12 |
| Further technical data | | |
| | see sockets | see sockets |
| Enclosure material | | |
| | Polyamide GF30 | Polyamide GF30 |
| Degree of protection | | |
| | IP 66 | IP 66 |
| Terminals | | |
| | 1 x 1.5 mm ² ... 4 mm ² flexible | 1 x 2.5 mm ² ... 10 mm ² flexible |
| Cable entries | | |
| | 8 mm ... 20 mm outer diameter | 15 mm ... 28 mm outer diameter |

Technical Data

| Socket | 8575/13 (16 A Extra Low Voltage) | 8579/11 (63 A) | 8581/11 (125 A) |
|---------------------------|--|---|--|
| Explosion protection | | | |
| Gas explosion protection | ⊕ II 2 G EEx ed IIC T6 or T5 | ⊕ II 2 G EEx ed [ib] IIC T5 | ⊕ II 2 G EEx ed [ib] IIC T6 or T5 |
| Dust explosion protection | ⊕ II 3 D IP 66 T80 °C, T95 °C | ⊕ II 2 D IP 66 T95 °C, T130 °C | ⊕ II 2 D IP 66 T80 °C, T95 °C |
| Certificates | | | |
| Gas explosion protection | PTB 01 ATEX 1044 | PTB 01 ATEX 1150 | PTB 01 ATEX 1161 |
| Dust explosion protection | -- | PTB 01 ATEX 1150 | PTB 01 ATEX 1161 |
| Other certificates | CSA (Canada), FM (USA), VNIIEF (Russia) | CSA (Canada), FM (USA), UL do Brasil (Brazil) | UL do Brasil (Brazil) |
| Rated voltage | | | |
| Main contacts | max. 50 V | max. 690 V | max. 690 V |
| Auxiliary contacts | -- | max. 400 V AC | max. 400 V AC |
| Rated current | | | |
| Main contacts | 16 A | 63 A | 125 A |
| Auxiliary contacts | -- | max. 6 A | max. 6 A |
| Switching capacity | AC 3: 50 V 16 A | AC 3: 690 V 63 A 18,5 kW: 220 V 230 V 240 V 30 kW: 380 V 400 V 415 V 37 kW: 500 V 55 kW: 690 V | AC 3: 500 V 125 A AC 23: 690 V 125 A |
| Back-up fuse | | | |
| without therm. protection | 16 A gL/gG | 63 A gL/gG | 125 A gL/gG |
| with therm. protection | 35 A gL/gG | 80 A gL/gG | 160 A gL/gG |
| Ambient temperature | - 20 °C ... + 40 °C | - 20 °C ... + 40 °C | - 20 °C ... + 40 °C |
| Interlocked switch | 3 pole, switch with definite contacts (NC) | 3 pole switch with isolating characteristics 1 auxiliary contact (ON - delayed, OFF - advanced) | 3 pole switch with isolating characteristics 1 auxiliary contact (ON - delayed, OFF - advanced) |
| Handle | -- | Actuator is lockable in 0 and I position | Actuator is lockable in 0 and I position |
| Enclosure material | Polyester resin | Polyester resin | Polyester resin |
| Degree of protection | IP 66 IP 54 plug inserted | IP 66 | IP 66 |
| Terminals | 2 x 4 mm ² , Additional slide-in terminal block with 2 supporting terminals for each 2 x 4 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 |
| Cable entries | | | |
| Cable gland | 1 x M 25 x 1,5 Cable entries are possible on the top or on the side wall (upon request) | 1 x M 50 x 1,5 Cable entries are possible on the top or on the side wall (upon request) | 1 x M 63 x 1,5 Cable entries are possible on the top or on the side wall (upon request) |
| Stopping plug | 1 x M 25 x 1,5 | 1 x M 25 x 1,5 | 1 x M 25 x 1,5; 1 x M 63 x 1,5 |
| Plug | 8575/12 | 8579/12 | 8581/12 |
| Further technical data | see sockets | see sockets | see sockets |
| Enclosure material | Polyamide | Polyamide | Polyamide |
| Degree of protection | IP 54 | IP 65 | IP 65 |
| Terminals | 4 mm ² | 16 mm ² | 35 mm ² |
| Cable entries | 11 mm ... 21 mm outer diameter | 24 mm ... 36 mm outer diameter | 30 mm ... 50 mm outer diameter |

Arrangement of contact bushes

Example:
Position clockwise,
Front view of socket



Example:
Position
clockwise



230 V = 6 h

Marking of contacts
Front view of socket



2 P + \perp
16 A



3 P + \perp
16 A to 125 A



3 P + N + \perp
16 A to 125 A

Accessories and spare parts

| Designation | Illustration | Description | Ordering code | Weight kg |
|---------------------------|--------------|---|--|----------------------------------|
| Switch | | for socket: 8579/11 | 8543016020 | 1,573 |
| | | for socket: 8581/11 | 8548017020 | 4,101 |
| Auxiliary contact | | for socket 8570 and 8571 1 NO 1 NC 1 NO, gold contact 1 NC, gold contact | 8570802760 8570801760 8570804760 8570803760 | 0,125 0,125 0,125 0,125 |
| Additional terminal block | | for 8575/13 additional slide-in terminal block with 2 supporting terminals, each for 2 x 4 mm ² | 8575011660 | 0,019 |
| Protection cap | | for plug 16 A 3 poles not for extra- low voltage version | 8575907140 | 0,041 |
| | | for plug 16 A 4 poles | 8575906140 | 0,048 |
| | | for plug 16 A 5 poles | 8575905140 | 0,057 |
| | | for plug 32 A 4 poles | 8578903140 | 0,070 |
| | | for plug 32 A 5 poles | 8578902140 | 0,107 |
| | | for plug 63 A 4/5 poles | 8579801140 | 0,100 |
| | | for plug 125 A 4/5 poles | 8581801140 | 0,120 |