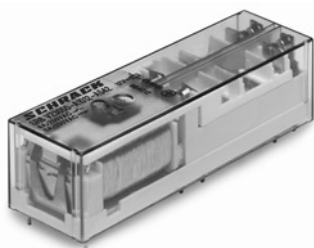


Safety Relay SR6 D/M

4 pole 8 A



- 2 N/O+2 N/C or 3 N/O+1 N/C
- High insulation distances for safe separation of electrical circuits
- According to EN50205

Applications

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

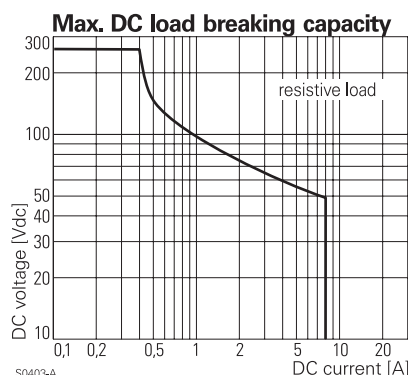
F0206-B



Technical data of approved types on request

Contact data

Configuration	3 N/O contact and 1 N/C contact or 2 N/O contact and 2 N/C contact
Type of contact	single contact, forcibly guided
Continuous thermal load	1 contact with load 8 A
Rated voltage / max. breaking voltage AC	250 Vac / 440 Vac
Maximum breaking capacity AC	2000 VA
Minimum contact load	> 50 mW
Contact resistance	$\leq 100 \text{ m}\Omega$ / 1 A / 24 Vdc $\leq 20 \text{ }\Omega$ / 10 mA / 5 Vdc



Coil data

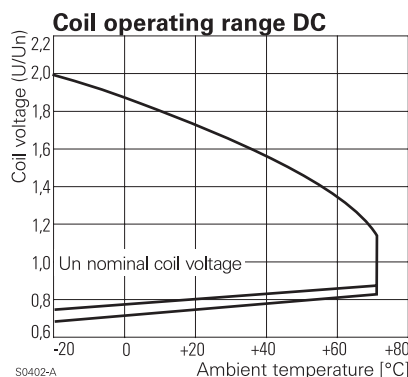
Nominal voltage	5...110 Vdc
Nominal coil power	1200 mW
Operative range	2

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	$21 \pm 10\%$	238.1
006	6	4.5	0.6	$30 \pm 10\%$	200.0
009	9	6.8	0.9	$68 \pm 10\%$	132.4
012	12	9.0	1.2	$120 \pm 10\%$	100.0
018	18	13.5	1.8	$270 \pm 10\%$	66.7
021	21	15.8	2.1	$368 \pm 10\%$	57.1
024	24	18.0	2.4	$480 \pm 10\%$	50.0
036	36	27.0	3.6	$1080 \pm 10\%$	33.3
040	40	30.0	4.0	$1333 \pm 10\%$	30.0
048	48	36.0	4.8	$1920 \pm 10\%$	25.0
060	60	45.0	6.0	$3000 \pm 12\%$	20.0
085	85	64.0	8.5	$6021 \pm 12\%$	14.1
110	110	82.5	11.0	$10080 \pm 12\%$	10.9

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 SR6 D/M

4 pole 8 A

Insulation

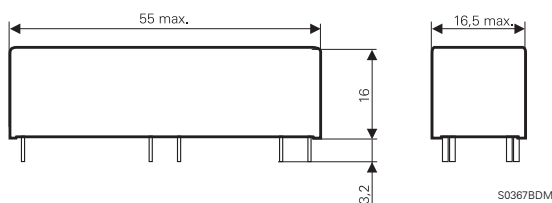
Dielectric strength	coil-contacts	3000 V _{rms}
	open contact circuit	1000 V _{rms}
	adjacent contacts	3000 V _{rms} / 4000 V _{rms} *)
Clearance / creepage	coil-contact	5.5 mm
	adjacent contacts	5.5 mm / 10 mm *)
Insulation to IEC 664/VDE 0110 (1/89)		
	Voltage rating	250 V
	Pollution degree	2
	Overvoltage category	III
Insulation resistance (500 Vdc)		> 1x10 ⁶ Ω
Tracking resistance of relay base		CTI 250
*) in longitudinal direction		

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 / N/C	> 8 / 6 g, 16ms half sine
Protection category	IP67
Relay weight	30 g
Packaging unit	10 pcs.

Dimensions

Dimensions in mm

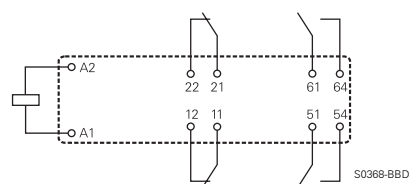
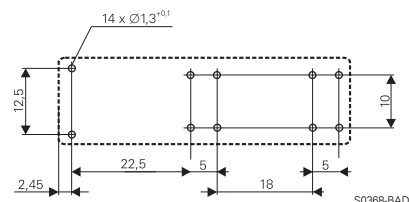


PCB layout / terminal assignment

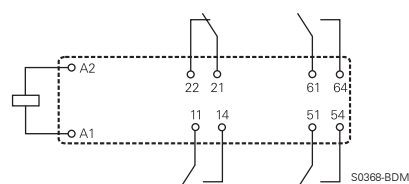
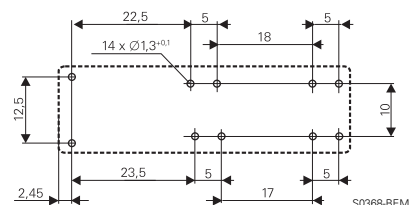
View on solder pins

Dimensions in mm

2 N/O+2 N/C versions



3 N/O + 1 N/C version



Ordering key

Type

Contact configuration

D 2 N/O + 2 N/C contacts

M 3 N/O + 1 N/C contacts

Contact material

4 AgSnO₂

Coil

Coil code = nominal voltage (e.g. 024=24Vdc)

Other types on request

S	R	6		4			
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