

2981363

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Safe coupling relay with force-guided contacts, 2 changeover contacts, 1-channel, fixed screw terminal block, width: 17.5 mm

Your advantages

- Suitable up to category 1, PL c (EN ISO 13849-1), SIL 1 (EN IEC 62061), SIL 1 (IEC 61508)
- Safe readback due to force-guided signal contact in accordance with EN 50205
- · Easy proof test according to IEC 61508 thanks to integrated signal contact
- 1 or 2-channel control
- 2 changeover contacts (EN 50205 type B)

Commercial data

Item number	2981363
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	DN01
Product key	DNA162
GTIN	4017918946906
Weight per piece (including packing)	61.55 g
Weight per piece (excluding packing)	56.667 g
Customs tariff number	85364900
Country of origin	DE



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Technical data

Product properties

Product type	Coupling relay
Product family	PSRclassic
Application	Safe switch off
	High demand
	Low demand
Control	1 and 2 channel
Mechanical service life	10x 10 ⁶ cycles
Relay type	Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3
Insulation characteristics	
Overvoltage category	III
Degree of pollution	2
Times	
Typ. starting time with U _s	10 ms (with Us / when controlled via A1)
Typical release time	10 ms (with Us / when controlled via A1)
Restart time	< 1 s (Boot time)
Recovery time	< 500 ms

Electrical properties

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Supply

Designation	A1/A2
Rated control circuit supply voltage U_S	24 V AC/DC -15 % / +10 %
Rated control supply current I _S	typ. 30 mA
Power consumption at U _S	typ. 0.72 W
Filter time	1 ms (at A1-A2; test pulse width)
	1 s (at A1-A2; test pulse rate)

Output data

Relay: Relay outputs (11/12/14, 21/22/24)

Output description	safety-related
Number of outputs	2
Contact switching type	2 changeover contacts
Contact material	AgNi
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. 6 A
Limiting continuous current	5 A (N/O contact)
	3.5 A (N/C contact)
Sq. Total current	50 A ²
Switching frequency	max. 0.5 Hz
Mechanical service life	10x 10 ⁶ cycles
Interrupting rating (ohmic load) max.	see load limit curve
Output fuse	6 A gL/gG NEOZED (N/O contact)
	4 A gL/gG NEOZED (N/O contact, low demand)
	4 A gL/gG NEOZED (N/C contact)

Connection data

Connection technology

no
Screw connection
0.2 mm² 2.5 mm²
0.2 mm² 2.5 mm²
24 12
7 mm
M3
0.6 Nm

Signaling

Operating voltage display	1 x yellow LED

Dimensions

Width	17.5 mm
Height	75 mm
Depth	60.5 mm

Material specifications

Color (Housing)	green (RAL 6021)
Housing material	PC

Characteristics

Safetv	data
Saletv	uala

Stop category	0
Safety data: EN ISO 13849	
Category	1



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Performance level (PL)	С			
Safety data: IEC 61508 - High demand				
Safety Integrity Level (SIL)	1			
Safety data: IEC 61508 - Low demand				
Safety Integrity Level (SIL)	1			
Safety data				
Safety Integrity Level (SIL)	1			

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Ambient temperature (operation)	-20 °C 50 °C
Ambient temperature (storage/transport)	-20 °C 70 °C
Maximum altitude	≤ 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	N/O contact: 10g, N/C contact: 5g
Vibration (operation)	10 Hz 150 Hz, amplitude 0.35 mm, 2 g

Approvals

CE

Identification CE-compliant

Mounting

Mounting type	DIN rail mounting
Mounting position	vertical or horizontal



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Drawings

A1 12 14 22 24 PWR A2 A2 11 21

Block diagram



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Approvals

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Classifications

ECLASS

	ECLASS-13.0	27371601			
	ECLASS-15.0	27371601			
	ECLASS-15.0 ASSET	27250101			
ETIM					
	ETIM 9.0	EC001437			
UNSPSC					
	UNSPSC 21.0	39122300			



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)
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	37f55c9f-7a41-4cde-9ed4-046226b658b1
EF3.0 Climate Change	
CO2e kg	1.745 kg CO2e

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