

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



Approvals	
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 lo	oad 6/30min ⁻¹
Mechanical endurance	10x10 ⁶ operations

Contact 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

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

Coil vers	sions, DC-co	oil			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±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	4000Vrms	
Clearance/creepage		
between open contacts	microdisco	onnection
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 insu	lation	
between contact and coil	reinforced	basic
between adjacent contacts	reinforced	basic
between group A and group B	reinfo	rced

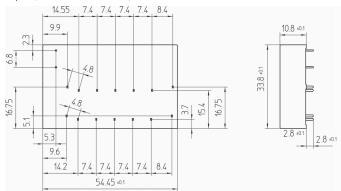
Other Data		
Ambient temperature	-40 to 85°C	
Category of environmental Protection		
IEC 61 810	RTII	
Packaging/unit	20 pcs. tray	
	100 pcs. box	



Force Guided Relay SRL7 (Continued)

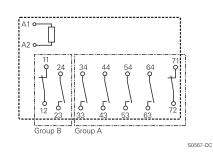
Dimensions

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.