

## 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



F0188-D

### Typical applications

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



### Approvals

VDE 116064, UL E214025, TUV 968/EZ 111, CCC 2014010305743065

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 EN50205 only 1NO / 1NC (11-14 and 22-21 or 12-11 and 21-24) shall be used as force guided 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/without load	6/300min <sup>-1</sup>

### Contact ratings

#### IEC61810-1

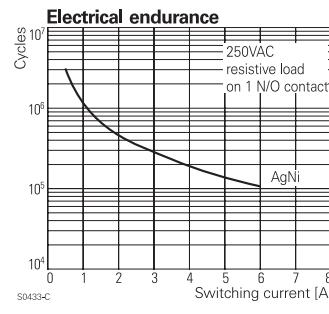
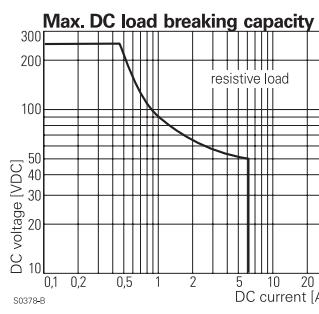
on 1 form A (NO) contact	6A, 250VAC, cosφ =1,70°C 100x10 <sup>3</sup>
on 1 form A (NO) contact	AC15 - 250V/3A DC13 - 24V/3A on the basis of DC13 - 24V/6A under conditions specified in product spec. 2158001

#### 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
on 1 form A (NO) contact	6A, 250VAC, cosφ =1,70°C 100x10 <sup>3</sup>

#### UL508

on 1 form A (NO) contact	6A, 250VAC, cosφ =1,70°C 100x10 <sup>3</sup>
form A (NO) + form B (NC)	R300 and B300 1A/24VDC gen. purpose, 70°C 100x10 <sup>3</sup>
Mechanical endurance	10x10 <sup>6</sup> operations



**Force Guided Relay SR2M (Continued)**
**Insulation**

Initial dielectric strength	
between open contacts	1500V <sub>rms</sub>
between contact and coil	4000V <sub>rms</sub>
between adjacent contacts	3000V <sub>rms</sub>
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

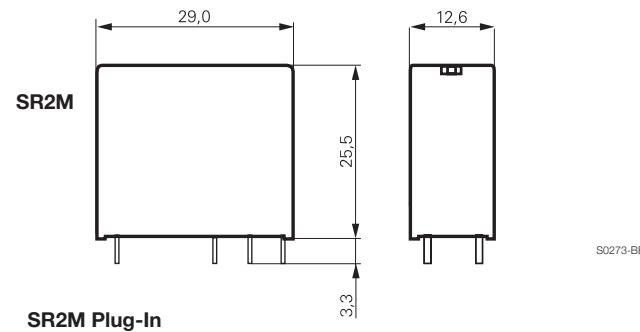
**Other Data**

SR2M	SR2M Plug-in
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="http://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a>	
Ambient temperature	-40 to 70°C
Category of environmental Protection	
IEC 61 810	RTIII
Weight	20g
Resistance to soldering heat THT	
IEC 60068-2-20	260°C/5s
Packaging/unit	tube/20 pcs.

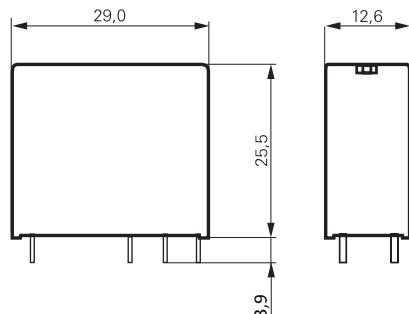
For more detailed information see product specification 2158001

**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.

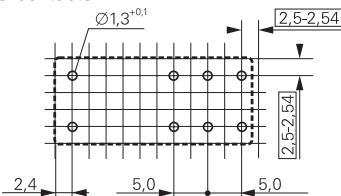
**Dimensions**


3.9mm

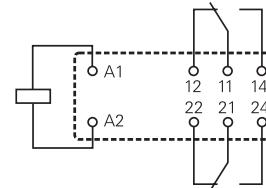

**PCB layout / terminal assignment**

Bottom view on solder pins

2 form C, 2 CO contacts

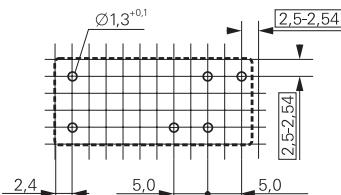


S0163-CO

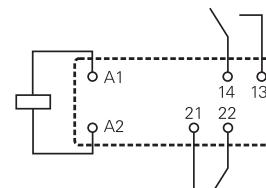


S0163-BJ

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



S0163-CU



S0163-CV

## Force Guided Relay SR2M (Continued)

## Product code structure

Type	V23047 Relay with force guided contacts SR2M	Typical product code	V23047	-A1	012	-A	5	11
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			2 form C (CO)	60VDC	2-1393258-3
V23047-A1110-A501			1 A + 1 B, (1 NO + 1 NC)	110VDC	1-1415012-1
V23047-A1110-A511			2 form C (CO)		2-1415012-1
V23047-P1005-A501	Plug-in for socket use		1 A + 1 B, (1 NO + 1 NC)		
V23047-P1009-A501			2 form C (CO)	5VDC	7-1415543-4
V23047-P1012-A501				9VDC	7-1415543-5
V23047-P1021-A501				12VDC	7-1415543-6
V23047-P1024-A501				21VDC	7-1415543-7
V23047-P1036-A501				24VDC	7-1415543-8
V23047-P1110-A501				36VDC	7-1415543-9
				110VDC	8-1415543-0

# Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[3-1415011-1](#)