

PSR-SCP-42-48UC/ESAM4/3X1/1X2B


Order No.: 2901416



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Safety relay to emergency stop and safety door monitoring up to SIL 3 or Cat. 4, PL e according to EN ISO 13849, one- or two-channel operation, automatically or manually supervised activation, 3 enabling current paths, nominal input voltage 42-48 V AC/DC



Commercial data	
EAN	4  046356 591997
Pack	1 Pcs.
Customs tariff	85364190
Product key	106504
Catalog page information	Page 12 (IF-2011)

Product notes

WEEE/RoHS-compliant since:
01/07/2011



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Technical data

Input data	
Input voltage range	42 V AC/DC ... 48 V AC/DC
Input voltage range in reference to U_N	0.85 ... 1.1
Typical input current at U_N	95 mA

Voltage at input/start and feedback circuit	~ 24 V DC
Typical response time	40 ms (man. start)
Typical pick-up time	330 ms (when controlled via A1)
	20 ms (when controlled via S11/S12 and S21/S22)
Typical release time	90 ms (single-channel)
	20 ms (two-channel)
Concurrence input 1/2	Infinite
Recovery time	1 s
Maximum switching frequency	0.5 Hz
Max. permissible overall conductor resistance	50 Ω

Output data

Contact type	3 enabling current paths
	1 signaling current path
Contact material	AgSnO ₂ , + 0.2 μm Au
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	10 V AC/DC
Limiting continuous current	6 A (N/O contact)
	5 A (N/C contact)
Maximum inrush current	6 A
Inrush current, minimum	10 mA
Sq. Total current	$72 \text{ A}^2 (I_{TH}^2 = I_1^2 + I_2^2 + I_3^2)$
Interrupting rating (ohmic load) max.	144 W (24 V DC, τ = 0 ms)
	230 W (48 V DC, τ = 0 ms)
	68 W (110 V DC, τ = 0 ms)
	88 W (220 V DC, τ = 0 ms)
	2000 VA (250 V AC, τ = 0 ms)
Maximum interrupting rating (inductive load)	48 W (24 V DC, τ = 40 ms)
	40 W (48 V DC, τ = 40 ms)
	35 W (110 V DC, τ = 40 ms)
	35 W (220 V DC, τ = 40 ms)
Switching capacity min.	100 mW
Output fuse	10 A gL/gG NEOZED (N/O contact)
	6 A gL/gG NEOZED (N/C contact)

General data

Width	22.5 mm
Height	99 mm
Depth	114.5 mm
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Mechanical service life	Approx. 10 ⁷ cycles
Mounting position	Any
Category according to EN 13849-1	4
Stop category	0 (undelayed contacts)
Name	Air and creepage distances between the power circuits
Standards/regulations	DIN EN 50178/VDE 0160
Rated surge voltage / insulation	4 kV / basic insulation (safe isolation, reinforced insulation, and 6 kV between A1-A2/logic/enabling and signaling current paths)
Rated insulation voltage	250 V AC
Pollution degree	2
Surge voltage category	III

Connection data

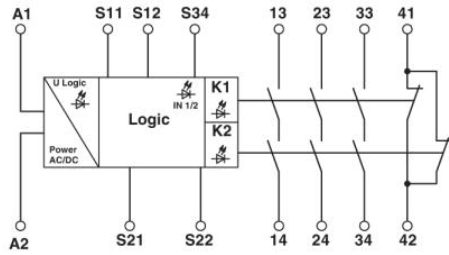
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Connection method	Screw connection

Certificates / Approvals

Certification	GOST, TUEV-RH
Certifications applied for:	UL Listed / CUL Listed

Drawings

Circuit diagram



Connection data incl. use groups



Address

Nanjing Phoenix Contact Co. Ltd.
No. 36 Phoenix Road - Jiangning Development Zone /
P.O. Box 236 Jiangning Nanjing
CN-211100 Nanjing, China
Phone +86/25-5212-1888
Fax +86/25-5212-1999 or 1555
<http://www.phoenixcontact.com.cn>



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