

# ELR DCR-PT-24DC-10 - Reversing load relay



1291655

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Electronic reversing load relay, for controlling DC motors, with LED display and protective circuit, output: 24 V DC/10 A with a switch-over time of 5 ms

## Commercial data

Item number	1291655
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C476
Product key	DK7623
GTIN	4063151524142
Weight per piece (including packing)	115.3 g
Weight per piece (excluding packing)	92.37 g
Customs tariff number	85371098
Country of origin	DE

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## Technical data

### Product properties

Product type	Solid-state contactor
Product family	CONTACTRON
Operating mode	100% operating factor
MTTF	244 Years ( $\vartheta \cong \downarrow \uparrow \downarrow$ °C)

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
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### Electrical properties

Number of phases	1
Switching frequency	$\leq 10$ Hz
Mains type	1-phase
Test voltage (Input/output)	2.5 kV <sub>rms</sub> (50 Hz, 60 s)
Switching frequency	$\leq 10$ Hz

Insulation characteristics

Rated insulation voltage	50 V
Rated surge voltage	800 V
Overvoltage category	III
Degree of pollution	2
Air clearances and creepage distances between the power circuits	Basic insulation

### Input data

Input name	DC input
Rated control circuit supply voltage $U_S$	24 V DC
Control supply voltage range	11 V DC ... 30 V DC
Protective circuit	Surge protection

Control

Input name	Control input right/left
Current consumption	3 mA
Rated actuating voltage $U_C$	24 V DC
Triggering voltage range	19.2 V DC ... 28.8 V DC
Rated actuating current $I_C$	< 2 mA
Protective circuit	Reverse polarity protection Surge protection
Surge voltage protection	> 33 V DC
Switchover time $R_L/L_L$ (turn-on time)	5 ms

### Output data


DC output	
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Rated operating voltage $U_e$	24 V DC
Operating voltage range	11 V DC ... 30 V DC
Rated operating current (DC-13 / Load output)	10 A (see to derating)
Quiescent current	$\approx$  mA
Short-circuit current	100 A
Protective circuit	Reverse polarity protection
	Surge protection
Surge voltage protection	> 33 V DC
Current limitation at short-circuits	75 A

## Connection data

### Control circuits

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

### Load circuit

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

## Signaling

Status display	LED (yellow)
Operating voltage display	Green LED
Error indication	Red LED

## Dimensions

Width	12.5 mm
Height	107 mm
Depth	114.5 mm

## Material specifications

Color	gray (RAL 7042)
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 50 °C (10 A)
	-25 °C ... 60 °C (9 A)
	-25 °C ... 70 °C (7.5 A)

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Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m

## Approvals

UL approval

Certificate	NKCR.E172140
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## Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	EN 60947-5-1
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## Mounting

Mounting type	DIN rail mounting
Assembly note	alignable, for spacing see derating
Mounting position	vertical (horizontal DIN rail, motor output below)

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## Approvals

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**cULus Listed**

Approval ID: E172140

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## Classifications

### ECLASS

ECLASS-13.0	27371014
ECLASS-15.0	27371018

### ETIM

ETIM 10.0	EC002552
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	4ae99db3-35ba-4d73-8fdb-84cb6ad1f68c

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)