

2900450

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6.2 mm PLC basic terminal block for output functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V AC/DC

Your advantages

· PLC actuator series with solid-state power relays for coupling the controller and actuators, such as motors, contactors, valves, etc.

Commercial data

Item number	2900450
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK62A1
GTIN	4046356512381
Weight per piece (including packing)	28.11 g
Weight per piece (excluding packing)	28.1 g
Customs tariff number	85366990
Country of origin	DE



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Operating voltage display

Protective circuit



Technical data

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Product properties	
Product type	Relay socket
Product family	PLC-INTERFACE
Application	Output function
Operating mode	100% operating factor
Compatible components	Miniature relay, REL-MR-24DC/21, REL-MR-24DC/21AU; miniature optocoupler, OPT-24DC/24DC/2, OPT-24DC/48DC/100, OPT-24DC/230AC/1
nput data	
Nominal input voltage U _N	24 V AC/DC
	The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circuit
Protective circuit	Bridge rectifier
Nominal input voltage U _N	24 V AC/DC
	The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circuit
Relay assembly	
Rated control circuit supply voltage U _S	24 V AC/DC
Voltage range with reference to U _S	0.8 1.2
Typical input current at U _N	15.6 mA (50 Hz)
	8.5 mA (60 Hz)
Typical response time	5 ms
Typical release time	30 ms
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
Optocoupler assembly	
Rated control circuit supply voltage U _S	24 V AC/DC
Voltage range with reference to U_{S}	0.8 1.2
Typical input current at U _N	15 mA (50 Hz)
	8.3 mA (60 Hz)
Typical response time	10 ms
Typical release time	20 ms
Operating valtage display	Volley LED

Yellow LED

Bridge rectifier; Bridge rectifier



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Output data

Compatible components	Miniature relay, REL-MR-24DC/21, REL-MR-24DC/21AU; miniature optocoupler, OPT-24DC/24DC/2, OPT-24DC/48DC/100, OPT-24DC/230AC/1
Maximum switching voltage	33 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A (see derating curve)
Voltage drop at max. limiting continuous current	≤ 150 mV
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection Parallel polarity protection diode
	Surge protection
Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	≤1 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection Parallel polarity protection diode
	Surge protection
Maximum switching voltage	253 V AC
Minimum switching voltage	24 V AC
Limiting continuous current	0.75 A (see derating curve)
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor floating, zero voltage switch
Protective circuit	RCV circuit
Leakage current	≤ 1 mA
Max. load value	$4.5 \text{ A}^2 \text{s} \text{ (tp = 10 ms, at 25 °C)}$

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.14 mm² 2.5 mm²
Conductor cross-section flexible	0.14 mm² 2.5 mm²
	0.2 mm ² 2.5 mm ² (Single ferrule)
	2x 0.5 mm² 1 mm² (TWIN ferrule)
Conductor cross-section AWG	26 14

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94 (Housing)	V0 (Housing)



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Environmental and real-life conditions

Ambient conditions		
Ambient temperature (operation)	-20 °C 60 °C	
Ambient temperature (storage/transport)	-40 °C 85 °C	

Approvals

Approvals			
CE			
Certificate	CE-compliant		
UKCA			
Certificate	UKCA-compliant		
Shipbuilding approval			
Certificate	TAE0000196		
Corrosive gas test			
Identification	ISA-S71.04. G3 Harsh Group		
	EN 60068-2-60		
Shipbuilding data			
Temperature	D		
Humidity	A		
Vibration	B/C		
EMC	В		
Enclosure	Required protection according to the Rules shall be provided upon installation on board		

EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive

Standards and regulations

Mounting

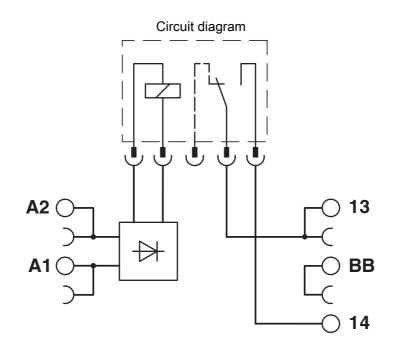
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

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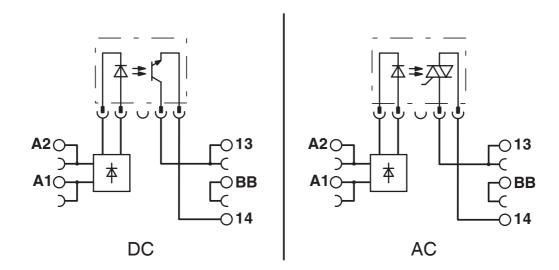
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Drawings



Circuit diagram





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Approvals

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cUL RecognizedApproval ID: E238705



UL RecognizedApproval ID: E238705



EAC

Approval ID: RU D-DE.B*00573/18



DNV GL

Approval ID: TAE0000196



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27371603		
	ECLASS-15.0	27371603		
ETIM				
	ETIM 9.0	EC001456		
UN	NSPSC			

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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	f2608036-99a3-436b-9cbd-b1abad5de81f

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