

Safety Relay SR2M

2 pole 6 A



- 1N/O+1N/C or 2C/O contacts
- Relay with forcibly guided contacts
- According to EN 50205
- High separation distances
- Washable

Applications

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

F0188-C

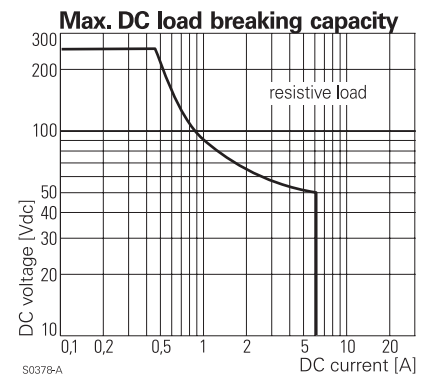


Technical data of approved types on request

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	$\leq 100 \text{ m}\Omega / 1 \text{ A} / 24 \text{ Vdc}$ $\leq 2 \Omega / 10 \text{ mA} / 5 \text{ Vdc}$

*) According EN50205 only the use of 1N/O / 1N / C is allowed (11-14 and 22-21 or 12-11 and 21-24)



Coil data

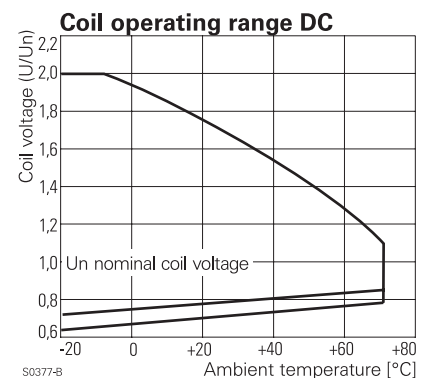
Nominal voltage	5...110 Vdc
Nominal coil power	approx. 700 mW
Operative range	2

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	$35.7 \pm 10\%$	140.0
006	6	4.5	0.6	$51 \pm 10\%$	117.6
009	9	6.75	0.9	$116 \pm 10\%$	77.6
012	12	9.0	1.2	$206 \pm 10\%$	58.3
018	18	13.5	1.8	$483 \pm 10\%$	37.3
021	21	15.8	2.1	$630 \pm 10\%$	33.3
024	24	18.0	2.4	$823 \pm 10\%$	29.2
036	36	27.0	3.6	$1851 \pm 10\%$	19.4
040	40	30.0	4.0	$2286 \pm 10\%$	17.5
048	48	36.0	4.8	$3291 \pm 12\%$	14.6
060	60	45.0	6.0	$5142 \pm 12\%$	11.7
080	80	60.0	8.0	$9143 \pm 12\%$	8.7
110	110	82.5	11.0	$17285 \pm 12\%$	6.4

All figures are given for coil without preenergization, at ambient temperature +20°C
 $U_{op \text{ max}}$: 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



Safety Relay SR2M

2 pole 6 A

Insulation

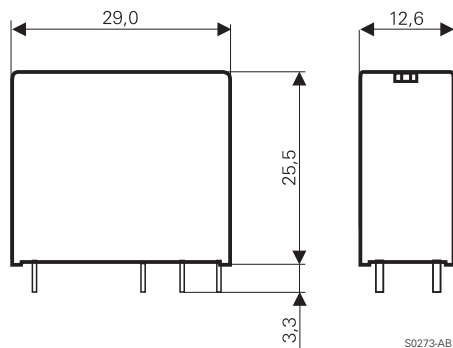
Dielectric strength	coil-contacts	4000 V _{rms}
	open contact circuit	1000 V _{rms}
	adjacent contacts	4000 V _{rms}
Clearance / creepage coil-contacts		8 mm
	adjacent contacts	5.5 mm
Insulation to IEC 664/VDE 0110 (1/89)		
	Voltage rating	250 V
	Pollution degree	2
	Overvoltage category	III
Insulation resistance (500 Vdc)		> 1x10 ⁶ Ω
Tracking resistance of relay base		CTI 250

Other data

Ambient temperature	-25...+70 °C
Mechanical life	10x10 ⁶ operations
Max. switching rate at rated- / minimum load	6 min ⁻¹ / 300 min ⁻¹
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 / N/C	> 10 / 5 g, 11 ms half sine
Protection category	IP67
Relay weight	20 g
Packaging unit	20 pcs.
Accessories	see accessories SR2M

Dimensions

Dimensions in mm



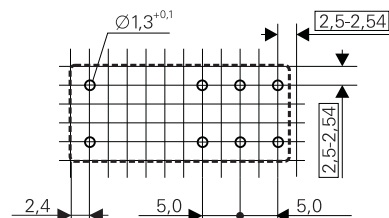
S0273-AB

PCB layout / terminal assignment

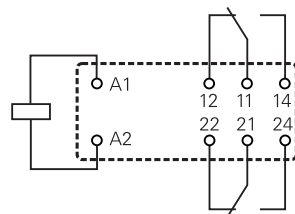
View on solder pins

Dimensions in mm

2 C/O contacts

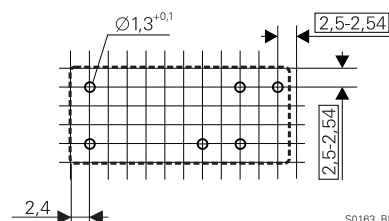


S0163-BO

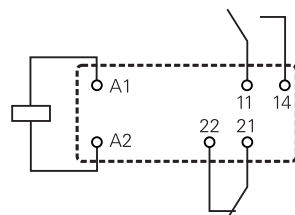


S0163-BJ

1 N/O and 1 N/C contacts



S0163-BU



S0163-BV

Ordering key

V 2 3 0 4 7 - **A 1** - **A 5**

Type

Version

A1 standard, washable

Coil

Coil code: please refer to coil versions table

Contact type

A single contact

Contact material

5 AgNi

Contact configuration

01 2 C/O contacts

11 1 N/O and 1 N/C contact

Other types on request