

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 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	10 STK
GTIN	 4 017918 952907
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
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Maximum altitude	≤ 2000 m (Above sea level)

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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
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	15 V AC/DC
Limiting continuous current	5 A (N/O contact)
	3.5 A (N/C contact)
Maximum inrush current	6 A
Inrush current, minimum	10 mA
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
Mechanical service life	Approx. 10^7 cycles
Switching capacity (360/h cycles)	6 A (24 V DC; N/O contact)
	3 A (230 V AC; N/O contact)
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
Nominal operating mode	100% operating factor
Net weight	61.97 g
Mounting position	any
Mounting type	DIN rail mounting
Degree of protection	IP20
Housing color	green

Connection data

Connection method	Screw connection
pluggable	no
Conductor cross section solid min.	0.2 mm ²

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Connection data

Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3

Standards and Regulations

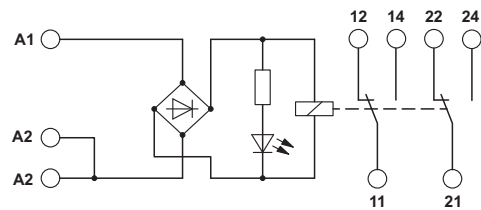
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178/VDE 0160
	EN 50205
Rated insulation voltage	250 V
Rated surge voltage/insulation	4 kV / Basic isolation, (safe isolation, reinforced insulation and 6 kV between input circuit and enabling current 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

Circuit diagram



Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / EAC / Functional Safety / Functional Safety / cULus Listed

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Approvals

Ex Approvals

Approval details

UL Listed



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

FILE E 140324

cUL Listed



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

FILE E 140324

EAC



EAC-Zulassung

EAC



RU C-
DE.A*30.B.01082

Functional Safety



968/EL 649.01/15

Functional Safety



968/EL 649.01/15

cULus Listed



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