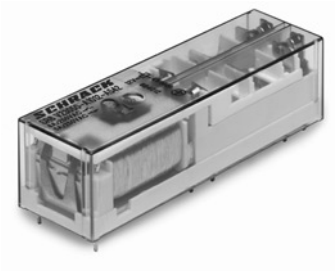
Safety Relay SR6 D/M

4 pole 8 A



F0206-B

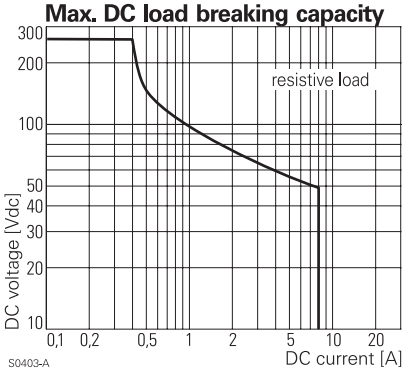
- 2 N/O+2 N/C or 3 N/O+1 N/C
- High insulation distances for safe separation of electrical circuits
- According to EN50205

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

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	≤100 mΩ / 1 A / 24 Vdc ≤20 Ω / 10 mA / 5 Vdc

Max. DC load breaking capacity



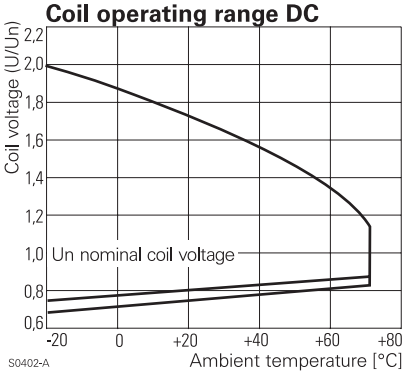
Coil data	
Nominal voltage	5...110 Vdc
Nominal coil power	1200 mW
Operative range	2

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

All figures are given for coil without preenergization, at ambient temperature +20°C
$U_{op\ max}$: at 70 °C after preenergization with 1.1 x U_{nom} the max. operate voltage is 85% of U_{nom}. U_{max}: at 70 °C the max. coil voltage is 1.1 x U_{nom}
Other coil voltages on request

Coil operating range DC



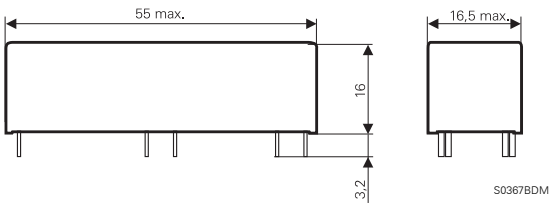
Safety Relay SR6 D/M

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		

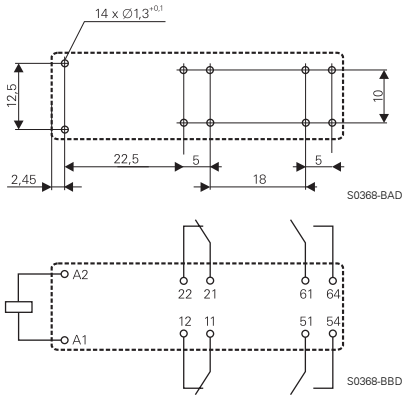
Other data	
Ambient temperature	-25...+70 °C
Mechanical life	≥ 10x10^6 operations
Max. switching rate at rated- / minimum load	6 min^{-1} / 300 min^{-1}
Operate- / release time	typ. 11 / 3 ms
Vibration resistance N/O / N/C contact	> 8 / 5 g, 10...200 Hz
Shock resistance (function) N/O / N/C	> 8 / 6 g, 16ms half sine
Protection category	IP67
Relay weight	30 g
Packaging unit	10 pcs.

Dimensions
Dimensions in mm

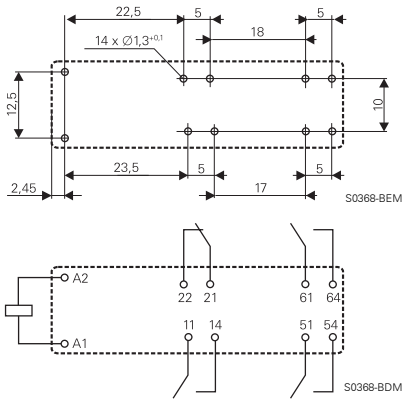


PCB layout / terminal assignment
View on solder pins
Dimensions in mm

2 N/O+2 N/C versions



3 N/O + 1 N/C version



Ordering key

S	R	6		4			

Type

Contact configuration
- **D** 2 N/O + 2 N/C contacts
- **M** 3 N/O + 1 N/C contacts

Contact material
- **4** $AgSnO_2$

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

Other types on request