

## 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

For contact ratings see datasheet Slim interface Relay SNR

### 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                                         | 6A                         |                                |
| Maximum breaking capacity AC                          | 1500 VA                    |                                |
| Limiting breaking capacity, max. 4 s, duty factor 10% | 10A                        |                                |
| 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

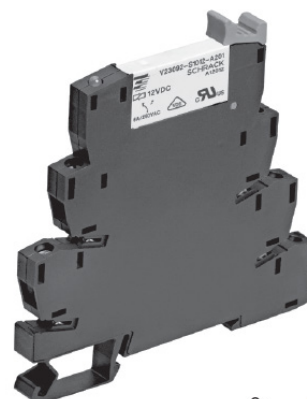
### Coil versions, DC coil

| 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                 |

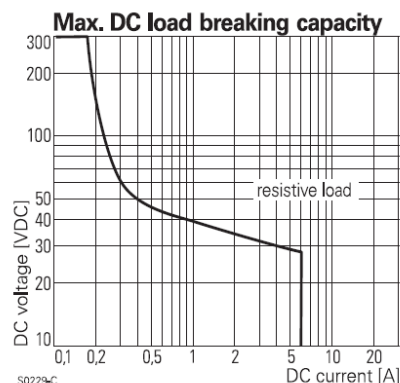
### Coil versions, AC coil 50 Hz

| 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                     | 4000V <sub>rms</sub> |             |
| open contact circuit                     | 1000V <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                  |             |

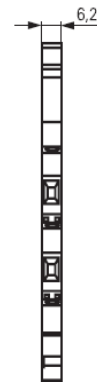
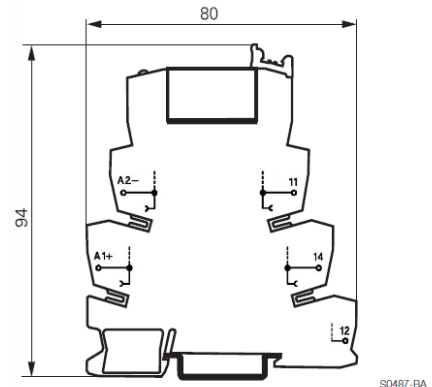
**Relay Package SNR** (Continued)

**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/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a> |                                  |
| Environment                                                                                                                                                                                                                           |                                  |
| Ambient temperature range                                                                                                                                                                                                             | -40...+55°C                      |
| Processing                                                                                                                                                                                                                            |                                  |
| Terminals                                                                                                                                                                                                                             | screw                            |
| 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](#)



Version with screw terminals

**Product code structure**

Typical product code

**ST 3P 3 TP0**

**Type**

**ST** Relay Package SNR

**Version**

**3P** Relay set, SNR 1-pole CO (1 form C), 6 A, screw 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 |