

2981046
<https://www.phoenixcontact.com/us/products/2981046>

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Single or two-channel contact extension, 5 N/O contacts, 1 N/C contact, 1 confirmation current path, width: 22.5 mm, pluggable Push-in terminal block

Your advantages

- 1- and 2-channel control
- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508

Commercial data

Item number	2981046
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN01
Product key	DNA152
Catalog page	Page 232 (C-6-2019)
GTIN	4017918915520
Weight per piece (including packing)	207.4 g
Weight per piece (excluding packing)	20.4 g
Customs tariff number	85371098
Country of origin	DE

PSR-SPP- 24UC/URM4/5X1/2X2/B - Extension module



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Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Safety relays
Product family	PSRclassic
Application	Extension module
Mechanical service life	10x 10 ⁶ cycles
Relay type	Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3

Data management status

Article revision	07
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Electrical properties

Maximum power dissipation for nominal condition	2.21 W
Nominal operating mode	100% operating factor

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage/insulation	Basic insulation 4 kV: between all current paths and housing Safe isolation, reinforced insulation 6 kV: between A1/A2, 11/12, 23/24, 71/72 and 33/34, 43/44, 53/54, 63/64

Supply

Rated control circuit supply voltage U_S	24 V AC/DC -15 % / +10 %
Rated control supply current I_S	typ. 81 mA (AC)
	typ. 71 mA (DC)
Power consumption at U_S	typ. 1.94 W (AC)
	typ. 1.7 W (DC)
Inrush current	typ. 175 mA ($\Delta t = 5$ ms at U_S)
Filter time	2 ms (at A1 in the event of voltage dips at U_S)
Protective circuit	Surge protection; Varistor

Output data

Relay: Enabling current paths (23/24 ... 63/64)

Number of outputs	5
Contact switching type	5 enabling current paths
Contact material	AgSnO ₂
Switching voltage	min. 5 V AC/DC

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	max. 250 V AC/DC
Switching capacity	min. 50 mW
Inrush current	min. 10 mA
	max. 20 A ($\Delta t \leq 100$ ms)
Switching capacity in accordance with IEC 60947-5-1	2.5 A (24 V (DC13))
	3 A (230 V (AC15))
Switching capacity (360/h cycles)	4 A (24 V DC)
	4 A (230 V AC)
Limiting continuous current	6 A (observe derating)
Sq. Total current	72 A ² (observe derating)
Switching frequency	max. 1 Hz
Interrupting rating (ohmic load) max.	Observe derating and load limit curve
Maximum interrupting rating (inductive load)	Observe derating and load limit curve
Output fuse	10 A gL/gG

Relay: Signaling current path (71/72)

Number of outputs	1
Contact switching type	1 signaling current path
Contact material	AgSnO ₂
Switching voltage	min. 5 V AC/DC
	max. 250 V AC/DC
Switching capacity	min. 50 mW
Inrush current	min. 10 mA
	max. 20 A ($\Delta t \leq 100$ ms)
Switching capacity in accordance with IEC 60947-5-1	2.5 A (24 V (DC13))
	3 A (230 V (AC15))
Switching capacity (360/h cycles)	4 A (24 V DC)
	4 A (230 V AC)
Limiting continuous current	6 A
Sq. Total current	72 A ²
Switching frequency	max. 1 Hz
Interrupting rating (ohmic load) max.	see load limit curve
Maximum interrupting rating (inductive load)	see load limit curve
Output fuse	6 A (gL/gG)

Relay: Confirmation current path (11/12)

Number of outputs	1
Contact switching type	1 confirmation current path
Contact material	AgSnO ₂
Switching voltage	max. 250 V AC/DC
	min. 5 V AC/DC
Switching capacity	min. 50 mW
Inrush current	max. 20 A ($\Delta t \leq 100$ ms)
Switching capacity in accordance with IEC 60947-5-1	2.5 A (24 V (DC13))
	3 A (230 V (AC15))

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Switching capacity (360/h cycles)	4 A (24 V DC)
	4 A (230 V AC)
Limiting continuous current	6 A
Sq. Total current	72 A ²
Switching frequency	max. 1 Hz
Interrupting rating (ohmic load) max.	see load limit curve
Maximum interrupting rating (inductive load)	see load limit curve
Output fuse	6 A (gL/gG)

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, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 1.5 mm ² (only together with CRIMPFOX 6)
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ² (only together with CRIMPFOX 6)
Conductor cross-section AWG	24 ... 16
Stripping length	8 mm

Signaling

Operating voltage display	1 x green LED
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Dimensions

Width	22.5 mm
Height	112 mm
Depth	114.5 mm

Material specifications

Color (Housing)	yellow (RAL 1018)
Housing material	Polyamide

Characteristics

Safety data

Stop category	0
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Safety data: EN ISO 13849

Category	4 (In conjunction with suitable evaluating device)
Performance level (PL)	e (In conjunction with suitable evaluating device)

Safety data: IEC 61508 - High demand

Safety Integrity Level (SIL)	3 (In conjunction with suitable evaluating device)
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Safety data: IEC 61508 - Low demand

Safety Integrity Level (SIL)	3 (In conjunction with suitable evaluating device)
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Safety data: EN IEC 62061

Safety Integrity Level (SIL)	3 (In conjunction with suitable evaluating device)
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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 (observe derating)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Maximum altitude	max. 2000 m (Above sea level)
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Shock	15g
Vibration (operation)	10 Hz ... 150 Hz, 2g

Approvals

CE

Identification	CE-compliant
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Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	IEC 60664-1
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Mounting

Mounting type	DIN rail mounting
Assembly note	See derating curve
Mounting position	vertical or horizontal

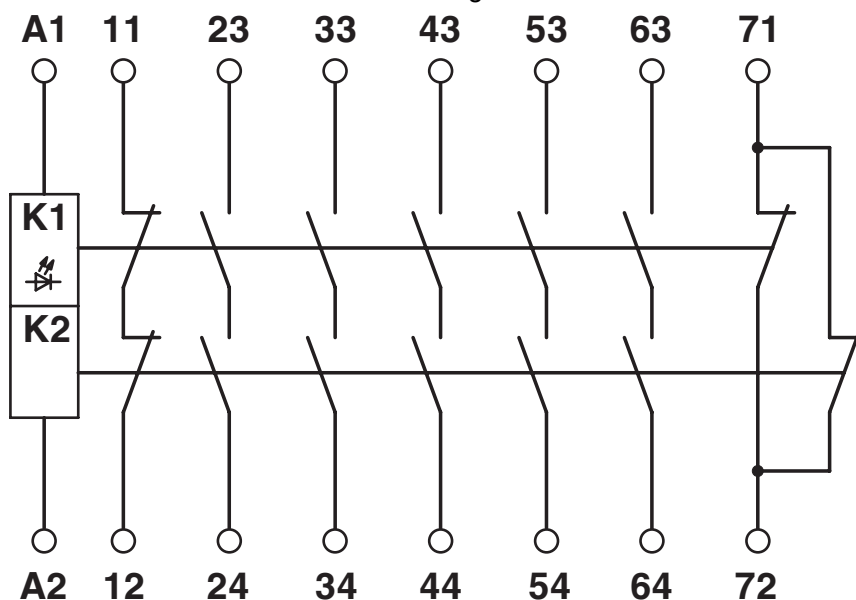
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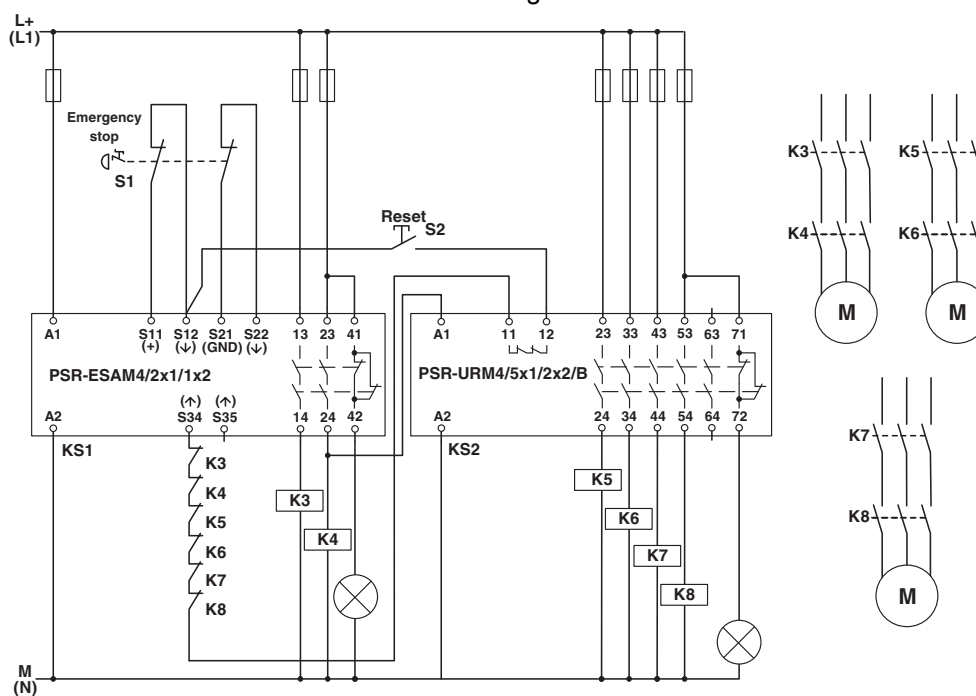
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Drawings

Circuit diagram



Circuit diagram



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Approvals

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EAC

Approval ID: TR TS_D_01838-19



Functional Safety

Approval ID: 968/FSP 1265.02/21



Functional Safety

Approval ID: 968/FSP 1265.02/21



cULus Listed

Approval ID: E140324

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Classifications

ECLASS

ECLASS-11.0	27371819
ECLASS-13.0	27371819
ECLASS-12.0	27371819

ETIM

ETIM 8.0	EC001449
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UNSPSC

UNSPSC 21.0	39122200
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	ef99455f-dd90-451d-b367-bc97d6785ff7
EF3.0 Climate Change	
CO2e kg	3.96 kg CO2e

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