



## SRC30/EL

### All-purpose safety emergency stop relay

#### Product Features:

- 3 non-delayed safety contacts
- 1 non-delayed auxiliary contact

Connection of:

- Emergency stop buttons
- Mechanical safety switches
- Non-contact safety switches
- Safety components with OSSD-Outputs
- Control: single or dual channel
- Feedback loop for external contactors or extension modules
- Cyclical monitoring of the output contacts
- LED indicator for power and status
- Automatic or manual start
- Short-circuit monitoring and ground faultt monitoring
- Up to PL e, SIL 3, category 4

(EN ISO 13849-1 / EN IEC 62061 / EN 61508)

| Technical Data:                                                                         |                                |                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:                                                                           | Operating voltage:             | 24 VDC $\pm$ 10 %                                                                                                                                                                                                                                  |
|                                                                                         | Power consumption:             | 2,6 W                                                                                                                                                                                                                                              |
|                                                                                         | Inrush current A1:             | 5 A (approx. 250 $\mu$ s)                                                                                                                                                                                                                          |
| Pulse suppression<br>(A1 / S12 / S14):                                                  | Switch-Off pulse / dark test:  | max. 3 ms (pulse width) / 500 ms (pulse rate)                                                                                                                                                                                                      |
|                                                                                         | Switch -On pulse / light test: | max. 1 ms (pulse width) / 500 ms (pulse rate)<br>Note: It must be ensured that any switch-on pulses (light test) sent by the signal generator do not lead to a short activation of the safety relay and should therefore basically be deactivated. |
| Contact configuration:                                                                  | Number of NO contact:          | 3 NO (Safety contacts)                                                                                                                                                                                                                             |
|                                                                                         | Number of NC contact:          | 1 NC (Auxiliary contact)                                                                                                                                                                                                                           |
| Switching voltage:                                                                      |                                | Max. AC 250 V                                                                                                                                                                                                                                      |
| Contact rating of safety contacts:<br>(13-14, 23-24, 33-34)<br>6 switching cycles / min | AC:                            | 250 V, 2000 VA, 8 A for resistive load<br>250 V, 3 A für AC-15                                                                                                                                                                                     |
|                                                                                         | DC:                            | 30 V, 240 W, 8 A for resistive load<br>24 V, 3 A für DC-13                                                                                                                                                                                         |
| Thermal current I <sub>th</sub>                                                         |                                | Max. 5 A per contact (see total current limit curve)                                                                                                                                                                                               |
| Contact rating of auxiliary contact (41-42)                                             | AC:                            | 250 V, 500 VA, 2 A for resistive load                                                                                                                                                                                                              |
|                                                                                         | DC:                            | 30 V, 60 W, 2 A for resistive load                                                                                                                                                                                                                 |
| Minimum contact load:                                                                   |                                | 5 V, 10 mA                                                                                                                                                                                                                                         |
| External fuses:                                                                         | NO contact:                    | 10 A gG                                                                                                                                                                                                                                            |
|                                                                                         | NC contact:                    | 6 A gG                                                                                                                                                                                                                                             |
| Max. switch-on delay:                                                                   |                                | < 50 ms                                                                                                                                                                                                                                            |
| Max. switch-off delay:                                                                  | Activation via:                | A1 < 40 ms; S12 or S13/S14 < 20 ms                                                                                                                                                                                                                 |
| Recovery time:                                                                          |                                | < 500 ms                                                                                                                                                                                                                                           |
| Wire width:                                                                             |                                | 0,14 - 2,5 mm <sup>2</sup>                                                                                                                                                                                                                         |
| Tightening moment:                                                                      | Min.:                          | 0,5 Nm                                                                                                                                                                                                                                             |
|                                                                                         | Max:                           | 0,6 Nm                                                                                                                                                                                                                                             |
| Contact material:                                                                       |                                | AgSnO <sub>2</sub>                                                                                                                                                                                                                                 |
| Service Life:                                                                           |                                | mech. approx. 1 x 10 <sup>7</sup>                                                                                                                                                                                                                  |
| Rated impulse withstand voltage:                                                        |                                | 2,5 kV (control voltage / contacts)                                                                                                                                                                                                                |
| Dielectric strength:                                                                    |                                | 4 kV (EN 60664-1)                                                                                                                                                                                                                                  |
| Rated insulation voltage:                                                               |                                | 250 V                                                                                                                                                                                                                                              |
| Degree of pollution /<br>Overvoltage category                                           |                                | 2 / 3 (EN 60664-1)                                                                                                                                                                                                                                 |
| Conformity and standards:                                                               | In compliance with:            | EN 60204-1<br>EN ISO 13849-1<br>EN IEC 62061<br>EN 61508 Parts 1-2 and 4-7<br>EN 81-20<br>EN 81-50                                                                                                                                                 |
| Housing:                                                                                | Mounting:                      | DIN rail according to EN 60715 TH35                                                                                                                                                                                                                |
|                                                                                         | Protection:                    | IP20                                                                                                                                                                                                                                               |
|                                                                                         | Weight:                        | approx. 150g                                                                                                                                                                                                                                       |
| Temperature range:                                                                      | Ambient:                       | -15 °C ... +55 °C / +5 °F ... 131 °F                                                                                                                                                                                                               |
|                                                                                         | Storage:                       | -15 °C ... +85 °C / +5 °F ... 185 °F                                                                                                                                                                                                               |
| Max. altitude:                                                                          |                                | ≤ 2.000 m (above sea level)                                                                                                                                                                                                                        |