# 11B160024110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 1600A, AC COIL, 110...125VAC



| | | | |
|---|---|---|---|
| Product designation | | | Power contactor |
| Product type designation | | | B1600 |
| **Contact characteristics** | | | |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 8 |
| Operational frequency | | | |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | A | 1600 |
| Operational current Ie | | | |
| | AC-1 (≤40°C) | A | 1600 |
| | AC-1 (≤55°C) | A | 1360 |
| | AC-1 (≤70°C) | A | 1120 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 550 |
| | 400V | kW | 950 |
| | 500V | kW | 1200 |
| | 690V | kW | 1650 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | A | 8300 |
| Protection fuse | | | |
| | gG (IEC) | A | 1600 |
| Making capacity (RMS value) | | A | 6300 |
| Breaking capacity at voltage | | | |
| | 440V | A | 6300 |
| | 500V | A | 5600 |
| | 690V | A | 5000 |
| Resistance per pole (average value) | | mΩ | 7 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 180 |
| Tightening torque for terminals | | | |
| | min | Nm | 35 |
| | max | Nm | 35 |
| | min | Ibin | 25.8 |
| | max | Ibin | 25.8 |
| Max number of wires simultaneously connectable | | Nr. | 2 |
| Power terminal protection according to IEC/EN 60529 | | | IP00 |
| **Mechanical features** | | | |
| Operating position | | | |
| | normal | | Vertical plan |
| | allowable | | ±30° |
| Fixing | | | Screw |
| Weight | | g | 4950 |
| **Auxiliary contact characteristics** | | | |
| Thermal current Ith | | A | 16 |


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| | | | | |
|---|---|---|---|---|
| IEC/EN 60947-5-1 designation | | | | A600 - P600 |
| Operating current AC15 | | | | |
| | | 230V | A | 3 |
| | | 400V | A | 1.9 |
| | | 500V | A | 1.4 |
| Operating current DC12 | | | | |
| | | 110V | A | 5.7 |
| Operating current DC13 | | | | |
| | | 24V | A | 5.7 |
| | | 48V | A | 2.9 |
| | | 60V | A | 2.3 |
| | | 125V | A | 0.6 |
| | | 220V | A | 0.2 |
| | | 600V | A | 1.2 |
| **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 contats according to IEC/EN 609474-4-1 | | | | yes |
| EMC compatibility | | | | yes |
| **AC coil operating** | | | | |
| Rated AC voltage at 50/60Hz, 60Hz | | | | |
| | | min | V | 110 |
| | | max | V | 125 |
| 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 | 800 |
| | | holding | VA | 45 |
| | of 50/60Hz coil powered at 60Hz | | | |

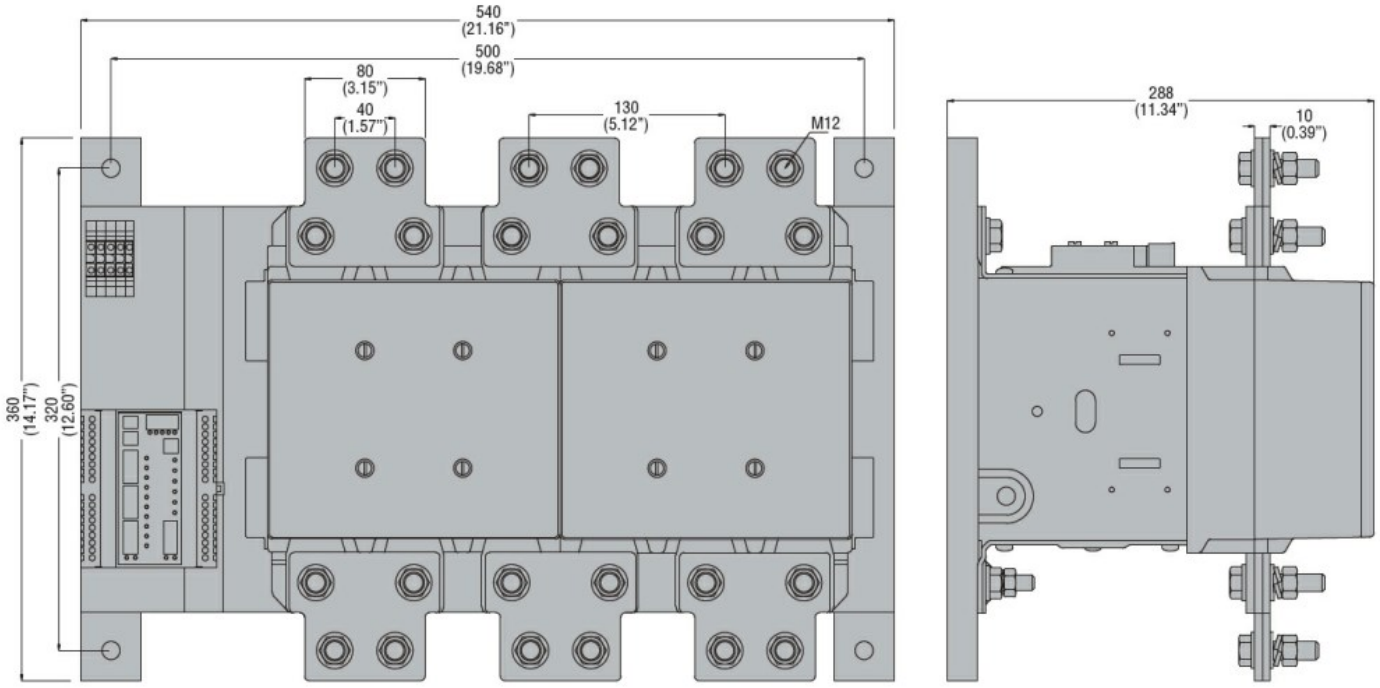

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| | | | | | |
|---|---|---|---|---|---|
| | | | in-rush | VA | 800 |
| | | | holding | VA | 45 |
| Dissipation at holding ≤20°C 50Hz | | | | W | 40 |
| **DC coil operating** | | | | | |
| DC rated control voltage | | | | | |
| | | | min | V | 110 |
| | | | max | V | 125 |
| DC operating voltage | | | | | |
| | pick-up | | | | |
| | | | min | %Us | 80 |
| **Max cycles frequency** | | | | | |
| Mechanical operation | | | | cycles/h | 1200 |
| **Operating times** | | | | | |
| Average time for Us control | | | | | |
| | in AC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 300 |
| | | | max | ms | 450 |
| | | Opening NO | | | |
| | | | min | ms | 70 |
| | | | max | ms | 130 |
| | in DC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 300 |
| | | | max | ms | 450 |
| | | Opening NO | | | |
| | | | min | ms | 70 |
| | | | max | ms | 130 |
| **UL technical data** | | | | | |
| Contact rating of auxiliary contacts according to UL | | | | | A600 - P600 |
| **Ambient conditions** | | | | | |
| Temperature | | | | | |
| | Operating temperature | | | | |
| | | | min | °C | -50 |
| | | | max | °C | 60 |
| | Storage temperature | | | | |
| | | | min | °C | -60 |
| | | | max | °C | 80 |
| Max altitude | | | | m | 3000 |
| **Resistance & Protection** | | | | | |
| Pollution degree | | | | | 3 |
| **Dimensions** | | | | | |

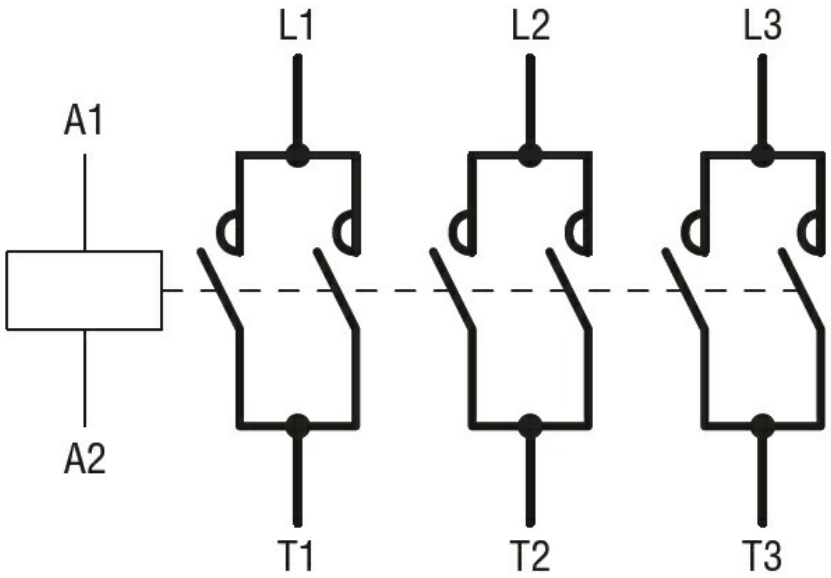

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## Wiring diagrams




## 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

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## ETIM classification

| | |
|---|---|
| ETIM 8.0 | EC000066 - Power contactor, AC switching |


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