



| | | | |
|--|--|------|------|
| Product designation | Power contactor | | |
| Product type designation | B6301000 | | |
| Contact characteristics | | | |
| Number of poles | Nr. | 4 | |
| Rated insulation voltage Ui IEC/EN | V | 1000 | |
| Rated impulse withstand voltage Uimp | kV | 8 | |
| Operational frequency | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | A | 1000 |
| Operational current Ie | AC-1 ($\leq 40^{\circ}\text{C}$) A 1000 AC-1 ($\leq 55^{\circ}\text{C}$) A 850 AC-1 ($\leq 70^{\circ}\text{C}$) A 700 AC-4 (400V) A 260 | | |
| Rated operational power AC-1 ($T \leq 40^{\circ}\text{C}$) | 230V | kW | 350 |
| | 400V | kW | 600 |
| | 500V | kW | 750 |
| | 690V | kW | 1000 |
| IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series | 75V | A | 800 |
| | 110V | A | 460 |
| | 220V | A | -- |
| | 330V | A | -- |
| | 460V | A | -- |
| IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series | 75V | A | 800 |
| | 110V | A | 800 |
| | 220V | A | 700 |
| | 330V | A | -- |
| | 460V | A | -- |
| IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series | 75V | A | 800 |
| | 110V | A | 800 |
| | 220V | A | 800 |
| | 330V | A | 700 |
| | 460V | A | -- |
| IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series | 75V | A | 800 |
| | 110V | A | 800 |
| | 220V | A | 800 |
| | 330V | A | 750 |
| | 460V | A | 700 |
| IEC max current Ie in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series | | | |

| | | | |
|---|-----------------|--------|---------------|
| | 75V | A | 800 |
| | 110V | A | 460 |
| | 220V | A | -- |
| | 330V | A | -- |
| | 460V | A | -- |
| IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series | 75V | A | 800 |
| | 110V | A | 800 |
| | 220V | A | 700 |
| | 330V | A | -- |
| | 460V | A | -- |
| IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series | 75V | A | 800 |
| | 110V | A | 800 |
| | 220V | A | 800 |
| | 330V | A | 650 |
| | 460V | A | -- |
| IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 4 poles in series | 75V | A | 800 |
| | 110V | A | 800 |
| | 220V | A | 800 |
| | 330V | A | 650 |
| | 460V | A | 700 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | A | 5600 |
| Protection fuse | gG (IEC) | A | 1000 |
| Making capacity (RMS value) | | A | 6300 |
| Breaking capacity at voltage | | | |
| | 440V | A | 6300 |
| | 500V | A | 5600 |
| | 690V | A | 5000 |
| Resistance per pole (average value) | | m? | 0.14 |
| Power dissipation per pole (average value) | | | |
| | I _{th} | W | 140 |
| | AC3 | W | 56 |
| Tightening torque for terminals | | | |
| | min | Nm | 55 |
| | max | Nm | 55 |
| | min | lbin | 40.6 |
| | max | lbin | 40.6 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 1 |
| | max | Nm | 1 |
| | min | lbin | 0.74 |
| | max | lbin | 0.74 |
| Max number of wires simultaneously connectable | | Nr. | 2 |
| Conductor section | AWG/Kcmil | | |
| | | max | 2x 900 kcmil |
| Power terminal protection according to IEC/EN 60529 | | | IP00 |
| Mechanical features | | | |
| Operating position | | normal | Vertical plan |

| | | |
|--|-----------|--------------|
| Fixing | allowable | ±30° |
| Weight | Screw | |
| Conductor section | g | 26 |
| AWG/kcmil conductor section | max | 2x 900 kcmil |
| Operations | | |
| Mechanical life | cycles | 5000000 |
| Electrical life | cycles | 700000 |
| Safety related data | | |
| Performance level B10d according to EN/ISO 13489-1 | | |
| rated load | cycles | 700000 |
| mechanical load | cycles | 5000000 |
| Mirror contacts according to IEC/EN 609474-4-1 | | yes |
| EMC compatibility | | yes |
| AC coil operating | | |
| Rated AC voltage at 50/60Hz, 60Hz | min | V 380 |
| | max | V 415 |
| AC operating voltage | | |
| of 50/60Hz coil powered at 50Hz | | |
| pick-up | min | %Us 80 |
| | max | %Us 110 |
| drop-out | min | %Us 20 |
| | max | %Us 60 |
| of 50/60Hz coil powered at 60Hz | | |
| pick-up | min | %Us 80 |
| | max | %Us 110 |
| drop-out | min | %Us 20 |
| | max | %Us 60 |
| of 60Hz coil powered at 60Hz | | |
| pick-up | min | %Us 80 |
| | max | %Us 110 |
| drop-out | min | %Us 20 |
| | max | %Us 60 |
| AC average coil consumption at 20°C | | |
| of 50/60Hz coil powered at 50Hz | in-rush | VA 400 |
| | holding | VA 18 |
| of 50/60Hz coil powered at 60Hz | in-rush | VA 400 |
| | holding | VA 18 |
| Dissipation at holding ≤20°C 50Hz | W | 18 |
| DC coil operating | | |
| DC rated control voltage | min | V 380 |
| | max | V 415 |

DC operating voltage

| | | | |
|----------|-----|-----|-----|
| pick-up | min | %Us | 80 |
| | max | %Us | 110 |
| drop-out | min | %Us | 20 |
| | max | %Us | 60 |

Average coil consumption $\leq 20^{\circ}\text{C}$

| | | |
|---------|---|-----|
| in-rush | W | 400 |
| holding | W | 18 |

Max cycles frequency

Mechanical operation cycles/h 1200

Operating times

Average time for Us control
in AC

| | | | |
|------------|-----|----|-----|
| Closing NO | min | ms | 110 |
| | max | ms | 180 |
| Opening NO | min | ms | 60 |
| | max | ms | 100 |

| | | | | |
|------------|------------|-----|----|-----|
| in DC | Closing NO | min | ms | 110 |
| | | max | ms | 180 |
| Opening NO | | min | ms | 60 |
| | | max | ms | 100 |

UL technical data

General USE

| | | | |
|-----------|------------|---|------|
| Contactor | AC current | A | 1000 |
| | | | |

Short-circuit protection fuse, 600V

| | | | |
|----------------|-----------------------|----|------|
| Standard fault | Short circuit current | kA | 18 |
| | Fuse rating | A | 1500 |
| | Fuse class | L | |

Ambient conditions

Temperature

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

| | | | |
|---------------------|-----|----|-----|
| Storage temperature | min | °C | -60 |
| | max | °C | 80 |

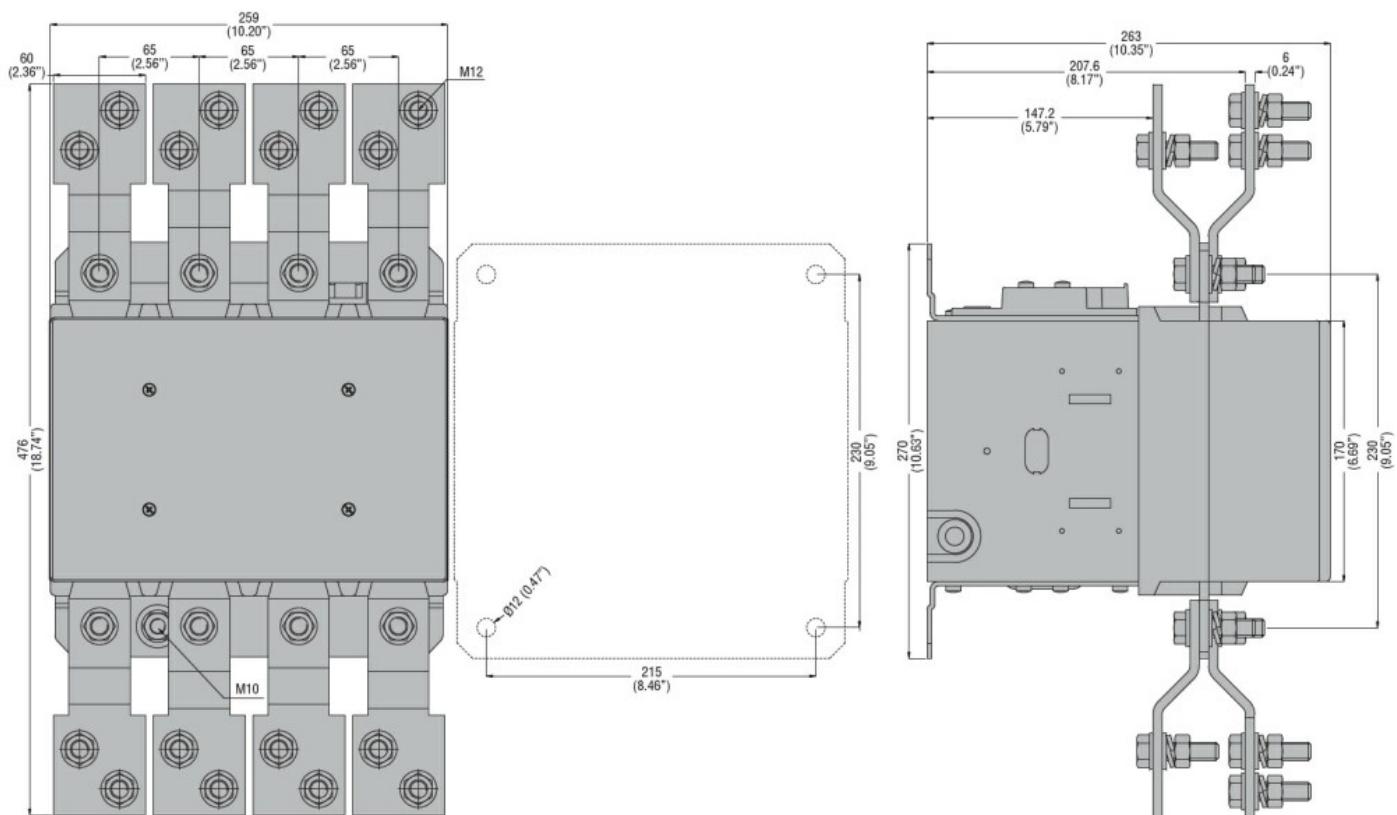
Max altitude

m 3000

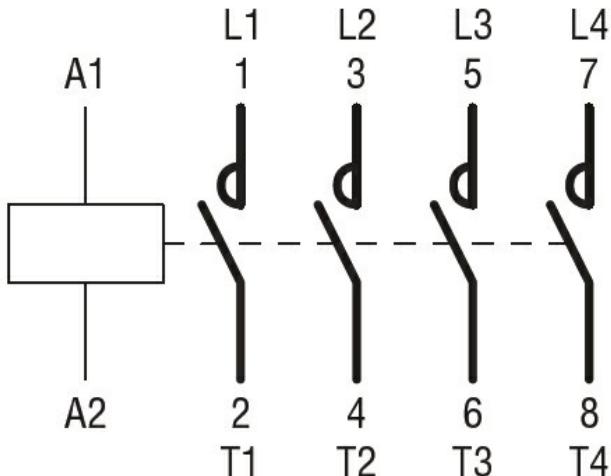
Resistance & Protection

Pollution degree 3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching