

## Relay Package SNR

- Relay package consisting of DIN-rail socket and relay
- 1 CO with 6 A rated load
- Module width only 6.2 mm
- Reduced system width for increased packing density on the DIN rail

### Approvals

Relay: VDE Cert. No. 40010063, cULus E214025, cCSAus 2148326

Socket: VDE Cert. No. 40010063, cULus E224918

Technical data of approved types on request

### Contact data

|                                                       |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| Contact configuration                                 | 1 CO                                              |
| Contact set                                           | single contact                                    |
| Type of interruption                                  | micro disconnection                               |
| Rated voltage/max. switching voltage AC               | 240/400 VAC                                       |
| Rated current                                         | 6 A                                               |
| Maximum breaking capacity AC                          | 1500 VA                                           |
| Limiting breaking capacity, max. 4 s, duty factor 10% | 10 A                                              |
| Contact material                                      | AgSnO <sub>2</sub> AgSnO <sub>2</sub> gold plated |
| Minimum contact load                                  | 100mA, 12V 50mW                                   |
| Rated frequency of operation with/without load        | 6 / 1200 min <sup>-1</sup>                        |
| Operate-/release time                                 | max 12 / 5 ms                                     |
| Bounce time NO/NC contact                             | max 3 / 8 ms                                      |

### Contact ratings

For contact ratings see datasheet Slim Interface Relay SNR

### Input data

|                              |                                |
|------------------------------|--------------------------------|
| Rated input voltage DC       | 12, 24 VDC, 115, 230 VAC/VDC*) |
| Operative range to IEC 61810 | 2                              |

\*) Version 115, 230 VAC/VDC equipped with 60 VDC relay

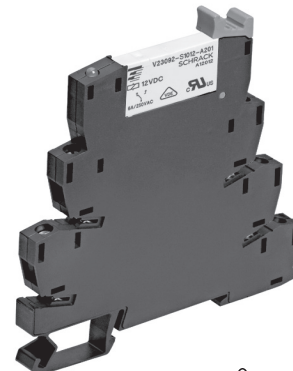
### Coil versions, DC coil

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance $\Omega \pm 10\%$ | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------------------|---------------------|
| LB2       | 12                | 8.4                 | 0.6                 | 848                               | 184                 |
| LC4       | 24                | 16.8                | 1.2                 | 3390                              | 220                 |

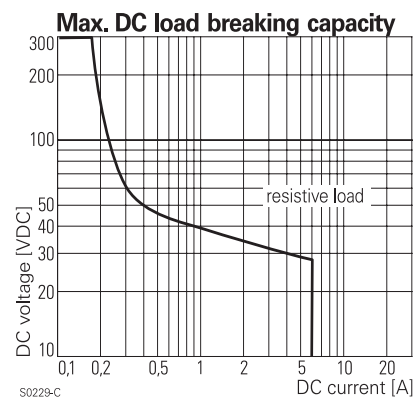
### Coil versions, AC coil 50 Hz

| Coil code | Rated voltage VAC | Operate voltage 50 Hz VAC | Release voltage 50 Hz VAC | Coil resistance $\Omega$ | Rated coil power 50 Hz mVA |
|-----------|-------------------|---------------------------|---------------------------|--------------------------|----------------------------|
| SM5       | 115               | 82.0                      | 9.0                       | not applicable           | 403                        |
| TP0       | 230               | 160.0                     | 15.0                      | not applicable           | 736                        |

Other coil voltages on request.



F0260-BS



### Insulation

|                                           |                       |
|-------------------------------------------|-----------------------|
| Dielectric strength                       |                       |
| coil-contact circuit                      | 4000 V <sub>rms</sub> |
| open contact circuit                      | 1000 V <sub>rms</sub> |
| Clearance / creepage coil-contact circuit | ≥ 6 / 8 mm            |
| Material group of insulation parts        | IIIa                  |
| Insulation to IEC 60664-1                 |                       |
| Type of insulation coil-contact circuit   | reinforced            |
| open contact circuit                      | micro disconnection   |
| Rated insulation voltage                  | 250 V                 |
| Pollution degree                          | 3 2                   |
| Rated voltage system                      | 240 V 230 / 400 V     |
| Overvoltage category                      | III                   |

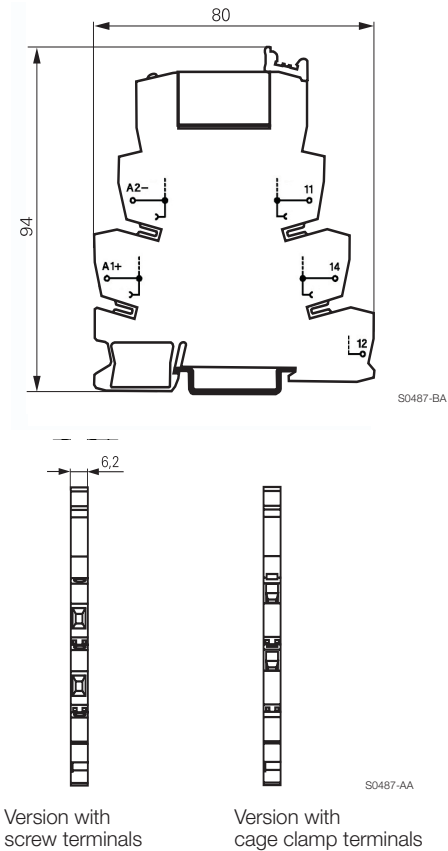
**Relay Package SNR** (Continued)

**Other data**

|                                                                                                                                                                                                                                         |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Mechanical endurance                                                                                                                                                                                                                    | 10x10 <sup>6</sup> cycles        |
| 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> |                                  |
| Environment                                                                                                                                                                                                                             |                                  |
| Ambient temperature range                                                                                                                                                                                                               | -40...+55°C                      |
| Processing                                                                                                                                                                                                                              |                                  |
| Terminals                                                                                                                                                                                                                               | screw / cage clamp               |
| Terminal screw torque acc. IEC 61984                                                                                                                                                                                                    | 0.5 Nm                           |
| max.                                                                                                                                                                                                                                    | 0.6 Nm                           |
| Wire cross section                                                                                                                                                                                                                      |                                  |
| single wire                                                                                                                                                                                                                             | 0.14...2.5 mm <sup>2</sup>       |
| fine wire                                                                                                                                                                                                                               | 0.14...2.5 mm <sup>2</sup>       |
| with bootlace crimp (DIN 46228/1)                                                                                                                                                                                                       | 0.14...2.5 mm <sup>2</sup>       |
| Insertion cycles                                                                                                                                                                                                                        | A (10)                           |
| Max. Insertion Force total                                                                                                                                                                                                              | 100 N                            |
| Mounting distance                                                                                                                                                                                                                       | ≥ 0 mm, dense packing of sockets |
| Weight                                                                                                                                                                                                                                  | 32 g                             |
| Packaging unit                                                                                                                                                                                                                          | 10 pcs                           |

**Accessories**

For accessories see datasheet Accessories Slim Interface Relay SNR



**Product code structure**

Typical product code **ST** **4P** **3** **TP0**

**Type**

**ST** Relay Package SNR

**Version**

**3P** Relay set, SNR 1-pole CO (1 form C), 6 A, screw terminals  
**4P** Relay set, SNR 1-pole CO (1 form C), 6 A, cage clamp terminals

**Contact material**

**2** AgSnO<sub>2</sub>, gold plated **3** AgSnO<sub>2</sub>

**Coil**

**LB2** 12 VDC **LC4** 24 VDC  
**SM5** 115 VDC/VAC **TP0** 230 VDC/VAC

| Product code | Socket  | Terminals  | Relay             | Contacts                    | Coil       | Part Number |
|--------------|---------|------------|-------------------|-----------------------------|------------|-------------|
| ST3P2LC4     | ST3FLC4 | screw      | V23092-S1024-A201 | AgSnO <sub>2</sub> gold pl. | 24VDC      | 3-1416100-0 |
| ST3P3LB2     |         |            | V23092-S1012-A301 | AgSnO <sub>2</sub>          | 12VDC      | 3-1416100-1 |
| ST3P3LC4     |         |            | V23092-S1024-A301 |                             | 24VDC      | 3-1416100-2 |
| ST3P3SM5     | ST3FSM5 |            | V23092-S1060-A301 |                             | 115VDC/VAC | 3-1416100-3 |
| ST3P3TP0     | ST3FTP0 |            |                   |                             | 230VDC/VAC | 3-1416100-4 |
| ST4P2LC4     | ST4FLC4 | cage clamp | V23092-S1024-A201 | AgSnO <sub>2</sub> gold pl. | 24VDC      | 3-1416100-5 |
| ST4P3LB2     |         |            | V23092-S1012-A301 | AgSnO <sub>2</sub>          | 12VDC      | 3-1416100-6 |
| ST4P3LC4     |         |            | V23092-S1024-A301 |                             | 24VDC      | 3-1416100-7 |
| ST4P3SM5     | ST4FSM5 |            | V23092-S1060-A301 |                             | 115VDC/VAC | 3-1416100-8 |
| ST4P3TP0     | ST4FTP0 |            |                   |                             | 230VDC/VAC | 3-1416100-9 |

Other types on request