

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

- 6 pole relay with force guided contacts according to EN61810-3 (formerly EN50205)
- Reinforced insulation between all contacts

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



F0206-EA



**Approvals**  
VDE Cert. No. 128935, UL E214025, TUV 968/EL 350, CCC 2020970303000302  
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 EN61810-3 (formerly EN50205)
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	
<b>IEC60947-5-1</b>	
on 1 form A (NO) contact	AC15 - 250V/5A 6.050 DC13 - 24V/6A 6.050
<b>UL 61810-1 (former UL 508)</b>	
on 1 form A (NO) contact	8A, 250VAC, 70°C General purpose 6.000 B00/R300 6.000
Mechanical endurance	10x10 <sup>6</sup> operations

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

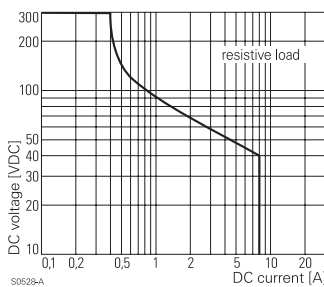
Coil versions, DC-coil 800mW					
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
K12	12	9	1.2	180	800
K15	15	11.3	1.5	281	801
K18	18	13.5	1.8	405	800
K21	21	16	2.1	551	800
K24	24	18	2.4	720	800
K36	36	27	3.6	1620	800
K48	48	36	4.8	2880 <sup>1)</sup>	800
L10	110	82.5	11.0	15130 <sup>1)</sup>	800

1) Coil resistance ±12%.  
All figures are given for coil without pre-energization, at ambient temperature +23°C.

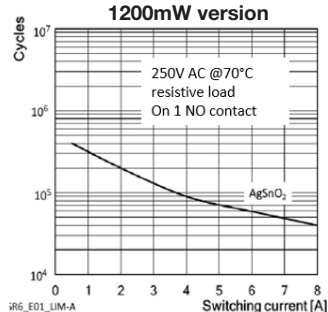
Coil versions, DC-coil 1200mW					
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10% <sup>1)</sup>	Rated coil power mW
005	5	3.8	0.5	20.8	1200
006	6	4.5	0.6	30.0	1200
009	9	6.8	0.9	67.5	1200
012	12	9	1.2	120	1200
018	18	13.5	1.8	270	1200
021	21	16	2.1	368	1200
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	6.0	3000 <sup>1)</sup>	1200
110	110	83	11.0	10080 <sup>1)</sup>	1200

1) Coil resistance ±12%.  
All figures are given for coil without pre-energization, at ambient temperature +23°C.

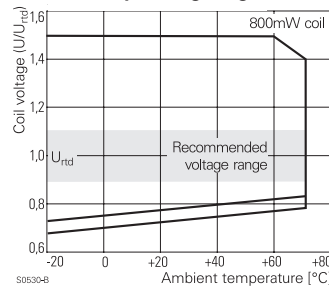
Max. DC load breaking capacity



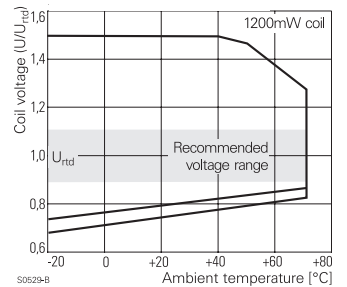
Electrical endurance 1200mW version



Coil operating range DC



Coil operating range DC



**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 IEC EN 62477 (former EN 50178), type of insulation	
between contact and coil	reinforced
between adjacent contacts	reinforced

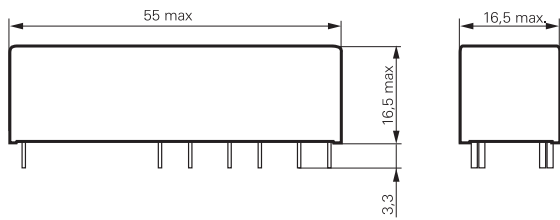
**Other Data**

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	IEC 61 810
	RTIII <sup>1)</sup>
1) Washing not recommended. The user is encouraged to check suitability for washing under actual conditions.	
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

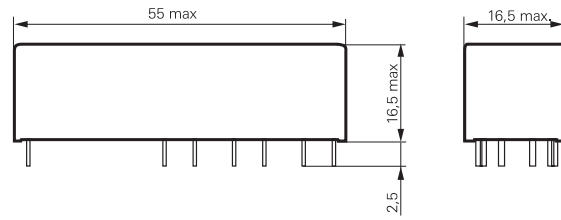
**Dimensions**

SR6 A/B/C



S0367-DN

SR6 V



S0367-DU

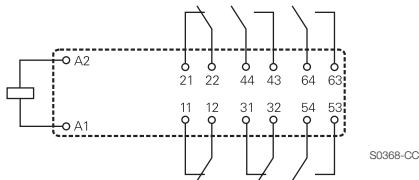
**PCB layout / terminal assignment**

Bottom view

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

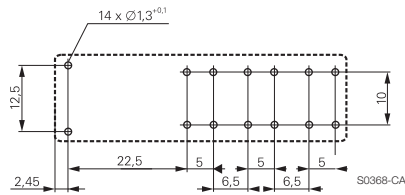


S0368-CA

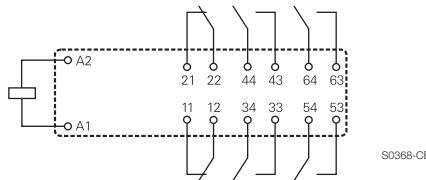


S0368-CC

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

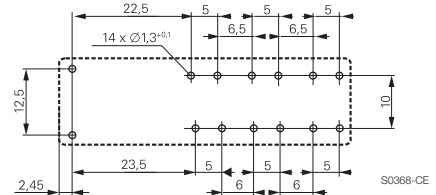


S0368-CA

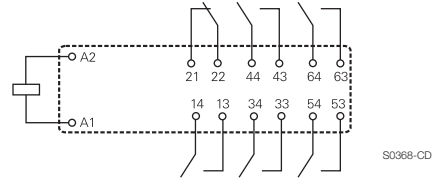


S0368-CB

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



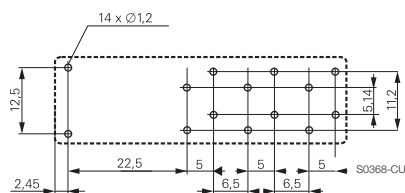
S0368-CE



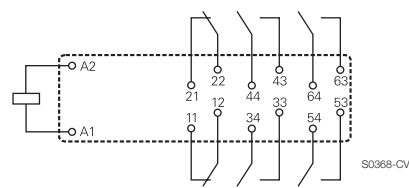
S0368-CD

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