

PSR-SCP-120UC/URM/5X1/2X2

Order No.: 2981402



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Universal safety relay with forcibly guided contacts, 5 N/O contacts, 2 N/C contacts, single-channel, plug-in terminal blocks with screw connection, width: 22.5 mm



Commercial data	
EAN	 4 017918 944179
sales group	G542
Pack	1 Pcs.
Customs tariff	85364900
Gross weight in pieces	0.2024 KG
Net weight per piece	0.2024 KG
Catalog page information	Page 97 (C-8-2013)

Product notes

WEEE/RoHS-compliant since:
11/23/2006



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Technical data	
Dimensions	
Width	22.5 mm
Height	99 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	120 V AC/DC
Input voltage range in reference to U_N	0.8 ... 1.1
Typical input current at U_N	11 mA
Typical response time	20 ms
Typical release time	20 ms
Status display	Green LED

Output data

Contact type	5 N/O contacts 2 N/C contacts
Contact material	AgSnO ₂ , + 0.2 µm Au
Minimum switching voltage	15 V AC/DC
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
Inrush current, minimum	25 mA
Maximum inrush current	6 A
Sq. Total current	$72 \text{ A}^2 (I_{TH}^2 = I_1^2 + I_2^2 + \dots + I_5^2)$
Interrupting rating (ohmic load) max.	144 W (24 V DC, $\tau = 0 \text{ ms}$) 288 W (48 V DC, $\tau = 0 \text{ ms}$) 110 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)	42 W (24 V DC, $\tau = 40 \text{ ms}$) 42 W (48 V DC, $\tau = 40 \text{ ms}$) 42 W (110 V DC, $\tau = 40 \text{ ms}$) 42 W (220 V DC, $\tau = 40 \text{ ms}$)
Switching capacity min.	0.4 W
Output fuse	6 A fast blow C6 (24 V AC/DC) automatic device

General

Relay type	Electromechanically forcibly guided, dust-proof relay.
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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
Stop category	0
Designation	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178/VDE 0160
	EN 50205
Rated surge voltage / insulation	4 kV / basic isolation (safe isolation, increased isolation and 6 kV between A1/A2, 13/14, 23/24, 33/34 and 43/44, 53/54, 61/62, 71/72.)
Rated insulation voltage	250 V
Pollution degree	2
Surge voltage category	III

Connection data

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

Certificates / Approvals



Certification

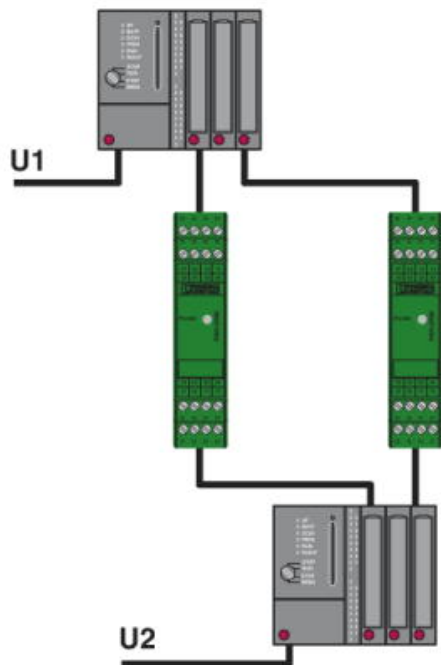
cULus Listed, GOST

Certifications applied for:

Certification Ex:

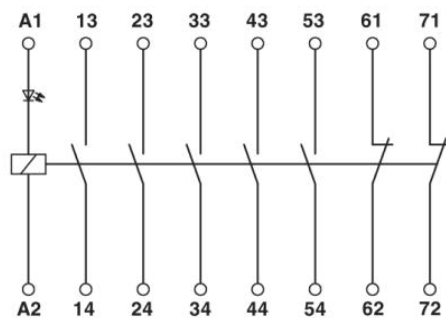
Drawings

Application drawing



Reliable signal exchange between two systems with confirmation function.

Circuit diagram



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