

CM 90-ELR-W3/5-R - Reversing load relay



2940113

<https://www.phoenixcontact.com/us/products/2940113>

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Electronic reversing load relay, for direct driving of 3-phase equipment in the 3-phase network, with light indicator and protection circuit, output: 400 V AC/ 3 x 5 A

Commercial data

Item number	2940113
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK7222
GTIN	4017918079871
Weight per piece (including packing)	662.9 g
Weight per piece (excluding packing)	622.9 g
Customs tariff number	85364900
Country of origin	DE

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Technical data

Product properties

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

Electrical properties

Number of phases	3
Mains type	3-phase
Test voltage (Input/output)	3.5 kV AC (50 Hz, 60 s)

Supply

Input name	Device supply
Nominal supply voltage	24 V DC
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Switch-over frequency	2.5 Hz (RL / LL)

Input data

Control

Input name	Control input right/left
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Output data

AC output

Nominal output voltage	400 V AC +10 % -20 %
Nominal output voltage range	320 V AC ... 440 V AC
Peak offstate voltage	1000 V
Mains frequency	50 Hz 60 Hz
Continuous load current	3x 5 A (see derating curve)
Load current range	150 mA
Leakage current	7 mA
Residual voltage	1.7 V
Surge current	230 A (t = 10 ms)
Protective circuit	RCV circuit
Surge voltage protection	750 V

Reply output: Alarm Contact

Nominal output voltage	24 V DC +25 % -20 %
Continuous load current	100 mA
Protective circuit	Decoupling diode Free running; Freewheeling diode
Status display	LED

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Reply output: "right / left"

Number of outputs	2
Nominal output voltage	24 V DC +25 % -20 %
Continuous load current	100 mA
Protective circuit	Decoupling diode Free running; Freewheeling diode
Status display	LED

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 14

Load circuit

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 14

Dimensions

Width	90 mm
Height	75 mm
Depth	116 mm

Material specifications

Color	green (RAL 6021)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110
	DIN VDE 0106-101

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	DIN VDE 0160 (in relevant parts)
	IEC 801-5

Mounting

Assembly note	can be aligned with spacing = 20 mm
Mounting position	Vertical (horizontal DIN rail)

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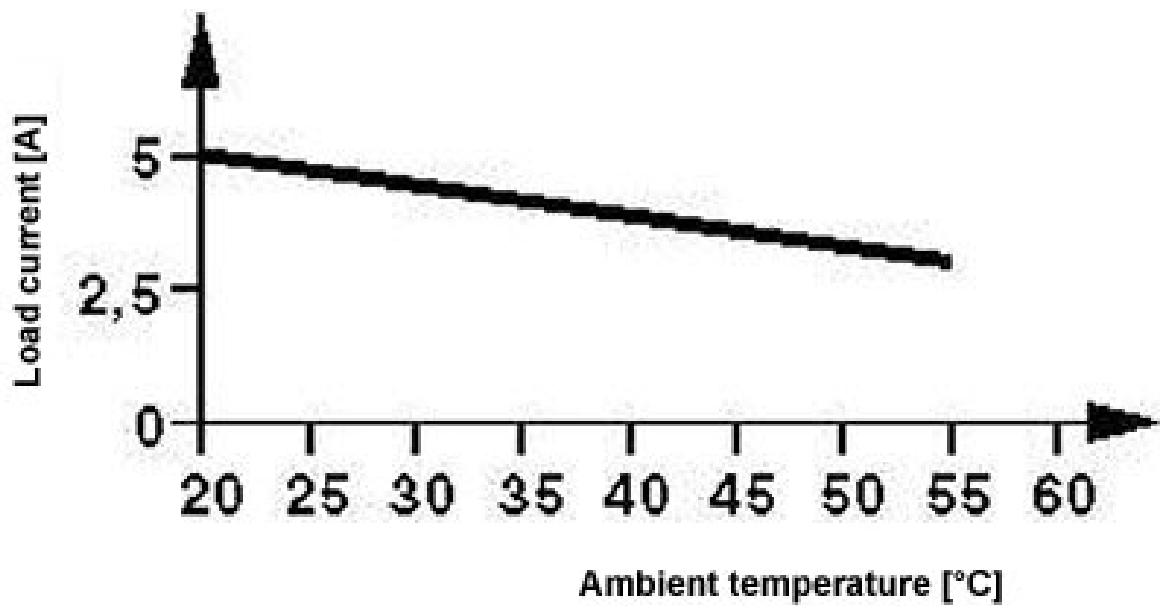


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Drawings

Diagram

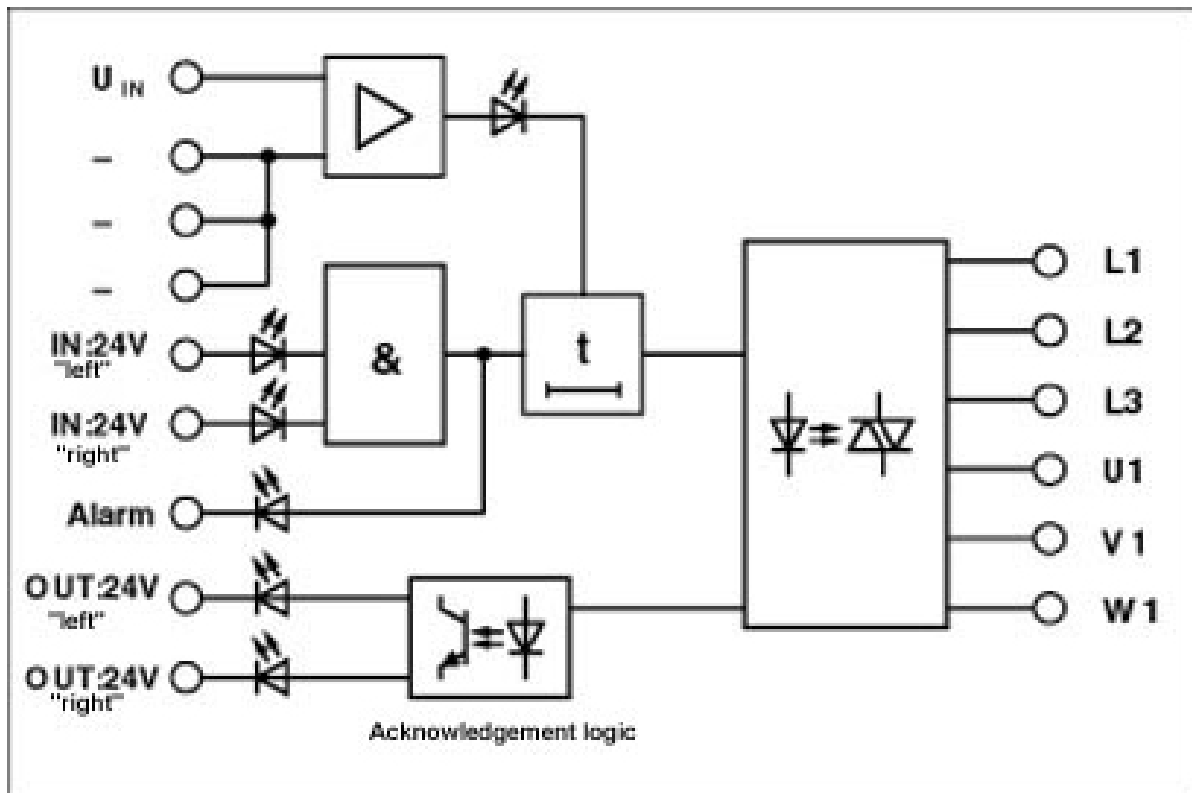


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Circuit diagram



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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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