

PLC-OPT- 24DC/230AC/ 2/ACT - Solid-state relay module



1176854
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PLC-INTERFACE for output functions, consisting of PLC-BPT.../ACT basic terminal block with Push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 24-253 V AC/2 A

Commercial data

Item number	1176854
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	DK62B4
Product key	DK62B4
GTIN	4063151209704
Weight per piece (including packing)	65,32 g
Weight per piece (excluding packing)	56,8 g
Customs tariff number	85364900
Country of origin	DE

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Technical data

Product properties

Product family	PLC-INTERFACE
Application	Output function
Operating mode	100% operating factor

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

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	15.09.2025
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Electrical properties

Test voltage (Input/output)	2.5 kV _{rms} (50 Hz, 1 min.)
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Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

Input data

Rated actuating voltage U_C	24 V DC
Voltage range with reference to U_C	0.8 ... 1.2
Rated actuating current I_C	9 mA
Nominal voltage (plugged-in solid-state relay)	24 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical response time	10 ms
Typical turn-off time	10 ms
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Transmission frequency	10 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	24 V AC ... 253 V AC
Limiting continuous current	2 A (see derating curve)
Min. load current	25 mA
Leakage current	1 mA
Surge current	30 A ($t_p = 10$ ms, 25 °C)
Max. load value	4 A ² s ($t_p = 10$ ms, 25 °C)

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Peak offstate voltage	600 V
Voltage drop at max. limiting continuous current	1 V
Output circuit	2-conductor floating, zero voltage switch
Protective circuit	RC element

Connection data

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

Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay)	IP20
Degree of protection (Installation location)	≤ IP54
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	IEC 60947-5-1
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Mounting

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

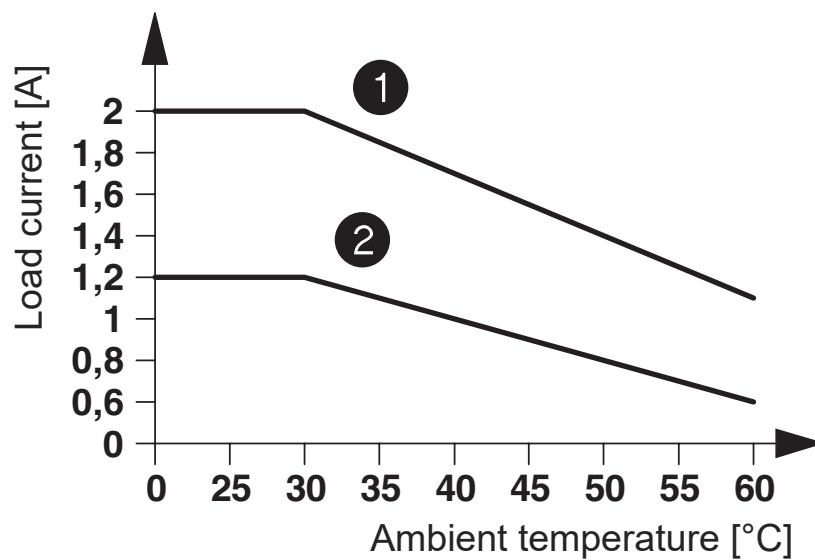
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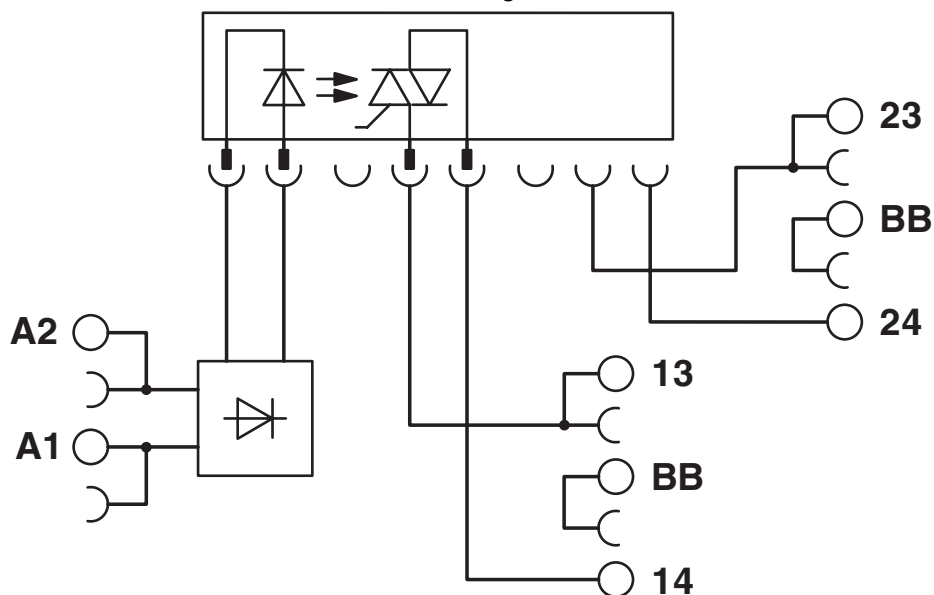
Drawings

Diagram



- ① In rows with 10 mm spacing
- ② In rows with zero spacing

Circuit diagram



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Approvals

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cULus Listed

Approval ID: E140324

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Classifications

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 10.0	EC001504
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UNSPSC

UNSPSC 21.0	39122300
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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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	4e739a2a-754d-4ac6-82c3-7258a584ae51

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