

## Reversing load relay - ELR W3/ 9-400 - 2964173

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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: 110-440 V AC/3 x 9 A

### Product Features

- 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 pc
Weight per Piece (excluding packing)	776.9 g
Custom tariff number	85364900
Country of origin	Germany

### 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	Device supply
Nominal supply voltage	24 V DC
Quiescent current	40 mA
Protective circuit	Reverse polarity protection Polarity protection diode
	Surge protection
Operating voltage display	Green LED

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## Technical data

### Input data

Status display	Yellow LED
Indication	Red 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 ... 1.25
Typical input current at $U_N$	7.5 mA
Reaction time in normal load operation	50 ms
Switch-over frequency	< 10 Hz (At $\cos \phi > 0.5$ )
Maximum reversing frequency	10 Hz
Switchover time $R_L/L_L$ (turn-on time)	20 ms

### Output data load output

Nominal output voltage	400 V AC
Nominal output voltage range	110 V AC ... 440 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

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## Technical data

### 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
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	EN 50178
Insulation	Basic insulation
Designation	Power station requirements
	EMC regulations
Standards/regulations	EN 61000-6-2
	EN 61000-6-4
Reversing frequency	≤ 10 Hz (At cos φ = 0.5)

### 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
Insulation	Basic insulation
Designation	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

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## Classifications

### eCl@ss

eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	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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Approvals

EAC / EAC

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Ex Approvals

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Approvals submitted

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### Approval details

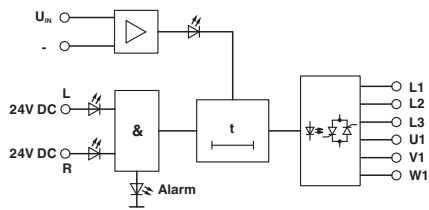
EAC
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EAC
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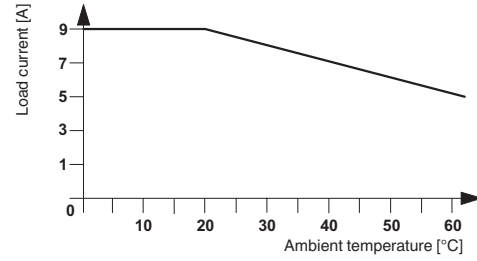
## Drawings

# Reversing load relay - ELR W3/ 9-400 - 2964173

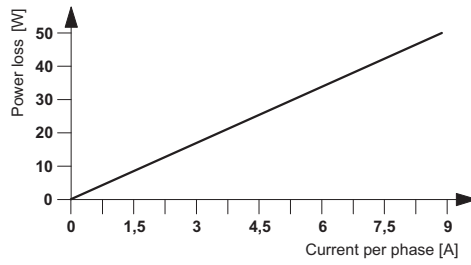
Block diagram



Diagram



Diagram



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