

## Force Guided Relay SR4 D/M

- 4 pole relay with force guided contacts according to EN 50205
- Compact design & space efficient

Typical applications

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



E0244-C









### **Approvals**

VDE 40005334, cULus E214024, TUV 968/EL 230, CQC 0617015578

Technical data of approved types on request

Contact Data	
Contact Data	0.6
Contact arrangement	3 form A + 1 form B contacts
	3 NO + 1 NC
	2 form A + 2 form B contacts
	2 NO + 2 NC
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A
Contact material	AgSnO <sub>2</sub>
Contact style	single contact, force guided
	type A according to EN 50205
1 1 1 1 1	E) /// 0 A

Min. recommended contact load Initial contact resistance

5V/10mA ≤100mΩ at 1A, 24VDC

Frequency of operation, with/without load

≤20Ω at 10mA, 5VDC 6/150min-

Contact ratings, IEC60947-5-1,

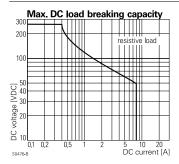
AC15-3A

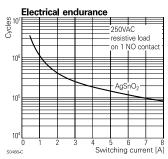
on 1 form A (NO) contact

DC13-3A

Mechanical endurance

10x10<sup>6</sup> operations





#### Coil data

5 to 110VDC Coil voltage range

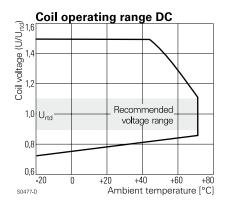
Coil vers	sions, DC-co	oil			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
005	5	3.8	0.5	31	806
006	6	4.5	0.6	45	800
009	9	6.8	0.9	101	802
012	12	9.0	1.2	180	800
015	15	11.3	1.5	281	801
018	18	13.5	1.8	405	800

### Coil Data (continued)

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Con vers	sions, DC-co	111			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
021	21	16.0	2.1	551	800
024	24	18.0	2.4	720	800
036	36	27.0	3.6	1620	800
040	40	30.0	4.0	2000	800
048	48	36.0	4.8	2880	800
060	60	45.0	6.0	4500	800
085	85	63.8	8.5	9031	800
110	110	83.0	11.0	15125	800

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



### **Insulation Data**

Initial dielectric strength

1500Vrms between open contacts between contact and coil 4000Vrms 2500Vrms between adjacent contacts

Clearance/creepage

microdisconnection between open contacts between contact and coil ≥10/10mm between adjacent contacts ≥3/3.5mm

Insulation to EN 50178, type of insulation

between contact and coil reinforced between adjacent contacts basic



### Force Guided Relay SR4 D/M (Continued)

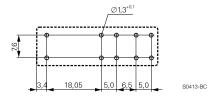
### Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.tycoelectronics.com/customersupport/rohssupportcenter

Ambient temperature -25 to 70°C
Category of environmental Protection
IEC 61 810
Weight 30g
Resistance to soldering heat THT
IEC 60068-2-20
Packaging/unit
25 to 70°C
RTIII
BTIII
BTI

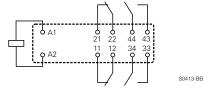
#### PCB layout / terminal assignment

Bottom view on solder pins

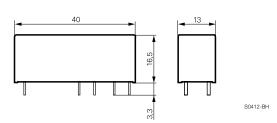


For more detailed information see product specification 2158002

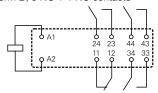
#### 2 form A + 2 form B, 2 NO + 2 NC contacts



**Dimensions** 



3 form A + 1 form B, 3 NO + 1 NC contacts



S0413-BA

Type
SR4 Relay with force guided contacts SR4

Contact arrangement
D 2 form A + 2 form B contacts (2 NO + 2 NC)
M 3 form A + 1 form B contacts (3 NO + 1 NC)

Contact material
4 AgSnO<sub>2</sub>

Coil

Coil code: please refer to coil versions table (e.g. 012=12VDC) Other types on request

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# Force Guided Relay SR4 D/M (Continued)

Product code	Туре	Contact arrangement	Contact material	Coil	Part number
SR4D4005	4 pole	2 form A + 2 form B,	AgSnO <sub>2</sub>	5VDC	7-1415054-1
SR4D4006	relay with	2 NO + 2 NC		6VDC	8-1415054-1
SR4D4009	force guided contacts	contacts		9VDC	9-1415054-1
SR4D4012				12VDC	1415055-1
SR4D4018				18VDC	1-1415055-1
SR4D4021				21VDC	2-1415055-1
SR4D4024				24VDC	3-1415055-1
SR4D4036				36VDC	4-1415055-1
SR4D4040				40VDC	5-1415055-1
SR4D4048				48VDC	6-1415055-1
SR4D4060				60VDC	7-1415055-1
SR4D4085				85VDC	8-1415055-1
SR4D4110				110VDC	9-1415055-1
SR4M4005		3 form A + 3 form B,		5VDC	5-1415053-1
SR4M4006		3 NO + 1 NC		6VDC	6-1415053-1
SR4M4009		contacts		9VDC	7-1415053-1
SR4M4012				12VDC	8-1415053-1
SR4M4018				18VDC	9-1415053-1
SR4M4021				21VDC	1415054-1
SR4M4024				24VDC	4-1415053-1
SR4M4036				36VDC	1-1415054-1
SR4M4040				40VDC	2-1415054-1
SR4M4048				48VDC	3-1415054-1
SR4M4060				60VDC	4-1415054-1
SR4M4085				85VDC	5-1415054-1
SR4M4110				110VDC	6-1415054-1