

Reversing load relay - ELR W1/ 6-24DC/RDT - 2982757

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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 1 ms



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 327251
GTIN	4046356327251

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 $\pm 20\%$
Input voltage range	19.2 V DC ... 28.8 V DC
Rated control circuit supply voltage U_s	24 V DC
Control supply voltage range	19.2 V DC ... 28.8 V DC
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
Input voltage range	19.2 V DC ... 28.8 V DC
Typical input current at U_N	3 mA
Protective circuit	Reverse polarity protection

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Input data

	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)	1 ms

Output data load output

Output name	DC output
Operating voltage range	10 V DC ... 30 V DC
Nominal output voltage range	10 V DC ... 30 V DC
Type of protection	Reverse polarity protection
	Surge 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 ² ... 6 mm ²
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
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 mm ² ... 6 mm ²
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
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

Dimensions

Width	12.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

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Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Degree of protection	IP20

Standards and Regulations

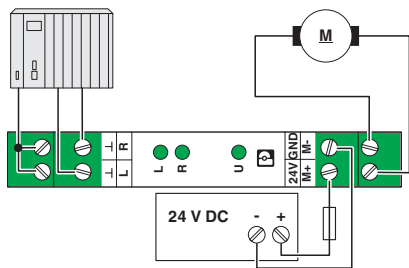
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	EN 50178
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

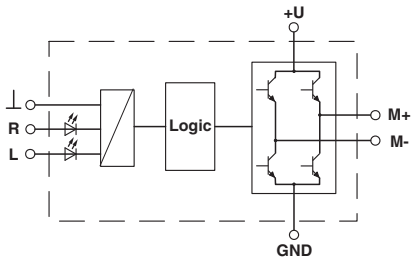
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

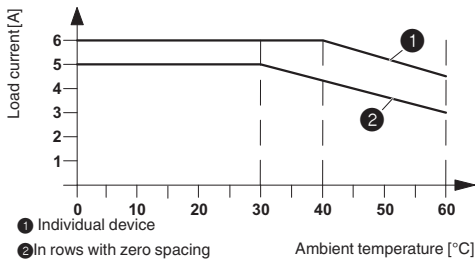
Connection diagram



Block diagram



Diagram



Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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Approvals

Ex Approvals

Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 228652

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 228652

EAC



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

cULus Listed



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