

## Installation equipment

### 20 A flange socket

#### Flange socket

8570/25-407-S-XX-X-00-XXX Art. No. 290138



- Different voltage ranges according to EN 60309
- Large temperature range of use
- Small dimensions for integration into machines and connection chambers
- High mechanical impact and shock resistance
- Perfect protection against penetration of liquids and dusts
- 3D data for download on the website
- Appropriate Series 8570/22 plug

#### MY R. STAHL 8570W



R. STAHL Series 8570/25 SolConeX flange sockets constitute incomplete equipment and are intended for installation in an enclosure with the following types of protection: "eb" or "tb". When installed in an enclosure, they are approved for use in hazardous areas that are classified for the zone or division according to NEC 505. 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. Thanks to the compact design, the flange socket can be integrated into nearly all enclosures and, with the internal locking device, ensures fast and safe connection of devices.

## Technical Data

### Explosion Protection

|                                 |                                                                                                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Area of application             | European Union (ATEX)<br>Canada<br>IECEX<br>USA                                                                                                                      |
| Application range (zones)       | 1, 2, 21, 22                                                                                                                                                         |
| IECEX gas certificate           | IECEX PTB 19.0018U                                                                                                                                                   |
| IECEX gas explosion protection  | Ex db eb IIC Gb                                                                                                                                                      |
| IECEX dust certificate          | IECEX PTB 19.0018U                                                                                                                                                   |
| IECEX dust explosion protection | Ex tb IIIC Db                                                                                                                                                        |
| ATEX gas certificate            | PTB 19 ATEX 1005 U                                                                                                                                                   |
| ATEX gas explosion protection   | Ex II 2 G Ex db eb IIC Gb                                                                                                                                            |
| ATEX dust certificate           | PTB 19 ATEX 1005 U                                                                                                                                                   |
| ATEX dust explosion protection  | Ex II 2 D Ex tb IIIC Db                                                                                                                                              |
| FMus certificate                | FM20US0118U                                                                                                                                                          |
| Marking FMus                    | Class I, Div. 2, Groups A,B,C,D;<br>Class II, III, Div. 1, Groups E,F,G,<br>Enclosure Type 3, 4, 4X<br>Class I, Zone 1, AEx db eb IIC Gb;<br>Zone 21, AEx tb IIIC Db |
| cFM certificate                 | FM20CA0058U                                                                                                                                                          |
| Marking cFM                     | Ex db eb IIC Gb;<br>Class I, Div. 2, Groups A,B,C,D;<br>Class II, III, Div. 1, Groups E,F,G,<br>Enclosure Type 3, 4, 4X<br>Ex tb IIIC Db                             |

# Installation equipment

## 20 A flange socket

### Flange socket

8570/25-407-S-XX-X-00-XXX Art. No. 290138

STAHL

#### Explosion Protection

|               |                                                                                         |
|---------------|-----------------------------------------------------------------------------------------|
| Certificates  | ATEX (PTB), Brazil (ULB), Canada (FM), China (CQST), IECEx (PTB), Korea (KGS), USA (FM) |
| Ship approval | DNV                                                                                     |

#### Electrical Data

|                           |                                      |
|---------------------------|--------------------------------------|
| Type of voltage           | Low voltage                          |
| Rated operational voltage | 480 V AC                             |
| Rated operational current | 20 A                                 |
| Electrical service life   | > 5x10 <sup>3</sup> switching cycles |
| Mechanical service life   | > 5x10 <sup>3</sup> switching cycles |
| Nominal power             | 10 hp                                |
| Frequency range           | 50 / 60 Hz                           |

#### Device Specific Data

|                                         |         |
|-----------------------------------------|---------|
| Back-up fuse with thermal protection    | 35 A gG |
| Back-up fuse without thermal protection | 20 A gG |

#### Ambient Conditions

|                     |                   |
|---------------------|-------------------|
| Ambient temperature | -50 °C to +65 °C  |
| Ambient temperature | -58 °F to +149 °F |

#### Mechanical Data

|                                              |                                                   |
|----------------------------------------------|---------------------------------------------------|
| Degree of protection IP (IEC 60529)          | IP66                                              |
| IP degree of protection (IEC 60079)          | IP64                                              |
| Enclosure type (NEMA250)                     | 3, 4, 4X                                          |
| Enclosure material                           | Polyamide, Glass fibre reinforced                 |
| Silicone-free                                | No                                                |
| Solid connection cross-section               | 1 x 1.5 mm <sup>2</sup> ... 2 x 6 mm <sup>2</sup> |
| Connection cross-section AWG single stranded | 1 x AWG 16 ... 2 x AWG 10                         |
| Finely stranded connection cross-section     | 1 x 1.5 mm <sup>2</sup> ... 2 x 4 mm <sup>2</sup> |
| Finely stranded connection cross-section AWG | 1 x AWG 16 ... 2 x AWG 12                         |
| Detailed number of poles                     | 3-pole, 4 conductors                              |
| Detailed pole number 2                       | 3 P + PE                                          |
| Width                                        | 97 mm                                             |
| Width, inches                                | 3.82 in                                           |
| Height                                       | 136 mm                                            |
| Height in inches                             | 5.35 in                                           |
| Length                                       | 208 mm                                            |
| Length in inches                             | 8.19 in                                           |
| Impact strength (IEC 60079)                  | 7 J                                               |
| Impact strength (IEC 62262)                  | IK10                                              |
| Colour code                                  | Red                                               |
| Coding (clock hour position)                 | 7                                                 |
| Lockable in                                  | in 0- and I-position                              |
| Interlock                                    | Prevents the plug from being pulled under load    |
| Series                                       | SolConeX                                          |
| Weight                                       | 900 g                                             |

Installation equipment

20 A flange socket

Flange socket

8570/25-407-S-XX-X-00-XXX    Art. No. 290138



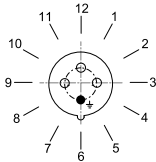
Mechanical Data

|        |         |
|--------|---------|
| Weight | 1.98 lb |
|--------|---------|

Mounting / Installation

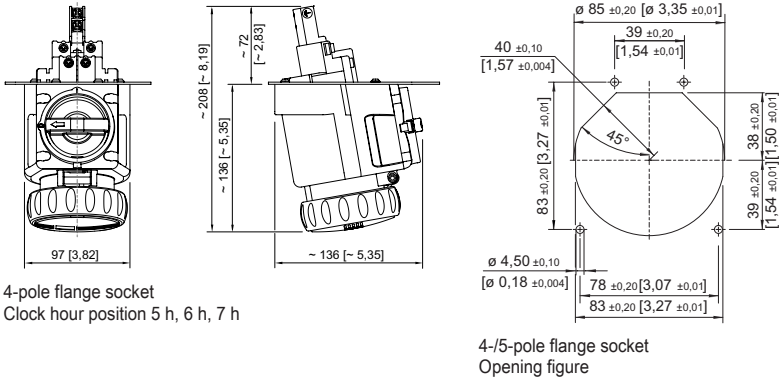
|            |                |
|------------|----------------|
| Connection | Screw terminal |
|------------|----------------|

Technical Drawings – Subject to Alterations

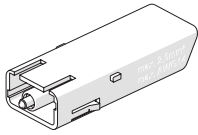
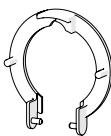


Position of clock hour position  
Example: 6 h position

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



Accessories

| Auxiliary contact optional, pluggable by the user, easy to retrofit                |                                                                                                                                                               | Art. No. |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|  | 1 NC<br>Max. 500 V AC, max. 110 V DC<br>Max. 6 A<br>1 x AWG 20 to 2 x AWG 14, 1 x 0.5 to 2 x 2.5 mm <sup>2</sup> , solid/finely stranded                      | 150688   |
|                                                                                    | 1 NO<br>Max. 500 V AC, max. 110 V DC<br>Max. 6 A<br>1 x AWG 20 to 2 x AWG 14, 1 x 0.5 to 2 x 2.5 mm <sup>2</sup> , solid/finely stranded                      | 150690   |
|                                                                                    | 1 NO, gold-plated contact<br>Max. 500 V AC, max. 110 V DC<br>Max. 6 A<br>1 x AWG 20 to 2 x AWG 14, 1 x 0.5 to 2 x 2.5 mm <sup>2</sup> , solid/finely stranded | 150692   |
| Dust cover for sockets, Series 8570                                                |                                                                                                                                                               | Art. No. |
|  | Retrofittable dust protection for 4-pole sockets                                                                                                              | 255003   |

## Installation equipment

20 A flange socket

Flange socket

8570/25-407-S-XX-X-00-XXX Art. No. 290138

STAHL

### Plug



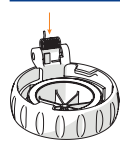
8570/22-407-S-XX-X-XX-XXX plug, 3-pole, 4-wire, 480 V AC, 50/60 Hz, 20 A

### Art. No.

291379

## Spare Parts

### Repair set for Series 8570 sockets



Repair set 8570 hinged cover, 4-pole, red

### Art. No.

274113

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.