## Datasheet - SRB200ZHX1

## (S) 5LHmER5RL

Two-hand control panels / Monitoring two-hand control panels to EN 574 III A / SRB200ZHX1

- Monitoring two-hand control panels to EN 574 III A
- 2 safety contacts, STOP 0

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


## Ordering details

Product type description
Article number
EAN Code
eCl@ss

SRB200ZHX1
101183408
4250116202478
27-37-19-01

## Approval

Approval


## Classification

Standards
PL
Control category
DC
CCF
PFH value
SIL
Mission time

- notice

EN ISO 13849-1, IEC 61508, EN 60947-5-1, EN 574
up e (STOP 0)
up 4 (STOP 0)
99\% (STOP 0)
>65 points
$\leq 2,0 \times 10-8 / \mathrm{h}$ (STOP 0)
up 3 (STOP 0)
20 Years
The PFH value is applicable for the combinations listed in the table for contact load (K) (current through enabling paths) and switching cycle
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.

| K | n-ophy | t-cycle |
| :---: | :---: | :---: |
| $20 \%$ | 525.600 | $1,0 \mathrm{~min}$ |
| $40 \%$ | 210.240 | $2,5 \mathrm{~min}$ |
| $60 \%$ | 75.087 | $7,0 \mathrm{~min}$ |
| $80 \%$ | 30.918 | 17.0 min |
| $100 \%$ | 12.223 | $43,0 \mathrm{~min}$ |

## Global Properties

Permanent light
Standards
Compliance with the Directives (Y/N) CE
Climatic stress
Mounting
Terminal designations
Materials

- Material of the housings
- Material of the contacts

Weight
Start conditions
Start input (Y/N)
Feedback circuit (Y/N)
Start-up test (Y/N)
Automatic reset function (Y/N)
Reset with edge detection (Y/N)
Pull-in delay

- ON delay with automatic start

Drop-out delay

- Drop-out delay in case of emergency stop


## Mechanical data

Connection type
Screw connection
Cable section

- Min. Cable section

0,25

- Max. Cable section
2.5

Pre-wired cable
Tightening torque for the terminals
Detachable terminals (Y/N)
Mechanical life
Electrical lifetime
restistance to shock
Resistance to vibration To EN 60068-2-6

## SRB200ZHX1

IEC/EN 60204-1, EN 60947-5-1, EN ISO 13849-1, IEC 61508
Yes
EN 60068-2-78
snaps onto standard DIN rail to EN 60715
IEC/EN 60947-1

Plastic, glass-fibre reinforced thermoplastic, ventilated
AgSn0, self-cleaning, positive action
220
Start button (monitored)
No
Yes
No
Yes
No
typ. 50 ms
typ. 35 ms

## 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 Uimp 4 kV
- Overvoltage category II To VDE 0110
- Degree of pollution 2 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 20.4
- 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
Type of actuation
Rated operating voltage Ue
Electronic protection (Y/N)
Fuse rating for the operating voltage

Current and tension on control circuits

- S13, S14, S23, S24

Bridging in case of voltage drops
$\max .100 \mathrm{~m} \Omega$
-
-
-
1.6

DC
24 VDC -15\% / +20\%, residual ripple max. 10\%
Yes
Internal electronic trip,
tripping current $>0,6 \mathrm{~A}$

24 VDC, Test current: 10 mA
typ. 30 ms

## Inputs

## Monitored inputs

- Short-circuit recognition (Y/N) Yes
- Wire breakage detection (Y/N) Yes
- Earth connection detection $(\mathrm{Y} / \mathrm{N})$ Yes

Number of shutters 2 piece
Number of openers 0 piece
Cable length
1500 m with $1.5 \mathrm{~mm}^{2}$;
2500 m with $2.5 \mathrm{~mm}^{2}$
Conduction resistance
$\max .40 \Omega$

## Outputs

| Stop category | 0 |
| :--- | :--- |
| Number of safety contacts | 2 piece |
| Number of auxiliary contacts | 0 piece |
| Number of signalling outputs | 0 piece |
| Switching capacity |  |

- Switching capacity of the safety contacts

Fuse rating

- Protection of the safety contacts
- Fuse rating for the auxiliary contacts

Utilisation category To EN 60947-5-1

Number of undelayed semi-conductor outputs with signaling function
Number of undelayed outputs with signaling function (with contact)
Number of delayed semi-conductor outputs with signaling function.
Number of delayed outputs with signalling function (with contact).
Number of secure undelayed semi-conductor outputs with signaling function

Number of secure, undelayed outputs with signaling function, with contact.

Number of secure, delayed semi-conductor outputs with signaling function
Number of secure, delayed outputs with signaling function (with contact). 0 piece
max. 250 VAC, 6 A ohmic (inductive in case of appropriate protective wiring)
min. $10 \mathrm{~V}, 10 \mathrm{~mA}$
6.3 A slow blow

2 A slow blow
AC-15: $230 \mathrm{~V} / 6 \mathrm{~A}$
DC-13: $24 \mathrm{~V} / 6 \mathrm{~A}$
0 piece
0 piece
0 piece
0 piece

0 piece

2 piece

0 piece

## LED switching conditions display

| LED switching conditions display (Y/N) | Yes |
| :--- | :--- |
| Number of LED's | 3 |

LED switching conditions display

- The integrated LEDs indicate the following operating states.
- Position relay K1
- Position relay K2
- Supply voltage


## Miscellaneous data

Applications

## 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 $B$ : 0 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 F3).
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.
Simultaneity monitoring 0,5 seconds
The wiring diagram is shown for the de-energised condition.

## Documents

Operating instructions and Declaration of conformity (jp) 1 MB, 22.12.2010
Code: mrl_srb_200zh_x1_p

Operating instructions and Declaration of conformity (pl) $363 \mathrm{kB}, 29.03 .2018$
Code: mrl_srb_200zh_x1_pl

Operating instructions and Declaration of conformity (de) $273 \mathrm{kB}, 09.11 .2017$
Code: mrl_srb_200zh_x1_de

Operating instructions and Declaration of conformity (nl) $281 \mathrm{kB}, 02.08 .2018$
Code: mrl_srb_200zh_x1_nl

Operating instructions and Declaration of conformity (es) $280 \mathrm{kB}, 11.01 .2018$
Code: mrl_srb_200zh_x1_es

Operating instructions and Declaration of conformity (fr) $285 \mathrm{kB}, 05.01 .2018$
Code: mrl_srb_200zh_x1_fr

Operating instructions and Declaration of conformity (en) $282 \mathrm{kB}, 09.11 .2017$
Code: mrl_srb_200zh_x1_en

Operating instructions and Declaration of conformity (it) $282 \mathrm{kB}, 05.01 .2018$
Code: mrl_srb_200zh_x1_it

Operating instructions and Declaration of conformity (pt) $287 \mathrm{kB}, 16.01 .2018$
Code: mrl_srb_200zh_x1_pt

Wiring example (99) $16 \mathrm{kB}, 04.08 .2008$
Code: ksrb2l10

EAC certification (ru) 1 MB, 15.03.2018
Code: q_aesp01

Images


Wiring example
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The data and values have been checked throroughly. Technical modifications and errors excepted.
Generiert am 13.02.2019-14:53:36h Kasbase 3.3.0.F.64I

