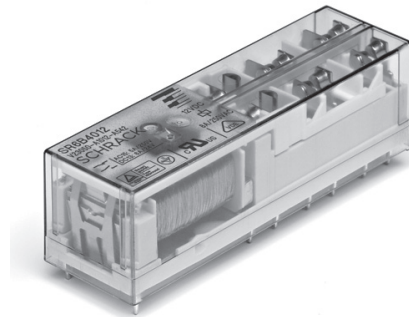


**Force Guided Relay SR6 A/B/C/V**

- 6 pole relay with force guided contacts according to EN 50205
- Reinforced insulation between all contacts

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



F0206-EA



**Approvals**

VDE 128935, UL E214025, TUV 968/EL 350, CQC06017015576/77, CCC 2012010304537809

Technical data of approved types on request

**Contact Data**

Contact arrangement	3 form A + 3 form B contacts 3 NO + 3 NC, 4 form A + 2 form B contacts 4 NO + 2 NC, 5 form A + 1 form B contacts 5 NO + 1 NC
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A
Contact material	AgSnO <sub>2</sub> , AgSnO <sub>2</sub> + 0.2µm Au
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 2 form A (NO) contact	AC15-5A DC13-6A
Mechanical endurance	10x10 <sup>6</sup> operations

**Coil Data**

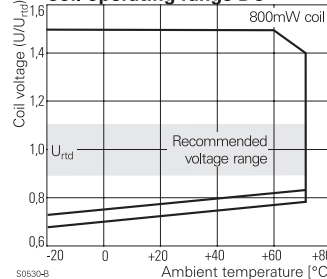
Coil voltage range	5 to 110VDC
Max. coil power	1200mW or 800mW

**Coil versions, DC-coil 800mW**

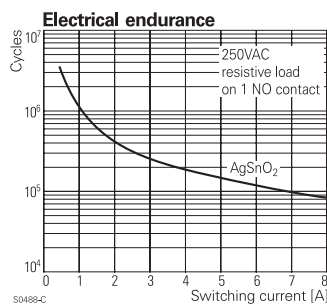
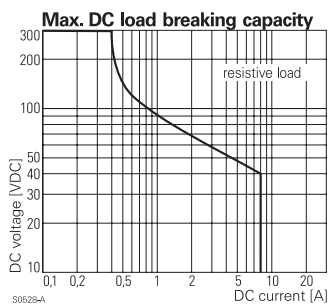
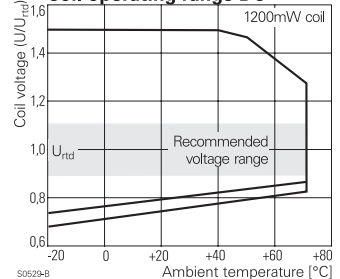
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated power mW
K12	12	9	0.9	180	800
K15	15	11.3	1.5	281	801
K18	18	13.5	1.8	405	800
K21	21	16	2.1	551	800
K24	24	18	2.4	720	800
K36	36	27	3.6	1620	800

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

**Coil operating range DC**



**Coil operating range DC**



**Coil versions, DC-coil 1200mW**

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
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.

**Force Guided Relay SR6 A/B/C/V** (Continued)

**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>
Clearance/creepage	
between open contacts	microdisconnection
between contact and coil	≥5.5/5.5mm
between adjacent contacts	≥5.5/5.5mm
Insulation to EN 50178, type of insulation	
between contact and coil	reinforced
between adjacent contacts	reinforced

**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/customer-support/rohssupportcenter">www.te.com/customer-support/rohssupportcenter</a>	
Ambient temperature	-25 to 70°C
Category of environmental Protection	RTIII
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

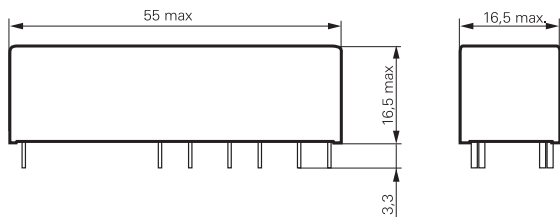
**Accessories**

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

For details see datasheet 1654787

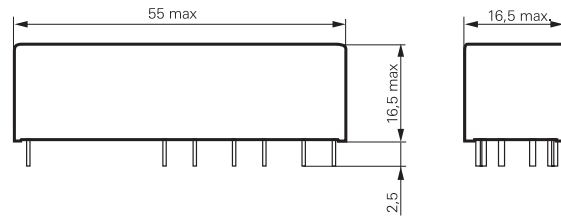
**Dimensions**

SR6 A/B/C



S0367-DN

SR6 V

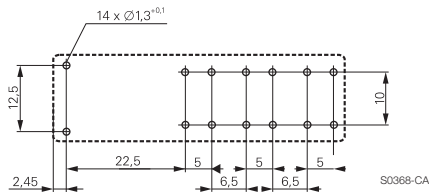


S0367-DU

**PCB layout / terminal assignment**

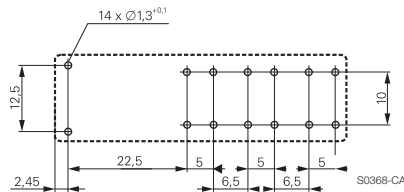
Bottom view

3 form A + 3 form B, 3 NO + 3 NC versions  
SR6 A



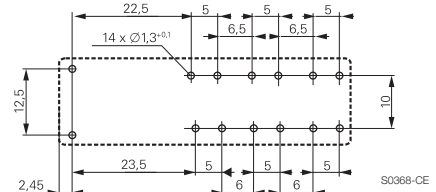
S0368-CA

4 form A + 2 form B, 4 NO + 2 NC versions  
SR6 B

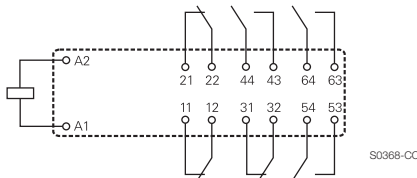


S0368-CA

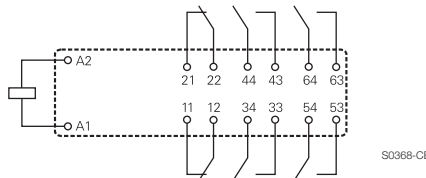
5 form A + 1 form B, 5 NO + 1 NC versions  
SR6 C



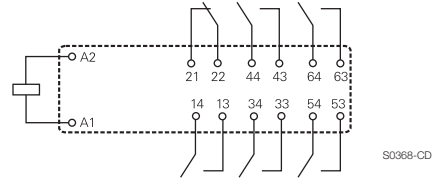
S0368-CE



S0368-CC



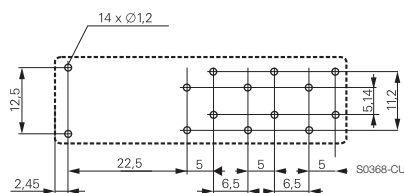
S0368-CB



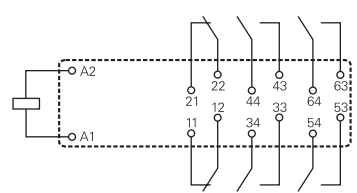
S0368-CD

4 form A + 2 form B, 4 NO + 2 NC versions  
SR6 V

The design of the SR6 V allows clearance/creepage of 5.5 mm on the PCB.



S0368-CU



S0368-CV

**Force Guided Relay SR6 A/B/C/V** (Continued)

**Product code structure**

Typical product code **SR6 A 4 012**

<b>Type</b>	<b>SR6</b> Relay with force guided contacts SR6
<b>Contact arrangement</b>	<p><b>A</b> 3 form A + 3 form B contacts (3 NO + 3 NC)</p> <p><b>B</b> 4 form A + 2 form B contacts (4 NO + 2 NC)</p> <p><b>V</b> 4 form A + 2 form B contacts (4 NO + 2 NC)</p> <p><b>C</b> 5 form A + 1 form B contacts (5 NO + 1 NC)</p>
<b>Contact material</b>	<p><b>4</b> AgSnO<sub>2</sub> for 1200mW version</p> <p><b>6</b> AgSnO<sub>2</sub> + 0.2µm Au for 800mW version</p>
<b>Coil</b>	Coil code: please refer to coil versions table (e.g. 024=24VDC)

Available types please see Part number table

Product code	Type	Arrangement	Cont. material	Coil	Coil power	Alt. description	Part number			
SR6A4005	6 pole	3 form A + 3 form B, 3 NO + 3 NC contacts	AgSnO <sub>2</sub>	5VDC	1200mW	V23050-A1005-A533	8-1415017-1			
SR6A4012	relay with			12VDC		V23050-A1012-A533	1-1415015-1			
SR6A4021	force guided			21VDC		V23050-A1021-A533	3-1415018-1			
SR6A4024	contacts			24VDC		V23050-A1024-A533	1415015-1			
SR6A4048				48VDC		V23050-A1048-A533	6-1415018-1			
SR6A4060				60VDC		V23050-A1060-A533	7-1415018-1			
SR6A4110				110VDC		V23050-A1110-A533	9-1415018-1			
SR6A6K12				4 form A + 2 form B, 4 NO + 2 NC contacts		AgSnO <sub>2</sub> +Au	12VDC	800mW		6-1415537-1
SR6A6K18							18VDC			6-1415537-3
SR6A6K24							24VDC			6-1415537-5
SR6B4005		5VDC	1200mW		V23050-A1005-A542		1393260-1			
SR6B4006		6VDC		V23050-A1006-A542	1393260-2					
SR6B4012		12VDC		V23050-A1012-A542	1393260-4					
SR6B4018		18VDC		V23050-A1018-A542	1393260-5					
SR6B4021		21VDC		V23050-A1021-A542	1393260-6					
SR6B4024		24VDC		V23050-A1024-A542	1393260-7					
SR6B4040		40VDC		V23050-A1040-A542	1393260-9					
SR6B4048		48VDC		V23050-A1048-A542	1-1393260-0					
SR6B4060		60VDC		V23050-A1060-A542	1-1393260-1					
SR6B4085		85VDC		V23050-A1085-A542	1-1393260-2					
SR6B4110		110VDC		V23050-A1110-A542	1-1393260-3					
SR6B6K12		5 form A + 1 form B, 5 No + 1 NC contacts	AgSnO <sub>2</sub>	12VDC	1200mW	V23050-A1012-A551	1-1415017-1			
SR6B6K15				15VDC		V23050-A1024-A551	1415017-1			
SR6B6K18				18VDC		V23050-A1048-A551	2-1415019-1			
SR6B6K21				21VDC		V23050-A1060-A551	3-1415019-1			
SR6B6K24				24VDC		V23050-A1110-A551	5-1415019-1			
SR6C4012		4 form A + 2 form B, 4 NO + 2 NC contacts	AgSnO <sub>2</sub> +Au	24VDC	800mW		9-1415537-4			
SR6C4024				12VDC			3-1415542-5			
SR6C4048				15VDC			2-1415543-2			
SR6C4060				18VDC			3-1415543-3			
SR6C4110				21VDC			4-1415542-4			
SR6C6K24		24VDC		5-1415539-2						