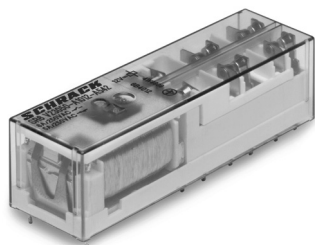


Safety Relay SR6 sensitive

6 pole 8 A



F0206-B

Features

- Forcibly guided contacts according to EN50205
- polarized, monostable with 800 mW coil power consumption
- Smallest 6 pole safety relay with either 4 N/O+2 N/C or 3 N/O+3 N/C or 5 N/O+1 N/C contacts
- 6 kV surge resistance between poles

Applications

Emergency shut-off, press control, machine control, elevator and escalator control, safety modules

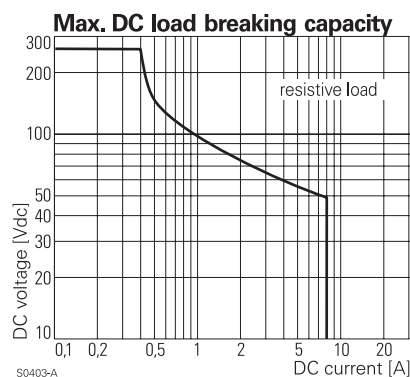


Technical data of approved types on request

in preparation us

Contact data

Configuration	3 N/O contact and 3 N/C contact or 4 N/O contact and 2 N/C contact or 5 N/O contact and 1 N/C contact
Type of contact	single contact, forcibly guided
Continuous thermal load	8 A
Rated voltage / max.breaking voltage AC	250 Vac / 440 Vac
Maximum breaking capacity AC	2000 VA
Contact material	AgSnO
Minimum contact load	> 50 mW
Contact resistance	≤100 mΩ / 1 A / 24 Vdc ≤20 Ω / 10 mA / 5 Vdc



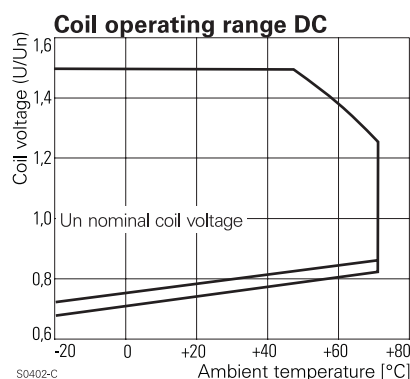
Coil data

Nominal voltage	5...48 Vdc
Nominal coil power	800 mW
Operative range	2

Coil versions

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Coil resistance Ω	Coil current mA
05	5	3.8	0.5	31±10%	161.3
06	6	4.5	0.6	45±10%	133.3
09	9	6.8	0.9	101±10%	89.1
12	12	9.0	1.2	180±10%	66.7
15	15	11.3	1.5	281±10%	53.4
18	18	13.5	1.8	405±10%	44.4
21	21	15.8	2.1	551±10%	38.1
24	24	18.0	2.4	720±10%	33.3
36	36	27.0	3.6	1620±10%	22.2
40	40	30.0	4.0	2000±10%	20.0
48	48	36.0	4.8	2880±10%	16.7

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



Safety Relay SR6 sensitive

6 pole 8 A

Insulation

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

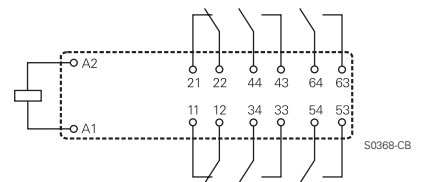
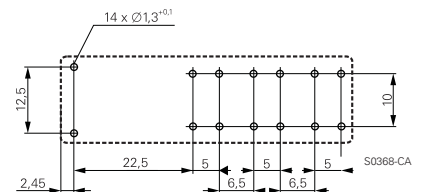
Other data

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. 11 / 3 ms
Vibration resistance N/O / N/C contact	> 8 / 5 g, 10...200 Hz
Shock resistance (function) N/O contact / N/C contact	> 8 / 6 g, 16ms half sine
Category of protection (IEC 61810)	RT III - wash tight
Relay weight	30 g
Packaging unit	10 pcs.

PCB layout / terminal assignment

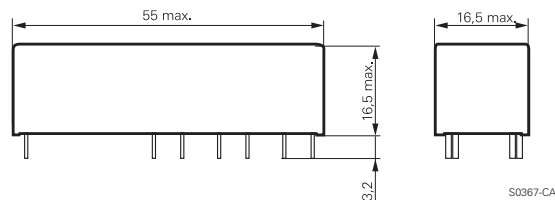
View on solder pins
Dimensions in mm

4 N/O+2 N/C and 3 N/O+3 N/C versions



Dimensions

Dimensions in mm



Release condition corresponds to the position shown. With positive potential on terminal **A1** the relay changes to its operate position

Product key



Type

Contact configuration
B 4 N/O and 2 N/C

Kontaktwerkstoff
4 AgSnO

Coil
S sensitive coil

Coil
Coil code: please refer to coil versions table

other types on request

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