

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



SRL7

Typical applications

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



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 load	6/300min ⁻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
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

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power 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	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	reinforced	

Other Data

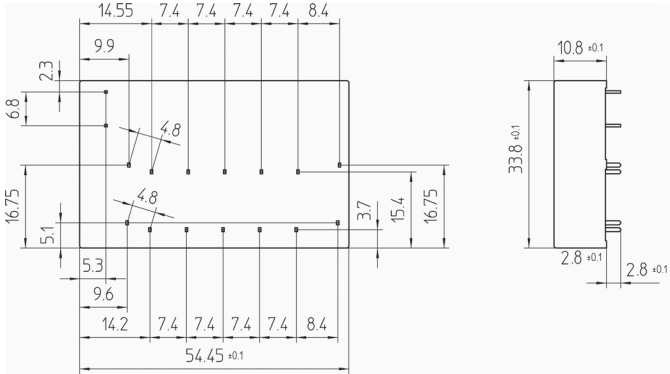
Ambient temperature	-40 to 85°C
Category of environmental Protection	
IEC 61 810	RTII
Packaging/unit	20 pcs. tray 100 pcs. box

For more detailed information see product specification 2158004

Force Guided Relay SRL7 (Continued)

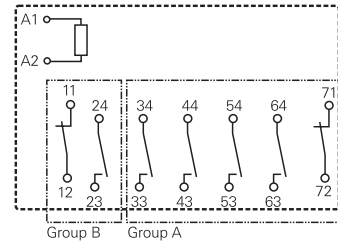
Dimensions

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



PCB layout / terminal assignment

Bottom view



S0567-DC

Product code structure

Typical product code **SRL 7 52 3 D 024**

Type SRL Relay with force guided contacts SRL	SRL	7	52	3	D	024
Version 7 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	Type	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