

8579/31-409 Art. No. 270907



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

### MY R. STAHL 8579A



The R. STAHL Series 8579/31 sockets for Zone 1/21 in 4- and 5-pole versions have full AC-3 switching capacity up to 63 A. The high degree of protection (IP66) ensures maximum protection against the ingress of dust and water in any application situation. 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 a 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

|                                 |                                                                   |
|---------------------------------|-------------------------------------------------------------------|
| Area of application             | European Union (ATEX)<br>IECEX<br>China (CQST)                    |
| Area of application 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 | II 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), IECEX (PTB), Korea (KGS), Taiwan (ITRI) |
| Declaration of conformity       | ATEX (EGK), China (CCC)                                           |

### Electrical Data

|                              |                                      |
|------------------------------|--------------------------------------|
| Type of voltage              | Low voltage                          |
| AC rated operational voltage | 200 ... 250 V AC                     |
| Frequency                    | 50 / 60 Hz                           |
| Rated operational current    | max. 63 A                            |
| Rated operational current    | 63 A                                 |
| Electrical service life      | > 2x10 <sup>4</sup> switching cycles |
| Mechanical service life      | > 2x10 <sup>4</sup> switching cycles |

# Installation equipment

## 63 A wall-mounting socket

**STAHL**

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**Electrical Data**

|                                  |                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------|
| Switching capacity main contacts | AC-3<br>690 V, 63 A<br>18.5 kW: 220/230/240 V<br>30 kW: 380/400/415 V<br>37 kW: 500 V<br>55 kW: 690 V |
| Auxiliary contacts               | 2 (1 NO + 1 NC)                                                                                       |
| Frequency range                  | 50 / 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 ... 40 °C<br>-45 °C ... 55 °C |
| 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 <sup>2</sup>                            |
| Multiple conductor connection AWG            | 2 x AWG 6                                         |
| Finely stranded connection cross-section     | 1 x 16 mm <sup>2</sup> ... 1 x 50 mm <sup>2</sup> |
| Finely stranded connection cross-section AWG | 1 x AWG 6 ... 1 x AWG 1/0                         |
| Stranded connection cross-section            | 1 x 16 mm <sup>2</sup> ... 1 x 50 mm <sup>2</sup> |
| Stranded connection cross-section AWG        | 1 x AWG 6 ... 1 x AWG 1/0                         |
| Detailed number of poles                     | 3 P + PE                                          |
| Width                                        | 180 mm                                            |
| Width, inches                                | 7.09 in                                           |
| Height                                       | 212 mm                                            |
| Height in inches                             | 8.36 in                                           |
| Length                                       | 413 mm                                            |
| Length in inches                             | 16.27 in                                          |
| Impact strength (IEC 60079)                  | 7 J                                               |
| Impact strength (IEC 62262)                  | IK10                                              |
| Colour code                                  | Blue                                              |
| Coding (clock hour position)                 | 9                                                 |
| Lockable in                                  | in 0- and I-position                              |
| Series                                       | SolConeX                                          |
| Weight                                       | 7.8 kg                                            |
| Weight                                       | 17.2 lb                                           |

**Mounting / Installation**

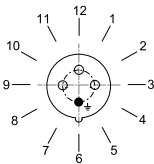
|            |                |
|------------|----------------|
| Connection | Screw terminal |
|------------|----------------|

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Components

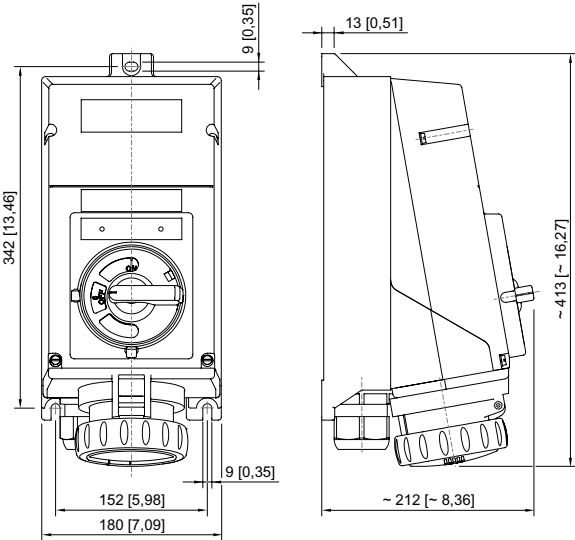
|                              |                                               |
|------------------------------|-----------------------------------------------|
| Cable entry note             | Entry 1: Bottom left<br>Entry 2: Bottom right |
| Entry 1 model                | 8161/7-M50-3516-LT                            |
| Entry 1 type                 | Polyamide cable gland                         |
| Entry 1                      | M50 x 1.5                                     |
| Entry 1 clamping range       | 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

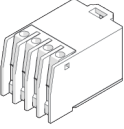


Wall-mounting socket

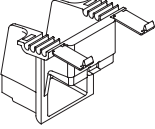
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### Accessories

#### Auxiliary contact

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

#### Ex i cover

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

#### Plastic cable gland

|                                                                                    |                                                                                                    |        |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------|
|  | 8161/7-M25-1707, Ex e<br>Plastic, M25 x 1.5, cable outer diameter 7 to 17 mm<br>Lot size 50 pieces | 239157 |
|                                                                                    | 8161/7-M50-3516, Ex e<br>Plastic, M50 x 1.5, cable outer diameter 16 to 35 mm<br>Lot size 4 pieces | 239160 |

#### Plug

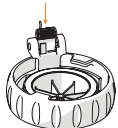
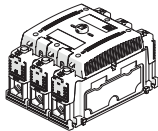
|                                                                                    |                                                          |        |
|------------------------------------------------------------------------------------|----------------------------------------------------------|--------|
|  | 8579/12-409 4-pole plug, 200 to 250 V AC, 50/60 Hz, 63 A | 270917 |
|------------------------------------------------------------------------------------|----------------------------------------------------------|--------|

#### Stopping plug

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

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## Spare Parts

| Auxiliary contact key                                                            |                                           | Art. No. |
|----------------------------------------------------------------------------------|-------------------------------------------|----------|
|  | For removing installed auxiliary contacts | 201909   |
| Repair set for Series 8579 sockets                                               |                                           | Art. No. |
|  | Repair set 8579 hinged cover, blue        | 275507   |
| Switch insert                                                                    |                                           | Art. No. |
|  | 8544/1-31L                                | 167239   |

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.