

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









Approvals	S
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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	/ 1NC (11-14 and 22-21 or 12-11 and		
21-24) shall be used as force gui	ded 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		
Frequency of operation, with/withou	ut load 6/300min ⁻¹		

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

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

UL 61810-1 (former UL 508)

on 1 form A (NO) contact form A (NO) + form B (NC)

Max. DC load breaking capacity

ve load

5 10 20 DC current [A]

6A, 250VAC, $\cos \varphi = 1.70^{\circ}C$ 100x10³

R300 and B300

1A/24VDC gen. purpose, 70°C

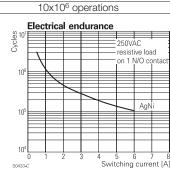
100x10³

Mechanical endurance

300

200

100



Coil Data

Coil voltage range

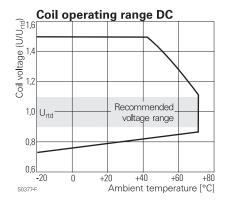
5 to 110VDC

Coil	versions,	DC-co	i
-	VCI SIONS,	DO-00	

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.



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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. 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

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.



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

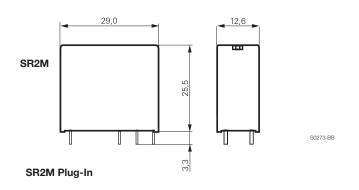
Other Data	SR2M	SR2M Plug-in
Material compliance: EU RoHS/EL	V, China RoHS, REA	ACH, Halogen content
refer to the Product Compliance S	Support Center at	
www.te.com/customersupport	<u>/rohssupportcenter</u>	
Ambient temperature	-40 to	70°C
Category of environmental Protect	tion	
IEC 61 810	RTIII	RTII
Weight	20)g
Resistance to soldering heat THT		
IEC 60068-2-20	260°C/5s	-
Packaging/unit	tube/2	20 pcs.

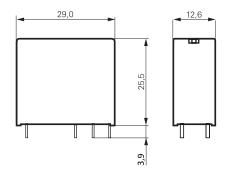
For more detailed information see product specification 2158001

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

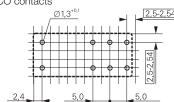




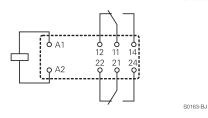
PCB layout / terminal assignment

Bottom view on solder pins

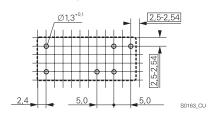
2 form C, 2 CO contacts

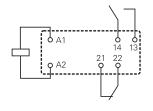


S0163-CO



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		I					
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