

Electronics

Safety Relay SR6 D/M

- 4 pole safety relay with either 2 NO+2 NC or 3 NO+1 NC contacts
- Forcibly guided contacts according to EN 50205
- Rated current 8 A
- High insulation distances for safe separation of electrical circuits
- RoHS compliant (Directive 2002/95/EC) as per product date code 0407



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



F0245-A

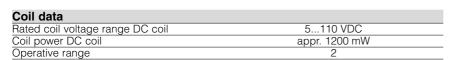
SCHRACK

Approvals

REG.-Nr. 128935, **c % us** E214024, 968/EL 141.01/03

Technical data of approved types on request

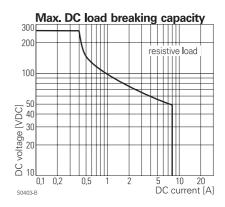
Contact data	
Contact configuration	3 NO contacts and 1 NC contact
	or
	2 NO contacts and 2 NC contacts
Contact set	single contact, forcibly guided
	type A according to EN 50205
Type of interruption	micro disconnection
Rated current	8 A
Rated voltage / max.switching voltage AC	240/400 VAC
Maximum breaking capacity AC	2000 VA
Utilization class (AC-15) acc. IEC 60947-5-1	
NO contact	I _e 3 A / U _e 250 VAC (inrush 30 A)
NC contact	l _e 1.5 A / U _e 250 VAC (inrush 15 A)
Contact material	AgSnO₂
Minimum contact load	10 mA / 5 V
Contact resistance	≤ 100 mOhm / 1 A / 24 VDC
	≤ 20 Ohm / 10 mA / 5 VDC
Mechanical endurance	10x10 ⁶ cycles
Rated frequency of operation with / without load	6 min ⁻¹ / 150 min ⁻¹

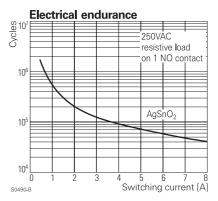


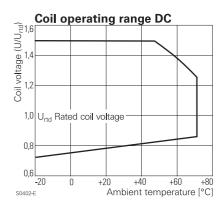
Coil versions, DC-coil

Con versions, Do con							
Coil	Rated	Operate	Release/Reset	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDČ	VDČ	VDČ	Ohm	mW		
005	5	3.8	0.5	21±10%	1190		
006	6	4.5	0.6	30±10%	1200		
009	9	6.8	0.9	68±10%	1191		
012	12	9.0	1.2	120±10%	1200		
018	18	13.5	1.8	270±10%	1200		
021	21	15.8	2.1	368±10%	1198		
024	24	18.0	2.4	480±10%	1200		
036	36	27.0	3.6	1080±10%	1200		
040	40	30.0	4.0	1333±10%	1200		
048	48	36.0	4.8	1920±10%	1200		
060	60	45.0	6.0	3000±12%	1200		
085	85	64.0	8.5	6021±12%	1200		
110	110	82.5	11.0	10080±12%	1200		

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request













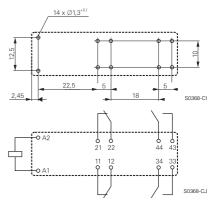
Safety Relay SR6 D/M (Continued)

Insulation > 100x10⁶ Ohm Insulation resistance coil-contact circuit Dielectric strength coil-contact circuit 3000 V_{rms} open contact circuit 1500 V_{rms} 3000 / 4000 V_{rms} (in longitudinal direction) adjacent contact circuits Clearance / creepage coil-contact circuit \geq 5.5 / 5.5 mm \geq 5.5 / 5.5 mm adjacent contact circuits ≥ 12 / 12 mm (in longitudinal direction) Material group of insulation parts ≥ IIIa Tracking index of relay base CTI 250 Insulation to IEC 60664-1 Type of insulation coil-contact circuit basic open contact circuit functional adjacent contact circuits reinforced (in longitudinal dir) 250 V Rated insulation voltage Pollution degree Rated voltage system 230/400 V Overvoltage category Ш Insulation to EN 50178 Type of insulation coil-contact circuit reinforced

PCB layout / terminal assignment

Bottom view on solder pins

2 NO+2 NC versions

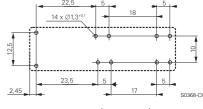


Other data RoHS - Directive 2002/95/EC compliant as per product date code 0407 Ambient temperature range -25...+70°C > 8 / 2.5 g, 10....200 Hz Vibration resistance (function) NO / NC contact > 10 / 2.5 g, 16 ms half sine RT III ¹⁾ Shock resistance (function) NO / NC contact Category of protection Resistance to soldering heat 260°C / 5 s Relay weight 30 g Packaging unit 10 pcs 1) please contact technical support for washing parameters

55 max

adjacent contact circuits

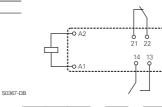
3 NO + 1 NC version



4

43

44



S R 6

Product key

Dimensions

Accessories

PCB socket and hold down clip

Type Contact configuration

2 NO + 2 NC contacts 3 NO + 1 NC contacts

Contact material

Coil

Coil code = rated coil voltage (e.g. 024=24 VDC)

Other types on request

Product key	Туре	Contact configuration	Contact material	Coil	Part number
SR6D4012	4-pole	2 NO + 2 NC	AgSnO ₂	12 VDC	0-1415078-1
SR6D4018	safety relay	contacts	Ţ.	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 NO + 1 NC		6 VDC	6-1415053-1
SR6M4012		contacts		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

reinforced

contact technical support

16,5 max,