

Force Guided Relay SR6 D/M

- 4 pole relay with force guided contacts according to EN 50205
- High insulation distances between electrical circuits

Typical applications

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





Approvals

VDE Cert. No. 128935, UL E214025, TUV 968/EL 350

Technical data of approved types on request.

Contact Data	
Contact arrangement	3 form A + 1 form B contacts
	3 NO + 1 NC,
	2 form A + 2 form B contacts
	2 NO + 2 NC
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A
Contact material	AgSnO ₂
Contact style	single contact, force guided
	type A according to EN 50205
Min. recommended contact load	5V, 10mA

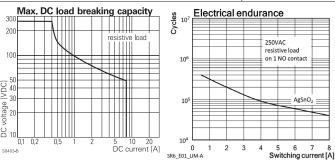
≤100mΩ at 1A, 24VDC

 \leq 20Ω at 10mA, 5VDC Frequency of operation, with/without load 6/150min⁻¹

Contact ratings, IEC60947-5-1, on 1 form A (NO) contact

Initial contact resistance

on 1 form A (NO) contact
AC15-5A
DC13-6A
Mechanical endurance
10x10⁶ operations



5 to 110VDC

Coil versions. DC-coil

Con vers	510115, DC-CC	711			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW
005	5	3.8	0.5	21	1190
006	6	4.5	0.6	30	1200
009	9	6.8	0.9	68	1191
012	12	9	1.2	120	1200
018	18	13.5	1.8	270	1200
021	21	16	2.1	368	1198

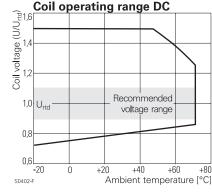
Coil Data (continued)

Coil	versions,	DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW
024	24	18	2.4	480	1200
036	36	27	3.6	1080	1200
040	40	30	4.0	1333	1200
048	48	36	4.8	1920	1200
060	60	45	6	30001)	1200
110	110	83	11	10080 ¹⁾	1200

1) Coil resistance ±12%.

All figures are given for coil without pre-energization, at ambient temperature +23°C.



Insulation Data Initial dielectric strength 1500V_{rms} between open contacts 4000V_{rms} between contact and coil between adjacent contacts $3000V_{rms}$ 4000V_{rms} in longitudinal direction Clearance/creepage microdisconnection between open contacts between contact and coil ≥5.5/5.5mm between adjacent contacts ≥5.5/5.5mm in longitudinal direction ≥15/15mm Insulation to EN 50178, type of insulation between contact and coil reinforced between adjacent contacts reinforced



Force Guided Relay SR6 D/M (Continued)

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

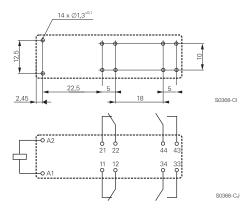
Ambient temperature	-25 to 70°C	
Category of environmental Protection		
IEC 61 810	RTIII	
Weight	30g	
Resistance to soldering heat THT		
IEC 60068-2-20	260°C/5s	
Packaging/unit	tube/10 pcs.	

For more detailed information see product specification 2158003

PCB layout / terminal assignment

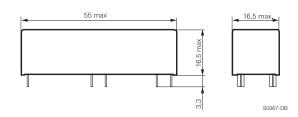
Bottom view on solder pins

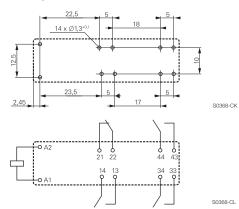
2 form A + 2 form B, 2 NO + 2 NC contacts



3 form A + 1 form B, 3 NO + 1 NC contacts

Dimensions





SR₆

D

012

Product code structure

Typical product code

Type

SR6 Relay with force guided contacts SR6 D/M

Contact arrangement

- **D** 2 form A + 2 form B contacts (2 NO + 2 NC)
- M 3 form A + 1 form B contacts (3 NO + 1 NC)

Contact material

AgSnO₂

Coil

Coil code: please refer to coil versions table (e.g. 024=24VDC)

Other types on request

Product code	Туре	Contact arrangement	Contact material	Coil	Part Number
SR6D4012	4 pole	2 form A + 2 form B,	AgSnO ₂	12VDC	1415078-1
SR6D4018	relay with	2 NO + 2 NC		18VDC	7-1415354-1
SR6D4021	force guided contacts	contacts		21VDC	8-1415353-1
SR6D4024				24VDC	6-1415027-1
SR6D4040				40VDC	9-1415366-1
SR6D4110				110VDC	1415062-1
SR6M4006		3 form A + 1 form B,		6VDC	6-1415053-1
SR6M4012		3 NO + 1 NC		12VDC	7-1415353-1
SR6M4018		contacts		18VDC	1415354-1
SR6M4021				21VDC	6-1415353-1
SR6M4024				24VDC	3-1415353-1
SR6M4110				110VDC	1-1415354-1