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ELR DCR-PT-24DC-3 - Reversing load relay

1291615

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Electronic reversing load relay, for controlling DC motors, with LED display and protective circuit, output: 24 V DC/3 A with a switch-over time of 5 ms

Commercial data

Item number	1291615
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DK7622
Product key	DK7622
GTIN	4063151523985
Weight per piece (including packing)	114.4 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 (ϑ ≙ ⎿‾⎾⏷°C)

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

Insulation	Basic insulation

Electrical properties

Number of phases	1
Switching frequency	≤ 10 Hz
Mains type	1-phase
Test voltage (Input/output)	2.5 kV_{rms} (50 Hz, 60 s)
Switching frequency	≤ 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)	3 A (see to derating)
Quiescent current	≈ ⎍ 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 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
Conductor cross section AWG	26 ... 14

Load circuit

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
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)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m

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Approvals

UKCA

Certificate	UKCA-compliant

UL approval

Certificate	NKCR.E172140

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	EN 60947-5-1

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

ETIM

ETIM 9.0	EC002055

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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	93b31a84-4d8e-45fd-aef0-6e740e316201

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