

ELR W3/ 9-500 - Reversing load relay

2964186

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Electronic reversing load relay, for direct driving of equipment in the 3-phase network, with light indicator and protection circuit, output: 110-550 V AC/3 x 9 A

The figure shows the version ELR W
3/9-400

Your advantages

- High switching frequency
- Noise and wear-free switching up to 500 V AC/9 A
- Protective circuit in input and output
- LEDs for forward and reverse running, operating voltage, and impermissible control

Commercial data

Item number	2964186
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C472
Product key	DK6841
GTIN	4017918099398
Weight per piece (including packing)	778.4 g
Weight per piece (excluding packing)	662.22 g
Customs tariff number	85364900
Country of origin	DE

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Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

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

Electrical properties

Number of phases	3
Maximum power dissipation for nominal condition	13.5 W
Mains type	3-phase
Test voltage (Input/output)	2.5 kV (50 Hz, 60 s)
Reversing frequency	≤ 10 Hz (at $\cos \varphi = 0.5$)

Input data

Control

Input name	Control input right/left
Quiescent current	40 mA
Rated actuating voltage U_C	24 V DC
Triggering voltage range	19.2 V DC ... 30 V DC
Voltage range with reference to U_C	0.8 ... 1.25
	0.8 ... 1.25
Rated actuating current I_C	7.5 mA
Reaction time in normal load operation	50 ms
	50 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
Operating voltage display	Green LED
Error indication	Red LED
Status display	LED (yellow)
Switch-over frequency	< 10 Hz (at $\cos \varphi > 0.5$)
Switchover time R_L/L_L (turn-on time)	20 ms

Output data

AC output

Rated operating voltage U_e	500 V AC
Operating voltage range	110 V AC ... 550 V AC
Peak offstate voltage	1200 V

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Mains frequency	50 Hz
	60 Hz
Load current range	150 mA ... 9 A (see to derating)
Leakage current	typ. 7 mA
Residual voltage	typ. 1.5 V
Surge current	230 A (tp = 10 ms, at 25 °C)
Max. load value	265 A ² s
Protective circuit	RC element; RC element
	Surge protection
Surge voltage protection	> 910 V

Connection data

Control circuits

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 6 mm ²
Conductor cross-section flexible	0.2 mm ² ... 4 mm ²
Conductor cross-section AWG	24 ... 10
Tightening torque	0.5 Nm ... 0.6 Nm

Load circuit

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Dimensions

Width	62 mm
Height	84 mm
Depth	110 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 ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

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Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	EN 50178
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EMC regulations

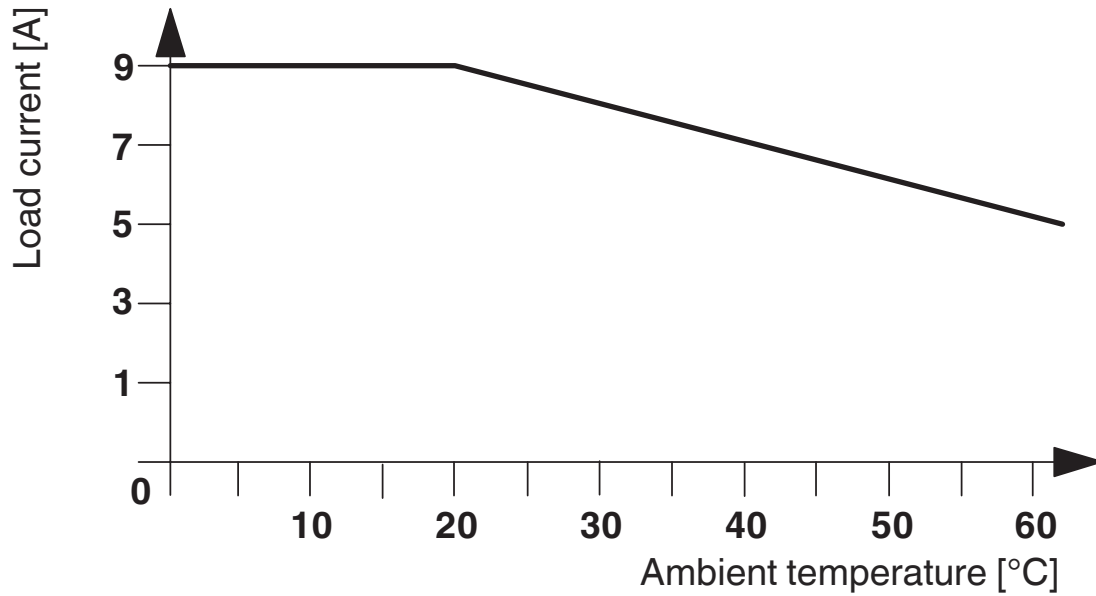
Standards/regulations	EN 61000-6-2
	EN 61000-6-4

Mounting

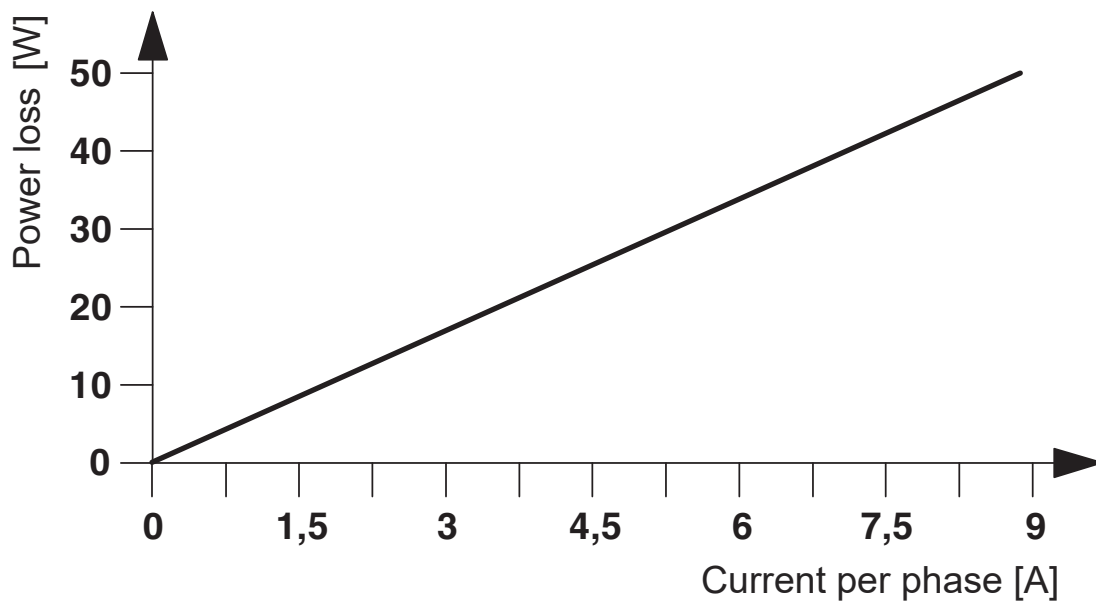
Mounting type	DIN rail mounting
Assembly note	can be aligned with spacing > 20 mm
Mounting position	Vertical (horizontal DIN rail)

Drawings

Diagram



Diagram

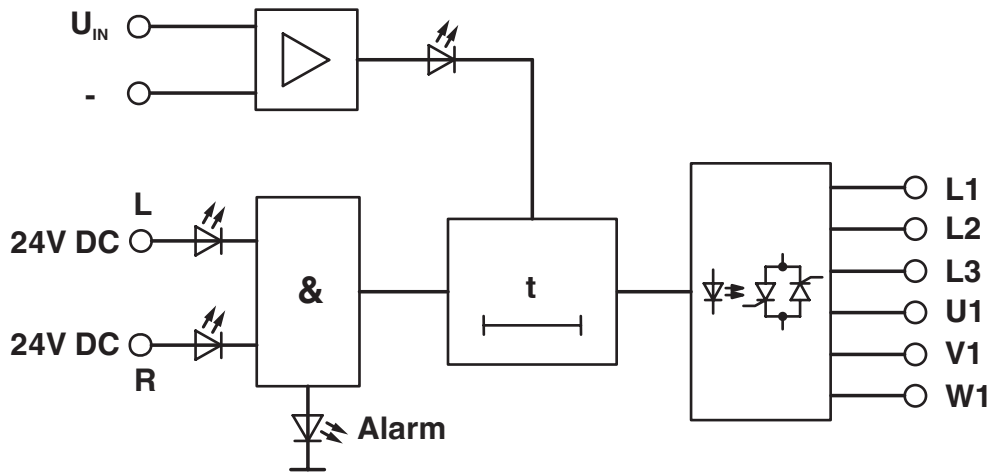


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Block diagram



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Classifications

ECLASS

ECLASS-13.0	27371003
ECLASS-15.0	27371003

ETIM

ETIM 10.0	EC000066
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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.)	Lead(CAS: 7439-92-1)
SCIP	8e03b027-f4a9-4108-8486-0785cf68b14e

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