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1415012-1 Product Details		🗄 Share  🗎 Print 🖾 Ema
I-1415012-1         (V23047A1110A501)         E Internal Number: 1- 1415012-1         ✓ Active    Force Guided Contact Relays Converted to EU RoHS/ELV (Statement of Compliance) Product Highlights:          • SR2M Series         • Contact - Rated Current = 6         • Contact - Arrangement = 2         • Contact - Limiting Continuo         • Active	V Compliant 5 A Form C (CO)	<ul> <li>Quick Links</li> <li>Pricing &amp; Availability</li> <li>Search for Tooling</li> <li>Product Feature Selector</li> <li>Contact Us About This Product</li> </ul>
Add to My Part List Buy Product	<u>Request Sample</u>	Find Similar Products
cumentation & Additional Information		
• None Available		Additional Information: • Product Line Information
<ul> <li>talog Pages/Data Sheets:</li> <li>Safety Relay SR2M (PDF, English)</li> <li>oduct Specifications:</li> <li>None Available</li> </ul>		Additional Product Images: <ul> <li>Schematic</li> <li>Wiring Diagram</li> <li>PCB Holes</li> </ul> Related Products:
<ul> <li>Plication Specifications:</li> <li>None Available</li> <li>struction Sheets:</li> <li>None Available</li> </ul>		Tooling
<ul> <li>None Available</li> <li><b>D Files:</b></li> <li>None Available</li> </ul>		
Li	st all Documents	
oduct Features (Please use the Product Drawing for	all design activi	ty)
<ul> <li>ectrical Characteristics:</li> <li>Contact - Rated Current (A) = 6</li> <li>Contact - Limiting Continuous Current (A) = 6</li> <li>Contact - Limiting Making Current (A) = 6</li> <li>Contact - Limiting Breaking Current (A) = 6</li> <li>Insulation - Initial Dielectric Between Open Contacts (V rms) = 1500</li> <li>Insulation - Initial Dielectric Between Contacts and Coil (V rms) = 4000</li> <li>Contact - Switching Voltage Max. (VAC) = 400</li> <li>Contact - Limiting Short-Time Current (A) = 6</li> <li>Coil - Rated Voltage (VDC) = 110</li> <li>Coil - Rated Power, DC (mW) = 700</li> <li>Coil - Rated Power Class = 600mW to 800mW Class</li> <li>Insulation - Initial Dielectric Between Adjacent Contacts (V rms) = 3000</li> <li>Insulation - Creepage Class = 5.5mm to 8mm Class</li> </ul>	<ul> <li>Contact Ma</li> <li>Contact - I</li> <li>Contact - S</li> <li>Configuration F</li> <li>Contact - A</li> <li>Coil - Magi</li> <li>Industry Standa</li> <li>RoHS/ELV compliant</li> <li>Lead Free to 260°C,</li> <li>RoHS/ELV comply with</li> </ul>	ype = PCB-THT aterial = AgNi Number of Poles = 2 Special Features = Force Guided Contacts <b>Features:</b> Arrangement = 2 Form C (CO) netic System = Monostable, DC <b>ards:</b> Compliance = RoHS compliant, ELV Solder Processes = Wave solder capable Wave solder capable to 240°C Compliance History = Converted to th RoHS directive Registered Standards = cULus, CQC,

#### **Dimensions:**

- Length (mm [in]) = 29.00 [1.142]
- Width (mm [in]) = 12.60 [0.496]
- Height (mm [in]) = 25.50 [1.004]
- Insulation Clearance Between Contact and Coil (mm [in]) = 8 [0.315]
- Insulation Creepage Between Contact and Coil (mm [in]) = 8 [0.315]

### Body Features:

- Mount Type = PCB
- Weight (g [oz]) = 20.00 [0.706]

#### **Environmental:**

- Environmental Category of Protection = RTIII
- Environmental Ambient Temperature, Max. (°C
  - [°F]) = 70 [158]
- Environmental Ambient Temperature Class = 50°C to 70°C Class

#### **Packaging Features:**

Packaging Method = Tube

### Other:

- Series = SR2M
- Brand = Schrack

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## **Force Guided Relay SR2M**

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

Reinforced insulation between poles

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



Release

voltage

VDC

1.5

1.8

2.1

2.4

3.6

4.0

4.8

8.5

Recommended

+40

+60

Ambient temperature [°C]

+80

voltage range

6

11

Coil

resistance

 $\Omega \pm 10\%^{1)}$ 

321

483

630

823

1851

2286

3291<sup>1)</sup>

5142<sup>1)</sup>

91431)

172851)

Rated coil

power

mW

701

671

700

700

700

700

700

700

790

700

# Coil Data (contunied) Coil versions, DC-coil

Coil

015

018

021

024

036

040

048

060

080

110

code

Rated

voltage

VDC

15

18

21

24

36

40

48

60

85

110

Coil voltage (U/U<sub>rtd</sub>) ,1 ,31

1,0 U<sub>rtd</sub>

0,8

0,6

1) Coil resistance ±12%

Operate

voltage

VDC

11.3

13.5

16

18

27

30

36

45

83

63.8

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

Coil operating range DC

+20

## Approvals

VDE 116064, UL E214025, TUV 968/EZ 111, CQC0617015579 Technical data of approved types on request

## Contact Data

Contac						
Contact arrangement			1 form A + 1 form B contacts			
			(1 NO + 1 NC) or			
			2 form C contacts (2 CO)			
				nd 22-21 or 12	2-11 and	
	shall be used	as force guid	led contacts.			
Rated vo	0			250VAC		
	tching voltage		400VAC			
Rated cu			6A			
Contact r			AgNi			
Contact s			single contact, force guided			
	A + B, 1 NO	+ 1NC	type A according to EN 50205			
	C, 2CO		type B according to EN 50205			
	mmended co			5V/10mA		
Initial con	tact resistanc	Э		nΩ at 1A, 24V[		
				at 10mA, 5VD	)C	
	y of operation		load	6/300min <sup>-1</sup>		
	atings, IEC60					
on 1 fc	orm A (NO) co	ntact	AC15-3A			
			DC13-6A			
Mechanic	cal endurance		10x10 <sup>6</sup> operations			
300 200 100 500 200 100 500 200 100 200 200 200 200 200 200 200 2	0,5 1 2	esistive load	8 10 <sup>7</sup> 10 <sup>8</sup> 10 <sup>6</sup> 10 <sup>6</sup> 10 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup>		250VAC resistive load on 1 N/O contact AgNi AgNi 6 7 8 ching current [A]	
Coil Da	ta					
Coil voltage range 5 to 110VDC						
	32.00.90		0			
	sions, DC-co					
Coil	Rated	Operate	Release	Coil	Rated coil	
code	voltage	voltage	voltage	resistance	power	

	-20 (
	S0377-F
4 5 6 7 8	
Switching current [A]	Insulation
	Initial dielectric strength
	between open contacts
	between contact and coil
NDC	between adjacent contac

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	

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at <a href="http://relays.te.com/definitions">http://relays.te.com/definitions</a>

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1

04-2011, Rev. 0411	
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VDČ

5

6

9

12

005

006

009

012

VDČ

3.8

4.5

6.8

9

VDČ

0.5

0.6

0.9

1.2

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

 $\Omega \pm 10\%^{1)}$ 

35.7

51

116

206

mW

700

706

698

699



S0273-BB

# Force Guided Relay SR2M (Continued)

## Other Data

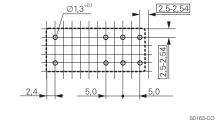
Material compliance: EU	mpliance: EU RoHS/ELV, China RoHS, REACH, Halogen content			
	refer to the Product Compliance Support Center at			
	www.te.com/customersupport/rohssupportcenter			
Ambient temperature	-25 to 70°C			
Category of environment	al Protection			
IEC 61 810	RTIII			
Weight	20g			
Resistance to soldering h	neat THT			
IEC 60068-2-20	260°C/5s			
Packaging/unit	tube/20 pcs.			

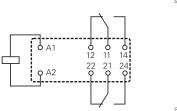
For more detailed information see product specification 2158001

### PCB layout / terminal assignment

Bottom view on solder pins

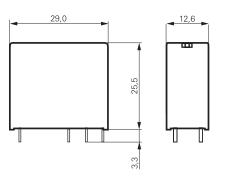
2 form C, 2 CO contacts



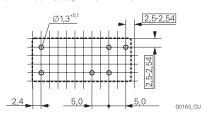


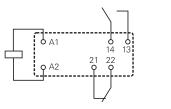
S0163-BJ

### Dimensions



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





S0163-CV

2



# 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       -A       5       11
V23047 Relay with force guided contacts SR2M
V23047 Relay with force guided contacts SR2M
Version
Version
A1 standard
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

3