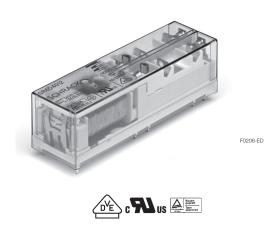


## Force Guided Relay SR6 D/M

- 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 <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	t 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			
Max. DC load breaking capacity	g Electrical endurance			
200 resistive load				
	250VAC resistive load			
	10 <sup>6</sup> on 1 NO contact			
	10 <sup>5</sup> AgSnO <sub>2</sub>			
<sup>22</sup> 20				
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
0,1 0,2 0,5 1 2 5 10 20	$10^4$ 0 1 2 3 4 5 6 7 8			
S0403-B DC current [A]	0 1 2 3 4 5 6 7 8 sr6_E01_LIM-A Switching current [A]			
S0403-B DC current [A]				

Coil data	
Coil voltage range	

Coil vers	sions, DC-co	bil			
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

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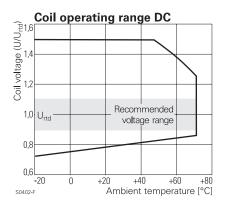
5 to 110VDC

## Coil Data (continued)

Coil vers	sions, DC-co	oil			
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	3000 <sup>1)</sup>	1200
110	110	83	11	10080 <sup>1)</sup>	1200

<sup>1)</sup> Coil resistance  $\pm 12\%$ .

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



## **Insulation Data**

Initial dielectric strength	
between open contacts	1500V <sub>rms</sub>
between contact and coil	4000V <sub>rms</sub>
between adjacent contacts	3000V <sub>rms</sub>
in longitudinal direction	4000V <sub>rms</sub>
Clearance/creepage	
between open contacts	microdisconnection
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

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Catalog product data, 'Definitions' section, application notes and all specifications are subject to change. 1



## Force Guided Relay SR6 D/M (Continued)

## **Other Data**

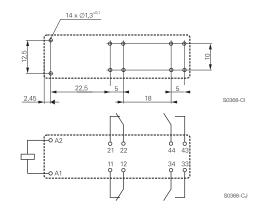
Material compliance: EU	liance: EU RoHS/ELV, China RoHS, REACH, Halogen content			
	refer to the Product Compliance Support Center a			
	www.te.com/customersupport/rohssupportcente			
Ambient temperature	-25 to 70°C			
Category of environment	al Protection			
IEC 61 810	RTIII			
Weight	30g			
Resistance to soldering I	neat THT			
IEC 60068-2-20	260°C/5s			
Packaging/unit	tube/10 pcs.			

For more detailed information see product specification 2158003

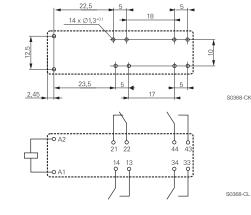
#### PCB layout / terminal assignment

Bottom view on solder pins

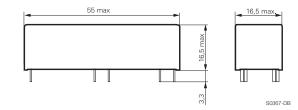
2 form A + 2 form B, 2 NO + 2 NC contacts



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



#### Dimensions



# Product code structure Typical product code SR6 D 4 012 Type SR6 Relay with force guided contacts SR6 D/M Image: Contact arrangement Image: Contact arrangement Image: Contact (2 NO + 2 NC) Image: Contact (3 NO + 1 NC) Image: Contact material <td

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 <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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