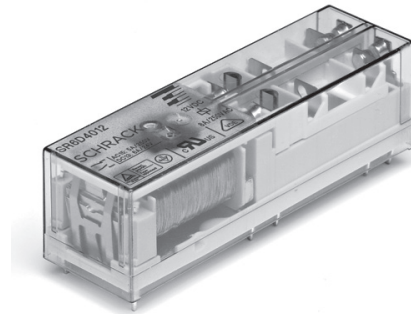


**Force Guided Relay SR6 D/M**

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

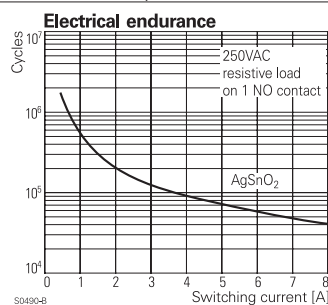
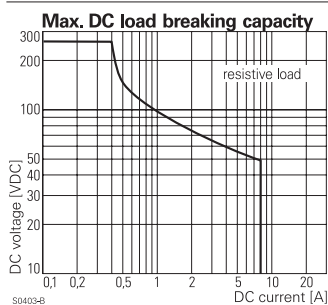
Typical applications  
Emergency shut-off, press control, machine control, elevator and escalator control, safety relays.



**Approvals**  
VDE 128935, UL E214024, TUV 968/EL 350, CQC06017015577  
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

**Coil versions, DC-coil**

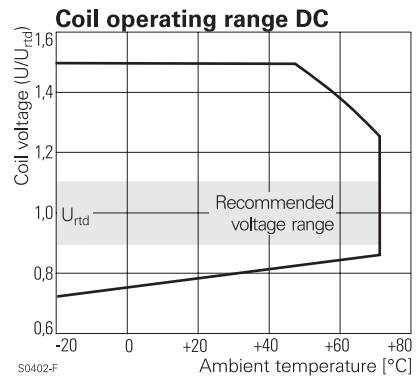
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10% <sup>1)</sup>	Rated coil power mW
005	5	3.8	0.5	21	1190
006	6	4.5	0.6	30	1200
009	9	6.8	0.9	68	1191
012	12	9	1.2	120	1200
018	18	13.5	1.8	270	1200
021	21	16	2.1	368	1198

**Coil Data (continued)**

**Coil versions, DC-coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10% <sup>1)</sup>	Rated coil power 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 ±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

**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 <a href="http://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a>	
Ambient temperature	-25 to 70°C
Category of environmental Protection	RTIII
IEC 61 810	RTIII
Weight	30g
Resistance to soldering heat THT	
IEC 60068-2-20	260°C/5s
Packaging/unit	tube/10 pcs.

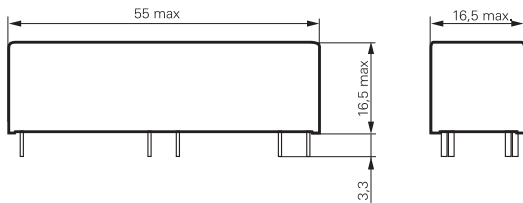
For more detailed information see product specification 2158003

**Accessories**

27E1079	SR6A and SR6B socket (1423991-1)
27E1081	SR6C socket (1423992-1)
24A243	Relay hold down clip (1423994-1)

For details see datasheet 1654787

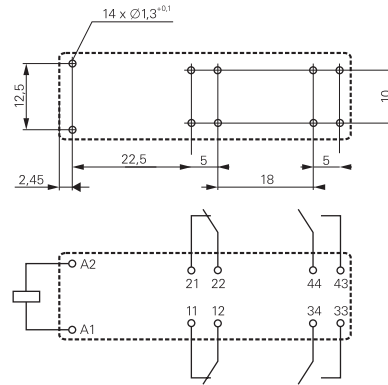
**Dimensions**



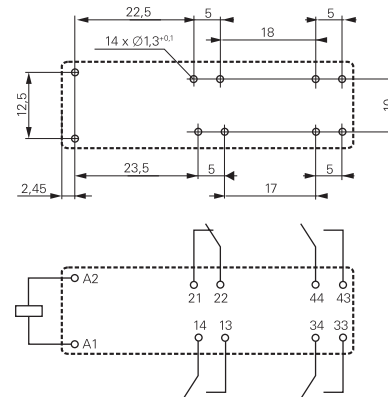
**PCB layout / terminal assignment**

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



**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,	3 NO + 1 NC	contacts	6VDC	6-1415053-1
SR6M4012							12VDC	7-1415353-1
SR6M4018							18VDC	1415354-1
SR6M4021							21VDC	6-1415353-1
SR6M4024	24VDC	3-1415353-1						
SR6M4110	110VDC	1-1415354-1						