

# PSR-SCP- 24UC/ESA4/3X1/1X2/B


Order No.: 2963763



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Safety relay to emergency stop and safety door monitoring up to SIL 3 or Cat. 4, PL e according to EN ISO 13849, one- or two-channel operation, automatic activation, 3 enabling current paths, nominal input voltage 24 V AC/DC



| Commercial data          |   |
|--------------------------|---|
| EAN                      | 4  017918 878085 |
| Pack                     | 1   |
| Customs tariff           | 85364900  |
| Country of Origin        | DE  |
| Catalog page information | Page 21 (IF-2009)   |

#### Product notes

WEEE/RoHS-compliant since:  
30/03/2006



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## Technical data

| Input data                                |              |
|---|--------------|
| Nominal input voltage $U_N$               | 24 V AC/DC   |
| Input voltage range in reference to $U_N$ | 0.85 ... 1.1 |
| Typical input current at $U_N$            | 140 mA AC    |
|   | 65 mA DC     |

|   |  |
|---|--|
| Voltage at input/start and feedback circuit   | Approx. 24 V DC  |
| Typical response time                         | 100 ms (automatic start)                                   |
| Typical release time                          | 45 ms (single-channel)                                     |
|   | 10 ms (two-channel)  |
| Concurrence input 1/2                         | Infinite   |
| Recovery time                                 | 1 s  |
| Max. permissible overall conductor resistance | Approx. 50 Ω (Input and start circuits at U <sub>N</sub> ) |

#### Output data

|  |   |
|--|---|
| Contact type                                 | 3 enabling current paths, 1 signaling current path  |
| Contact material                             | AgSnO <sub>2</sub> , + 0.2 μm Au                    |
| Maximum switching voltage                    | 250 V AC/DC   |
| Minimum switching voltage                    | 15 V AC/DC  |
| Limiting continuous current                  | 6 A (N/O contact)                                   |
| Maximum inrush current                       | 6 A   |
| Inrush current, minimum                      | 25 mA   |
| Sq. Total current                            | $72 \text{ A}^2 (I_{TH}^2 = I_1^2 + I_2^2 + I_3^2)$ |
| Interrupting rating (ohmic load) max.        | 144 W (24 V DC, τ = 0 ms)                           |
|  | 288 W (48 V DC, τ = 0 ms)                           |
|  | 77 W (110 V DC, τ = 0 ms)                           |
|  | 88 W (220 V DC, τ = 0 ms)                           |
|  | 1500 VA (250 V AC, τ = 0 ms)                        |
| Maximum interrupting rating (inductive load) | 48 W (24 V DC, τ = 40 ms)                           |
|  | 40 W (48 V DC, τ = 40 ms)                           |
|  | 35 W (110 V DC, τ = 40 ms)                          |
|  | 35 W (220 V DC, τ = 40 ms)                          |
| Switching capacity min.                      | 0.4 W   |
| Output fuse                                  | 10 A gL/gG NEOZED (N/O contact)                     |
|  | 6 A gL/gG NEOZED (N/C contact)                      |

#### General data

|   |                  |
|---|------------------|
| Width                                   | 22.5 mm          |
| Height                                  | 99 mm            |
| Depth                                   | 114.5 mm         |
| Ambient temperature (operation)         | -20 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

|                                  |  |
|----------------------------------|--|
| Relay type                       | Electromechanically forcibly guided, dust-proof relay.   |
| Mechanical service life          | Approx. $10^7$ cycles  |
| Mounting position                | Any  |
| Category according to EN 13849-1 | 4  |
| Stop category                    | 0  |
| Name                             | Air and creepage distances between the power circuits  |
| Standards/regulations            | DIN EN 50178/VDE 0160  |
| Rated surge voltage / insulation | 4 kV / Basic isolation, (safe isolation, reinforced insulation and 6 kV between input circuit and enabling current paths.) |
| Rated insulation voltage         | 250 V  |
| Pollution degree                 | 2  |
| Surge voltage category           | III  |

#### Connection data

|  |                     |
|--|---------------------|
| Conductor cross section solid min.     | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.     | 2.5 mm <sup>2</sup> |
| Conductor cross section stranded min.  | 0.2 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG/kcmil min. | 24                  |
| Conductor cross section AWG/kcmil max  | 12                  |
| Stripping length                       | 7 mm                |
| Screw thread                           | M3                  |
| Connection method                      | Screw connection    |

#### Certificates

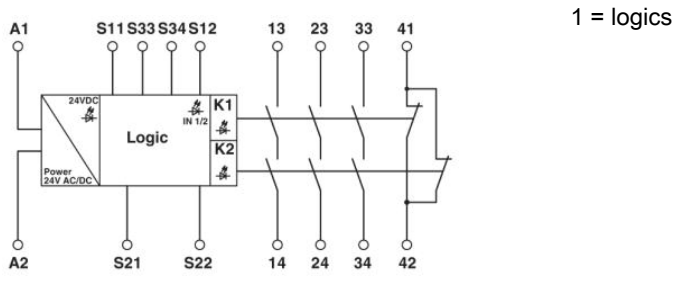


Certification

CUL Listed, GOST, TUEV-RH, UL Listed

**Drawings**

Circuit diagram



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