

Force Guided Relay SR2M

- 2 pole relay with force guided contacts according to EN61810-3 (formerly EN50205)
- Reinforced insulation between poles
- Version P1 for use in sockets

Typical applications

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









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_	ν	μ	·	AC	110

Contact Data

VDE 116064, UL E214025, TUV 968/EZ 111, CCC 2020970303000150

Technical data of approved types on request

Contact Data				
Contact arrangement	1 form A + 1 form B contacts			
	(1 NO + 1 NC) or			
	2 form C contacts (2 CO)			
According EN61810-3 only 1NO	INO / 1NC (11-14 and 22-21 or 12-11 and			
21-24) shall be used as force gui	ided contacts.			
Rated voltage	250VAC			
Max. switching voltage	400VAC			
Rated current	6A			
Contact material	AgNi			
Contact style	single contact, force guided			
1 form A + B, 1 NO + 1NC	type A according to EN61810-3			
2 form C, 2CO	type B according to EN61810-3			
Min. recommended contact load	5V/10mA			
Initial contact resistance	≤100mΩ at 1A, 24VDC			
	≤20Ω at 10mA, 5VDC			

Contact ratings

IEC61810-1

on 1 form A (NO) contact 6A, 250VAC, $\cos \varphi = 1,70C$ 100x10³

IEC60947-5-1

on 1 form A (NO) contact AC15 - 250V/3A DC13 - 24V/3A

5 10 20 DC current [A]

Frequency of operation, with/without load

on the basis of DC13 - 24V/6A under conditions specified in product spec. 2158001

10x10⁶ operations

6/300min⁻¹

UL508

Mechanical endurance

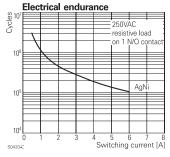
on 1 form A (NO) contact 6A, 250VAC, $\cos \varphi = 1.70^{\circ}C$ 100x10³

R300 and B300

form A (NO) + form B (NC) 1A/24VDC gen. purpose, 70°C

100x10³

Max. DC load breaking capacity 300 200 ive load 100



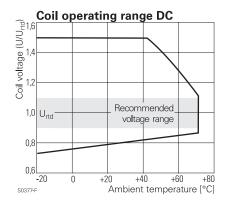
Coil Data	
oil voltage range	

5 to 110VDC

Coil vers	sions, DC-co	il			
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	35.7	700
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	321	701
018	18	13.5	1.8	483	671
021	21	16	2.1	630	700
024	24	18	2.4	823	700
036	36	27	3.6	1851	700
040	40	30	4.0	2286	700
048	48	36	4.8	3291 ¹⁾	700
060	60	45	6	5142 ¹⁾	700
080	80	60	8	9143 ¹⁾	700
110	110	83	11	17285 ¹⁾	700

1) Coil resistance ±12%

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





Force Guided Relay SR2M (Continued)

Insulation	
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	≥8/8mm
between adjacent contacts	≥5.5/5.5mm
Insulation to EN 50178, type of insulation	
between contact and coil	reinforced
between adjacent contacts	reinforced

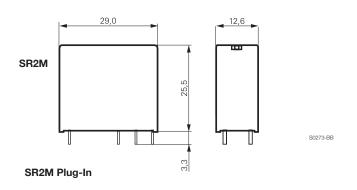
Other Data	SR2M	SR2M	Plug-in
Material compliance: EU RoHS/EL	_V, China RoH	S, REACH, Halog	en content
refer to the Product Compliance S			
www.te.com/customersupport	<u>/rohssupporto</u>	<u>enter</u>	
Ambient temperature		-40 to 70°C	
Category of environmental Protect	tion		
IEC 61 810	RTIII		RTII
Weight		20g	
Resistance to soldering heat THT			
IEC 60068-2-20	260°C/5s		-
Packaging/unit		tube/20 pcs.	

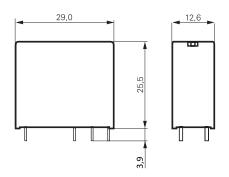
For more detailed information see product specification 2158001

Accessories

For details see datasheet Accessories Force Guided Relay SR2M plugin NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

Dimensions

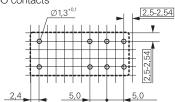




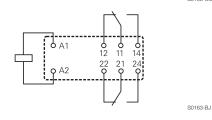
PCB layout / terminal assignment

Bottom view on solder pins

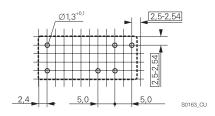
2 form C, 2 CO contacts

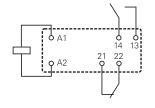


S0163-CO



1 form A + 1 form B contacts, 1 NO + 1 NC





S0163-C

3.9mm



Force Guided Relay SR2M (Continued)

Product code structure	Typical product code	V23047	-A1	012	-A	5	11
Type V23047 Relay with force guided contacts SR2M							
Version							
A1 standard P1 Plug-In							
Coil							
Coil code: please refer to coil versions table (e.g. 024=24VDC)							
Contact set							
A single contact							
Contact material						•	
5 AgNi							
Contact configuration							
01 2 form C contacts (2 CO)							
11 1 form A + 1 form B contacts (1 NO + 1 NC)							
Other types on request							

Product code	Version	Cont. material	Contact arrangement	Coil	Part number
V23047-A1005-A501	Standard	AgNi	2 form C (CO)	5VDC	1393258-2
V23047-A1005-A511	wash tight		1 A + 1 B, (1 NO + 1 NC)		7-1415006-1
V23047-A1006-A501			2 form C (CO)	6VDC	3-1415011-1
V23047-A1006-A511			1 A + 1 B, (1 NO + 1 NC)		6-1415011-1
V23047-A1009-A501			2 form C (CO)	9VDC	1393258-3
V23047-A1009-A511			1 A + 1 B, (1 NO + 1 NC)		7-1415011-1
V23047-A1012-A501			2 form C (CO)	12VDC	1393258-4
V23047-A1012-A511			1 A + 1 B, (1 NO + 1 NC)		1393258-5
V23047-A1018-A501			2 form C (CO)	18VDC	1393258-8
V23047-A1018-A511			1 A + 1 B, (1 NO + 1 NC)		1393258-9
V23047-A1021-A501			2 form C (CO)	21VDC	1-1393258-1
V23047-A1021-A511			1 A + 1 B, (1 NO + 1 NC)		1-1393258-2
V23047-A1024-A501			2 form C (CO)	24VDC	1-1393258-5
V23047-A1024-A511			1 A + 1 B, (1 NO + 1 NC)		1-1393258-7
V23047-A1036-A501			2 form C (CO)	36VDC	2-1393258-0
V23047-A1036-A511			1 A + 1 B, (1 NO + 1 NC)		8-1415011-1
V23047-A1040-A501			2 form C (CO)	40VDC	2-1393258-1
V23047-A1040-A511			1 A + 1 B, (1 NO + 1 NC)		2-1393258-2
V23047-A1048-A501			2 form C (CO)	48VDC	3-1415006-1
V23047-A1048-A511			1 A + 1 B, (1 NO + 1 NC)		9-1415011-1
V23047-A1060-A511			,	60VDC	2-1393258-3
V23047-A1110-A501			2 form C (CO)	110VDC	1-1415012-1
V23047-A1110-A511			1 A + 1 B, (1 NO + 1 NC)		2-1415012-1
V23047-P1005-A501	Plug-in		2 form C (CO)	5VDC	7-1415543-4
V23047-P1009-A501	for socket use			9VDC	7-1415543-5
V23047-P1012-A501				12VDC	7-1415543-6
V23047-P1021-A501				21VDC	7-1415543-7
V23047-P1024-A501				24VDC	7-1415543-8
V23047-P1036-A501				36VDC	7-1415543-9
V23047-P1110-A501				110VDC	8-1415543-0

Mouser Electronics

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<u>TE Connectivity</u>: 2-1393258-0