

Solid-state contactor - ELR 1-SC-230AC/600AC-30 - 1032922


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Single-phase solid-state contactor, input voltage: 230 V AC, output current: 30 A, zero voltage switch



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 0 5 5 6 2 6 5 3 6 4 7 7 |
| GTIN | 4055626536477 |

Technical data

Dimensions

| | |
|--------|--------|
| Width | 18 mm |
| | 18 mm |
| Height | 110 mm |
| | 110 mm |
| Depth | 103 mm |
| | 103 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -30 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |

Input data

| | |
|-------------------------------|-------------------------------|
| Input name | Control input |
| Rated actuating voltage U_c | 230 V AC |
| Triggering voltage range | 24 V AC ... 275 V AC |
| | 24 V DC ... 190 V DC |
| Rated actuating current I_c | approx. 17 mA |
| Switching threshold | ≤ 5 V AC/DC ("0" signal) |

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Technical data

Input data

| | |
|---------------------------|---------------------------|
| | ≥ 20 V AC/DC ("1" signal) |
| Transmission frequency | 6 Hz |
| Operating voltage display | Green LED |

Output data load output

| | |
|-----------------------------------|-----------------------------------|
| Output name | Load output |
| Operating voltage range | 42 V AC ... 660 V AC |
| Load current range | 250 mA ... 30 A (see to derating) |
| Rated operating current at AC-51 | 30 A |
| Rated operating current at AC-53a | 15 A (T _A = 25 °C) |
| | 5 A (T _A = 40 °C) |
| Leakage current | < 3 mA (In off state) |
| Residual voltage | < 1 V |
| Surge current | 600 A (t = 10 ms) |
| Type of protection | Varistor |

General

| | |
|-----------------------|---------------------------------------|
| Mounting position | Vertical (horizontal DIN rail) |
| Assembly instructions | Can be aligned with ≥ 22.5 mm spacing |

Connection data

| | |
|----------------------------------|---|
| Connection name | Control circuits |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 18 ... 12 |

Connection data 2

| | |
|----------------------------------|---|
| Connection name | Load circuit |
| Connection method | Screw connection |
| Stripping length | 12 mm |
| Screw thread | M4 |
| Conductor cross section solid | 2.5 mm ² ... 6 mm ² |
| Conductor cross section flexible | 1 mm ² ... 4 mm ² |
| Conductor cross section AWG | 14 ... 10 |

Standards and Regulations

| | |
|-----------------------|-----------------------|
| Designation | Standards/regulations |
| Standards/regulations | EN 61000-4-2 |
| | EN 61000-4-3 |
| | EN 61000-4-4 |

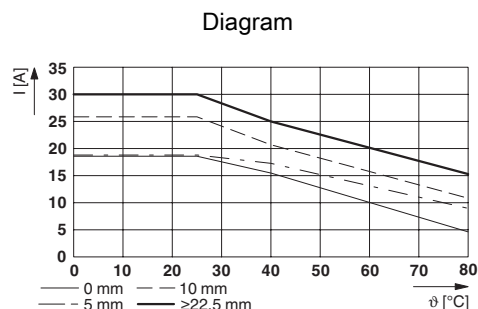
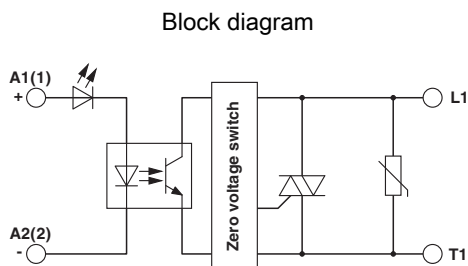
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Technical data

Standards and Regulations

| | |
|--|--------------|
| | EN 61000-4-5 |
| | EN 55011 |

Drawings



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27371014 |
| eCl@ss 11.0 | 27371014 |
| eCl@ss 6.0 | 27371000 |
| eCl@ss 7.0 | 27371014 |
| eCl@ss 9.0 | 27371014 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC002055 |
| ETIM 6.0 | EC002055 |
| ETIM 7.0 | EC002055 |

Approvals

Approvals

Approvals


UL Listed / cUL Listed / EAC / cULus Listed


Ex Approvals

Approval details

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Approvals

| | | | |
|-----------|---|---|---------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 323771 |
|-----------|---|---|---------------|

| | | | |
|------------|---|---|---------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 323771 |
|------------|---|---|---------------|

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| EAC |  | | RU C- DE*.B.0080120 |
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| cULus Listed |  | | |
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