

## DATA SHEET: 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
- RoHS compliant (Directive 2002/95/EC)

## APPROVALS

Relay: REG.-Nr. 6666, US E214024

Socket: REG.-Nr. 6666, US 224918  
Technical data of approved types on request

## CONTACT DATA

| 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 making capacity, max 4 s, duty factor 10% | 10 A                       |                                   |
| Contact material                                   | AgSnO <sub>2</sub>         | AgSnO <sub>2</sub><br>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

| 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 Ohm | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|---------------------|---------------------|
| LB2       | 12                | 8.4                 | 0.6                 | 848 ± 10%           | 184                 |
| LC4       | 24                | 16.8                | 1.2                 | 3390 ± 10%          | 220                 |

### Coil versions, AC-coil 50Hz

| Coil code | Rated voltage VAC | Operate voltage 50 Hz VAC | Release voltage 50 Hz VAC | Coil resistance Ohm | 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

## INSULATION

### 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                   |

## OTHER DATA

### Other data

|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| Mechanical endurance                 | 10x10 <sup>6</sup> cycles               |
| Material                             |                                         |
| RoHS - Directive 2002/95/EC          | compliant as per product date code 0404 |
| 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                                  |

## PRODUCT KEY

### Product key

Typical product key

**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

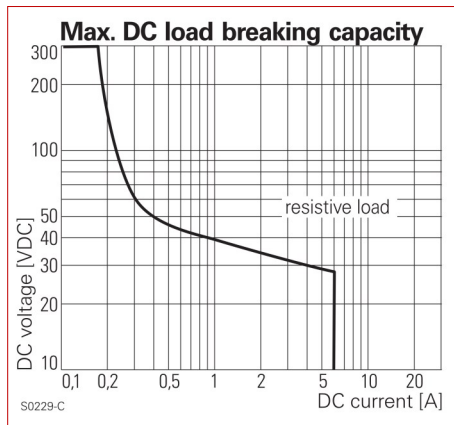
**SM5** 115 VDC/VAC

**LC4** 24 VDC

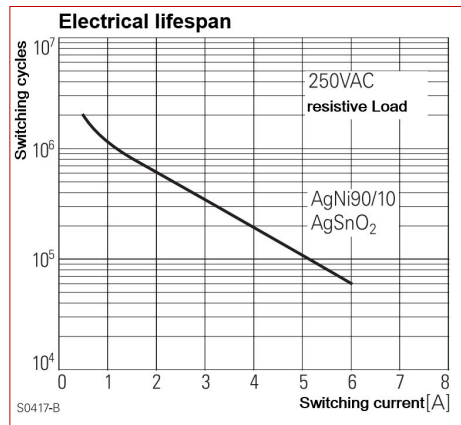
**TP0** 230 VDC/VAC

Other types on request

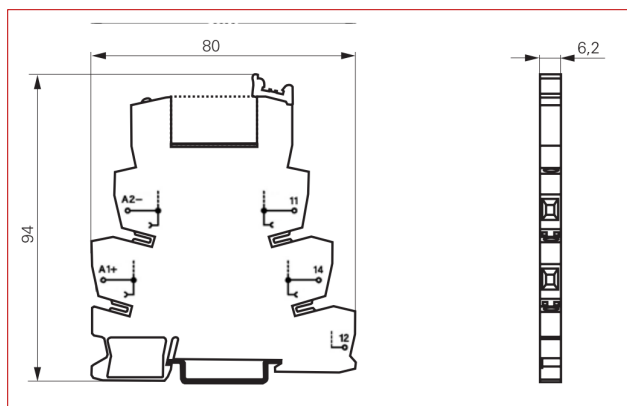
## DC LOAD BREAKING CAPACITY



## ELECTRICAL LIFESPAN



## DIMENSIONS



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

## ACCESSORIES

### Accessories

|                                                                                                          |                |
|----------------------------------------------------------------------------------------------------------|----------------|
| DIN rail mounted plug-in socket for SNR relays, 24V-DC, 6A, incl. protection diode, with screw terminals | <b>ST3FLC4</b> |
| SNR jumper bar, red, 500mm                                                                               | <b>ST37001</b> |
| SNR jumper bar, blue, 500mm                                                                              | <b>ST37002</b> |
| SNR jumper bar, grey, 500mm                                                                              | <b>ST37003</b> |
| Marking plate, 1 plate= 100pcs.                                                                          | <b>ST37040</b> |