

Load relay - ELR 3/ 9-500 - 2941714

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Electronic 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 illustration shows the version ELR 3/9-400

Why buy this product

- Noise and wear-free switching up to 500 V AC/9 A
- High switching frequency
- Protective circuit in input and output
- Operating indicator



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 104559
Weight per Piece (excluding packing)	731.0 g
Custom tariff number	85364900
Country of origin	Germany

Technical data

Dimensions

Width	62 mm
Height	84 mm
Depth	110 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Degree of protection	IP20

Input data

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Technical data

Input data

Input name	Device supply
Protective circuit	Protection against polarity reversal Polarity protection diode
	Surge protection
Status display	Yellow LED
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
Typical input current at U_N	16 mA
Switching threshold "0" signal in reference to U_N	> 0.8
Switching threshold "1" signal in reference to U_N	< 0.3
Reaction time in normal load operation	20 ms
Transmission frequency	1 Hz (At $\cos \phi = 0.5$)

Output data

Output name	AC output
Nominal output voltage	500 V AC
Nominal output voltage range	110 V AC ... 550 V AC
Periodic peak reverse voltage	1200 V
Mains frequency	50 Hz
	60 Hz
Load current	9 A (see derating curve)
Leakage current	typ. 7 mA
Residual voltage	typ. 1.5 V
Surge current	230 A ($t_p = 10$ ms, at 25 °C)
Type of protection	RC element
Protective circuit/component	RC element
Type of protection	Surge protection
Surge voltage protection	> 750 V

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	10
Screw thread	M3

General

Test voltage input/output	2.5 kV
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Technical data

General

Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with > 20 mm spacing
Operating mode	100% operating factor
Name	Air and creepage distances between the power circuits
Standards/regulations	EN 50178
	Basic insulation
Name	Power station requirements
	EMC regulations
Standards/regulations	EN 61000-6-2
	EN 61000-6-4

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601

ETIM

ETIM 2.0	EC000066
ETIM 3.0	EC000066
ETIM 4.0	EC000066
ETIM 5.0	EC002055

UNSPSC

UNSPSC 6.01	30211915
UNSPSC 7.0901	39121514
UNSPSC 11	39121514
UNSPSC 12.01	39121514
UNSPSC 13.2	39121514

Approvals

Approvals

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GOST

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Approvals

Ex Approvals

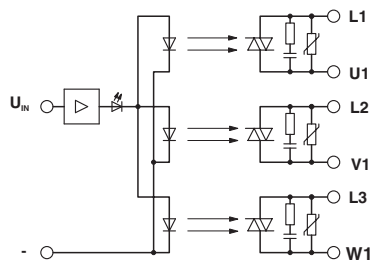
Approvals submitted

Approval details

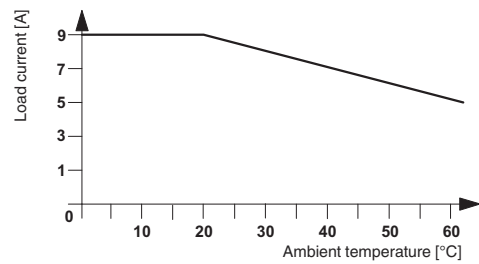


Drawings

Block diagram



Diagram



Diagram

