

PSR-SPP- 24UC/ESA2/4X1/1X2/B

Order No.: 2963954



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1-channel safety relay for emergency off and safety door circuits, 4 N/O contacts, 1 N/C contact, undelayed, automatic and manual start for category 2 / EN 954-1, pluggable connecting terminal blocks, width: 22.5 mm

Commercial data	
EAN	4017918904821
Pack	1 Pcs.
Customs tariff	85364900
Weight/Piece	0.2524 KG
Catalog page information	Page 21 (IF-2007)

Product notes

WEEE/RoHS-compliant since: 11/27/2007



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Technical data

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	140 mA AC
	65 mA DC
Voltage at input/start and feedback circuit	Approx. 24 V DC
Typical response time	65 ms
Typical release time	45 ms
Recovery time	1 s
Max. permissible overall conductor resistance	Approx. 22 Ω (Input and start circuits at U_N)

Output data

Contact type	4 enabling current paths, 1 signaling current path
Contact material	AgSnO ₂ , + 0.2 μ m Au
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	15 V AC/DC
Limiting continuous current	6 A (N/O contact)
	3 A (N/C contact)
Maximum inrush current	6 A
Inrush current, minimum	25 mA
Sq. Total current	$72 \text{ A}^2 (I_{TH}^2 = I_1^2 + I_2^2 + I_3^2 + I_4^2)$
Interrupting rating (ohmic load) max.	144 W (24 V DC, $\tau = 0$ ms, N/C contact 51/52: 72 W)
	288 W (48 V DC, $\tau = 0$ ms, N/C contact 51/52: 144 W)
	110 W (110 V DC, $\tau = 0$ ms)
	88 W (220 V DC, $\tau = 0$ ms)
	1500 VA (250 V AC, $\tau = 0$ ms, N/C contact 51/52: 750 VA)
Maximum interrupting rating (inductive load)	42 W (24 V DC, $\tau = 40$ ms)
	42 W (48 V DC, $\tau = 40$ ms)
	42 W (110 V DC, $\tau = 40$ ms)
	42 W (220 V DC, $\tau = 40$ ms)
Switching capacity min.	0.4 W
Output fuse	6 A fast blow
	4 A circuit-breaker C

General data

Length	112 mm
Width	22.5 mm
Height	114.5 mm
Ambient temperature (operation)	-20 °C ... 55 °C

Ambient temperature (storage/transport)	-20 °C ... 70 °C
Service life mechanical	Approx. 10 ⁷ cycles
Mounting position	Any
Category in acc. with EN 954-1	2
Stop category	0
Name	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178/VDE 0160
Rated surge voltage / insulation	4 kV / basic isolation, (safe isolation, increased isolation and 6 kV between input circuit and output contact current paths (N/O) and between N/C and output contact current paths (N/O.)
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.	1.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	16
Stripping length	8 mm
Type of connection	Spring-cage conn.

Certificates / Approvals



Certification

BG, CUL Listed, GOST, UL Listed