

Force Guided Relay SR2M

- 2 pole relay with force guided contacts according to EN 50205
- **■** Reinforced insulation between poles
- **■** Version for use in sockets

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

21 24) shall be used as force galaca 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 EN 50205			
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

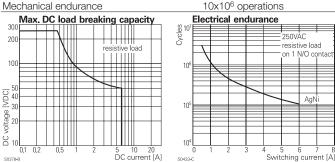
Contact ratings, IEC60947-5-1,

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

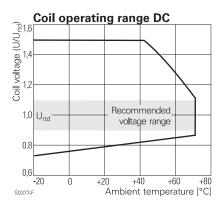
Coil vers	sions, DC-co	oil			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW
005	5	3.8	0.5	35.7	700

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
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	172851)	700

1) Coil resistance ±12%

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



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



Force Guided Relay SR2M (Continued)

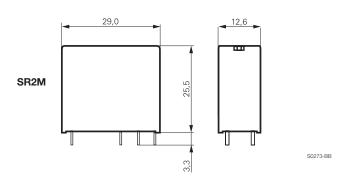
Other Data	SR2M	SR2M	Plug-in			
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content						
refer to the Product Compliance Support Center at						
www.te.com/customersupport/rohssupportcenter						
Ambient temperature		-25 to 70°C				
Category of environmental Protec	tion					
IEC 61 810	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

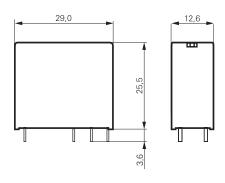
Accessories

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



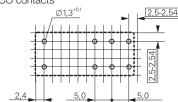
SR2M Plug-In



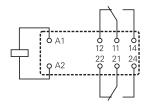
PCB layout / terminal assignment

Bottom view on solder pins

2 form C, 2 CO contacts

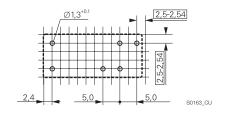


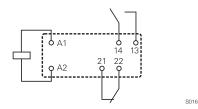
S0163-CO



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							

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