

## Safety Relay SR2

2 pole 6 A



### Features

- Forcibly guided contacts according to EN 50205
- 2 pole safety relay with either 1N/O+1N/C or 2C/O contacts
- 6 kV surge resistance between poles

### Applications

Emergency shut-off, machine control, elevator and escalator control, light barrier control

F0188-C



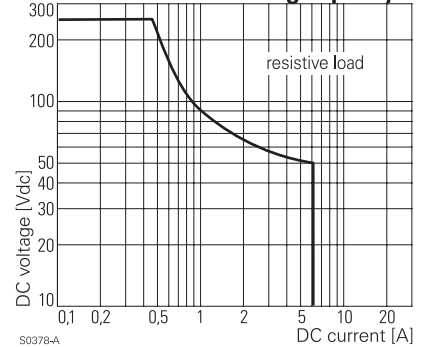
Technical data of approved types on request

### Contact data

Configuration	1 N/C contact and 1 N/O contact or 2 C/O contact *)
Type of contact	single contact, forcibly guided
Rated current	6 A
Rated voltage / max. breaking voltage AC	250 Vac / 440 Vac
Maximum breaking capacity AC	1500 VA
Contact material	AgNi
Minimum contact load	> 50 mW
Contact resistance	≤ 100 mΩ / 1 A / 24 Vdc ≤ 2 Ω / 10 mA / 5 Vdc

\*) According EN50205 only 1N/O / 1N/C i(11-14 and 22-21 or 12-11 and 21-24) shall be used as forcibly guided contacts.

### Max. DC load breaking capacity

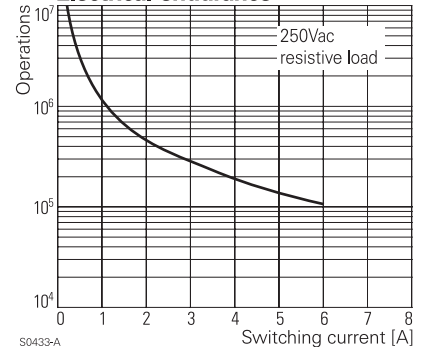


S0378-A

### Coil data

Nominal voltage	5...110 Vdc
Nominal coil power	approx. 700 mW
Operative range	2

### Electrical endurance



S0433-A

### Coil versions

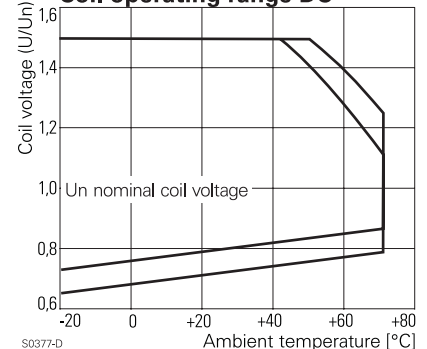
Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.8	0.5	35.7±10%	140.0
006	6	4.5	0.6	51±10%	117.6
009	9	6.75	0.9	116±10%	77.6
012	12	9.0	1.2	206±10%	58.3
018	18	13.5	1.8	483±10%	37.3
021	21	15.8	2.1	630±10%	33.3
024	24	18.0	2.4	823±10%	29.2
036	36	27.0	3.6	1851±10%	19.4
040	40	30.0	4.0	2286±10%	17.5
048	48	36.0	4.8	3291±12%	14.6
060	60	45.0	6.0	5142±12%	11.7
080	80	60.0	8.0	9143±12%	8.7
110	110	82.5	11.0	17285±12%	6.4

All figures are given for coil without preenergization, at ambient temperature +20 °C

$U_{op\ max}$ : at 70 °C after preenergization with  $1.1 \times U_{nom}$  the max. operate voltage is 85% of  $U_{nom}$ .  $U_{max}$ : at 70 °C the max. coil voltage is  $1.1 \times U_{nom}$

Other coil voltages on request

### Coil operating range DC



S0377-D

## Safety Relay SR2

2 pole 6 A

### Insulation

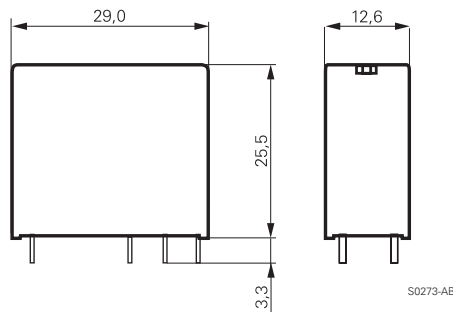
Dielectric strength	coil-contacts	4000 V <sub>rms</sub>
	open contact circuit	1000 V <sub>rms</sub>
	adjacent contacts	3000 V <sub>rms</sub>
Clearance / creepage	coil-contacts	8 / 8 mm
	adjacent contacts	5.5 / 5.5 mm
Insulation to IEC 60664		
	Voltage rating	250 V
	Pollution degree	2
	Overvoltage category	III
Insulation resistance (500 Vdc)		> 1x10 <sup>6</sup> Ω
Tracking resistance of relay base		CTI 250

### Other data

Ambient temperature	-25...+70 °C
Mechanical life	10x10 <sup>6</sup> operations
Max. switching rate at rated- / minimum load	6 min <sup>-1</sup> / 300 min <sup>-1</sup>
Operate- / release time	typ. 10 / 4 ms
Vibration resistance N/O / N/C contact	> 10 / 2.5 g, 15...200 Hz
Shock resistance (function)N/O contact / N/C contact	> 10 / 5 g, 11 ms half sine
Category of protection (IEC 61810)	RT III - wash tight
Relay weight	20 g
Packaging unit	20 pcs.
Accessories	see accessories SR2

### Dimensions

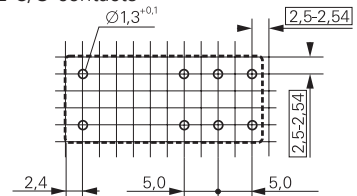
Dimensions in mm



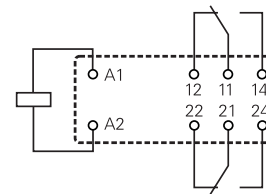
### PCB layout / terminal assignment

View on solder pins  
Dimensions in mm

#### 2 C/O contacts

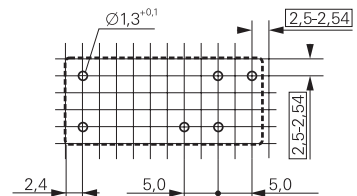


S0163-CO

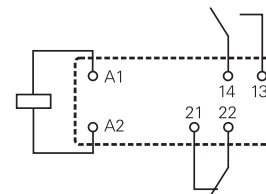


S0163-CJ

#### 1 N/O and 1 N/C contacts



S0163-CU



S0163-CV

### Product key

**S R 2**

#### Type

**Safety Relay, wash tight**

#### Version

- X** 1 N/O contact
- Y** 1 C/O contact

#### Contact material

**5** AgNi

#### Coil

Coil code: please refer to coil versions table

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