

PSR-SPP- 24DC/RSM4/4X1-KOC - Safety relay module



2903243

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2-channel over-speed and zero-speed safety relay up to SIL 3 or Cat. 4, PL e in accordance with EN ISO 13849, 4 N/O contacts, suitable for connecting initiators, width: 45 mm, plug-in Push-in terminal block

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

Commercial data

Item number	2903243
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DNA242
GTIN	4046356728782
Weight per piece (including packing)	361.3 g
Weight per piece (excluding packing)	361.3 g
Customs tariff number	90328900
Country of origin	DE

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Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Safety device
Application	Over-speed safety relay
	Zero-speed safety relay
Control	2-channel
Mechanical service life	> 50x 10 ⁶ cycles
Relay type	Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3

Insulation characteristics: Air clearances and creepage distances between the power circuits

Overvoltage category	III
Degree of pollution	2

Electrical properties

Maximum power dissipation for nominal condition	2.4 W
Nominal operating mode	100% operating factor
Interfaces	Encoder
	Initiator connection

Air clearances and creepage distances between the power circuits

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.)

Input data

General

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

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Output data

Contact switching type	4 enabling current paths
Contact material	AgNi10, + 5 µm Au
Maximum switching voltage	250 V AC/DC (when the gold layer is destroyed) 60 V AC/DC (with gold layer existing)
Minimum switching voltage	100 mV AC/DC
Limiting continuous current	5 A 100 mA (alarm outputs)
Maximum inrush current	6 A
Inrush current, minimum	1 mA
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 power min.	1 mW
Switching capacity (3600/h cycles)	2 A (24 V (DC13)) 3 A (230 V (AC15))
Output fuse	6 A gL

Connection data

Connection technology

pluggable	yes
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Conductor connection

Connection method	Push-in connection
Conductor cross-section, rigid	0.2 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross-section AWG	24 ... 16
Stripping length	8 mm

Dimensions

Width	45 mm
Height	112 mm
Depth	114.5 mm

Material specifications

Color	yellow
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Characteristics

Safety data

Stop category (EN 60204-1)	0
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Safety data: EN ISO 13849

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Performance level (PL)	e
Safety data: IEC 61508 - High demand	
Safety Integrity Level (SIL)	3
Safety data: IEC 61508 - Low demand	
Safety Integrity Level (SIL)	3
Safety data	
Safety Integrity Level (SIL)	3

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Maximum altitude	≤ 2000 m (Above sea level)

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	EN 60664/VDE 0110
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Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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