

# ELR 3/ 9-500

Order No.: 2941714


The illustration shows the version ELR 3/9-400



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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



Commercial data	
GTIN (EAN)	 4 017918 104559
sales group	G411
Pack	1 pcs.
Customs tariff	85371099
Catalog page information	Page 172 (IF-2009)

**Product notes**

WEEE/RoHS-compliant since:  
11/23/2006



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## Technical data

Input data	
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	10 Hz (With ohmic load)
	1 Hz (At $\cos \phi = 0.5$ )

**Output data, load relay**

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**

Type of connection	Screw connection
Stripping length	8 mm
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	10
Screw thread	M3

**General data**

Width	62 mm
Height	84 mm
Depth	110 mm
Test voltage input/output	2.5 kV
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with > 20 mm spacing
Operating mode	100% operating factor
Degree of protection	IP20
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

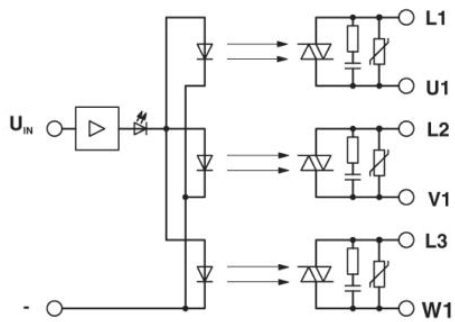
**Certificates / Approvals**

Certification

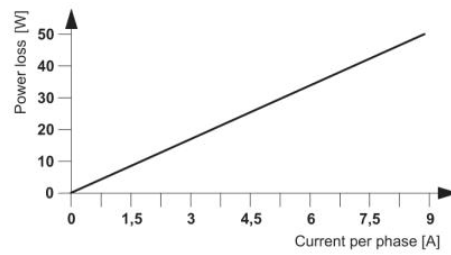
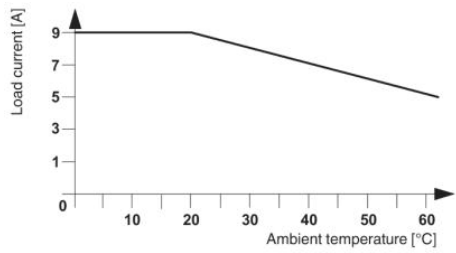
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## Diagrams/Drawings

### Block diagram



### Diagram



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