

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



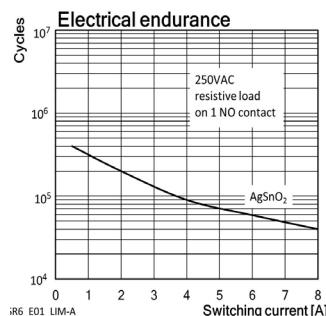
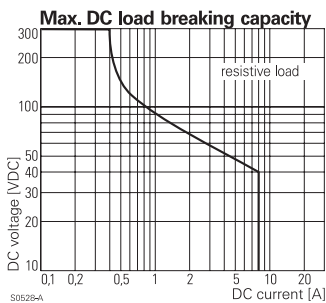
F0206-EA



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 ₂ , AgSnO ₂ + 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 ⁻¹

Contact ratings	
IEC61810-1	
on 1 form A (NO) contact	1200mW-coil: 8A, 250VAC, cosφ = 1,70C 20x10 ³ 800mW-coil: 6A, 250VAC, cosφ = 1,70C 40x10 ³
IEC60947-5-1	
on 1 form A (NO) contact	AC15 - 250V/5A DC13 - 24V/6A
UL508	
on 1 form A (NO) contact	8A, 250VAC, general purpose, 70C 6.000 B300 6.000
Mechanical endurance	10x10 ⁶ operations



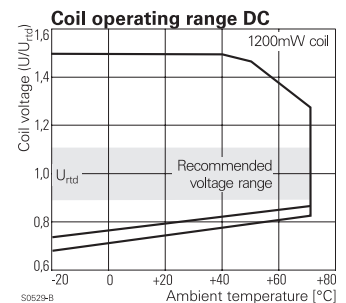
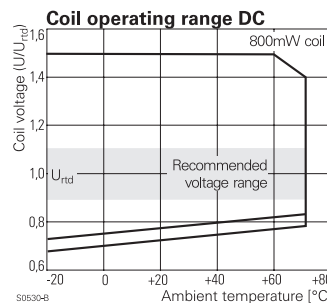
Coil Data	
Coil voltage range	5 to 110VDC
Max. coil power	1200mW or 800mW

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 ¹⁾	800
L10	110	82.5	11.0	15130 ¹⁾	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% ¹⁾	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 ¹⁾	1200
110	110	83	11.0	10080 ¹⁾	1200

1) 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 _{rms}
between contact and coil	4000V _{rms}
between adjacent contacts	3000V _{rms}
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 www.te.com/customer-support/rohssupportcenter	
Ambient temperature	-25 to 70°C
Category of environmental Protection	IEC 61 810
	RTIII ¹⁾
1) See product specification 2158003 4.6 and 4.8.	
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



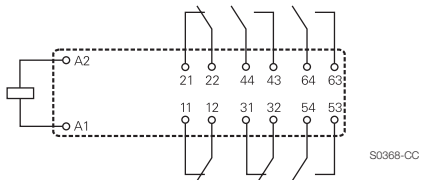
SR6 V



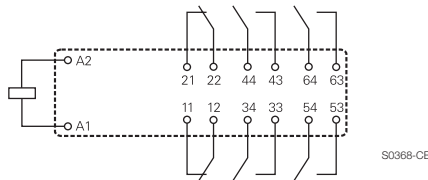
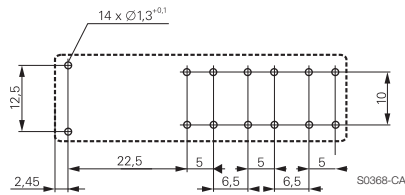
PCB layout / terminal assignment

Bottom view

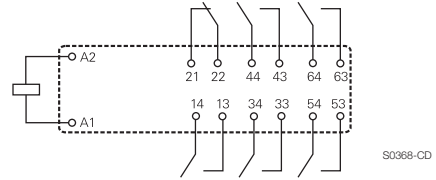
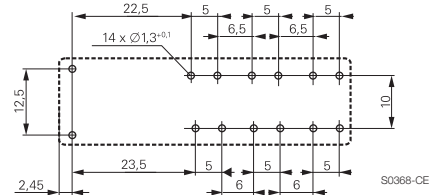
3 form A + 3 form B, 3 NO + 3 NC versions
SR6 A



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



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



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.

