



## SRB-E-201ST

- Plug-in screw terminals with coding
- STOP 0 Function
- 1 oder 2-channel control
- Start button / Auto-start
- Monitoring two-hand control panels to EN 574 IIIC
- 2 Safety outputs 5.5 A
- 1 Signalling output

## Data

### Ordering data

|                               |               |
|-------------------------------|---------------|
| Product type description      | SRB-E-201ST   |
| Article number (order number) | 103008067     |
| EAN (European Article Number) | 4030661478456 |
| eCl@ss number, version 12.0   | 27-37-18-19   |
| eCl@ss number, version 11.0   | 27-37-18-19   |
| eCl@ss number, version 9.0    | 27-37-18-19   |
| ETIM number, version 7.0      | EC001449      |
| ETIM number, version 6.0      | EC001449      |

### Approvals - Standards

|              |                     |
|--------------|---------------------|
| Certificates | TÜV<br>cULus<br>CCC |
|--------------|---------------------|

### General data

|                  |  |
|------------------|--|
| Standards        | EN IEC 62061<br>EN ISO 13849-1<br>EN IEC 60947-5-1<br>EN IEC 60947-5-3<br>EN IEC 60947-5-5<br>EN IEC 61508<br>EN IEC 60204-1<br>EN IEC 60947-1 |
| Climatic stress  | EN 60068-2-78  |
| Housing material | Glass-fibre reinforced thermoplastic, ventilated   |
| Gross weight     | 130 g  |

## General data - Features

|  |     |
|--|-----|
| Electronic Fuse                          | Yes |
| Wire breakage detection                  | Yes |
| Cross-circuit detection                  | Yes |
| Removable Terminals                      | Yes |
| Start input                              | Yes |
| Feedback circuit                         | Yes |
| Automatic reset function                 | Yes |
| Reset edge detection                     | Yes |
| Earth connection detection               | Yes |
| Integral system diagnostics, status      | Yes |
| Integral system diagnostics, error code  | Yes |
| Number of LEDs                           | 5   |
| Number of normally closed (NC)           | 2   |
| Number of normally open (NO)             | 1   |
| Number of safety digital outputs, Stop 0 | 2   |
| Number of signalling outputs             | 1   |

## Safety classification

|               |  |
|---------------|--|
| Standards     | EN ISO 13849-1<br>EN IEC 62061<br>EN IEC 61508 |
| Stop-Category | 0  |

### Safety classification - Fail-safe digital outputs

|  |                          |
|--|--------------------------|
| Performance Level, up to                                   | e                        |
| Category   | 4                        |
| PFH value  | $2.66 \times 10^{-9}$ /h |
| PFD value  | $2.42 \times 10^{-5}$    |
| Safety Integrity Level (SIL), suitable for applications in | 3                        |
| Mission time   | 20 Year(s)               |

### Mechanical data

|          |  |
|----------|--|
| Mounting | Snaps onto standard DIN rail to EN 60715 |
|----------|--|

### Mechanical data - Connection technique

|                            |  |
|----------------------------|--|
| Terminal designations      | IEC/EN 60947-1                                 |
| Termination                | rigid or flexible<br>Screw connection, plug-in |
| Cable section, minimum     | 0.25 mm <sup>2</sup>                           |
| Cable section, maximum     | 2.5 mm <sup>2</sup>                            |
| Tightening torque of Clips | 0.5 Nm   |

### Mechanical data - Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 98 mm   |
| Depth  | 115 mm  |

### Ambient conditions

|  |                |
|--|----------------|
| Degree of protection of the enclosure      | IP40           |
| Degree of protection of the mounting space | IP54           |
| Degree of protection of clips or terminals | IP20           |
| Ambient temperature                        | -25 ... +60 °C |

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Storage and transport temperature | -40 ... +85 °C                  |
| Resistance to vibrations          | 10 ... 55 Hz, Amplitude 0.35 mm |
| Resistance to shock               | 30 g / 11 ms                    |

### Ambient conditions - Insulation values

|   |        |
|---|--------|
| Rated impulse withstand voltage $U_{imp}$ | 0.8 kV |
| Overvoltage category                      | III    |
| Degree of pollution                       | 2      |

### Electrical data

|  |                      |
|--|----------------------|
| Operating voltage                                    | 24 VDC -20 % / +20 % |
| Ripple voltage                                       | 10 %                 |
| Rated operating voltage                              | 24 VDC               |
| Operating current                                    | 100 mA               |
| Rated AC voltage for controls at DC minimum          | 19.2 VDC             |
| Rated control voltage at DC, maximum                 | 28.8 VDC             |
| Electrical power consumption                         | 2.4 W                |
| Drop-out delay in case of power failure, typically   | 10 ms                |
| Drop-out delay in case of emergency, typically       | 10 ms                |
| Pull-in delay at automatic start, maximum, typically | 150 ms               |
| Pull-in delay at RESET, typically                    | 150 ms               |
| Switching frequency, maximum                         | 1 Hz                 |

### Electrical data - Safety digital outputs

|                                     |        |
|-------------------------------------|--------|
| Voltage drop $U_d$ , maximum        | 0.5 V  |
| Leakage current $I_l$ , maximum     | 1 mA   |
| Voltage, Utilisation category DC-12 | 24 VDC |
| Current, Utilisation category DC-12 | 5.5 A  |
| Voltage, Utilisation category DC-13 | 24 VDC |
| Current, Utilisation category DC-13 | 3.5 A  |

## Electrical data - Digital inputs

Conduction resistance, maximum 40  $\Omega$

## Electrical data - Digital Output

Voltage, Utilisation category DC-12 24 VDC

Current, Utilisation category DC-12 0.1 A

## Electrical data - Electromagnetic compatibility (EMC)

EMC rating EMC-Directive

## Status indication

Indicated operating states Internal operating voltage  $U_i$   
Baustein-Status  
Fault codes

## Other data

Note (applications) Safety sensor  
hinged safety guard  
Emergency-Stop button  
Pull-wire emergency stop switches  
Safety light curtain  
Two-hand control panels

## Pictures

### Product picture (catalogue individual photo)



ID: ksrb2f36

| 1,0 MB | .jpg | 281.869 x 655.814 mm - 799 x 1859 px - 72 dpi

| 121,8 kB | .png | 74.083 x 172.156 mm - 210 x 488 px - 72 dpi

| 45,0 kB | .jpg | 52.917 x 123.472 mm - 150 x 350 px - 72 dpi

