

## Reversing load relay - ELR W3/ 9-500 - 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

### Why buy this product

- ✓ 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



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 099398
GTIN	4017918099398

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Input data

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
Rated actuating current $I_C$	7.5 mA
Reaction time in normal load operation	50 ms
Switch-over frequency	< 10 Hz (At $\cos \phi > 0.5$ )

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## Technical data

### Input data

Protective circuit	Reverse polarity protection Polarity protection diode
	Surge protection
Operating voltage display	Green LED
Status display	Yellow LED
Indication	Red LED
Maximum reversing frequency	10 Hz
Switchover time $R_L/L_L$ (turn-on time)	20 ms

### Output data load output

Rated operating voltage $U_e$	500 V AC
Operating voltage range	110 V AC ... 550 V AC
Load current range	150 mA
Leakage current	typ. 7 mA
Residual voltage	typ. 1.5 V
Surge current	230 A ( $t_p = 10$ ms, at 25 °C)
Protective circuit	RC element RC element

### Connection data, control circuit

Connection name	Control circuits
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	24 ... 10

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Conductor cross section AWG	24 ... 10

### General

Test voltage input/output	2.5 kV
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Can be aligned with > 20 mm spacing
Operating mode	100% operating factor
Reversing frequency	≤ 10 Hz (At $\cos \phi = 0.5$ )

### Dimensions

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## 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

### Standards and Regulations

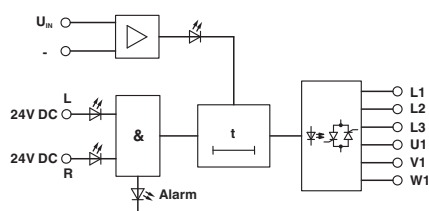
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	EN 50178
Designation	Power station requirements
	EMC regulations
Standards/regulations	EN 61000-6-2
	EN 61000-6-4

### Environmental Product Compliance

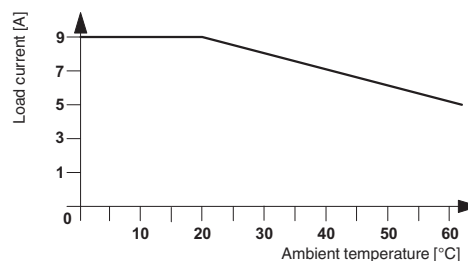
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

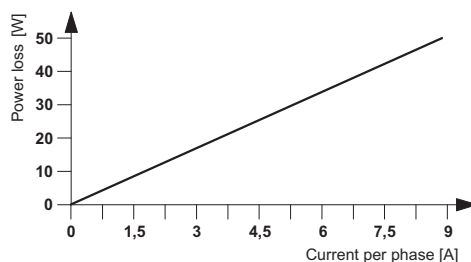
Block diagram



Diagram



Diagram



## Reversing load relay - ELR W3/ 9-500 - 2964186

### Approvals

Approvals

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Approvals


EAC

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Ex Approvals

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### Approval details

EAC		RU C- DE.A*30.B.01082
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