

## 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.



F0206-ED



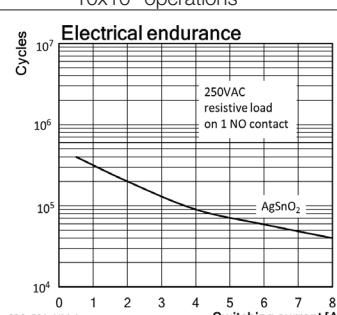
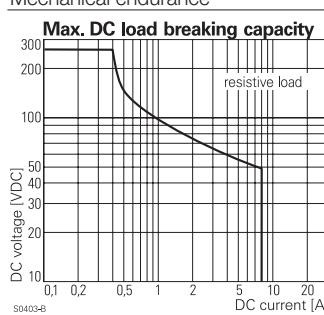
### Approvals

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 <sub>2</sub>
Contact style	single contact, force guided type A according to EN 50205
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 <sup>-1</sup>
Contact ratings, IEC60947-5-1, on 1 form A (NO) contact	AC15-5A DC13-6A
Mechanical endurance	10x10 <sup>6</sup> operations

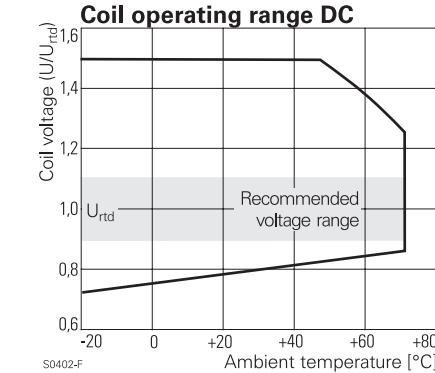


### Coil data

Coil voltage range	5 to 110VDC
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### Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$ <sup>1)</sup>	Rated coil power 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



### Insulation Data

Initial dielectric strength between open contacts	1500V <sub>rms</sub>
between contact and coil	4000V <sub>rms</sub>
between adjacent contacts in longitudinal direction	3000V <sub>rms</sub>
Clearance/creepage between open contacts	microdisconnection ≥5.5/5.5mm
between contact and coil	≥5.5/5.5mm
between adjacent contacts 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](http://www.te.com/customersupport/rohssupportcenter)

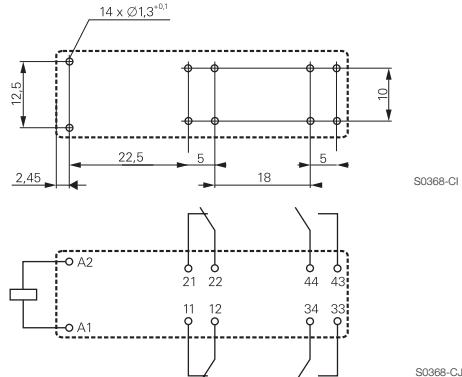
Ambient temperature	-25 to 70°C
Category of environmental Protection	IEC 61 810
Weight	30g
Resistance to soldering heat THT	260°C/5s
IEC 60068-2-20	
Packaging/unit	tube/10 pcs.

For more detailed information see product specification 2158003

### PCB layout / terminal assignment

Bottom view on solder pins

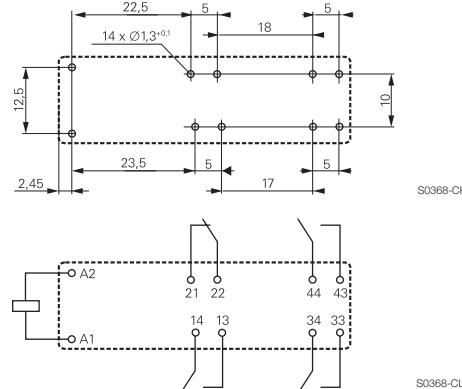
2 form A + 2 form B, 2 NO + 2 NC contacts



S0368-CI

S0368-CJ

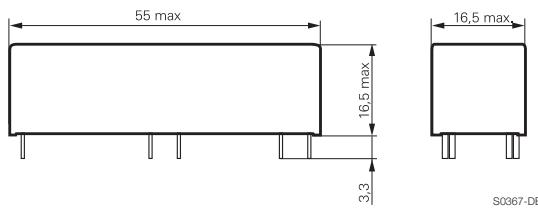
3 form A + 1 form B, 3 NO + 1 NC contacts



S0368-CK

S0368-CL

### Dimensions



### Product code structure

Typical product code **SR6** **D** **4** **012**

#### 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

**4** AgSnO<sub>2</sub>

#### Coil

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 <sub>2</sub>	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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