

# Extension module - PSR-SCF-120UC/URM/2X21 - 2981376

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Universal safety relay with forcibly guided contacts, two PDT contacts, for  $U_N$  120 V AC/DC

The illustration shows a version of the product in a 24 V design

## Product Features

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



## Key commercial data

package_quantity	10
GTIN	4017918952907

## Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	17.5 mm
Height	75 mm
Depth	60.5 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

### Input data

Nominal input voltage $U_N$	120 V AC/DC
Input voltage range in reference to $U_N$	0.85 ... 1.1
Typical input current at $U_N$	9 mA
Typical response time	10 ms
Typical release time	10 ms

### Output data

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### Technical data

#### Output data

<b>Contact type</b>	2 PDT
<b>Contact material</b>	AgNi
<b>Maximum switching voltage</b>	250 V AC/DC
<b>Minimum switching voltage</b>	15 V AC/DC
<b>Limiting continuous current</b>	5 A (N/O contact)
<b>Limiting continuous current</b>	3.5 A (N/C contact)
<b>Maximum inrush current</b>	6 A
<b>Inrush current, minimum</b>	10 mA
<b>Interrupting rating (ohmic load) max.</b>	144 W (24 V DC, $\tau = 0$ ms)
<b>Interrupting rating (ohmic load) max.</b>	288 W (48 V DC, $\tau = 0$ ms)
<b>Interrupting rating (ohmic load) max.</b>	88 W (110 V DC, $\tau = 0$ ms)
<b>Interrupting rating (ohmic load) max.</b>	110 W (220 V DC, $\tau = 0$ ms)
<b>Interrupting rating (ohmic load) max.</b>	1500 VA (250 V AC, $\tau = 0$ ms)
<b>Maximum interrupting rating (inductive load)</b>	(on request)
<b>Switching capacity min.</b>	0.24 W
<b>Output fuse</b>	6 A gL/gG NEOZED (N/O contact)
<b>Output fuse</b>	4 A gL/gG NEOZED (N/C contact)

#### General

<b>Relay type</b>	Electromechanically forcibly guided, dust-proof relay.
<b>Mechanical service life</b>	Approx. $10^7$ cycles
<b>Mounting position</b>	Any
<b>Name</b>	Air and creepage distances between the power circuits
<b>Standards/regulations</b>	DIN EN 50178/VDE 0160
<b>Standards/regulations</b>	EN 50205
<b>Rated surge voltage / insulation</b>	4 kV / Basic isolation, (safe isolation, reinforced insulation and 6 kV between input circuit and enabling current paths.)
<b>Rated insulation voltage</b>	250 V
<b>Pollution degree</b>	2
<b>Surge voltage category</b>	III

#### Connection data

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

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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

UL Listed / GOST / cUL Listed / cULus Listed /

### Approval details

UL Listed 

GOST 

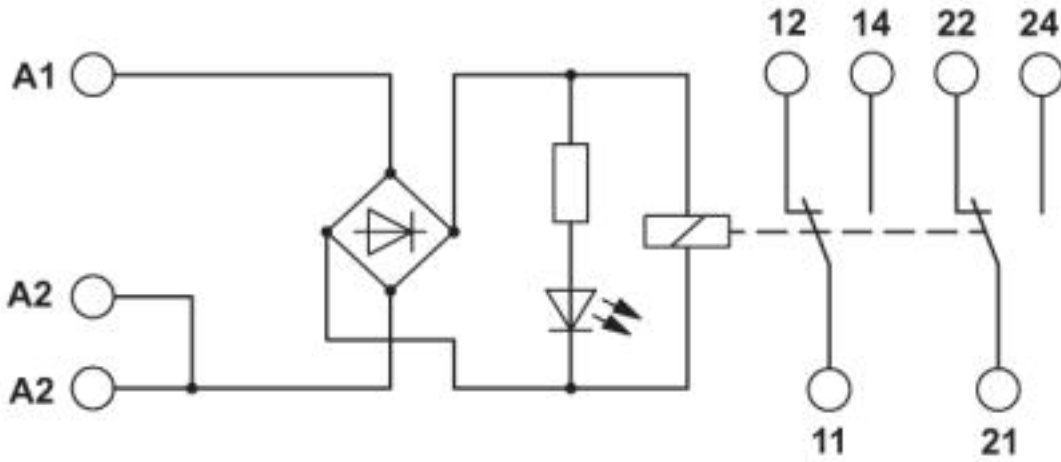
cUL Listed 

cULus Listed 

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## Drawings

### Circuit diagram



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