

PSR-SCP- 24UC/URM4/5X1/2X2/B - Extension module



2981033

<https://www.phoenixcontact.com/us/products/2981033>

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Single or two-channel contact extension, 5 N/O contacts, 1 N/C contact, 1 confirmation current path, plug-in screw terminal blocks, width: 22.5 mm

Your advantages

- 1- and 2-channel control
- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2981033 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN01 |
| Product key | DNA152 |
| Catalog page | Page 232 (C-6-2019) |
| GTIN | 4017918915513 |
| Weight per piece (including packing) | 208.9 g |
| Weight per piece (excluding packing) | 205.3 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|-------------------------|--|
| Product type | Safety relays |
| Product family | PSRclassic |
| Application | Extension module |
| Mechanical service life | 10x 10 ⁶ cycles |
| Relay type | Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3 |

Electrical properties

| | |
|---|-----------------------|
| Maximum power dissipation for nominal condition | 2.21 W |
| Nominal operating mode | 100% operating factor |

Air clearances and creepage distances between the power circuits

| | |
|--------------------------------|---|
| Rated insulation voltage | 250 V AC |
| Rated surge voltage/insulation | Basic insulation 4 kV: between all current paths and housing Safe isolation, reinforced insulation 6 kV: between A1/A2, 11/12, 23/24, 71/72 and 33/34, 43/44, 53/54, 63/64 |

Input data

General

| | |
|--|---|
| Rated control circuit supply voltage U_S | 24 V AC/DC -15 % / +10 % |
| Power consumption at U_S | typ. 1.94 W (AC) |
| | typ. 1.7 W (DC) |
| Rated control supply current I_S | typ. 81 mA AC |
| | typ. 71 mA DC |
| Inrush current | 175 mA ($\Delta t = 5$ ms at U_S) |
| Filter time | 2 ms (at A1 in the event of voltage dips at U_S) |
| Typ. starting time with U_S | < 20 ms (when controlled via A1) |
| Typical release time | < 20 ms (when controlled via A1) |
| Recovery time | < 1 s |
| Maximum switching frequency | 1 Hz |
| Protective circuit | Surge protection; Varistor |

Output data

| | |
|-----------------------------|--|
| Contact switching type | 5 enabling current paths |
| | 1 confirmation current path |
| | 1 signaling current path |
| Contact material | AgSnO ₂ |
| Maximum switching voltage | 250 V AC/DC (Observe the load curve) |
| Minimum switching voltage | 5 V AC/DC |
| Limiting continuous current | 6 A (N/O contact, pay attention to the derating) |

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| | |
|--|--------------------------------------|
| | 6 A (N/C contact) |
| Maximum inrush current | 20 A ($\Delta t \leq 100$ ms) |
| Inrush current, minimum | 10 mA |
| Sq. Total current | 72 A ² (observe derating) |
| Interrupting rating (ohmic load) max. | 144 W (24 V DC, $\tau = 0$ ms) |
| | 288 W (48 V DC, $\tau = 0$ ms) |
| | 110 W (110 V DC, $\tau = 0$ ms) |
| | 88 W (220 V DC, $\tau = 0$ ms) |
| | 1500 VA (250 V AC, $\tau = 0$ ms) |
| Maximum interrupting rating (inductive load) | 42 W (24 V DC, $\tau = 40$ ms) |
| | 42 W (48 V DC, $\tau = 40$ ms) |
| | 42 W (110 V DC, $\tau = 40$ ms) |
| | 42 W (220 V DC, $\tau = 40$ ms) |
| Switching capacity min. | 50 mW |
| Switching capacity (360/h cycles) | 4 A (24 V DC) |
| | 4 A (230 V AC) |
| Switching capacity (3600/h cycles) | 2.5 A (24 V (DC13)) |
| | 3 A (230 V (AC15)) |
| Output fuse | 10 A gL/gG (N/O contact) |
| | 6 A gL/gG (N/C contact) |

Connection data

Connection technology

| | |
|-----------|-----|
| pluggable | yes |
|-----------|-----|

Conductor connection

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Conductor cross section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |
| Stripping length | 7 mm |
| Screw thread | M3 |

Signaling

| | |
|---------------------------|---------------|
| Operating voltage display | 1 x green LED |
|---------------------------|---------------|

Dimensions

| | |
|--------|----------|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

Material specifications

| | |
|------------------|-------------------|
| Color (Housing) | yellow (RAL 1018) |
| Housing material | Polyamide |

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Characteristics

Safety data

| | |
|---------------|---|
| Stop category | 0 |
|---------------|---|

Safety data: EN ISO 13849

| | |
|------------------------|--|
| Category | 4 (In conjunction with suitable evaluating device) |
| Performance level (PL) | e (In conjunction with suitable evaluating device) |

Safety data: IEC 61508 - High demand

| | |
|------------------------------|--|
| Safety Integrity Level (SIL) | 3 (In conjunction with suitable evaluating device) |
|------------------------------|--|

Safety data: IEC 61508 - Low demand

| | |
|------------------------------|--|
| Safety Integrity Level (SIL) | 3 (In conjunction with suitable evaluating device) |
|------------------------------|--|

Safety data: EN IEC 62061

| | |
|------------------------------|--|
| Safety Integrity Level (SIL) | 3 (In conjunction with suitable evaluating device) |
|------------------------------|--|

Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Min. degree of protection of inst. location | IP54 |
| Ambient temperature (operation) | -20 °C ... 55 °C (observe derating) |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Maximum altitude | max. 2000 m (Above sea level) |
| Max. permissible humidity (storage/transport) | 75 % (on average, 85% infrequently, non-condensing) |
| Max. permissible relative humidity (operation) | 75 % (on average, 85% infrequently, non-condensing) |
| Shock | 15g |
| Vibration (operation) | 10 Hz ... 150 Hz, 2g |

Approvals

CE

| | |
|----------------|--------------|
| Identification | CE-compliant |
|----------------|--------------|

Standards and regulations

Air clearances and creepage distances between the power circuits

| | |
|-----------------------|-------------|
| Standards/regulations | IEC 60664-1 |
|-----------------------|-------------|

Mounting

| | |
|-----------------------|------------------------|
| Mounting type | DIN rail mounting |
| Assembly instructions | See derating curve |
| Mounting position | vertical or horizontal |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27371819 |
| ECLASS-13.0 | 27371819 |
| ECLASS-12.0 | 27371819 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001449 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122200 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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