Datasheet - SRB201ZHX3-24VDC



Two-hand control panels / Monitoring two-hand control panels to EN 574 III A / SRB201ZHX3



- Monitoring two-hand control panels to EN 574 III C
- 2 safety contacts, STOP 0
- 1 Signalling output

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

Ordering details

Product type description SRB201ZHX3-24VDC

 Article number
 101182968

 EAN Code
 4250116202485

eCl@ss 27-37-19-01

Approval

Approval



Classification

Mission time

Standards EN ISO 13849-1, IEC 61508, EN 60947-5-1, EN 574

PL up e (STOP 0)
Control category up 4 (STOP 0)

DC 99% (STOP 0)
CCF > 65 points

PFH value ≤ 2,0 x 10-8/h (STOP 0)

SIL up 3 (STOP 0)

- notice The PFH value is applicable for the combinations listed in the table for contact load (K) (current through enabling paths) and switching cycle

20 Years

number (n-op/y).

In case of 365 operating days per year and a 24-hour operation, this results in the specified switching cycle times (t-cycle) for the relay contacts

Diverging applications on request.

	ziro.gg appoa		
K	n-op/y	t-cycle	
20 %	525.600	1,0 mi	
40 %	210.240	2,5 mi	
60 %	75.087	7,0 mi	
80 %	30.918	17,0 mi	
100 %	12.223	43,0 mi	

Switching frequency c

MTTFd

Classification

Global Properties

Permanent light SRB201ZHX3-24VDC

Standards IEC/EN 60204-1, EN 60947-5-1, EN ISO 13849-1, IEC 61508

Compliance with the Directives (Y/N) (Yes

Climatic stress EN 60068-2-3

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 AgSn0, self-cleaning, positive action

Weight 220

Start conditions Start button (monitored)

 Start input (Y/N)
 No

 Feedback circuit (Y/N)
 Yes

 Start-up test (Y/N)
 No

Automatic reset function (Y/N) Yes
Reset with edge detection (Y/N) No

Pull-in delay

ON delay with automatic startON delay with automatic starttyp. 50 mstyp. 50 ms

Drop-out delay

- Drop-out delay in case of emergency stop typ. 30 ms

Mechanical data

Connection type Screw connection

Cable section

- Min. Cable section 0,25- Max. Cable section 2.5

Pre-wired cable rigid or flexible

Tightening torque for the terminals 0,6
Detachable terminals (Y/N) No

Mechanical life 10.000.000 operations

Electrical lifetime Derating curve available on request

restistance to shock 30 g / 11 ms

Resistance to vibration To EN 60068-2-6 10...55 HZ, Amplitude 0,35 mm, \pm 15 % Resistance to vibration To EN 60068-2-6 10...55 HZ, Amplitude 0,35 mm, \pm 15 %

Ambient conditions

Min. environmental temperature
 Max. environmental temperature
 +60 °C

Storage and transport temperature

Min. Storage and transport temperature
 Max. Storage and transport temperature
 +85 °C

Protection class

Protection class-Enclosure
 Protection class-Terminals
 Protection class-Clearance
 IP54

Air clearances and creepage distances To IEC/EN 60664-1

- Rated impulse withstand voltage U_{imp} 4 kV

- Overvoltage category- Degree of pollutionII To VDE 01102 To VDE 0110

Electromagnetic compatibility (EMC)

EMC rating conforming to EMC Directive

Electrical data

Rated DC voltage for controls

- Max. rated DC voltage for controls- Max. rated DC voltage for controls20.4

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 $max. 100 m\Omega$

Power consumption 1.5
Type of actuation DC

Rated operating voltage Ue 24 VDC -15% / +10%, residual ripple max. 10%

Electronic protection (Y/N) Yes

Fuse rating for the operating voltage Internal electronic trip,

tripping current: > 1.0 A

Inputs

Monitored inputs

- Short-circuit recognition (Y/N) Yes
- Wire breakage detection (Y/N) Yes
- Earth connection detection (Y/N) Yes
Number of shutters 2 piece
Number of openers 2 piece

Cable length 1500 m with 1.5 mm²;

2500 m with 2.5 mm²

Conduction resistance \max 40 Ω

Outputs

Stop category 0

Number of safety contacts 2 piece
Number of auxiliary contacts 1 piece

Number of signalling outputs 0 piece Switching capacity - Switching capacity of the safety contacts max. 250 VAC, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V, 10 mA - Switching capacity of the auxiliary contacts 24 VDC, 2 A Fuse rating - Protection of the safety contacts 6.3 A slow blow - Fuse rating for the auxiliary contacts 2 A slow blow Utilisation category To EN 60947-5-1 AC-15: 230 V / 6 A DC-13: 24 V / 6 A Number of undelayed semi-conductor outputs with signaling function 0 piece Number of undelayed outputs with signaling function (with contact) 1 piece Number of delayed semi-conductor outputs with signaling function. 0 piece Number of delayed outputs with signalling function (with contact). 0 piece Number of secure undelayed semi-conductor outputs with signaling 0 piece function Number of secure, undelayed outputs with signaling function, with contact. 2 piece Number of secure, delayed semi-conductor outputs with signaling function 0 piece Number of secure, delayed outputs with signaling function (with contact). O piece LED switching conditions display

LED switching conditions display (Y/N)

Number of LED's

LED switching conditions display

- Position relay K2
- Position relay K1
- Supply voltage

Yes

Miscellaneous data

Applications



Two-hand control panels

Dimensions

Dimensions

- Width 22.5 mm - Height 100 mm - Depth 121 mm

notice

Inductive loads (e.g. contactors, relays, etc.) are to be suppressed by means of a suitable circuit.

notice - Wiring example

Button A and B: 1 NC contact / 1 NO contact (note: the NC contact of the buttons A and B must be opened, before the NO contact closes. No overlapping contacts to avoid triggering of fuse F1/F2).

Relay outputs: Suitable for 2 channel control, for increase in capacity or number of contacts by means of contactors or relays with positive-guided contacts.

(H2) = Feedback circuit

The control recognises cross-short, cable break and earth leakages in the monitoring circuit.

The wiring diagram is shown for the de-energised condition.

Documents

Operating instructions and Declaration of conformity (fr) 298 kB, 23.10.2017

Code: mrl_srb_201zh_x3_fr

Operating instructions and Declaration of conformity (pl) 333 kB, 31.01.2018

Code: mrl_srb_201zh_x3_pl

Operating instructions and Declaration of conformity (it) 298 kB, 23.10.2017

Code: mrl_srb_201zh_x3_it

Operating instructions and Declaration of conformity (en) 297 kB, 23.10.2017

Code: mrl_srb_201zh_x3_en

Operating instructions and Declaration of conformity (pt) 304 kB, 23.10.2017

Code: mrl_srb_201zh_x3_pt

Operating instructions and Declaration of conformity (de) 284 kB, 23.10.2017

Code: mrl_srb_201zh_x3_de

Operating instructions and Declaration of conformity (nl) 314 kB, 03.08.2018

Code: mrl_srb_201zh_x3_nl

Operating instructions and Declaration of conformity (jp) 961 kB, 16.06.2011

Code: mrl_srb_201zh_x3_jp

Operating instructions and Declaration of conformity (es) 295 kB, 23.10.2017

Code: mrl_srb_201zh_x3_es

Wiring example (99) 16 kB, 05.05.2010

Code: ksrb2l11

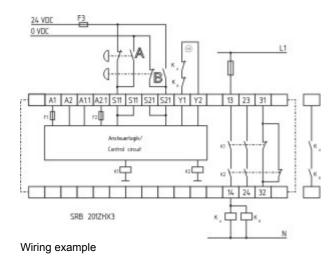
TÜV certification (de, en) 596 kB, 05.09.2018

Code: z_srbp09

EAC certification (ru) 1 MB, 15.03.2018

Code: q_aesp01

Images



K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 14:53:38h Kasbase 3.3.0.F.64l