

Force Guided Relay SR2M

- 2 pole relay with force guided contacts according to EN 50205
- 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



F0188-D





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.

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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 EN 502					
2 form C, 2CO	type B 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

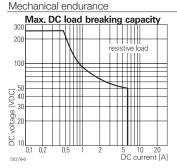
Contact ratings, IEC60947-5-1,

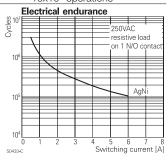
on 1 form A (NO) contact

AC15 - 250V/3A DC13 - 24V/3A

on the basis of DC13 - 24V/6A under conditions specified in

product spec. 2158001 10x10⁶ operations





Coil Data

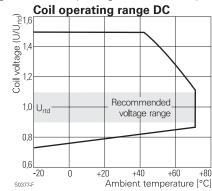
Coil voltage range 5 to 110VDC

Coil Data (continued)

Coil vers	sions, DC-co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	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.



1500V _{rms}
4000V _{rms}
3000V _{rms}
·
microdisconnection
≥8/8mm
≥5.5/5.5mm
reinforced
reinforced



Force Guided Relay SR2M (Continued)

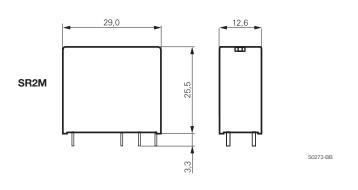
Other Data	SR2M	SR2M Plug-in
Material compliance: EU RoHS/EL	V, China RoHS, RE	ACH, Halogen content
refer to the Product Compliance S	upport Center at	
www.te.com/customersupport/	rohssupportcenter	
Ambient temperature	-40 t	o 70°C
Category of environmental Protect	ion	
IEC 61 810	RTIII	RTII
Weight	20	Og
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

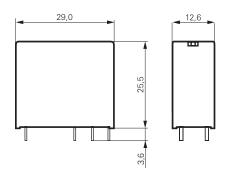
Accessories

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



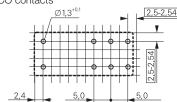
SR2M Plug-In



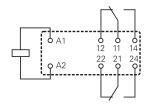
PCB layout / terminal assignment

Bottom view on solder pins

2 form C, 2 CO contacts

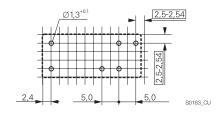


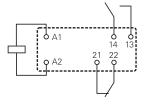
S0163-CO



S0163-BJ

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







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

http://relays.te.com/definitions

Mouser Electronics

Authorized Distributor

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TE Connectivity: V23047-A1009-A501