



| Contact characteristics | | | |
|---|--------------------|------|-----|
| Number of poles | Nr. | 3 | |
| Rated insulation voltage U _i IEC/EN | V | 1000 | |
| Rated impulse withstand voltage U _{imp} | kV | 8 | |
| Operational frequency | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current I _{th} ≤ 40°C | A | 140 | |
| Operational current I _e | AC-1 (≤40°C) | A | 140 |
| | AC-1 (≤55°C) | A | 115 |
| | AC-1 (≤70°C) | A | 100 |
| | AC-3 (≤440V ≤55°C) | A | 95 |
| | AC-4 (400V) | A | 45 |
| Rated operational power AC-3 (T≤55°C) | 230V | kW | 30 |
| | 400V | kW | 55 |
| | 415V | kW | 55 |
| | 440V | kW | 55 |
| | 500V | kW | 75 |
| | 690V | kW | 90 |
| | 1000V | kW | 45 |
| Rated operational current AC-3 (T≤55°C) | 230V | A | 95 |
| | 400V | A | 95 |
| | 415V | A | 95 |
| | 440V | A | 95 |
| | 500V | A | 95 |
| | 690V | A | 93 |
| | 1000V | A | 33 |
| IEC max current I _e in DC1 with L/R ≤ 1ms with 1 poles in series | ≤24V | A | 140 |
| | 48V | A | 140 |
| | 75V | A | 100 |
| | 110V | A | 10 |
| | 220V | A | – |
| IEC max current I _e in DC1 with L/R ≤ 1ms with 2 poles in series | ≤24V | A | 140 |
| | 48V | A | 140 |
| | 75V | A | 140 |
| | 110V | A | 110 |
| | 220V | A | 12 |
| IEC max current I _e in DC1 with L/R ≤ 1ms with 3 poles in series | ≤24V | A | 140 |
| | 48V | A | 140 |

| | | | |
|--|-----------------|------------------|------|
| | 75V | A | 155 |
| | 110V | A | 120 |
| | 220V | A | 125 |
| <hr/> | | | |
| IEC max current I _e in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | A | 140 |
| | 48V | A | 140 |
| | 75V | A | 155 |
| | 110V | A | 140 |
| | 220V | A | 140 |
| <hr/> | | | |
| IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | | |
| | ≤24V | A | 140 |
| | 48V | A | 44 |
| | 75V | A | 36 |
| | 110V | A | 6 |
| | 220V | A | – |
| <hr/> | | | |
| IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | ≤24V | A | 140 |
| | 48V | A | 63 |
| | 75V | A | 60 |
| | 110V | A | 55 |
| | 220V | A | 7 |
| <hr/> | | | |
| IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | A | 140 |
| | 48V | A | 115 |
| | 75V | A | 90 |
| | 110V | A | 85 |
| | 220V | A | 76 |
| <hr/> | | | |
| IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | A | 140 |
| | 48V | A | 110 |
| | 75V | A | 110 |
| | 110V | A | 105 |
| | 220V | A | 95 |
| <hr/> | | | |
| Short-time allowable current for 10s (IEC/EN60947-1) | | A | 760 |
| <hr/> | | | |
| Protection fuse | | | |
| | gG (IEC) | A | 160 |
| | aM (IEC) | A | 100 |
| <hr/> | | | |
| Making capacity (RMS value) | | A | 1200 |
| <hr/> | | | |
| Breaking capacity at voltage | | | |
| | 440V | A | 1100 |
| | 500V | A | 775 |
| | 690V | A | 745 |
| <hr/> | | | |
| Resistance per pole (average value) | | mΩ | 0.45 |
| <hr/> | | | |
| Power dissipation per pole (average value) | | | |
| | I _{th} | W | 8.8 |
| | AC-3 | W | 4.1 |
| <hr/> | | | |
| Tightening torque for terminals | | | |
| | min | Nm | 6 |
| | max | Nm | 7 |
| | min | I _{bin} | 4.4 |
| | max | I _{bin} | 5.2 |
| <hr/> | | | |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |

| | | | | |
|---|--|----------------------------|------------------|-----------------------|
| | | max | Nm | 1 |
| | | min | I _{bin} | 0.59 |
| | | max | I _{bin} | 0.74 |
| Conductor section | AWG/Kcmil | max | | 2/0 |
| | Flexible w/o lug conductor section | min | mm ² | 1.5 |
| | | max | mm ² | 70 |
| | Flexible c/w lug conductor section | min | mm ² | 1.5 |
| | | max | mm ² | 70 |
| Power terminal protection according to IEC/EN 60529 | | | | IP20 front |
| Mechanical features | | | | |
| Operating position | | normal allowable | | Vertical plan ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 2020 |
| Auxiliary contact characteristics | | | | |
| Thermal current I _{th} | | | A | 140 |
| Operations | | | | |
| Mechanical life | | | cycles | 15000000 |
| Electrical life | | | cycles | 1400000 |
| Safety related data | | | | |
| Performance level B10d according to EN/ISO 13489-1 | | rated load mechanical load | cycles | 1400000 |
| | | | cycles | 15000000 |
| AC coil operating | | | | |
| Rated AC voltage at 60Hz | | | V | 230 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz drop-out | max | %U _s | 55 |
| | of 60Hz coil powered at 60Hz pick-up | min | %U _s | 80 |
| | | max | %U _s | 110 |
| | drop-out | min | %U _s | 20 |
| | | max | %U _s | 55 |
| AC average coil consumption at 20°C | of 60Hz coil powered at 60Hz | in-rush holding | VA | 300 |
| | | | VA | 20 |
| Dissipation at holding ≤20°C 50Hz | | | W | 6.5 |
| Max cycles frequency | | | | |
| Mechanical operation | | | cycles/h | 1500 |
| Operating times | | | | |
| Average time for U _s control in AC | Closing NO | min | ms | 16 |

| | | | |
|------------|-----|----|----|
| Opening NO | max | ms | 32 |
| | min | ms | 9 |
| | max | ms | 24 |

UL technical data

| | | |
|-----------------------------------|---|-----|
| Rated operational voltage AC (UL) | V | 600 |
|-----------------------------------|---|-----|

Yielded mechanical performance

for three-phase AC motor

| | | |
|----------|----|----|
| 200/208V | HP | 30 |
| 220/240V | HP | 30 |
| 460/480V | HP | 60 |
| 575/600V | HP | 75 |

General USE

Contactor

| | | |
|------------|---|-----|
| AC current | A | 150 |
|------------|---|-----|

Short-circuit protection fuse, 600V

High fault

| | | |
|-----------------------|----|-----|
| Short circuit current | kA | 100 |
| Fuse rating | A | 200 |
| Fuse class | | J |

Standard fault

| | | |
|-----------------------|----|-----|
| Short circuit current | kA | 10 |
| Fuse rating | A | 250 |
| Fuse class | | RK5 |

Ambient conditions

Temperature

Operating temperature

| | | |
|-----|----|-----|
| min | °C | -50 |
| max | °C | 70 |

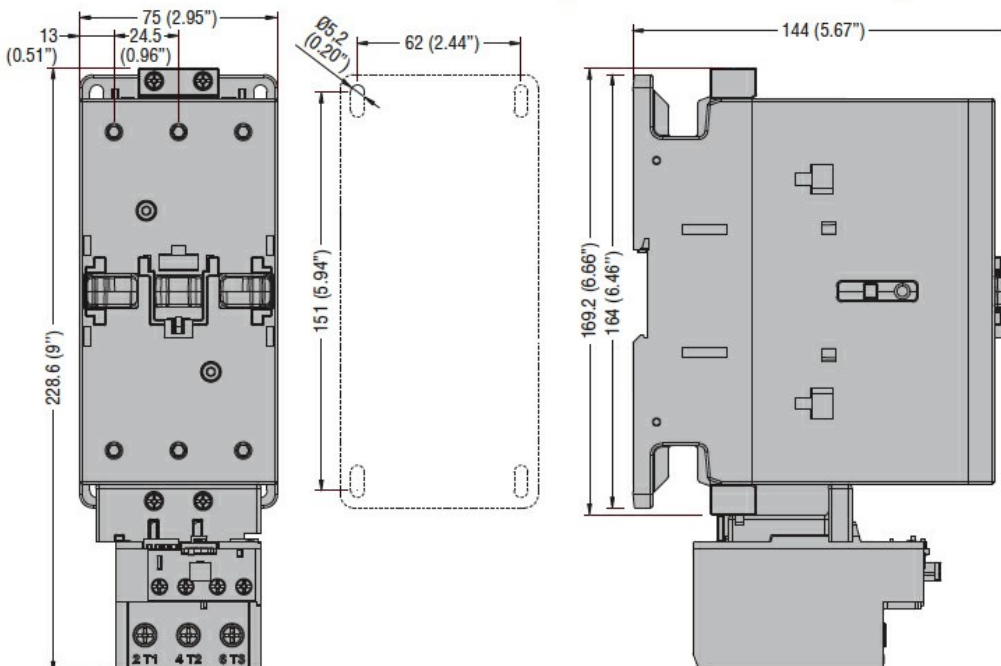
Storage temperature

| | | |
|-----|----|-----|
| min | °C | -60 |
| max | °C | +80 |

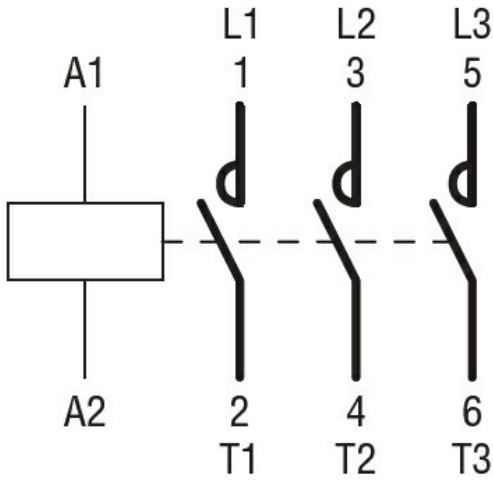
Max altitude

| | |
|---|------|
| m | 3000 |
|---|------|

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1
 CSA C22.2 n° 60947-4-1
 IEC/EN 60335-2-89
 IEC/EN/BS 60947-1
 IEC/EN/BS 60947-4-1
 UL 60947-1
 UL 60947-4-1

Certificates

CCC
 CSA C22.2 n. 60335-2-40:22 LZGH A2L
 CSA C22.2 No. 60335-2-89:21 LZGH A2L
 cULus
 UL 60335-2-40 LZGH A2L
 UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC000066 -
 Power contactor,
 AC switching