

Datasheet - SRB-E-201ST

Multi-function safety modules / SRB-E-201ST



- 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

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	SRB-E-201ST
Article number	103008067
EAN Code	
eCl@ss	27-37-19-01

Approval

Approval



Classification

Relay outputs

Standards

PL

Control category

DC

CCF

PFH value

PFD value


SIL

Mission time

Semi-conductor outputs

Standards	EN ISO 13849-1, IEC 61508, IEC/EN 62061
PL	up e
Control category	up 4
PFH value	$\leq 2.66 \times 10^{-9}$ / h
PFD value	$\leq 2.42 \times 10^{-5}$
SIL	up 3
Mission time	20 Years

Global Properties

Permanent light	SRB-E-201ST
Standards	IEC/EN 60204-1, EN 60947-5-1, EN ISO 13849-1, IEC 61508, IEC/EN 62061
Compliance with the Directives (Y/N) 	Yes
Mounting	snaps onto standard DIN rail to EN 60715
Terminal designations	IEC/EN 60947-1
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, ventilated
- Material of the contacts	
Weight	130
Start conditions	Automatic or Start button (Optional monitored)
Start input (Y/N)	Yes
Feedback circuit (Y/N)	Yes
Start-up test (Y/N)	No
Automatic reset function (Y/N)	Yes
Reset with edge detection (Y/N)	Yes
Pull-in delay	
- ON delay with automatic start	< 150
- ON delay with reset button	< 150
Drop-out delay	
- Drop-out delay in case of power failure	< 10
- Drop-out delay in case of emergency stop	< 10

Mechanical data

Connection type	Screw connection, plug-in
Cable section	
- Min. Cable section	0,25
- Max. Cable section	2.5
Pre-wired cable	rigid or flexible
Tightening torque for the terminals	0,5
Detachable terminals (Y/N)	Yes
Mechanical life	
Electrical lifetime	Derating curve available on request
restistance to shock	30 / 11
Resistance to vibration To EN 60068-2-6	10...55 HZ, Amplitude 0,35 mm

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-25
- Max. environmental temperature	+60
Storage and transport temperature	

- Min. Storage and transport temperature	-40
- Max. Storage and transport temperature	+85
Protection class	
- Protection class-Enclosure	IP40
- Protection class-Terminals	IP20
- Protection class-Clearance	IP54
Air clearances and creepage distances To IEC/EN 60664-1	
- Rated impulse withstand voltage	0,8
Overvoltage category	III
- Degree of pollution	2 To IEC/EN 60664-1

Electromagnetic compatibility (EMC)

EMC rating	conforming to EMC Directive
------------	-----------------------------

Electrical data

Rated DC voltage for controls	
- Max. rated DC voltage for controls	19.2
- Max. rated DC voltage for controls	28.8
Rated AC voltage for controls, 50 Hz	
- Min. rated AC voltage for controls, 50 Hz	
- Max. rated AC voltage for controls, 50 Hz	
Rated AC voltage for controls, 60 Hz	
- Min. rated AC voltage for controls, 60 Hz	
- Max. rated AC voltage for controls, 60 Hz	
Contact resistance	
Power consumption	2.4
Type of actuation	DC
Switch frequency	1
Rated insulation voltage	50
Rated operating voltage	24 -20 / +20, residual ripple 10
Operating current	0,1 A
Frequency range	
Electronic protection (Y/N)	No
Fuse rating for the operating voltage	We recommend a Z type circuit breaker (max. 16 A) either a fine-wire fuse (max. 15A, slow-blow)
Bridging in case of voltage drops	5
Cyclic outputs	> 20 , 10 for each output
Control inputs	24 / 8

Inputs

Monitored inputs	
- Short-circuit recognition (Y/N)	Yes
- Wire breakage detection (Y/N)	Yes
- Earth connection detection (Y/N)	Yes
Number of shutters	1
Number of openers	2
Cable length	1500 with 1.5 ; 2500 with 2.5
Conduction resistance	40

Outputs

Stop category	0
Number of safety outputs	2 x STOP 0
Number of safety contacts	0
Number of auxiliary contacts	0
Number of signalling outputs	1 x STOP 0
Relay outputs	
Switching capacity of the safety contacts	
Protection of the safety contacts	
Utilisation category	
Switching capacity of the safety contacts	
Fuse rating for the auxiliary contacts	
Semi-conductor outputs	
Switching capacity of the safety outputs	5.5 A (inductive in case of appropriate protective wiring)
Voltage drop	< 0,5
Residual current	< 1
Test impulse width	< 1
	< 100
Fuse rating for the safety outputs	
Utilisation category	DC-13: 24 V / 3,5 A
Switching capacity of the signaling/diagnostic outputs	24 / 100
Fuse rating for the signaling/diagnostic outputs	Internal electronic trip

LED switching conditions display

LED switching conditions display (Y/N)	Yes
Number of LED's	5
LED fault codes	Yes

Miscellaneous data

Applications	 Emergency-Stop button  Pull-wire emergency stop switches  Two-hand control panels  Safety light barriers  Safety light curtain  Safety sensor  hinged safety guard
--------------	--

Dimensions

Dimensions	
- Width	22.5
- Height	98
- Depth	115

Documents

Operating instructions and Declaration of conformity (fr) 1 MB, 22.08.2018

Code: mrl_srb-e-201st-201lc-301st_fr

Operating instructions and Declaration of conformity (es) 1 MB, 22.08.2018

Code: mrl_srb-e-201st-201lc-301st_es

Operating instructions and Declaration of conformity (it) 1 MB, 22.08.2018

Code: mrl_srb-e-201st-201lc-301st_it

Operating instructions and Declaration of conformity (cn) 1 MB, 23.11.2018

Code: mrl_srb-e-201st-201lc-301st_cn

Operating instructions and Declaration of conformity (pt) 1 MB, 22.08.2018

Code: mrl_srb-e-201st-201lc-301st_pt

Operating instructions and Declaration of conformity (de) 1 MB, 17.07.2018

Code: mrl_srb-e-201st-201lc-301st_de

Operating instructions and Declaration of conformity (pl) 1 MB, 20.09.2018

Code: mrl_srb-e-201st-201lc-301st_pl

Operating instructions and Declaration of conformity (cs) 1 MB, 23.08.2018

Code: mrl_srb-e-201st-201lc-301st_cs

Operating instructions and Declaration of conformity (jp) 1 MB, 23.03.2017

Code: mrl_srb-e-201st-201lc-301st_jp

Operating instructions and Declaration of conformity (en) 1 MB, 17.07.2018

Code: mrl_srb-e-201st-201lc-301st_en

BG-test certificate (de, en) 428 kB, 11.10.2018

Code: z_srbep01

Brochure (pt) 1 MB, 30.01.2018

Code: b_srb-e_pt

Brochure (it) 1 MB, 31.01.2018

Code: b_srb-e_it

Brochure (es) 1 MB, 14.02.2018

Code: b_srb-e_es

Brochure (en) 1 MB, 15.02.2018

Code: b_srb-e_en

Brochure (de) 1 MB, 15.02.2018

Code: b_srb-e_de

Brochure (br) 1 MB, 08.11.2018

Code: b_srb-e_br

Brochure (fr) 1 MB, 23.08.2018

Code: b_srb-e_fr

Brochure (pl) 1 MB, 06.08.2018

Code: b_srb-e_pl

CCC certification (cn) 460 kB, 24.07.2017

Code: q_srbp11

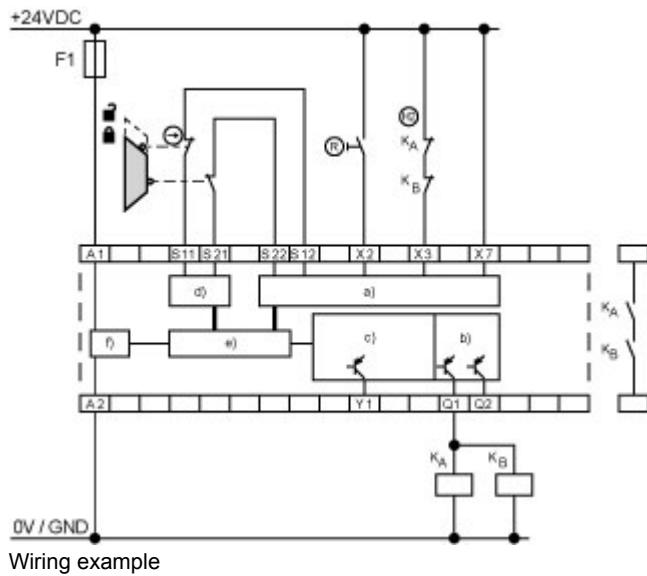
CCC certification (en) 460 kB, 24.07.2017

Code: q_srbp12

EAC certification (ru) 1 MB, 15.03.2018

Code: q_aesp01

Images



K.A. Schmersal GmbH & Co. KG, Mödinghofe 30, D-42279 Wuppertal

The data and values have been checked thoroughly. Technical modifications and errors excepted.

Generiert am 13.02.2019 - 13:13:22h Kasbase 3.3.0.F.64I