DATASHEET



SRB-E-204ST-CC

- Plug-in spring-cage terminal blocks with coding
- STOP 0 Function
- Monitoring of 4 sensors
- Start button / Auto-start
- 2 Safety outputs
- 4 Signalling outputs

Data

Ordering data

Product type description	SRB-E-204ST-CC
Article number (order number)	103016572
EAN (European Article Number)	4030661510392
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

General data

Standards	EN IEC 62061 EN ISO 13849-1 EN IEC 60947-5-1 EN IEC 60947-5-3 EN IEC 60947-5-5 EN IEC 61508 EN IEC 60204-1 EN IEC 60947-1
Climatic stress	EN 60068-2-78
Housing material	Glass-fibre reinforced thermoplastic, ventilated

Gross weight	250 g

General data - Features

Stop-Category	0
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	7
Number of normally closed (NC)	8
Number of normally open (NO)	4
Number of safety digital outputs, Stop 0	2
Number of signalling outputs	4

Safety classification

Standards	EN ISO 13849-1 EN IEC 62061 EN IEC 61508

Safety classification - Fail-safe digital outputs

Performance Level, up to	e
Category	4
PFH value	2.66×10^{-9} /h
PFD value	2.42×10^{-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	Cage clamp, plug-in rigid or flexible
Cable section, minimum	0.25 mm²
Cable section, maximum	1.5 mm²

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, minimum	-40 °C
Storage and transport temperature, maximum	+85 °C
Resistance to vibrations	10 ... 55 Hz, Amplitude 0.35 mm
Restistance 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	125 mA
Rated AC voltage for controls at DC minimum	19.2 VDC
Rated control voltage at DC, maximum	28.8 VDC
Electrical power consumption	3 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_r, maximum	1 mA
Voltage, Utilisation category DC-12	24 VDC
Current, Utilisation category DC-12	2 A
Voltage, Utilisation category DC-13	24 VDC
Current, Utilisation category DC-13	2 A

Electrical data - Digital inputs

Conduction resistance, maximum	40 Ω

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

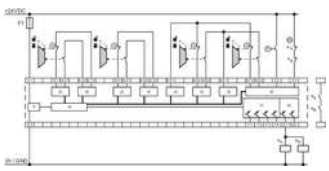
Pictures

Product picture (catalogue individual photo)



ID: ksrb2f34
| 1.0 MB | .jpg | 281.869 x 655.814 mm - 799 x 1859 px - 72 dpi
| 125.4 kB | .png | 74.083 x 172.156 mm - 210 x 488 px - 72 dpi
| 46.4 kB | .jpg | 52.917 x 123.472 mm - 150 x 350 px - 72 dpi

Wiring example



ID: ksrbel03
| 1.3 MB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi
| 107.9 kB | .jpg | 352.778 x 172.861 mm - 1000 x 490 px - 72 dpi