

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 10mΔ		

 Min. recommended contact load
 5V, 10mA

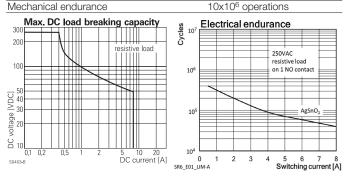
 Initial contact resistance
 ≤100mΩ at 1A, 24VDC

 ≤20Ω at 10mA, 5VDC

 Frequency of operation, with/without load
 6/150min⁻¹

Contact ratings, IEC60947-5-1,

on 1 form A (NO) contact AC15-5A
DC13-6A



Coil data	
Coil voltage range	5 to 110VDC

Coil	versions.	DC-coil

Con vers	510115, DC-CC	111			
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

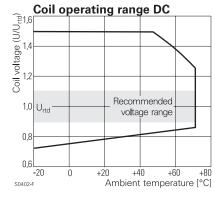
Coil Data (continued)

Coil	vareione	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 $3000V_{rms}$ in longitudinal direction 4000V_{rms} 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

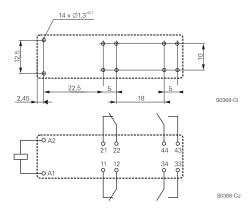
Ambient temperature	-25 to 70°C
Category of environmental Protection	
IEC 61 810	RTIII
Weight	30g
Resistance to soldering heat THT	
IEC 60068-2-20	260°C/5s
Packaging/unit	tube/10 pcs.

For more detailed information see product specification 2158003

PCB layout / terminal assignment

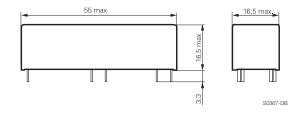
Bottom view on solder pins

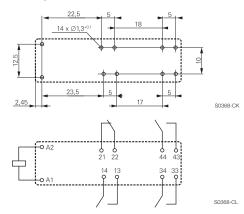
2 form A + 2 form B, 2 NO + 2 NC contacts



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

Dimensions





SR₆

D

012

Typical product code

Product code structure

SR6 Relay with force guided contacts SR6 D/M

Contact arrangement

2 form A + 2 form B contacts (2 NO + 2 NC)
 3 form A + 1 form B contacts (3 NO + 1 NC)

Contact material

4 AgSnO₂

Coil

Type

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

Other types on request.

Product code	Type	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

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Authorized Distributor

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<u>TE Connectivity</u>: 1-1415354-1