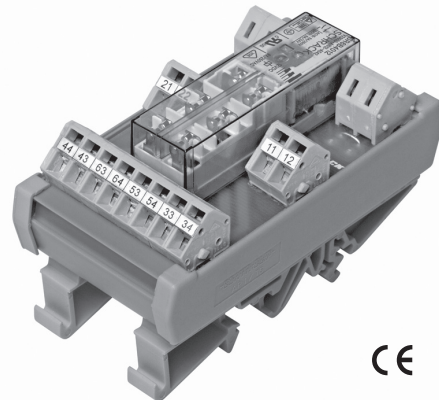


## Force Guided Relay on DIN-rail SR6 Z

- 6 pole relay with force guided contacts according to EN50205
- DIN rail mounting
- AC / DC input

Typical applications  
contact monitoring in railway, elevator and machine controls



CE

F0238-C

### Approvals

relay SR6: VDE, UL, TUV, CQC  
module SR6Z: CE  
Technical data of approved types on request

### Contact Data

|                                                            |                                                                                                         |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Contact arrangement                                        | 3 form A (NO) and 3 form B (NC),<br>4 form A (NO) and 2 form B (NC),<br>5 form A (NO) and 1 form B (NC) |
| Rated voltage                                              | 250VAC                                                                                                  |
| Max. switching voltage                                     | 250VAC                                                                                                  |
| 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 | AC15-5A<br>DC13-6A                                                                                      |
| Mechanical endurance                                       | 10x10 <sup>6</sup> operations                                                                           |

### Coil Data

|                                            |                                           |
|--------------------------------------------|-------------------------------------------|
| Coil voltage range                         | 6 to 115 VAC/VDC,<br>230VAC               |
| DC energizing voltage U <sub>rtid</sub>    | 6, 12, 18, 21, 24, 36, 40, 48, 60, 115VDC |
| AC/DC energizing voltage U <sub>rtid</sub> | 24, 115VAC/VDC                            |
| AC energizing voltage U <sub>rtid</sub>    | 230VAC                                    |
| Operative range                            | 90 to 110% of U <sub>rtid</sub>           |
| Release voltage (+23°C)                    | 10% of U <sub>rtid</sub>                  |
| Max. coil power DC versions                | 1200mW                                    |
| Max. system power AC/DC versions           | 2400mVA                                   |

### Insulation Data

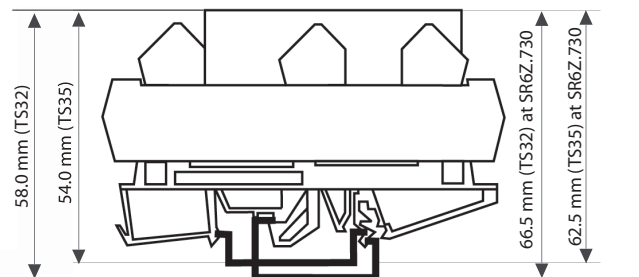
|                                            |                      |
|--------------------------------------------|----------------------|
| Initial dielectric strength                |                      |
| between open contacts                      | 1000V <sub>rms</sub> |
| between contact and coil                   | 3000V <sub>rms</sub> |
| between adjacent contacts                  | 2000V <sub>rms</sub> |
| Clearance/creepage                         |                      |
| between open contacts                      | microdisconnection   |
| between contact and coil                   | ≥5.5/5.5mm           |
| between adjacent contacts                  | ≥2,8 /2.8mm          |
| Insulation to EN 50178, type of insulation |                      |
| between contact and coil                   | reinforced           |
| between adjacent contacts                  | basic                |

### Other Data

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

|                                   |                            |
|-----------------------------------|----------------------------|
| Ambient temperature               | 0 to 40°C                  |
| for mounting/handling             | 0 to 40°C                  |
| in operation                      | -25 to 50°C                |
| SR6ZC 730 only                    | -25 to 40°C                |
| Terminal type                     | screwless clamp connectors |
| Wire cross section                |                            |
| solid wire                        | 2.5mm <sup>2</sup>         |
| stranded wire                     | 2.5mm <sup>2</sup>         |
| stranded wire with bootlace crimp | 1.5mm <sup>2</sup>         |
| Mounting position                 | any                        |
| Weight                            | 90g                        |
| Packaging unit                    | 2                          |

### Dimensions



S0423-A

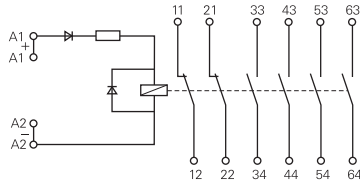
Module width 46 mm  
Module length 87 mm

Fit onto mounting rails according to  
DIN EN 60175

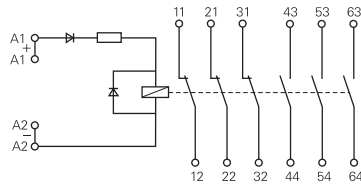
**Force Guided Relay on DIN-rail SR6 Z (Continued)**

**Terminal assignment**

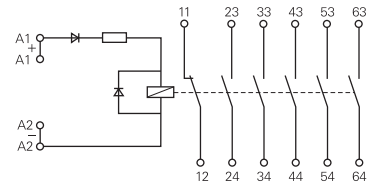
DC module, 4 NO+2 NC version



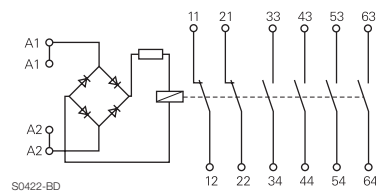
DC module, 3 NO+3 NC version



DC module, 5 NO+1 NC version

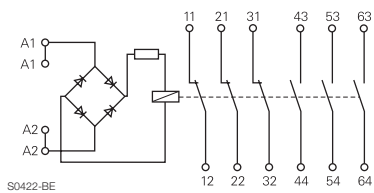


AC/DC module, 4 NO+2 NC version



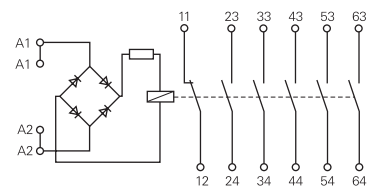
S0422-BD

AC/DC module, 3 NO+3 NC version



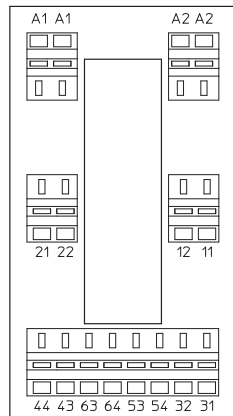
S0422-BE

AC/DC module, 5 NO+1 NC version

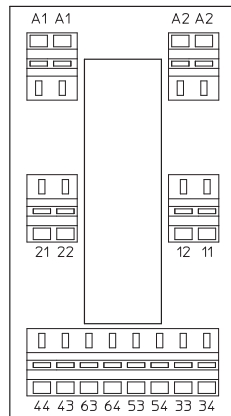


S0422-BF

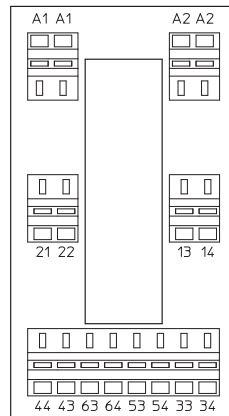
SR6ZA...



SR6ZB...



SR6ZC...



S6Z8004

**Product code structure**

Typical product code **SR6Z B 024**

|                              |                                                                                                                                                       |  |  |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Type</b>                  | <b>SR6Z</b> Relay with force guided contacts on DIN-rail SR6 Z                                                                                        |  |  |
| <b>Contact configuration</b> | <b>A</b> 3 form A (NO) + 3 form B (NC) contacts<br><b>B</b> 4 form A (NO) + 2 form B (NC) contacts<br><b>C</b> 5 form A (NO) + 1 form B (NC) contacts |  |  |
| <b>Coil</b>                  | DC Coil code = rated coil voltage (e.g. 024=24 VDC)<br>AC/DC coil code: 524=24 VAC/VDC, 615=115 VAC/VDC<br>AC coil code: 730=230 VAC                  |  |  |

Other types on request

| Product code | Type         | Contact configuration | Contact material   | Coil       | Part number |
|--------------|--------------|-----------------------|--------------------|------------|-------------|
| SR6ZA024     | 6-pole       | 3 form A + 3 form B   | AgSnO <sub>2</sub> | 24VDC      | 7-1415033-1 |
| SR6ZA524     | force guided | 3 NO + 3 NC           |                    | 24VAC/VDC  | 9-1415059-1 |
| SR6ZA615     | relay module | contacts              |                    | 115VAC/VDC | 1415060-1   |
| SR6ZA730     |              |                       |                    | 230VAC     | 1-1415060-1 |
| SR6ZB024     |              | 4 form A + 2 form B   |                    | 24VDC      | 5-1415033-1 |
| SR6ZB524     |              | 4 NO + 2 NC           |                    | 24VAC/VDC  | 2-1415060-1 |
| SR6ZB615     |              | contacts              |                    | 115VAC/VDC | 6-1415046-1 |
| SR6ZB730     |              |                       |                    | 230VAC     | 3-1415060-1 |
| SR6ZC024     |              | 5 form A + 1 form B   |                    | 24VDC      | 3-1415042-1 |
| SR6ZC524     |              | 5 NO + 1 NC           |                    | 24VAC/VDC  | 4-1415060-1 |
| SR6ZC615     |              | contacts              |                    | 115VAC/VDC | 5-1415060-1 |
| SR6ZC730     |              |                       |                    | 230VAC     | 6-1415060-1 |