

V23050A1110A542 Product Details



V23050A1110A542

(V23050-A1110-A542) TE Internal Number: 1-1393260-3



Force Guided Contact Relays

Converted to EU RoHS/ELV Compliant

(Statement of Compliance)

Product Highlights:

- SR6 A/B/C/V Series

- Contact Arrangement = 4 Form A (NO) + 2

 Contact Arrangement = 4 Form A (NO) + 2 Form B (NC)
- Contact Limiting Continuous Current = 8 A

Documentation & Additional Information

Product Drawings:

Catalog Pages/Data Sheets:

Safety Relay SR6 (PDF, English)

Product Specifications:

None Available

Application Specifications:

None Available

Instruction Sheets:

None Available

CAD Files: (CAD Format & Compression Information)

- 2D Drawing (DXF, Version SHK1)
- 3D Model (IGES, Version SHK1)
- 3D Model (STEP, Version SHK1)

Additional Information:

Additional Product Images:

- Schematic
- PCB Lavout
- · Wiring Diagram

Related Products:

Tooling

Product Features (Please use the Product Drawing for all design activity)

Product Type Features

- Series = SR6 A/B/C/V
- Terminal Type = PCB-THT

Electrical Characteristics:

- Contact Rated Current (A) = 8
- Contact Limiting Continuous Current (A) = 8
- Contact Limiting Making Current (A) = 8
- Contact Limiting Breaking Current (A) = 8
- Insulation Initial Dielectric Between Open Contacts (V rms) = 1500
- Insulation Initial Dielectric Between Contacts and Coil (V rms)
- Contact Switching Voltage Max. (VAC) = 400
- Contact Limiting Short-Time Current (A) = 8
- Coil Rated Voltage (VDC) = 110
- Coil Resistance (Ω) = 10080
- Coil Rated Power, DC (mW) = 1200
- Coil Rated Power Class = 1W to 1.5W Class
- Insulation Initial Dielectric Between Adjacent Contacts (V rms) = 3000
- Insulation Clearance Class = 5mm to 8mm Class
- Insulation Creepage Class = 3mm to 5.5mm Class

Dimensions:

- Length (mm [in]) = 55.00 [2.167]
- Width (mm [in]) = 16.51 [0.650]
- Height (mm [in]) = 16.50 [0.650]
- Insulation Clearance Between Contact and Coil (mm [in]) =
- Insulation Creepage Between Contact and Coil (mm [in]) = 5.5 [0.217]

- Mount Type = PCB
- Weight (g [oz]) = 30.00 [1.058]

Contact Features:

- Contact Material = AgSnO
- Contact Number of Poles = 6
- Contact Special Features = Force Guided Contacts

Configuration Features:

- Contact Arrangement = 4 Form A (NO) + 2 Form B (NC)
- Coil Magnetic System = Monostable, DC

Industry Standards:

- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C
- RoHS/ELV Compliance History = Converted to comply with RoHS directive
- Approved/Registered Standards = CQC, TUEV, VDE, cULus

Environmental:

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

Packaging Features:

Packaging Method = Tube

Other:

• Brand = Schrack

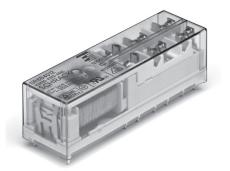


Force Guided Relay SR6 A/B/C/V

- 6 pole relay with force guided contacts according to EN 50205
- Reinforced insulation between all contacts

Typical applications

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



F0206-EA







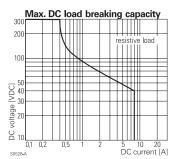


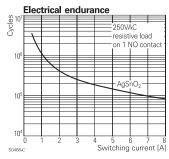
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VDE 128935, UL E214025, TUV 968/EL 350, CQC06017015576/77, CCC 2012010304537809

Technical data of approved types on request

Contact Data	
Contact arrangement	3 form A + 3 form B contacts
	3 NO + 3 NC,
	4 form A + 2 form B contacts
	4 NO + 2 NC,
	5 form A + 1 form B contacts
	5 NO + 1 NC
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A
Contact material	$AgSnO_{2,}$
	$AgSnO_2 + 0.2\mu m Au$
Contact style	single contact, force guided
	type A 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	oad 6/150min ⁻¹
Contact ratings, IEC60947-5-1,	
on 2 form A (NO) contact	AC15-5A
	DC13-6A
Mechanical endurance	10x10 ⁶ operations



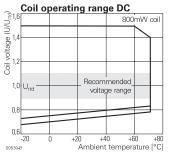


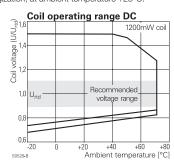
Coil Data	
Coil voltage range	5 to 110VDC
Max. coil power	1200mW or 800mW

Coil versions, DC-coil 800mW

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
K12	12	9	0.9	180	800
K15	15	11.3	1.5	281	801
K18	18	13.5	1.8	405	800
K21	21	16	2.1	551	800
K24	24	18	2.4	720	800
K36	36	27	3.6	1620	800

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





Coil versions, DC-coil 1200mW

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	21	1190
006	6	4.5	0.6	30	1200
009	9	6.8	0.9	68	1191
012	12	9	1.2	120	1200
018	18	13.5	1.8	270	1200
021	21	16	2.1	368	1198
024	24	18	2.4	480	1200
036	36	27	3.6	1080	1200
040	40	30	4.0	1333	1200
048	48	36	4.8	1920	1200
060	60	45	6	30001)	1200
110	110	83	11	10080 ¹⁾	1200
1) 0 !! !	1.00/				

¹⁾ Coil resistance ±12%.

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



Force Guided Relay SR6 A/B/C/V (Continued)

Other Date

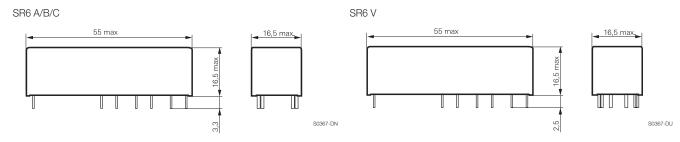
Insulation Data	
Initial dielectric strength	
between open contacts	1500V _{rms}
between contact and coil	4000V _{rms}
between adjacent contacts	3000V _{rms}
Clearance/creepage	
between open contacts	microdisconnection
between contact and coil	≥5.5/5.5mm
between adjacent contacts	≥5.5/5.5mm
Insulation to EN 50178, type of insulation	
between contact and coil	reinforced
between adjacent contacts	reinforced

Other Data					
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conter					
refer to the Product Compliance Support Center					
www.te.co	om/customersupport/rohssupportcenter				
Ambient temperature	-25 to 70°C				
Category of environmental Protectio	n				
IEC 61 810	RTIII				
Weight	30g				
Resistance to soldering heat THT					
IEC 60068-2-20	260°C/5s				
Packaging/unit	tube/10 pcs.				

For more detailed information see product specification 2158003

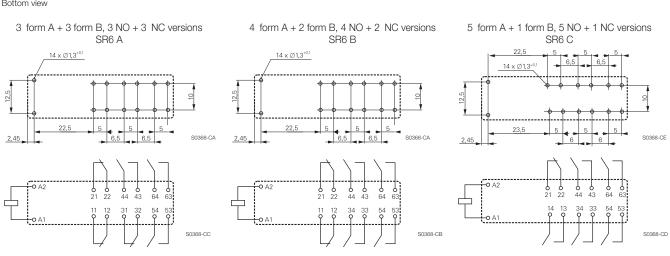
Accessories				
27E1079	SR6A and SR6B socket (1423991-1)			
27E1081	SR6C socket (1423992-1)			
24A243	Relay hold down clip (1423994-1)			
For details see datasheet 1654787				

Dimensions



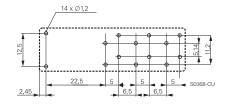
PCB layout / terminal assignment

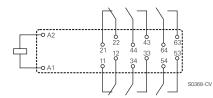
Bottom view



4 form A + 2 form B, 4 NO + 2 NC versions SR6 V

The design of the SR6 V allows clearance/creepage of 5.5 mm on the PCB.







Force Guided Relay SR6 A/B/C/V (Continued)

Product	code structure Typical	Typical product code SR6				012
Гуре						
SR	6 Relay with force guided contacts SR6					
Contact a	rrangement					
Α	3 form A + 3 form B contacts (3 NO + 3 NC)					
В	4 form A + 2 form B contacts (4 NO + 2 NC)					
V	4 form A + 2 form B contacts (4 NO + 2 NC)					
С	5 form A + 1 form B contacts (5 NO + 1 NC)					
Contact n	naterial				'	
4	AgSnO ₂ for 1200mW version					
6	AgSnO ₂ + 0.2µm Au for 800mW version					
Coil	<u> </u>					•
Co	l code: please refer to coil versions table (e.g. 024=24VDC)					
	es please see Part number table					

Product code Type Arrangement Cont. material Coil Coil power Alt. description Part number

SR6A4005 6 pole 3 form A + 3 form B. AqSnO₂ 5VDC 1200mW V23050-A1005-A533 8-1415017-1

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SR6A4005	6 pole	3 forrm A + 3 form B,	AgSnO ₂	5VDC	1200mW	V23050-A1005-A533	8-1415017-1
SR6A4012	relay with	3 NO + 3 NC		12VDC		V23050-A1012-A533	1-1415015-1
SR6A4021	force guided	contactts		21VDC		V23050-A1021-A533	3-1415018-1
SR6A4024	contacts			24VDC		V23050-A1024-A533	1415015-1
SR6A4048				48VDC		V23050-A1048-A533	6-1415018-1
SR6A4060				60VDC		V23050-A1060-A533	7-1415018-1
SR6A4110				110VDC		V23050-A1110-A533	9-1415018-1
SR6A6K12			AgSnO ₂ +Au	12VDC	800mW		6-1415537-1
SR6A6K18				18VDC			6-1415537-3
SR6A6K24				24VDC			6-1415537-5
SR6B4005		4 form A + 2 form B,	AgSnO ₂	5VDC	1200mW	V23050-A1005-A542	1393260-1
SR6B4006		4 NO + 2 NC		6VDC		V23050-A1006-A542	1393260-2
SR6B4012		contacts		12VDC		V23050-A1012-A542	1393260-4
SR6B4018				18VDC		V23050-A1018-A542	1393260-5
SR6B4021				21VDC		V23050-A1021-A542	1393260-6
SR6B4024				24VDC		V23050-A1024-A542	1393260-7
SR6B4040				40VDC		V23050-A1040-A542	1393260-9
SR6B4048				48VDC		V23050-A1048-A542	1-1393260-0
SR6B4060				60VDC		V23050-A1060-A542	1-1393260-1
SR6B4085				85VDC		V23050-A1085-A542	1-1393260-2
SR6B4110				110VDC		V23050-A1110-A542	1-1393260-3
SR6B6K12			AgSnO ₂ +Au	12VDC	800mW		7-1415537-6
SR6B6K15				15VDC			7-1415537-7
SR6B6K18				18VDC			7-1415537-8
SR6B6K21				21VDC			7-1415537-9
SR6B6K24				24VDC			8-1415537-0
SR6C4012		5 form A + 1 form B,	AgSnO ₂	12VDC	1200mW	V23050-A1012-A551	1-1415017-1
SR6C4024		5 No + 1 NC		24VDC		V23050-A1024-A551	1415017-1
SR6C4048		contacts		48VDC		V23050-A1048-A551	2-1415019-1
SR6C4060				60VDC		V23050-A1060-A551	3-1415019-1
SR6C4110				110VDC		V23050-A1110-A551	5-1415019-1
SR6C6K24			AgSnO ₂ +Au	24VDC	800mW		9-1415537-4
SR6V6K12		4 form A + 2 form B,		12VDC			3-1415542-5
SR6V6K15		4 NO + 2 NC		15VDC			2-1415543-2
SR6V6K18		contacts		18VDC			3-1415543-3
SR6V6K21				21VDC			4-1415542-4
SR6V6K24				24VDC			5-1415539-2