

Safety Relay SR6 D/M

4 pole 8 A



Features

- Forcibly guided contacts according to EN 50205
- 4 pole safety relay with either 2 N/O+2 N/C or 3 N/O+1 N/C
- High insulation distances for safe separation of electrical circuits

Applications

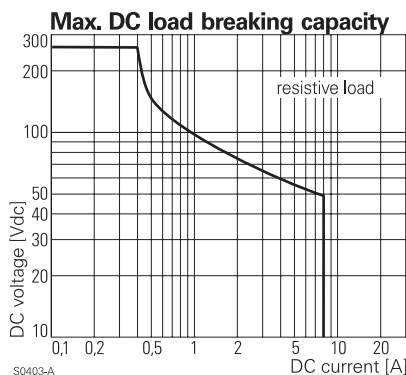
Emergency shut-off, press control, machine control, elevator and escalator control, safety modules



Technical data of approved types on request

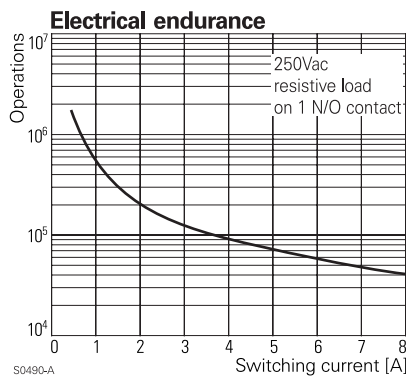
Contact data

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 type A according to EN 50205
Continuous thermal load	8 A
Rated voltage / max.breaking voltage AC	240 Vac / 400 Vac
Maximum breaking capacity AC	2000 VA
Contact material	AgSnO ₂
Minimum contact load	> 50 mW
Contact resistance	≤100 mΩ / 1 A / 24 Vdc ≤20 Ω / 10 mA / 5 Vdc



Coil data

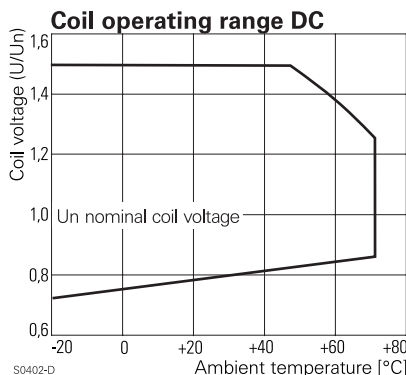
Nominal voltage	5...110 Vdc
Nominal coil power	1200 mW
Operative range	2



Coil versions

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.8	0.5	7.5	21±10%	238.1
006	6	4.5	0.6	9.0	30±10%	200.0
009	9	6.8	0.9	13.5	68±10%	132.4
012	12	9.0	1.2	18.0	120±10%	100.0
018	18	13.5	1.8	22.5	270±10%	66.7
021	21	15.8	2.1	27.0	368±10%	57.1
024	24	18.0	2.4	36.0	480±10%	50.0
036	36	27.0	3.6	54.0	1080±10%	33.3
040	40	30.0	4.0	60.0	1333±10%	30.0
048	48	36.0	4.8	72.0	1920±10%	25.0
060	60	45.0	6.0	90.0	3000±12%	20.0
085	85	64.0	8.5	127.5	6021±12%	14.1
110	110	82.5	11.0	165.0	10080±12%	10.9

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



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Insulation

Dielectric strength	
coil-contacts	3000 V _{rms}
open contact circuit	1500 V _{rms}
adjacent contacts	3000 V _{rms} / 4000 V _{rms} *)
Clearance / creepage	
coil-contact	5.5 / 5.5 mm
adjacent contacts	5.5 / 5.5 mm or 12 / 12 mm *)
Insulation to IEC 60664	
Voltage rating	250 V
Pollution degree	2
Overvoltage category	III
Insulation resistance (500 Vdc)	> 100x10 ⁶ Ω
Tracking resistance of relay base	CTI 250

*) in longitudinal direction

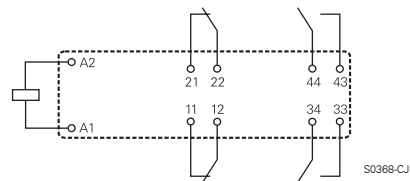
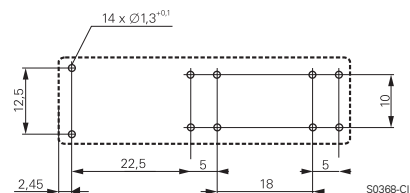
Other data

Ambient temperature	-25...+70 °C
Mechanical life	≥ 10x10 ⁶ operations
Max. switching rate at rated- / minimum load	6 min ⁻¹ / 150 min ⁻¹
Vibration resistance N/O / N/C contact	> 8 / 5 g, 10...200 Hz
Shock resistance (function) N/O contact / N/C contact	> 8 / 5 g, 16ms half sine
Category of protection (IEC 61810)	RT III
	ask factory for washing process parameters
Relay weight	30 g
Packaging unit	10 pcs.

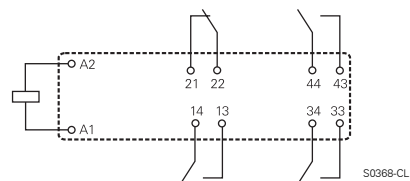
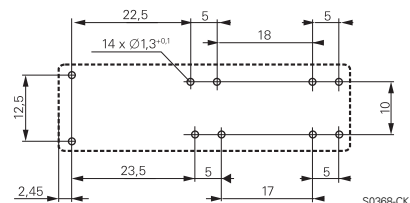
PCB layout / terminal assignment

Bottom view
Dimensions in mm

2 N/O+2 N/C versions

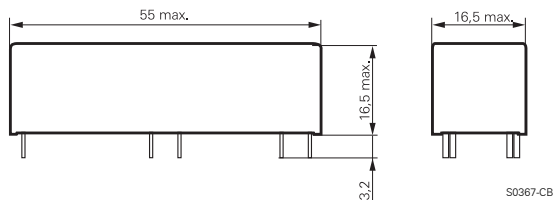


3 N/O + 1 N/C version



Dimensions

Dimensions in mm



Product 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

Product key	Type	Contact configuration	Contact material	Coil	Part number
SR6D4012	4-pole safety relay	2 N/O + 2 N/C contacts	AgSnO	12 Vdc	0-1415078-1
SR6D4018				18 Vdc	7-1415354-1
SR6D4021				21 Vdc	8-1415353-1
SR6D4024				24 Vdc	6-1415027-1
SR6D4040				40 Vdc	9-1415366-1
SR6D4110				110 Vdc	0-1415062-1
SR6M4006	3 N/O + 1 N/C contacts	3 N/O + 1 N/C contacts	AgSnO	6 Vdc	6-1415053-1
SR6M4012				12 Vdc	7-1415353-1
SR6M4018				18 Vdc	0-1415354-1
SR6M4021				21 Vdc	6-1415353-1
SR6M4024				24 Vdc	3-1415353-1
SR6M4110				110 Vdc	1-1415354-1