

## Reversing load relay - ELR W1/ 6-24DC - 2982090

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Electronic reversing load relay, for controlling DC motors, with LED display and protective circuit, output: 10 - 30 V DC/6 A with a switch-over time of 80 ms



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	117.7 g
Custom tariff number	85371099
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 $\pm 20\%$
Protective circuit	Reverse polarity protection Polarity protection diode
	Surge protection
Operating voltage display	Green 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 $U_N$	3 mA
Protective circuit	Reverse polarity protection
	Surge protection

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## Technical data

### Input data

Surge voltage protection	> 33 V DC
Typical response time	200 µs
Status display	LED yellow, forward running (R), LED yellow, reverse running (L)
Current consumption	3 mA
Switchover time $R_L/L_L$ (turn-on time)	80 ms

### Output data load output

Operating voltage range	10 V DC ... 30 V DC
Protective circuit	Reverse polarity protection

### 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

### Connection data load circuit

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Conductor cross section AWG	24 ... 10

### General

Test voltage input/output	2.5 kV AC
Mounting position	Vertical (horizontal DIN rail)
Assembly instructions	Any
Operating mode	100% operating factor
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	EN 50178
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

### Dimensions

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## Technical data

### Dimensions

Width	12.5 mm
Height	99 mm
Depth	114.5 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
Degree of pollution	2
Overvoltage category	III

## 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
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

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## Classifications

### UNSPSC

UNSPSC 13.2	39121514
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## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / EAC / cULus Listed

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#### Ex Approvals


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#### Approvals submitted

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## Approval details

UL Listed 

cUL Listed 

EAC

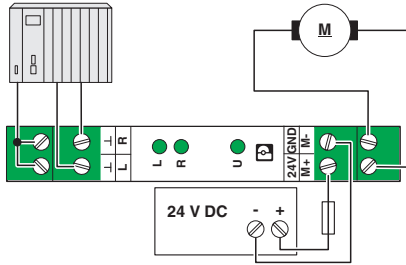
EAC

cULus Listed 

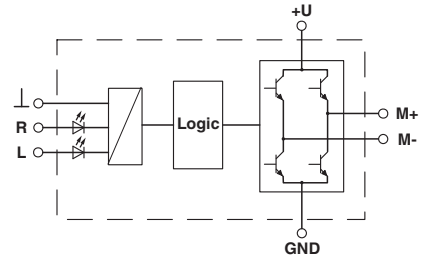
## Drawings

# Reversing load relay - ELR W1/ 6-24DC - 2982090

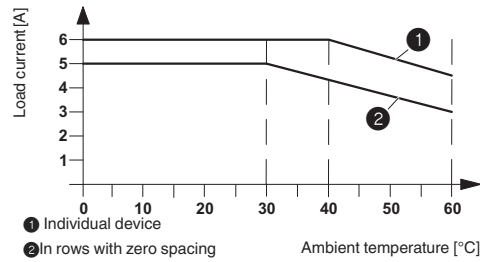
Connection diagram



Block diagram

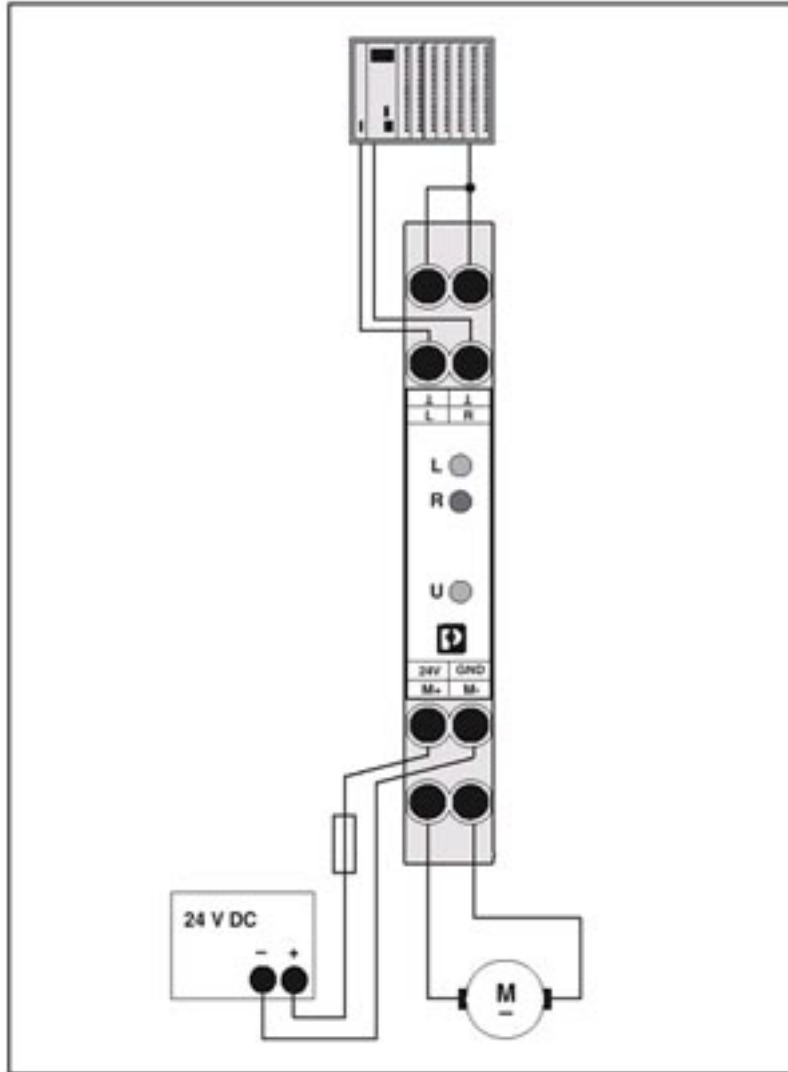


Diagram



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Application drawing



Example application

# Mouser Electronics

Authorized Distributor

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