

PLC-SP-ELR W1/ 2-24DC - Reversing load relay



2980555

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PLC-INTERFACE as an electronic reversing load relay, consisting of PLC-BSP.../21 basic terminal block with spring-cage connection and integrated circuit, for driving DC motors, with LED and protective circuit, output: 10 ... 30 V DC/2 A

Your advantages

- Wear-free reversing
- Short-circuit, surge, and overload-proof output
- Braking by controlling both inputs
- Integrated locking circuit and load wiring

Commercial data

Item number	2980555
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	DK7621
GTIN	4046356103954
Weight per piece (including packing)	54.9 g
Weight per piece (excluding packing)	38.9 g
Customs tariff number	85371098
Country of origin	DE

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Technical data

Product properties

Product type	Solid-state contactor
Product family	PLC-INTERFACE
Operating mode	100% operating factor

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

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Number of phases	1
Maximum power dissipation for nominal condition	0.4 W
Mains type	1-phase

Air clearances and creepage distances between the power circuits

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV

Supply

Input name	Device supply
Nominal input voltage U_N	24 V DC $\pm 20\%$ (Control voltage U_{ST} right/left)
Input voltage range	19.2 V DC ... 28.8 V DC
Typical input current at U_N	approx. 3 mA (Control input current I_{ST} right/left)
Rated control circuit supply voltage U_S	24 V DC
Control supply voltage range	19.2 V DC ... 28.8 V DC
Typical response time	200 μ s
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Status display	LED (yellow)
Surge voltage protection	> 33 V DC
Transmission frequency	300 Hz
Switchover time R_L/L_L (turn-on time)	80 ms

Input data

Control

Input name	Control input right/left
Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
Input voltage range in reference to U_N	0.8 ... 1.2

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Output data

Output data

Operating voltage range	10 V DC ... 30 V DC
Nominal output voltage	24 V DC
Nominal output voltage range	10 V DC ... 30 V DC
Load current	2 A
Quiescent current	10 mA
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Surge voltage protection	> 33 V DC
Operating voltage display	Green LED

Motor switching output

Note	Short-circuit and overload protection
Continuous load current	2 A (see derating curve)
Short-circuit current	15 A (during braking)
Protective circuit	Surge protection RC element
Surge voltage protection	> 33 V DC

Connection data

Control circuits

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross-section AWG	26 ... 14

Load circuit

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross-section AWG	26 ... 14

Dimensions

Width	6.5 mm
Height	80 mm
Depth	86 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0

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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	IEC 60664
	EN 50178

Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	Vertical (horizontal DIN rail)

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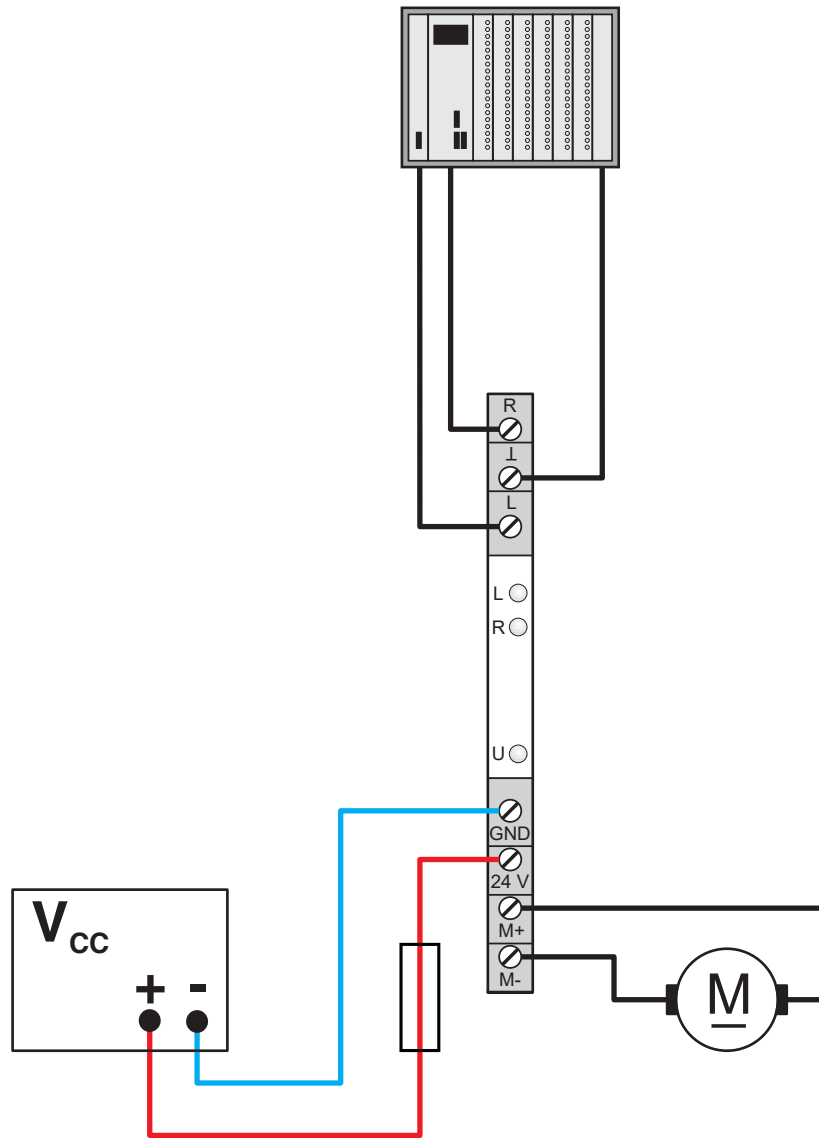


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Drawings

Application drawing

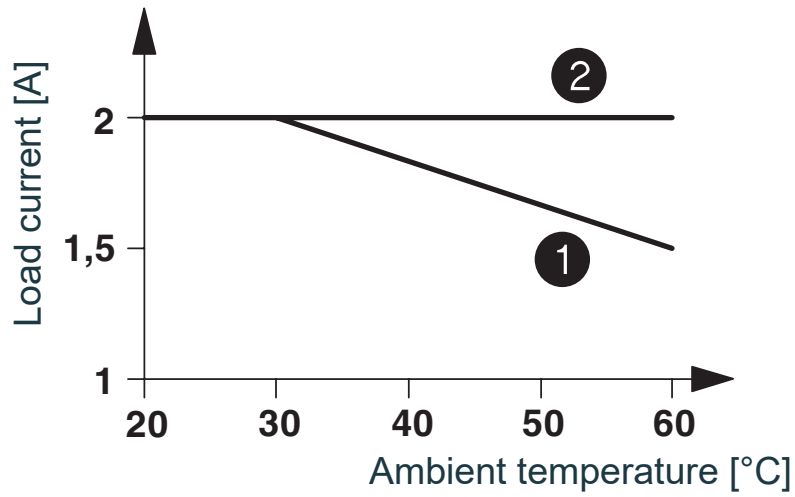


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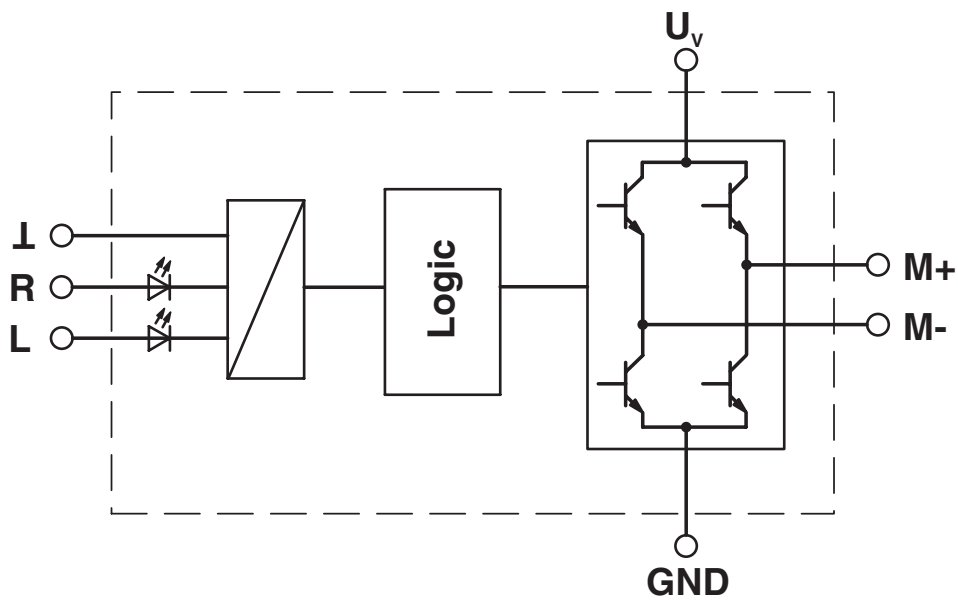
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Diagram



- ① In rows with zero spacing
- ② stand-alone device

Circuit diagram



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Environmental product compliance

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.)	No substance above 0.1 wt%
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com