

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



F0188-D



Approvals

VDE 116064, UL E214025, TUV 968/EZ 111, CQC0617015579

Technical data of approved types on request

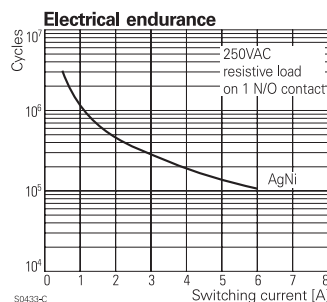
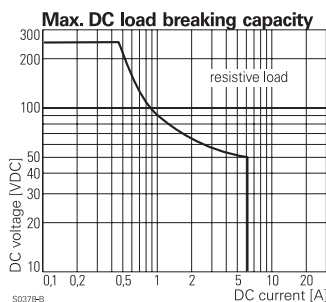
Contact Data

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 EN 50205
2 form C, 2CO type B according to EN 50205
Min. recommended contact load 5V/10mA
Initial contact resistance $\leq 100\text{m}\Omega$ at 1A, 24VDC
 $\leq 20\Omega$ at 10mA, 5VDC

Frequency of operation, with/without load 6/300min⁻¹
Contact ratings, IEC60947-5-1,
on 1 form A (NO) contact AC15-3A
DC13-6A

Mechanical endurance 10x10⁶ operations



Coil Data

Coil voltage range 5 to 110VDC

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$ ¹⁾	Rated coil power 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

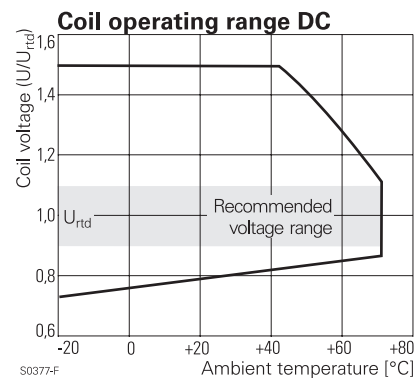
Coil Data (continued)

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$ ¹⁾	Rated coil power mW
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	85	63.8	8.5	9143 ¹⁾	700
110	110	83	11	17285 ¹⁾	700

¹⁾ Coil resistance $\pm 12\%$.

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 $\geq 8/8\text{mm}$
between adjacent contacts $\geq 5.5/5.5\text{mm}$

Insulation to EN 50178, type of insulation
between contact and coil reinforced
between adjacent contacts reinforced

Force Guided Relay SR2M (Continued)

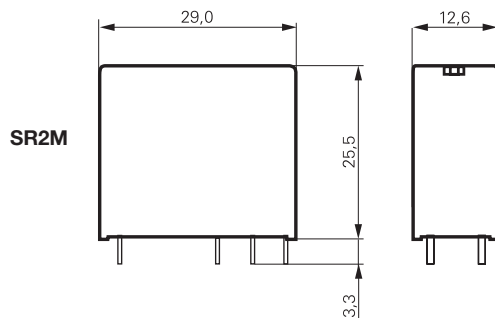
Other Data	SR2M	SR2M Plug-in
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter		
Ambient temperature	-25 to 70°C	
Category of environmental Protection	IEC 61 810	RTIII
Weight	20g	RTII
Resistance 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

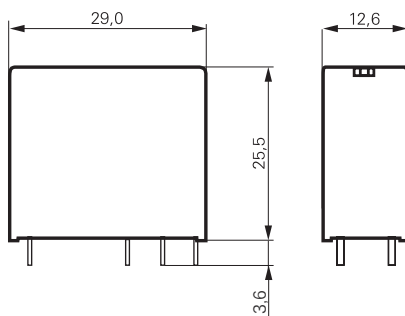
For details see datasheet Accessories Force Guided Relay SR2M plugin
NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

Dimensions



S0273-BB

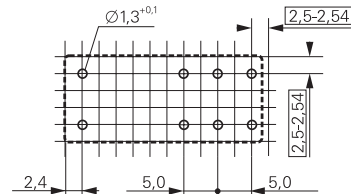
SR2M Plug-In



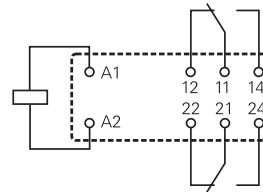
PCB layout / terminal assignment

Bottom view on solder pins

2 form C, 2 CO contacts

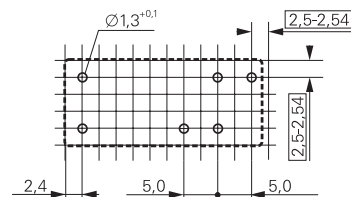


S0163-CO

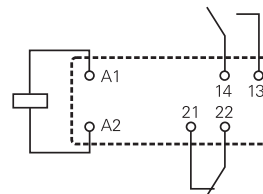


S0163-BJ

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



S0163-CU



S0163-CV

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