

8579/31-411 Art. No. 270908



- Reliable load disconnect switch with easily visible, lockable handle and switching position display
- An integrated auxiliary contact for control and signalling purposes, can optionally be enhanced with pluggable, easily retrofittable Ex e or Ex i auxiliary contacts
- Wide temperature range for use
- High mechanical impact and shock resistance
- Perfect protection against the ingress of liquids and dust
- 3D data available to download from the website

MY R. STAHL 8579A



R. STAHL Series 8579/31 sockets for Zone 1/21 in a 4- and 5-pole version have full AC-3 switching capacity up to 63 A. The high degree of protection IP66 guarantees the highest level of protection against the penetration of dust and water in any application position. Self-cleaning lamellar contacts provide optimum contact and the plugs can be inserted and removed in the zero position quickly and easily. The load disconnect switch, with mechanical locking device and a handle that can be locked in the 0 or I position, is an additional safety feature.

Technical Data

Explosion Protection

| | |
|---------------------------------|---|
| Scope of validity | European Union (ATEX) IECEX China (CQST) |
| Scope of validity Note | Other country markings available on request |
| Application range (zones) | 1 2 21 22 |
| IECEX gas certificate | IECEX PTB 06.0020 |
| IECEX gas explosion protection | Ex db eb IIC T6 ... T5 Gb |
| IECEX dust certificate | IECEX PTB 06.0020 |
| IECEX dust explosion protection | Ex tb IIIC T60 °C / T75 °C Db |
| ATEX gas certificate | PTB 01 ATEX 1150 |
| ATEX gas explosion protection | Ex II 2 G Ex db eb IIC T6 ... T5 Gb |
| ATEX dust certificate | PTB 01 ATEX 1150 |
| ATEX dust explosion protection | Ex II 2 D Ex tb IIIC T60 °C / T75 °C Db |
| Certificates | ATEX (PTB), Brazil (ULB), China (CQST), IECEX (PTB), Korea (KGS), Taiwan (ITRI) |
| Declaration of Conformity | ATEX (EGK), China (CCC) |

Electrical Data

| | |
|------------------------------|--------------------------------------|
| Rated operational voltage AC | 440 to 460 V AC |
| Rated operational current | max. 63 A |
| Electrical service life | > 2x10 ⁴ switching cycles |
| Mechanical service life | > 2x10 ⁴ switching cycles |
| Type of voltage | Low voltage |

Installation equipment

Wall-mounting socket 63 A



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Electrical Data

| | |
|----------------------------------|---|
| Switching capacity main contacts | AC-3 690 V, 63 A 18.5 kW: 220 / 230 / 240 V 30 kW: 380 / 400 / 415 V 37 kW: 500 V 55 kW: 690 V |
| Auxiliary contacts | 2 (1 NO + 1 NC) |
| Frequency range | 60 Hz |

Device Specific Data

| | |
|---|---------|
| Back-up fuse with thermal protection | 80 A gG |
| Back-up fuse without thermal protection | 63 A gG |

Ambient Conditions

| | |
|---------------------|-------------------|
| Ambient temperature | -45 °C to +55 °C |
| Ambient temperature | -49 °F to +131 °F |

Mechanical Data

| | |
|--|---|
| Degree of protection IP (IEC 60529) | IP66 |
| IP degree of protection (IEC 60079) | IP66 |
| Enclosure material | Polyester, Glass fibre reinforced |
| Silicone-free | No |
| Multiple conductor connection | 2 x 16 mm ² |
| Multiple conductor connection AWG | 2 x AWG 6 |
| Finely stranded connection cross-section | 1 x 16 mm ² ... 1 x 50 mm ² |
| Finely stranded connection cross-section AWG | 1 x AWG 6 ... 1 x AWG 1/0 |
| Stranded connection cross-section | 1 x 16 mm ² ... 1 x 50 mm ² |
| Stranded connection cross-section AWG | 1 x AWG 6 ... 1 x AWG 1/0 |
| Width | 180 mm |
| Width in inches | 7.09 in |
| Height | 212 mm |
| Height, inches | 8.36 in |
| Length | 413 mm |
| Length, inches | 16.27 in |
| Impact strength (IEC 60079) | 7 J |
| Impact strength (IEC 62262) | IK10 |
| Colour code | Red |
| Coding (clock hour position) | 11 |
| Lockable in | in 0- and I-position |
| Series | SolConeX |
| Detailed number of poles | 3 P + PE |
| Weight | 7.8 kg |
| Weight | 17.2 lb |

Mounting / Installation

| | |
|------------|----------------|
| Connection | Screw terminal |
|------------|----------------|

Components

| | |
|------------------|---|
| Cable entry note | Entry 1: Lower left Entry 2: Lower right |
|------------------|---|

Installation equipment

Wall-mounting socket 63 A

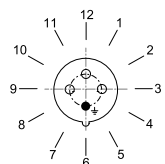


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Components

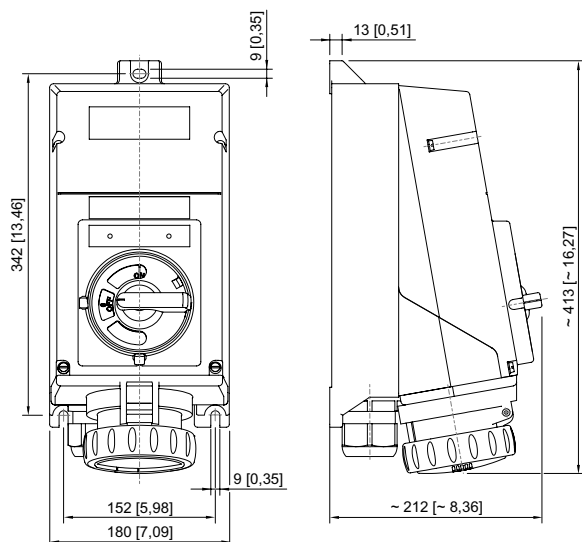
| | |
|------------------------------|-------------------------|
| Entry 1 model | 8161/7-M50-3516-LT |
| Entry 1 type | Polyamide cable gland |
| Entry 1 | M50 x 1.5 |
| Entry 1 terminal area | 16 – 35 mm |
| Entry 1 clamping range, inch | 0.63 – 1.38 in |
| Metal entry possible 1 | No |
| Entry 2 model | 8290/3-M25 |
| Entry 2 type | Polyamide stopping plug |
| Entry 2 | M25 x 1.5 |
| Metal entry possible 2 | No |

Technical Drawings – Subject to Alterations



Position of clock hour position
Example: 6 h position

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Wall-mounting socket

Accessories

Auxiliary contact


Art. No.

Installation equipment

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| | | |
|--|--|--------|
|  | 2 NC (8080/1-3) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm ² , solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising | 168356 |
| | 1 NC + 1 NO (8080/1-1) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm ² , solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left: Delayed (ON), leading (OFF) Right: Synchronising | 168351 |
| | 2 NO (8080/1-4) 250 V AC/DC Max. 6 A 1.5 to 2.5 mm ² , solid/finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: Synchronising | 168353 |

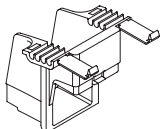
Cable gland made of plastic

Art. No.

| | | |
|---|--|--------|
|  | 8161/7-M25-1707, Ex e Plastic, M25 x 1.5, cable outer diameter 7 to 17 mm Lot size 50 pieces | 239157 |
|---|--|--------|


Ex i cover

Art. No.

| | | |
|--|---|--------|
|  | Ex i cover for auxiliary contacts for use in Ex i electrical circuits | 168855 |
|--|---|--------|


Plastic cable gland

Art. No.

| | | |
|--|--|--------|
|  | 8161/7-M50-3516, Ex e Plastic, M50 x 1.5, cable outer diameter 16 to 35 mm Lot size 4 pieces | 239160 |
|--|--|--------|

Stopping plug


Art. No.

| | | |
|--|--|--------|
|  | 8290/3-M25 Plastic, M25 x 1.5 Lot size 1 piece | 143524 |
|--|--|--------|

Spare Parts

Auxiliary contact key

Art. No.

| | | |
|--|---|--------|
|  | For removing installed auxiliary contacts | 201909 |
|--|---|--------|

Installation equipment

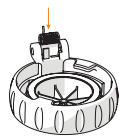
Wall-mounting socket 63 A



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Repair set for Series 8579 sockets

Art. No.

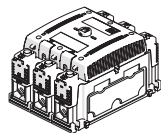


Repair set 8579 hinged cover, red

275508

Switch insert

Art. No.



8544/1-31L

167239

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