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## 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

Packing unit	1 pc
Weight per Piece (excluding packing)	160.0 GRM
Custom tariff number	85364900
Country of origin	Germany

### Technical data

#### Dimensions

Width	22.5 mm
Height	112 mm
Depth	114.5 mm

#### Ambient conditions

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

#### 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 $U_N$	45 mA

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### Technical data

#### Input data

Typical response time	15 ms
Typical release time	15 ms
Status display	Green LED

#### Output data

Contact type	3 N/O contacts
	3 N/C contacts
Contact material	AgSnO <sub>2</sub>
Minimum switching voltage	15 V AC/DC
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A (N/O contact)
	6 A (N/C contact)
Inrush current, minimum	25 mA
Maximum inrush current	6 A
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, $\tau = 0 \text{ ms}$ )
	288 W (48 V DC, $\tau = 0 \text{ ms}$ )
	77 W (110 V DC, $\tau = 0 \text{ ms}$ )
	88 W (220 V DC, $\tau = 0 \text{ ms}$ )
	1500 VA (250 V AC, $\tau = 0 \text{ ms}$ )
Maximum interrupting rating (inductive load)	24 V DC, $\tau = 40 \text{ ms}$
	48 V DC, $\tau = 40 \text{ ms}$
	110 V DC, $\tau = 40 \text{ ms}$
	220 V DC, $\tau = 40 \text{ ms}$
Switching capacity min.	0.4 W
Output fuse	10 A gL/gG NEOZED (N/O contact)
	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 type	DIN rail mounting
Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Mounting position	any
Designation	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178/VDE 0160

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### Technical data

#### General

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 connection

### 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

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## Approvals

Approvals

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Approvals

UL Listed / GOST / cUL Listed / cULus Listed

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Ex Approvals

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Approvals submitted

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## Approval details

UL Listed

GOST

cUL Listed

cULus Listed

## Drawings

Circuit diagram



