

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



1291655

<https://www.phoenixcontact.com/us/products/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 ($\vartheta \cong \text{TL}$ ↓ °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) | 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 ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 26 ... 14 |

Load circuit

| | |
|----------------------------------|--|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| 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 ... 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 |
|-------------|--------------|

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 |
| ECLASS-15.0 | 27371018 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002552 |
|-----------|----------|

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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