

# Extension module - PSR-SPP- 24UC/URM/3X1/3X2 - 2981842

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Universal safety relay positively driven contact, 3 N/O contacts, 3 N/C contacts, plug-in terminal blocks with spring-cage connection, width: 22.5 mm

The figure shows a version with a screw connection

## Product Features

- Like all PSR safety relays, equipped with forcibly guided contacts according to EN 50205
- Single-channel control



## Key commercial data

<b>package_quantity</b>	1
<b>GTIN</b>	4046356138611

## Technical data

### Dimensions

<b>Width</b>	22.5 mm
<b>Height</b>	112 mm
<b>Depth</b>	114.5 mm

### Ambient conditions

<b>Ambient temperature (operation)</b>	-20 °C ... 55 °C
<b>Ambient temperature (storage/transport)</b>	-40 °C ... 70 °C

### Input data

<b>Nominal input voltage <math>U_N</math></b>	24 V AC/DC
<b>Input voltage range in reference to <math>U_N</math></b>	0.85 ... 1.1
<b>Typical input current at <math>U_N</math></b>	45 mA
<b>Typical response time</b>	15 ms
<b>Typical release time</b>	15 ms

### Output data

<b>Contact type</b>	3 N/O contacts
<b>Contact type</b>	3 N/C contacts
<b>Contact material</b>	AgSnO <sub>2</sub>
<b>Maximum switching voltage</b>	250 V AC/DC

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### Technical data

#### Output data

Minimum switching voltage	15 V AC/DC
Limiting continuous current	6 A (N/O contact)
Limiting continuous current	6 A (N/C contact)
Maximum inrush current	6 A
Inrush current, minimum	25 mA
Sq. Total current	$48 \text{ A}^2 (I_{TH}^2 = I_1^2 + I_2^2 + \dots + I_N^2)$
Interrupting rating (ohmic load) max.	144 W (24 V DC, $\tau = 0 \text{ ms}$ )
Interrupting rating (ohmic load) max.	288 W (48 V DC, $\tau = 0 \text{ ms}$ )
Interrupting rating (ohmic load) max.	77 W (110 V DC, $\tau = 0 \text{ ms}$ )
Interrupting rating (ohmic load) max.	88 W (220 V DC, $\tau = 0 \text{ ms}$ )
Interrupting rating (ohmic load) max.	1500 VA (250 V AC, $\tau = 0 \text{ ms}$ )
Maximum interrupting rating (inductive load)	(24 V DC, $\tau = 40 \text{ ms}$ )
Maximum interrupting rating (inductive load)	(48 V DC, $\tau = 40 \text{ ms}$ )
Maximum interrupting rating (inductive load)	(110 V DC, $\tau = 40 \text{ ms}$ )
Maximum interrupting rating (inductive load)	(220 V DC, $\tau = 40 \text{ ms}$ )
Switching capacity min.	0.4 W
Output fuse	10 A gL/gG NEOZED (N/O contact)
Output fuse	4 A gL/gG NEOZED (N/C contact)

#### General

Relay type	Electromechanically forcibly guided, dust-proof relay.
Mechanical service life	Approx. $10^7$ cycles
Mounting position	Any
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 the input circuit and the output (13/14, 23/24, 33/34).)
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.	1.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	1.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	16
Stripping length	8 mm
Connection method	Spring-cage conn.

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## classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371901
eCl@ss 5.1	27371901
eCl@ss 6.0	27371819
eCl@ss 7.0	27371819
eCl@ss 8.0	27371819

### ETIM

ETIM 2.0	EC001449
ETIM 3.0	EC001449
ETIM 4.0	EC001449
ETIM 5.0	EC001449

### UNSPSC

UNSPSC 6.01	30211901
UNSPSC 7.0901	39121501
UNSPSC 11	39121501
UNSPSC 12.01	39121501
UNSPSC 13.2	39121501

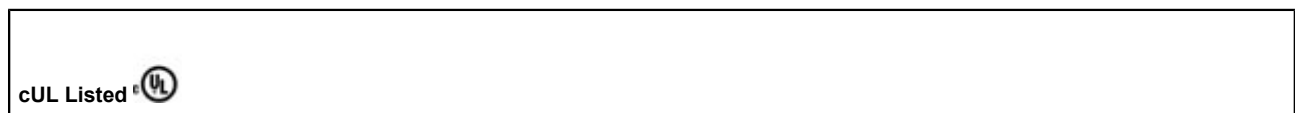
## approvals

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UL Listed / GOST / cUL Listed / cULus Listed /

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### Approval details



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## Drawings

### Circuit diagram

