

CM 62-ELR-W3/100 - Reversing load relay



2944902

<https://www.phoenixcontact.com/us/products/2944902>

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Electronic reversing-load relay, for direct control of current consumers, with light indicator and protective circuit

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2944902 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | DK7221 |
| GTIN | 4017918117931 |
| Weight per piece (including packing) | 248.9 g |
| Weight per piece (excluding packing) | 195.6 g |
| Country of origin | DE |

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Technical data

Product properties

| | |
|--------------|-----------------------|
| Product type | Solid-state contactor |
|--------------|-----------------------|

Electrical properties

| | |
|---|---------|
| Maximum power dissipation for nominal condition | 1.5 W |
| Reversing frequency | ≤ 10 Hz |

Supply

| | |
|--|-----------------------|
| Input name | Device supply |
| Rated control circuit supply voltage U_S | 24 V DC |
| Control supply voltage range | 19.2 V DC ... 30 V DC |
| Rated control supply current I_S | approx. 40 mA |

Input data

Control

| | |
|--|--|
| Input name | Control input right/left |
| Rated actuating voltage U_C | 24 V DC |
| Triggering voltage range | 19.2 V DC ... 30 V DC |
| Rated actuating current I_C | 5.5 A |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| Operating voltage display | Green LED |
| Status display | LED (yellow) |
| Switchover time R_L/L_L (turn-on time) | 20 ms |

Output data

AC output

| | |
|-------------------------------|-----------------------|
| Rated operating voltage U_e | 230 V AC |
| Operating voltage range | 184 V AC ... 253 V AC |
| Peak offstate voltage | 600 V |
| Mains frequency | 50 Hz 60 Hz |
| Load current | 3x 100 mA |
| Residual voltage | approx. 3 V |
| Surge current | 6 A (t = 10 ms) |
| Protective circuit | RCV circuit |

Connection data

Control circuits

| | |
|----------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross-section rigid | 2.5 mm ² |
| Conductor cross-section flexible | 2.5 mm ² |

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| | |
|-----------------------------|----|
| Conductor cross-section AWG | 12 |
|-----------------------------|----|

Load circuit

| | |
|----------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross-section rigid | 2.5 mm ² |
| Conductor cross-section flexible | 2.5 mm ² |
| Conductor cross-section AWG | 12 |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 55 °C |
| Ambient temperature (storage/transport) | -20 °C ... 55 °C |

Standards and regulations

| | |
|-----------------------|----------|
| Standards/regulations | VDE 0110 |
|-----------------------|----------|

Mounting

| | |
|-------------------|--------------------------------|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | Vertical (horizontal DIN rail) |

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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) |
|-------------------------------------|----------------------|

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