

Reversing load relay - ELR W1/ 2-24DC - 2963598

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Electronic reversing load relay, for driving DC motors, with light indicator and protection circuit, output: 10-30 V DC/2 A

Illustration shows item ELR W1/
6-24DC



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	111.1 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
Status display	LED yellow, forward running (R), LED yellow, reverse running (L)
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

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Technical data

Input data

Protective circuit	Reverse polarity protection
	Surge protection
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 mm² ... 6 mm²
Conductor cross section flexible	0.2 mm² ... 4 mm²
Conductor cross section AWG	24 ... 10

Connection data load circuit

Connection name	Load circuit
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 6 mm²
Conductor cross section flexible	0.2 mm² ... 4 mm²
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

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Technical data

General

Overvoltage category	III
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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
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Classifications

UNSPSC

UNSPSC 7.0901	39121514
UNSPSC 11	39121514
UNSPSC 12.01	39121514
UNSPSC 13.2	39121514

Approvals

Approvals

Approvals

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

Ex Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 

EAC

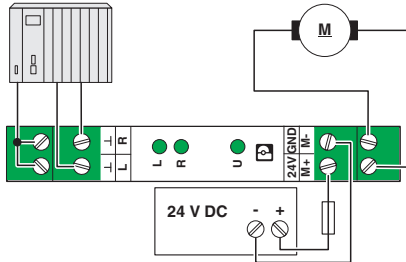
EAC

cULus Listed 

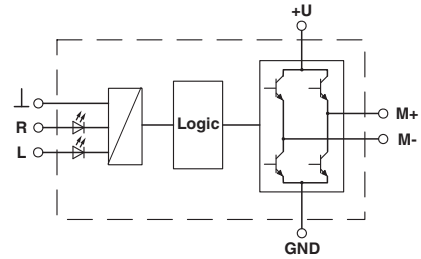
Drawings

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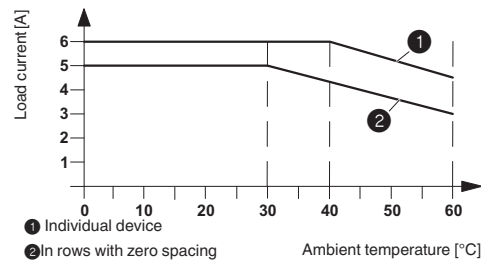
Connection diagram



Block diagram

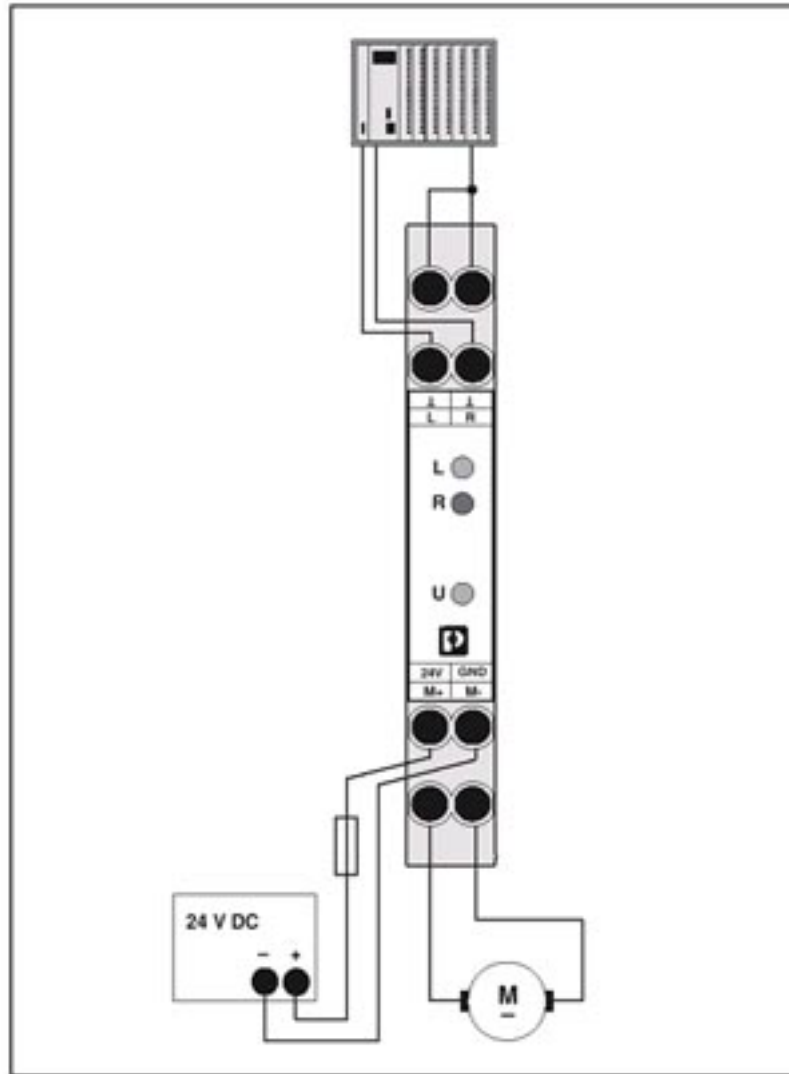


Diagram



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Application drawing



Example application