

Solid-state reversing contactor - ELR W3- 24DC/500AC- 9 - 2297316

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Three-phase solid-state reversing contactor with 24 V DC input, 9 A output current, zero voltage switch, optionally with thermal fuse

Why buy this product

- Optional thermal fuse
- Stable and short switching times
- Long service life
- Noise and wear-free switching
- Integrated protection circuit
- Integrated locking and load wiring
- High switching frequency



Key Commercial Data

| | |
|--------------|---------------------|
| Packing unit | 1 STK |
| GTIN | 4 046356 175678 |

Technical data

Input data

| | |
|---------------------------------------|---|
| Input name | Device supply |
| Protective circuit | Protection against polarity reversal Suppressor diode |
| | Surge protection |
| Status display | Yellow LED |
| Indication | Red LED |
| Input name | Control input right/left |
| Rated actuating voltage U_C | 24 V DC |
| Voltage range with reference to U_C | 0.8 ... 1.25 |
| Rated actuating current I_C | 12.7 mA |
| Switching threshold | 9.6 V ("0" signal) |
| | 19.2 V ("1" signal) |

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Output data load output

| | |
|-----------------------------------|----------------------------------|
| Rated operating voltage U_e | 500 V AC |
| Operating voltage range | 48 V AC ... 575 V AC |
| Load current range | 100 mA ... 9 A (see to derating) |
| Rated operating current at AC-51 | 9 A |
| Rated operating current at AC-53a | 9 A |
| Leakage current | 6 mA |
| Residual voltage | < 1.5 V |
| Surge current | 300 A (t = 10 ms) |
| Protective circuit | RCV circuit |

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 ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 14 |

Connection data load circuit

| | |
|----------------------------------|---|
| Connection name | Load circuit |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
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| Conductor cross section AWG | 24 ... 14 |

General

| | |
|---------------------------|-------------------------------------|
| Test voltage input/output | 5 kV _{rms} |
| Switching frequency | max. 5 Hz |
| Mounting position | Vertical (horizontal DIN rail) |
| Assembly instructions | Can be aligned with spacing = 20 mm |
| Operating mode | 100% operating factor |
| Designation | Standards/regulations |
| Standards/regulations | DIN EN 50178 |
| | EN 60947 |
| Reversing frequency | ≤ 10 Hz |

Dimensions

| | |
|--------|----------|
| Width | 67.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

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Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -25 °C ... 70 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Degree of protection | IP20 |

UL data

| | |
|------|---------------------------------------|
| SCCR | 5 kA (20 A RK5 (standard fault) fuse) |
|------|---------------------------------------|

Standards and Regulations

| | |
|-----------------------|-----------------------|
| Designation | Standards/regulations |
| Standards/regulations | DIN EN 50178 |
| | EN 60947 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371601 |
| eCl@ss 5.1 | 27371601 |
| eCl@ss 6.0 | 27371601 |
| eCl@ss 7.0 | 27371601 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000066 |
| ETIM 3.0 | EC000066 |
| ETIM 4.0 | EC000066 |
| ETIM 5.0 | EC002055 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211915 |
| UNSPSC 7.0901 | 39121514 |
| UNSPSC 11 | 39121514 |
| UNSPSC 12.01 | 39121514 |
| UNSPSC 13.2 | 39121514 |

Approvals

Approvals

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Approvals

Approvals

UL Listed / cUL Listed / GL / EAC / EAC / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Listed

cUL Listed

GL

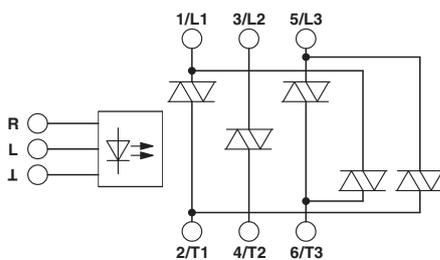
EAC

EAC

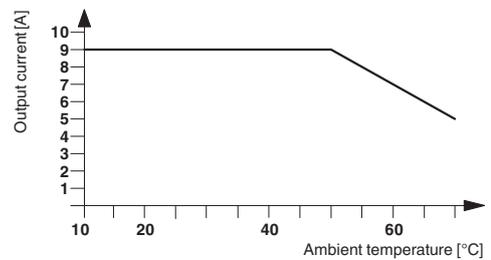
cULus Listed

Drawings

Block diagram



Diagram



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