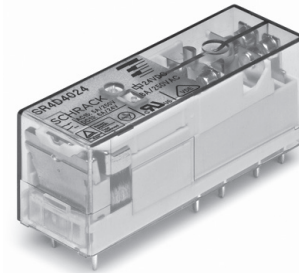


## Force Guided Relay SR4 D/M

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

### Typical applications

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



F0244-C



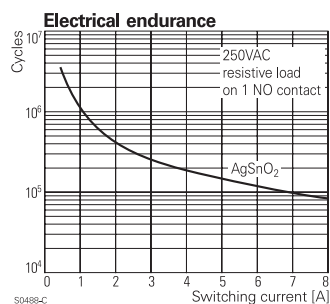
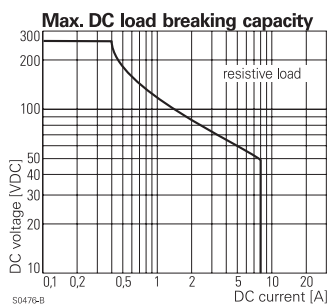
### Approvals

VDE Cert. No. 40005334, UL E214025, TUV 968/EL 230,  
CCC 2012010304537809

Technical data of approved types on request

### Contact Data

|                                                            |                                                                                            |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Contact arrangement                                        | 3 form A + 1 form B contacts<br>3 NO + 1 NC<br>2 form A + 2 form B contacts<br>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<br>type A according to EN 50205                               |
| Min. recommended contact load                              | 5V/10mA                                                                                    |
| Initial contact resistance                                 | ≤100mΩ at 1A, 24VDC<br>≤20Ω at 10mA, 5VDC                                                  |
| Frequency of operation, with/without load                  | 6/150min <sup>-1</sup>                                                                     |
| Contact ratings, IEC60947-5-1,<br>on 1 form A (NO) contact | AC15-3A<br>DC13-3A                                                                         |
| Mechanical endurance                                       | 10x10 <sup>6</sup> operations                                                              |



### Coil data

Coil voltage range 5 to 110VDC

### Coil versions, DC-coil

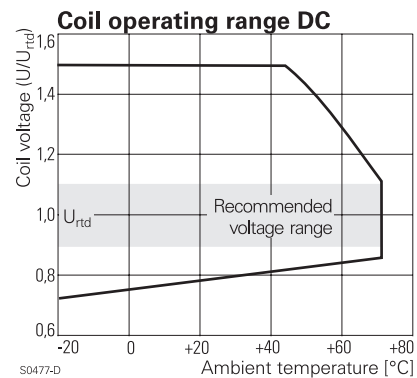
| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------|---------------------|
| 005       | 5                 | 3.8                 | 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                 |

### Coil data (continued)

#### Coil versions, DC-coil

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------|---------------------|
| 015       | 15                | 11.3                | 1.5                 | 281                   | 801                 |
| 018       | 18                | 13.5                | 1.8                 | 405                   | 800                 |
| 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

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

#### Clearance/creepage

|                           |                    |
|---------------------------|--------------------|
| between open contacts     | microdisconnection |
| 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)

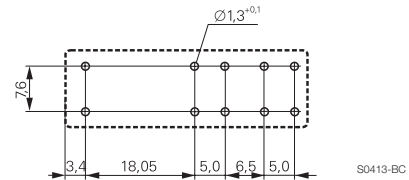
### Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customersupport/rohssupportcenter](http://www.te.com/customersupport/rohssupportcenter)

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature                  | -25 to 70°C  |
| Category of environmental Protection | RTIII        |
| IEC 61 810                           |              |
| Weight                               | 30g          |
| Resistance to soldering heat THT     |              |
| IEC 60068-2-20                       | 260°C/5s     |
| Packaging/unit                       | tube/10 pcs. |

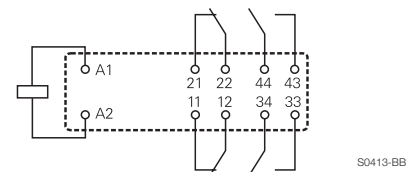
### PCB layout / terminal assignment

Bottom view on solder pins

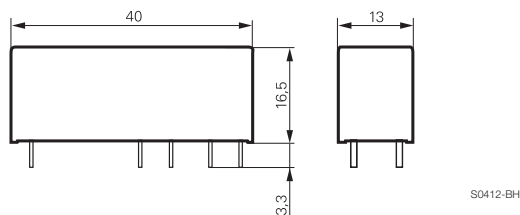


For more detailed information see product specification 2158002

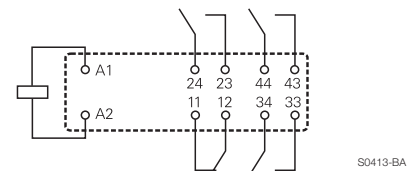
2 form A + 2 form B, 2 NO + 2 NC contacts



### Dimensions



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



### Product code structure

Typical product code **SR4 D 4 012**

#### 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

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

| Product code | Type                                          | Contact arrangement                             | Contact material   | Coil   | Part number |
|--------------|-----------------------------------------------|-------------------------------------------------|--------------------|--------|-------------|
| SR4D4005     | 4 pole<br>relay with<br>force guided contacts | 2 form A + 2 form B,<br>2 NO + 2 NC<br>contacts | AgSnO <sub>2</sub> | 5VDC   | 7-1415054-1 |
| SR4D4006     |                                               |                                                 |                    | 6VDC   | 8-1415054-1 |
| SR4D4009     |                                               |                                                 |                    | 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 + 1 form B,<br>3 NO + 1 NC<br>contacts |                    | 5VDC   | 5-1415053-1 |
| SR4M4006     |                                               |                                                 |                    | 6VDC   | 6-1415053-1 |
| SR4M4009     |                                               |                                                 |                    | 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 |