13.02.2019

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Datasheet - SRB 211ST V.2

Guard door monitors and Safety control modules for Emergency Stop applications / Micro Processor based safety controllers (Series AES) / SRB211ST

(Minor differences between the printed image and the original product may

Referred typ



• Suitable for signal processing of outputs connected to potentials (AOPDs), e.g. safety light grids/curtains

• Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks

S SCHMERSAL

- 2 safety contacts, STOP 0; 1 safety contact, STOP 1
- 1 Signalling output

SRB 211ST V.2

101208309

27-37-19-01

Ordering details

Product type description Article number EAN Code eCl@ss

Approval

exist!)

Approval



Classification

EN ISO 13849-1, IEC 61508, EN 60947-5-1
up e (STOP 0) bis d (STOP 1)
up 4 (STOP 0) up 3 (STOP 1)
99% (STOP 0) > 60% (STOP 1)
> 65 points
≤ 2,0 x 10-ଃ/h (STOP 0) ≤ 2,0 x 10-ァ/h (STOP 1)
up 3 (STOP 0) bis 2 (STOP 1)
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.

К	n-op/y	t-cycle
20 %	525.600	1,0 min
40 %	210.240	2,5 min
60 %	75.087	7,0 min
80 %	30.918	17,0 min
100 %	12.223	43,0 min

Global Properties

Permanent light	SRB211ST
Standards	IEC/EN 60204-1, EN 60947-5-1, EN ISO 13849-1, IEC 61508
Compliance with the Directives (Y/N) CE	Yes
Climatic stress	EN 60068-2-78
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, Ag-Ni, self-cleaning, positive action
Weight	250
Start conditions	Automatic or Start button (Optional monitored)
Start input (Y/N)	Yes
Feedback circuit (Y/N)	Yes
Start-up test (Y/N)	No
Reset after disconnection of supply voltage (Y/N)	No
Automatic reset function (Y/N)	Yes
Reset with edge detection (Y/N)	Yes
Pull-in delay	
- ON delay with automatic start	typ. 120 ms
- ON delay with reset button	≤ 25 ms
Drop-out delay	
- Drop-out delay in case of power failure	≤ 55 ms
- Drop-out delay in case of emergency stop	typ. 15 ms, max. 20 ms

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	0,6
Detachable terminals (Y/N)	Yes
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	1055 HZ, Amplitude 0,35 mm, ± 15 %
Resistance to vibration To EN 60068-2-6	1055 HZ, Amplitude 0,35 mm, \pm 15 %

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−25 °C
- Max. environmental temperature	+60 °C
Storage and transport temperature	
- Min. Storage and transport temperature	-40 °C
- Max. Storage and transport temperature	+85 °C

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	III To VDE 0110
- Degree of pollution	2 To VDE 0110

Electromagnetic compatibility (EMC)

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 · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz · Max. rated AC voltage for controls, 60 Hz Contact resistance Power consumption · AC/DC Rated operating voltage Ue 24 VDC - 15% / + 20%, residual ripple max. 10%; request Pi. + 10% Operating current Ie 0.24 A Frequency range 50 / 60 HZ Electronic protection (YN) Yes	EMC rating	conforming to EMC Directive
· Max. rated DC voltage for controls 20.4 · Max. rated DC voltage for controls 28.8 Rated AC voltage for controls, 50 Hz 20.4 · Min. rated AC voltage for controls, 50 Hz 20.4 · Max. rated AC voltage for controls, 60 Hz 20.4 Rated AC voltage for controls, 60 Hz 20.4 · Min. rated AC voltage for controls, 60 Hz 20.4 · Min. rated AC voltage for controls, 60 Hz 20.4 · Max. rated AC voltage for controls, 60 Hz 26.4 Contact resistance max. 100 mΩ Power consumption 2.4 W; 5.9 VA, plus signalling output Type of actuation AC/DC Rated operating voltage Ue 24 VDC - 15% / +20%, residual ripple max. 10%; 24 VAC - 15% / +20%, residual ripple max. 10%; 24 VAC - 15% / +10% Operating current le 0.24 A Frequency range 50 / 60 HZ Electronic protection (Y/N) Yes Fuse rating for the operating voltage Internal electronic trip, tripping current F1:> 750 mA, tripping current F1:> 750 mA, tripping current F3:> 140 mA Current and tension on control circuits - - S11, S12, S21, S22 24 VDC, Test current: 10 mA - X1, X2	Electrical data	
· Max. rated DC voltage for controls28.8Rated AC voltage for controls, 50 Hz20.4· Min. rated AC voltage for controls, 50 Hz26.4Rated AC voltage for controls, 60 Hz26.4· Min. rated AC voltage for controls, 60 Hz26.4· Max. rated AC voltage for controls, 60 Hz26.4· Max. rated AC voltage for controls, 60 Hz26.4Contact resistancemax. 100 mΩPower consumption24. W; 5.9 VA, plus signalling outputType of actuationAC/DCRated operating voltage Ue24 VDC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +10%Operating current le0,24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageYesfurther and tension on control circuits24 VDC, Test current 10 mA-S11, S12, S21, S2224 VDC, Test current 10 mA-X1, X224 VDC, Test current 10 mA, Start pulse: 25 mA / 25 ms-X1, X324 VDC, Test current 10 mA, Start pulse: 950 mA / 10 ms	Rated DC voltage for controls	
Rated AC voltage for controls, 50 Hz20.4• Min. rated AC voltage for controls, 50 Hz26.4Rated AC voltage for controls, 60 Hz26.4• Min. rated AC voltage for controls, 60 Hz20.4• Min. rated AC voltage for controls, 60 Hz20.4• Max. rated AC voltage for controls, 60 Hz20.4• Max. rated AC voltage for controls, 60 Hz20.4• Max. rated AC voltage for controls, 60 Hz26.4Contact resistancemax. 100 mΩPower consumption2.4 W; 5.9 VA, plus signalling outputType of actuationAC/DCRated operating voltage Ue24 VDC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +10%Operating current le0,24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA- S11, S12, S21, S2224 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms- X1, X324 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	- Max. rated DC voltage for controls	20.4
· Min. rated AC voltage for controls, 50 Hz20.4· Max. rated AC voltage for controls, 60 Hz26.4Rated AC voltage for controls, 60 Hz20.4· Max. rated AC voltage for controls, 60 Hz20.4· Max. rated AC voltage for controls, 60 Hz26.4Contact resistancemax. 100 mΩPower consumption2.4 W; 5.9 VA, plus signalling outputType of actuationAC/DCRated operating voltage Ue24 VDC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +10%Operating current Ie0,24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F2: > 75 mA Reset after disconnection of supply voltage tripping current F3: > 140 mA- S11, S12, S21, S2224 VDC, Test current: 10 mA 24, VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms 24 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms 24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	- Max. rated DC voltage for controls	28.8
- Max. rated AC voltage for controls, 50 Hz26.4Rated AC voltage for controls, 60 Hz20.4- Max. rated AC voltage for controls, 60 Hz26.4Contact resistancemax. 100 mΩPower consumption2.4 W; 5.9 VA, plus signalling outputType of actuationAC/DCRated operating voltage Ue24 VDC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +10%Operating current le0.24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F2: > 75 mACurrent and tension on control circuits24 VDC, Test current: 10 mA- S11, S12, S21, S2224 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms- X1, X324 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	Rated AC voltage for controls, 50 Hz	
Rated AC voltage for controls, 60 Hz20.4• Min. rated AC voltage for controls, 60 Hz26.4Contact resistancemax. 100 mΩPower consumption2.4 W; 5.9 VA, plus signalling outputType of actuationAC/DCRated operating voltage Ue24 VDC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +10%Operating current Ie0,24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, Reset after disconnection of supply voltage tripping current F2: > 75 mA Reset after disconnection of supply voltage tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA - X1, X2- X1, X324 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms - X1, X3	- Min. rated AC voltage for controls, 50 Hz	20.4
· Min. rated AC voltage for controls, 60 Hz20.4· Max. rated AC voltage for controls, 60 Hz26.4Contact resistancemax. 100 mQPower consumption2.4 W; 5.9 VA, plus signalling outputType of actuationAC/DCRated operating voltage Ue24 VDC $-15\% / +20\%$, residual ripple max. 10%; 24 VAC $-15\% / +10\%$ Operating current le0,24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F2: > 75 mA, Reset after disconnection of supply voltage tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA- X1, X224 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms 24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	- Max. rated AC voltage for controls, 50 Hz	26.4
· Max. rated AC voltage for controls, 60 Hz26.4Contact resistancemax. 100 mΩPower consumption2.4 W; 5.9 VA, plus signalling outputType of actuationAC/DCRated operating voltage Ue24 VDC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +10%Operating current le0.24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F2: > 75 mA Reset after disconnection of supply voltage tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms 24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	Rated AC voltage for controls, 60 Hz	
Contact resistancemax. 100 mΩPower consumption2.4 W; 5.9 VA, plus signalling outputType of actuationAC/DCRated operating voltage Ue24 VDC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +10%Operating current le0.24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F2: > 75 mA Reset after disconnection of supply voltage tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA . X1, X2- X1, X224 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms . X1, X3	- Min. rated AC voltage for controls, 60 Hz	20.4
Power consumption2.4 W; 5.9 VA, plus signalling outputType of actuationAC/DCRated operating voltage Ue24 VDC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +10%Operating current le0,24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F2: > 75 mA Reset after disconnection of supply voltage tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms 24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	- Max. rated AC voltage for controls, 60 Hz	26.4
Type of actuationAC/DCRated operating voltage Ue24 VDC -15% / ±20%, residual ripple max. 10%; 24 VAC -15% / ±10%Operating current le0,24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F2: > 75 mA Reset after disconnection of supply voltage tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA- X1, X224 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms- X1, X324 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	Contact resistance	max. 100 mΩ
Rated operating voltage Ue24 VDC -15% / +20%, residual ripple max. 10%; 24 VAC -15% / +10%Operating current le0,24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F2: > 75 mA Reset after disconnection of supply voltage tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA 24 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms 24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	Power consumption	2.4 W; 5.9 VA, plus signalling output
24 VAC -15% / +10%Operating current le0,24 AFrequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1 > 750 mA, tripping current F2 > 75 mA Reset after disconnection of supply voltage tripping current F3 > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA- X1, X224 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms 24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	Type of actuation	AC/DC
Frequency range50 / 60 HZElectronic protection (Y/N)YesFuse rating for the operating voltageInternal electronic trip, tripping current F1: > 750 mA, tripping current F2: > 75 mA Reset after disconnection of supply voltage tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA- S11, S12, S21, S2224 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms- X1, X224 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	Rated operating voltage Ue	
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tripping current F1: > 750 mA, tripping current F2: > 75 mA Reset after disconnection of supply voltage tripping current F3: > 140 mACurrent and tension on control circuits24 VDC, Test current: 10 mA- S11, S12, S21, S2224 VDC, Test current: 10 mA- X1, X224 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms- X1, X324 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	Electronic protection (Y/N)	Yes
- S11, S12, S21, S22 24 VDC, Test current: 10 mA - X1, X2 24 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms - X1, X3 24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	Fuse rating for the operating voltage	tripping current F1: > 750 mA, tripping current F2: > 75 mA Reset after disconnection of supply voltage
- X1, X2 24 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms - X1, X3 24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	Current and tension on control circuits	
- X1, X3 24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms	- S11, S12, S21, S22	24 VDC, Test current: 10 mA
	- X1, X2	24 VDC, Test current: 10 mA, Start pulse: 25 mA / 25 ms
Bridging in case of voltage drops typ. 40 ms	- X1, X3	24 VDC, Test current: 10 mA, Start pulse: 950 mA / 10 ms
	Bridging in case of voltage drops	typ. 40 ms

Inputs

Monitored inputs	
- Short-circuit recognition (Y/N)	optional
- Wire breakage detection (Y/N)	Yes
- Earth connection detection (Y/N)	Yes
Number of shutters	0 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

Stop category	0/1
- Stop category 0	13-14, 23-24: AC-15: 230 V / 6 A
	DC-13: 24 V / 5 A
Number of safety contacts	3 piece
Number of auxiliary contacts	0 piece
Number of signalling outputs	1 piece
Switching capacity	
- Switching capacity of the safety contacts	(13-14; 23-24) max. 250 V, 8 A ohmic (inductive in case of appropriate protective wiring) min. 5 V, 5 mA (37-38) max. 250 V, 6 A ohmic (inductive in case of appropriate protective wiring) min. 10 V, 10 mA
- Switching capacity of the signaling/diagnostic outputs	24 VDC, 100 mA
Fuse rating	
- Protection of the safety contacts	8 A slow blow (13-14; 23-24) 6.3 A slow blow (37-38)
- Fuse rating for the signaling/diagnostic outputs	Internal electronic trip tripping current > 0,1 A
Utilisation category To EN 60947-5-1	
- Stop category 1	37-38:
	AC-15: 230 V / 3 A DC-13: 24 V / 2 A
Number of undelayed semi-conductor outputs with signaling function	1 piece
Number of undelayed outputs with signaling function (with contact)	0 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	
function	0 piece
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).	1 ріесе

LED switching conditions display

LED switching conditions display (Y/N)	Yes
Number of LED's	6

LED switching conditions display

- The integrated LEDs indicate the following operating states.
- Position relay K2
- Position relay K1
- Position relay K3/K4
- Supply voltage
- Internal operating voltage Ui

Miscellaneous data

Applications	Emergency-Stop button
	Pull-wire emergency stop switches
	Guard system
	Safety light curtain
	Safety sensor

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

Input level: The example shows a 2-channel control of a guard door monitoring with two position switches, whereof one with positive break, external reset button (R) and feedback circuit (H2).

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

F1 = hybrid fuse

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.

For 1-channel control, connect NC contact to S11/S12 and bridge S12/S22

Connect potential p-type outputs of safety light grids/curtains to S12/S22. The devices must have the same reference potential.

Automatic start: The automatic start is programmed by connecting the feedback circuit to the terminals X1/X3. If the feedback circuit is not required, establish a bridge

Time delay: The time-delayed safety enable 37/38 is adjustable for 1 to 30 seconds drop-out delay (see setting intructions).

The safety enabling circuit 37/38 conforms to EN 60204-1 for STOP Category 1. The safety enabling circuits 13/14 and 23/24 conform to EN 60204-1 for STOP Category 0.

Setting of the drop-out delay time is carried out by means of a potentiometer from the front of the enclosure.

The wiring diagram is shown with guard doors closed and in de-energised condition.

Documents

Operating instructions and Declaration of conformity (pt) 594 kB, 10.10.2018 Code: mrl srb 211st v2 pt

Operating instructions and Declaration of conformity (en) 603 kB, 10.10.2018 Code: mrl_srb_211st_v2_en

Operating instructions and Declaration of conformity (pl) 611 kB, 10.10.2018 Code: mrl_srb_211st_v2_pl

Operating instructions and Declaration of conformity (it) 593 kB, 10.10.2018 Code: mrl_srb_211st_v2_it

Operating instructions and Declaration of conformity (es) 607 kB, 10.10.2018 Code: mrl_srb_211st_v2_es

Operating instructions and Declaration of conformity (nl) 593 kB, 10.10.2018 Code: mrl_srb_211st_v2_nl

Operating instructions and Declaration of conformity (da) 610 kB, 10.10.2018 Code: mrl_srb_211st_v2_da

Operating instructions and Declaration of conformity (de) 580 kB, 10.10.2018 Code: mrl_srb_211st_v2_de **Operating instructions and Declaration of conformity** (jp) 851 kB, 10.10.2018 Code: mrl_srb_211st_v2_jp

Operating instructions and Declaration of conformity (fr) 597 kB, 10.10.2018 Code: mrl_srb_211st_v2_fr

Operating instructions and Declaration of conformity (cs) 1 MB, 27.02.2012 Code: mrl_srb_ 211st_v2_cs

Wiring example (99) 19 kB, 04.08.2008 Code: Ksrb2l03

BG-test certificate (de) 822 kB, 14.01.2015 Code: z_211p01

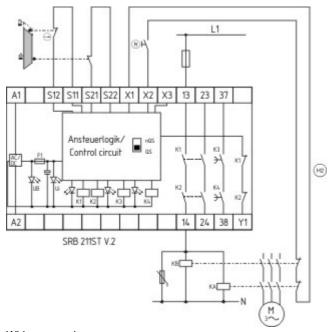
BG-test certificate (en) 809 kB, 14.01.2015 Code: z_211p02

CCC certification (cn) 290 kB, 16.01.2017 Code: q_srbp08

CCC certification (en) 311 kB, 16.01.2017 Code: q_srbp07

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.

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