

Force Guided Relay SRL7

- Low profile relay with force guided contacts according to EN 50205
- 5 form A (NO) + 2 form B (NC) contacts
- Reinforced insulation between contact circuits

Typical applications

Emergency stop or two hand guard safety relays, expansion I/O modules, safety control circuits



SRL7



	Ap	pro	vals
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VDE Cert. No. 40036240, UL E214025, TÜV 968/EL908

Technical data of approved types on request

Contact Data	
Contact arrangement	5 form A + 2 form B contacts,
	(5 NO + 2 NC)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	6A
Sum of the squared currents	72A ²
Contact material	Ag alloy
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 I	oad 6/300min ⁻¹
Mechanical endurance	10x10 ⁶ operations

Contact	t ratings

Contact	Load	Cycles
UL508		
NO/NC	6A, 250VAC, general purpose, 85°C	6.000
IEC61810		
NO/NC	6A, 250VAC, cosphi=1, 50% DF, 85°C	6.000
NO (1 form A)	5A, 24VDC, DC-13	6.050
NO (1 form A)	3A. 250VAC. AC-15	6.050

Coil Data		
Coil voltage range	5 to 110VDC	
Operative range, IEC 61810	2	
Max. coil power	700mW	

Coil	versions,	DC-	coil
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COII VEI	sions, Do-co	/11			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	mW
005	5	3,8	0,5	36	694
006	6	4,5	0,6	51	706
009	9	6,8	0,9	116	698
012	12	9	1,2	206	699
015	15	11,3	1,5	319	705
018	18	13,5	1,8	463	700
021	21	16	2,1	630	700
024	24	18	2,4	820	702
036	36	27	3,6	1850	701
048	48	36	4,8	3290	700
060	60	45	6	5140	700
110	110	83	11	17280	700

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

Insulation Data	group A	group B		
Initial dielectric strength				
between open contacts	1000Vrms	1000Vrms		
between contact and coil	4000Vrms	2500Vrms		
between adjacent contacts	4000Vrms	2500Vrms		
between group A and group B	4000	Vrms		
Clearance/creepage				
between open contacts	microdisconnection			
between contact and coil	≥5.5/5.5mm	≥3/4mm		
between adjacent contacts	≥5.5/5.5mm	≥3/4mm		
between group A and group B	≥5.5/5.5mm			
Insulation to EN 50178, type of insulation				
between contact and coil	reinforced	basic		
between adjacent contacts	reinforced	basic		
between group A and group B	reinfo	rced		

Other Data	
Ambient temperature	-40 to 85°C
Category of environmental Protection	
IEC 61 810	RTII
Packaging/unit	20 pcs. tray
	100 pcs. box

For more detailed information see product specification 2158004

Datasheets and product data is subject to the

terms of the disclaimer and all chapters of

the 'Definitions' section, available at

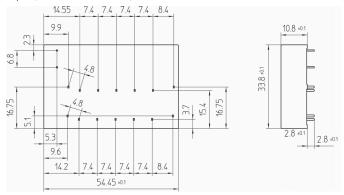
http://relays.te.com/definitions



Force Guided Relay SRL7 (Continued)

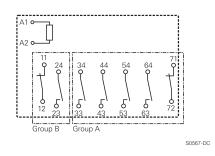
Dimensions

7 pole, 5 form A + 2 form B, 5NO + 2NC



PCB layout / terminal assignment

Bottom view



Product code structure Typical product code SRL 7 52 3 D 024 Type SRL Relay with force guided contacts SRL Version 7 pole **Contact arrangement 52** 5 form A + 2 form B contacts (5 NO + 2 NC) **Contact material** 3 Ag SnO Coil system **D** DC coil Coil Coil code: please refer to coil versions table (e.g. 012=12VDC)

For versions with different contact configuration or other number of poles please contact your nearest TE contact or partner.

	Product code	Туре	Cont. arrangement	Cont. material	Coil	Part Number
	SRL7-523-D012	7 pole relay	5 form A + 2 form B	AgSnO2	12VDC	2045880-4
	SRL7-523-D018	with force	contacts (5 NO + 2 NC)		18VDC	2045880-6
	SRL7-523-D021	guided			21VDC	2045880-7
[SRL7-523-D024	contacts			24VDC	2045880-8