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

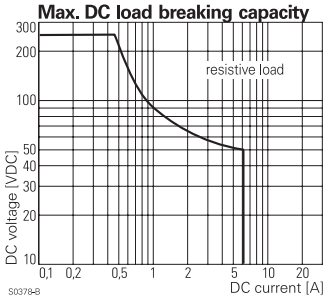
Contact Data

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^{-1}

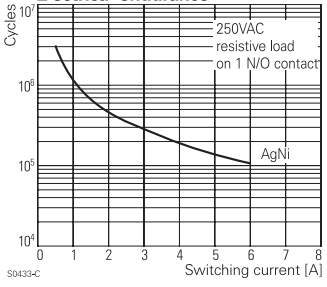
Contact ratings

IEC61810-1	
on 1 form A (NO) contact	6A, 250VAC, cosφ =1,70C 100x10^3
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
UL508	
on 1 form A (NO) contact	6A, 250VAC, cosφ =1,70°C 100x10^3 R300 and B300
form A (NO) + form B (NC)	1A/24VDC gen. purpose, 70°C 100x10^3
Mechanical endurance	10x10^6 operations

Max. DC load breaking capacity



Electrical endurance



Coil Data

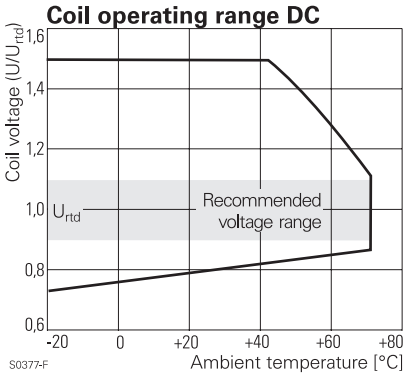
Coil voltage range	5 to 110VDC

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	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
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.

Coil operating range DC



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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/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter		
Ambient temperature	-40 to 70°C	
Category of environmental Protection		
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

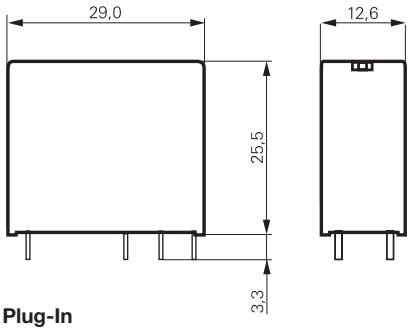
Accessories

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.

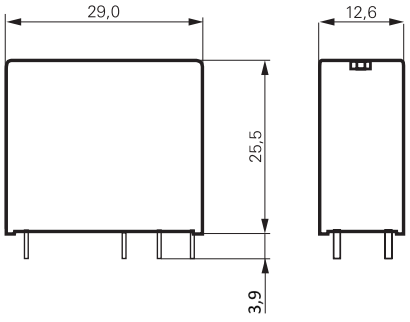
Dimensions

SR2M



S0273-BB

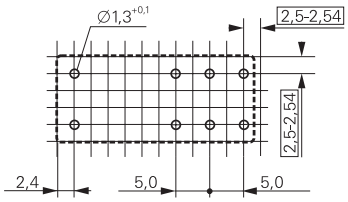
SR2M Plug-In



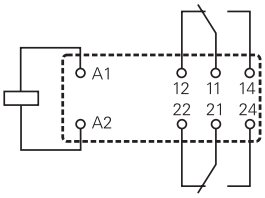
PCB layout / terminal assignment

Bottom view on solder pins

2 form C, 2 CO contacts

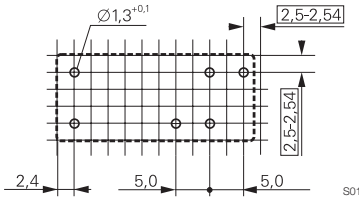


S0163-CO

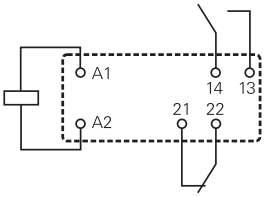


S0163-BJ

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



S0163_CU



S0163-CV

3.9mm

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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

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