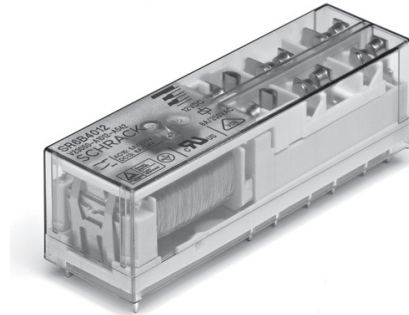


**Force Guided Relay SR6 A/B/C/V**

- 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



**Approvals**

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<br>3 NO + 3 NC,<br>4 form A + 2 form B contacts<br>4 NO + 2 NC,<br>5 form A + 1 form B contacts<br>5 NO + 1 NC |
| Rated voltage  | 250VAC  |
| Max. switching voltage                                     | 400VAC  |
| Rated current  | 8A  |
| Contact material   | AgSnO <sub>2</sub> ,<br>AgSnO <sub>2</sub> + 0.2µm Au   |
| 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 2 form A (NO) contact | AC15-5A<br>DC13-6A  |
| Mechanical endurance                                       | 10x10 <sup>6</sup> operations   |

**Coil Data**

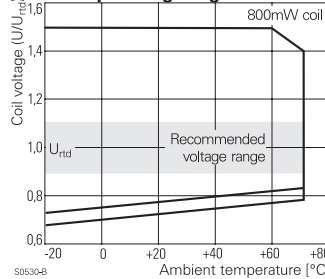
|                    |                 |
|--------------------|-----------------|
| Coil voltage range | 5 to 110VDC     |
| Max. coil power    | 1200mW or 800mW |

**Coil versions, DC-coil 800mW**

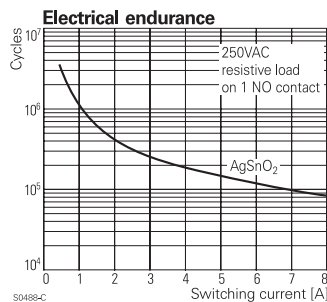
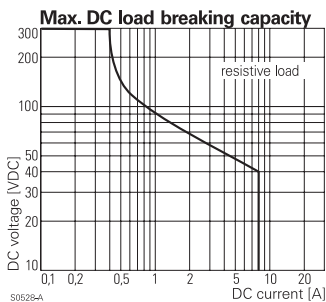
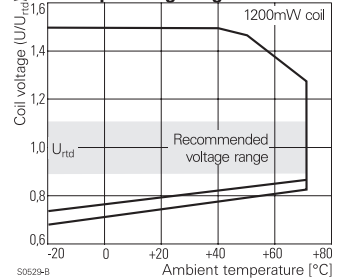
| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% | Rated power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------|----------------|
| K12       | 12                | 9                   | 0.9                 | 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 operating range DC**



**Coil operating range DC**



**Coil versions, DC-coil 1200mW**

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% <sup>1)</sup> | Rated coil power 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                   | 3000 <sup>1)</sup>                  | 1200                |
| 110       | 110               | 83                  | 11                  | 10080 <sup>1)</sup>                 | 1200                |

<sup>1)</sup> 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)

**Insulation Data**

|  |                      |
|--|----------------------|
| Initial dielectric strength                |                      |
| 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                   | ≥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 content refer to the Product Compliance Support Center at <a href="http://www.te.com/customer-support/rohssupportcenter">www.te.com/customer-support/rohssupportcenter</a> |              |
| Ambient temperature   | -25 to 70°C  |
| Category of environmental Protection  | RTIII        |
| IEC 61 810  |              |
| Weight  | 30g          |
| Resistance to soldering heat THT  | 260°C/5s     |
| IEC 60068-2-20  |              |
| Packaging/unit  | tube/10 pcs. |

For more detailed information see product specification 2158003

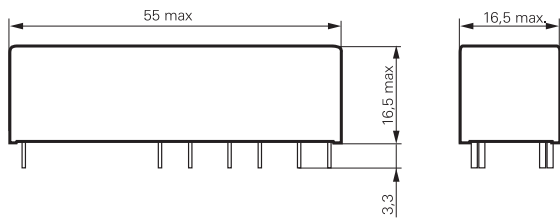
**Accessories**

|         |                                  |
|---------|----------------------------------|
| 27E1079 | SR6A and SR6B socket (1423991-1) |
| 27E1081 | SR6C socket (1423992-1)          |
| 24A243  | Relay hold down clip (1423994-1) |

For details see datasheet 1654787

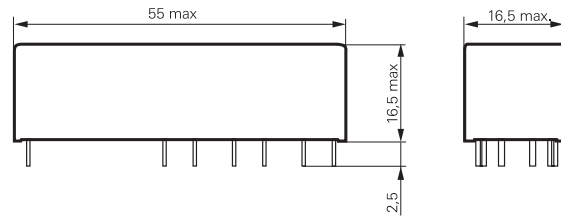
**Dimensions**

SR6 A/B/C



S0367-DN

SR6 V

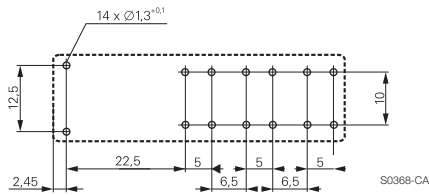


S0367-DU

**PCB layout / terminal assignment**

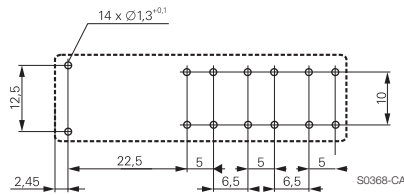
Bottom view

3 form A + 3 form B, 3 NO + 3 NC versions  
SR6 A



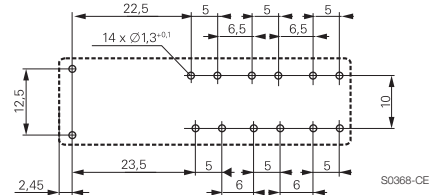
S0368-CA

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

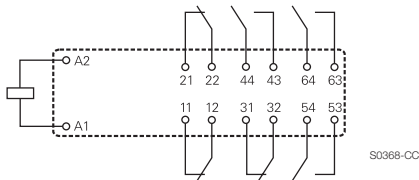


S0368-CA

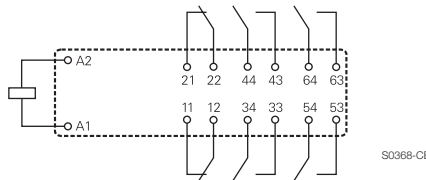
5 form A + 1 form B, 5 NO + 1 NC versions  
SR6 C



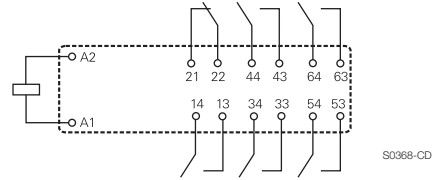
S0368-CE



S0368-CC



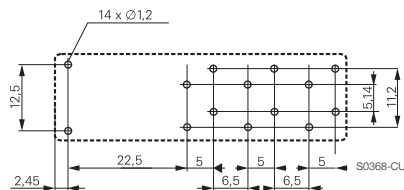
S0368-CB



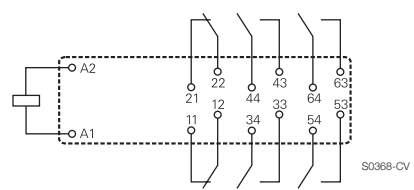
S0368-CD

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.



S0368-CV



S0368-CV

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

**Product code structure**

Typical product code **SR6 A 4 012**

|                            |   |
|----------------------------|---|
| <b>Type</b>                | <b>SR6</b> Relay with force guided contacts SR6   |
| <b>Contact arrangement</b> | <p><b>A</b> 3 form A + 3 form B contacts (3 NO + 3 NC)</p> <p><b>B</b> 4 form A + 2 form B contacts (4 NO + 2 NC)</p> <p><b>V</b> 4 form A + 2 form B contacts (4 NO + 2 NC)</p> <p><b>C</b> 5 form A + 1 form B contacts (5 NO + 1 NC)</p> |
| <b>Contact material</b>    | <p><b>4</b> AgSnO<sub>2</sub> for 1200mW version</p> <p><b>6</b> AgSnO<sub>2</sub> + 0.2µm Au for 800mW version</p>   |
| <b>Coil</b>                | Coil code: please refer to coil versions table (e.g. 024=24VDC)   |

Available types 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,<br>3 NO + 3 NC<br>contacts | AgSnO <sub>2</sub>     | 5VDC  | 1200mW            | V23050-A1005-A533      | 8-1415017-1 |       |             |             |
| SR6A4012     | relay with   |   |                        | 12VDC   |                   | V23050-A1012-A533      | 1-1415015-1 |       |             |             |
| SR6A4021     | force guided |   |                        | 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     |              |   |                        | 4 form A + 2 form B,<br>4 NO + 2 NC<br>contacts |                   | AgSnO <sub>2</sub> +Au | 12VDC       | 800mW |             | 6-1415537-1 |
| SR6A6K18     |              |   |                        |   |                   | 18VDC                  |             |       | 6-1415537-3 |             |
| SR6A6K24     |              |   |                        |   |                   | 24VDC                  |             |       | 6-1415537-5 |             |
| SR6B4005     |              | 5VDC  | 1200mW                 |   | V23050-A1005-A542 | 1393260-1              |             |       |             |             |
| SR6B4006     |              | 6VDC  |                        | V23050-A1006-A542                               | 1393260-2         |                        |             |       |             |             |
| SR6B4012     |              | 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     |              | 5 form A + 1 form B,<br>5 No + 1 NC<br>contacts | AgSnO <sub>2</sub> +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,<br>5 No + 1 NC<br>contacts | AgSnO <sub>2</sub>     | 12VDC   | 1200mW            | V23050-A1012-A551      | 1-1415017-1 |       |             |             |
| SR6C4024     |              |   | 24VDC                  |   |                   | V23050-A1024-A551      | 1415017-1   |       |             |             |
| SR6C4048     |              |   | 48VDC                  |   |                   | V23050-A1048-A551      | 2-1415019-1 |       |             |             |
| SR6C4060     |              |   | 60VDC                  |   |                   | V23050-A1060-A551      | 3-1415019-1 |       |             |             |
| SR6C4110     |              |   | 110VDC                 |   |                   | V23050-A1110-A551      | 5-1415019-1 |       |             |             |
| SR6C6K24     |              | 4 form A + 2 form B,<br>4 NO + 2 NC<br>contacts | AgSnO <sub>2</sub> +Au | 24VDC   | 800mW             |                        | 9-1415537-4 |       |             |             |
| SR6V6K12     |              |   | 12VDC                  |   |                   | 3-1415542-5            |             |       |             |             |
| SR6V6K15     |              |   | 15VDC                  |   |                   | 2-1415543-2            |             |       |             |             |
| SR6V6K18     |              |   | 18VDC                  |   |                   | 3-1415543-3            |             |       |             |             |
| SR6V6K21     |              |   | 21VDC                  |   |                   | 4-1415542-4            |             |       |             |             |
| SR6V6K24     |              |   | 24VDC                  |   |                   | 5-1415539-2            |             |       |             |             |

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