PLC-BPT- 24UC/ 1/ACT - Relay base

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

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

Input 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 voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier

Output data

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 A^2s (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 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross-section AWG	26 ... 14

Dimensions

Item 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)

Environmental and real-life conditions

Ambient conditions

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

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	B
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

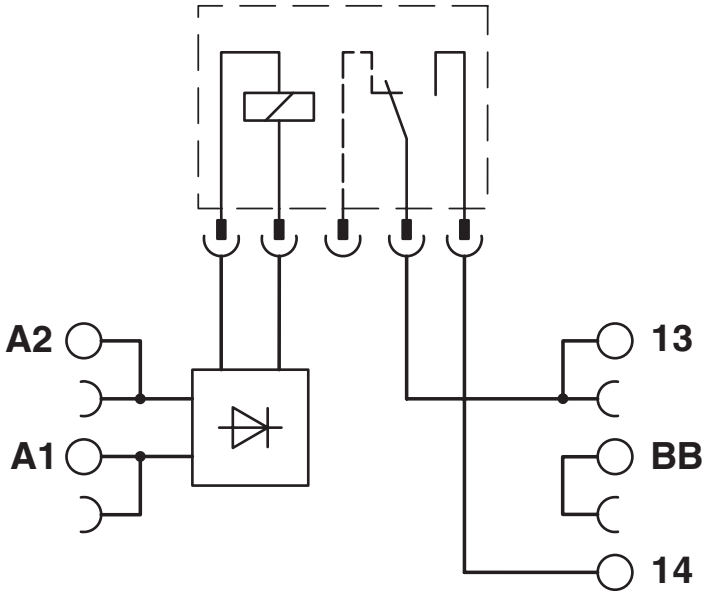
Standards/regulations	IEC/EN 60664-1

Mounting

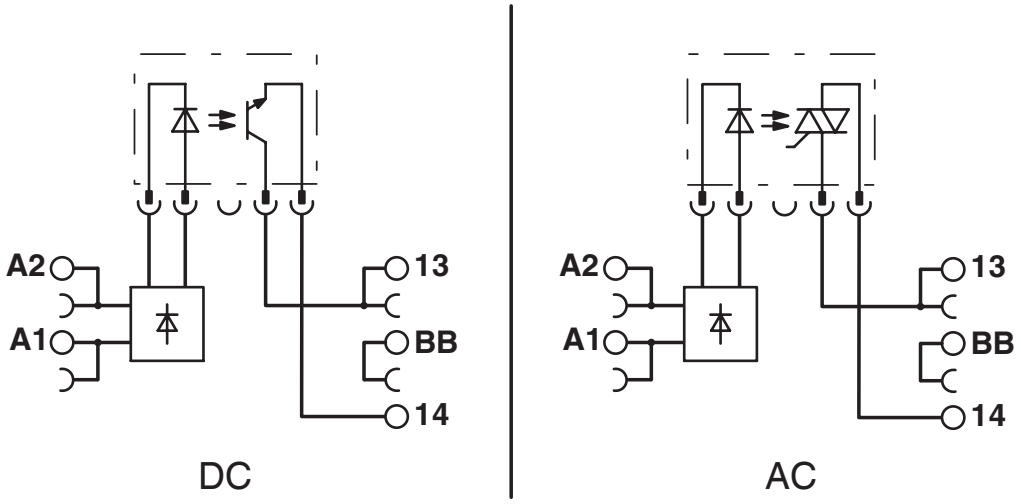
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Circuit diagram



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900450

cUL Recognized
Approval ID: E238705

UL Recognized
Approval ID: E238705

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

DNV
Approval ID: TAE0000196

Classifications

ECLASS

ECLASS-13.0	27371603
ECLASS-15.0	27371603

ETIM

ETIM 10.0	EC001456

UNSPSC

UNSPSC 21.0	39122300

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

EF3.1 Climate Change

CO2e kg	0.494 kg CO2e

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