

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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


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

### Why buy this product

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



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 952907
GTIN	4017918952907
Weight per Piece (excluding packing)	62.000 g
Custom tariff number	85364900
Country of origin	Germany

### Technical data

#### Note

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

#### Dimensions

Width	17.5 mm
Height	75 mm
Depth	60.5 mm

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

### Technical data

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Shock	15g
Vibration (operation)	10 Hz ... 150 Hz, 2g
Maximum altitude	≤ 2000 m (Above sea level)

#### 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

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

#### General

Relay type	Electromechanical relay with forcibly guided contacts in accordance with EN 50205
Mechanical service life	Approx. $10^7$ cycles
Nominal operating mode	100% operating factor

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

### Technical data

#### General

Net weight	61.97 g
Mounting type	DIN rail mounting
Mounting position	any
Degree of protection	IP20
Housing color	green

#### Connection data

Connection method	Screw connection
pluggable	no
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 flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3

#### Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178/VDE 0160
	EN 50205
Rated insulation voltage	250 V
Rated surge voltage/insulation	4 kV / Basic isolation, (safe isolation, reinforced insulation and 6 kV between input circuit and enabling current paths.)
Degree of pollution	2
Overvoltage category	III
Shock	15g
Vibration (operation)	10 Hz ...150 Hz, 2g

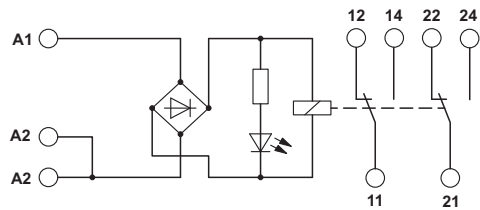
#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

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

Circuit diagram



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	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001449
ETIM 3.0	EC001449
ETIM 4.0	EC001449
ETIM 5.0	EC001437
ETIM 6.0	EC001437

UNSPSC

UNSPSC 6.01	30211901
UNSPSC 7.0901	39121501
UNSPSC 11	39121501
UNSPSC 12.01	39121501
UNSPSC 13.2	39122334

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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

### Approvals

---

Ex Approvals

---

#### Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm>

FILE E 140324

cUL Listed



<http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm>

FILE E 140324

EAC



EAC-Zulassung

cULus Listed

