

Safety device - PSR-SPP- 24DC/RSM4/4X1-KOC - 2903243

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Two-channel speed and downtime monitor up to SIL 3 or Cat. 4, PL e according to EN ISO 13849, 4 N/O contacts, suitable for connecting initiators, plug-in spring-cage terminal blocks, width: 45 mm

The illustration shows version PSR-SCP-24DC/RSM4/4X1

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	360.0 GRM
Custom tariff number	90328900
Country of origin	Germany

Technical data

Note

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

Width	45 mm
Height	112 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	24 V DC
Input voltage range in reference to U_N	0.85 ... 1.1
Typical input current at U_N	100 mA
Voltage at input/start and feedback circuit	24 V DC
Typical response time	15 ms
Typical release time	12 ms

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Input data

Recovery time	1 s
Status display	Green LED
Limit frequency	1 kHz (IN1, IN2)
	400 kHz (RJ45)

Output data

Contact type	4 enabling current paths
Contact material	AgNi10, + 5 µm Au
Minimum switching voltage	100 mV AC/DC
Maximum switching voltage	250 V AC/DC (when the gold layer is destroyed)
	60 V AC/DC (With gold layer existing)
Limiting continuous current	5 A
	100 mA (alarm outputs)
Inrush current, minimum	1 mA
Maximum inrush current	6 A
Sq. Total current	$42.25 \text{ A}^2 (I_{TH}^2 = I_1^2 + I_2^2 + I_3^2 + I_4^2)$
Interrupting rating (ohmic load) max.	67 W (24 V DC, $\tau = 0 \text{ ms}$)
	36 W (48 V DC, $\tau = 0 \text{ ms}$)
	43 MW (110 V DC, $\tau = 0 \text{ ms}$)
	68 MW (220 V DC, $\tau = 0 \text{ ms}$)
Switching capacity min.	1 mW
Output fuse	6 A gL

General

Relay type	Electromechanically forcibly guided, dust-proof relay.
Mechanical service life	> 50 x 10 ⁶ cycles
Mounting type	DIN rail mounting
Assembly instructions	In rows with zero spacing
Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Mounting position	any
Category according to EN 13849-1	4
Stop category	0
Designation	Air and creepage distances between the power circuits
Standards/regulations	EN 60664/VDE 0110
Rated surge voltage / insulation	4 kV / Basic isolation, (safe isolation, reinforced insulation and 6 kV between input circuit and enabling current paths.)
Rated insulation voltage	250 V

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General

Pollution degree	2
Surge voltage category	III
Interfaces	Encoder

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
Connection method	Spring-cage connection

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	27371819

ETIM

ETIM 3.0	EC001449
ETIM 4.0	EC001449
ETIM 5.0	EC001449

UNSPSC

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

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Approvals

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Functional Safety

Ex Approvals

Approvals submitted

Approval details

Functional Safety
