# 11BG0610A02460

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 24VAC, 1NO AUXILIARY CONTACT

| | | | |
|---|---|---|---|
| Product designation | | | Power contactor |
| Product type designation | | | BG06 |
| **Contact characteristics** | | | |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | | |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | A | 16 |
| Operational current Ie | | | |
| | AC-1 (≤40°C) | A | 16 |
| | AC-1 (≤55°C) | A | 14 |
| | AC-1 (≤70°C) | A | 12 |
| | AC-3 (≤440V ≤55°C) | A | 6 |
| | AC-4 (400V) | A | 3.3 |
| Rated operational power AC-3 (T≤55°C) | | | |
| | 230V | kW | 1.5 |
| | 400V | kW | 2.2 |
| | 415V | kW | 2.4 |
| | 440V | kW | 2.5 |
| | 500V | kW | 3 |
| | 690V | kW | 3 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 6 |
| | 400V | kW | 10 |
| | 500V | kW | 13 |
| | 690V | kW | 18 |
| IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| | ≤24V | A | 9 |
| | 48V | A | 8 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | – |
| IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | A | 12 |
| | 48V | A | 11 |
| | 75V | A | 7 |
| | 110V | A | 6 |
| | 220V | A | – |
| IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | ≤24V | A | 14 |
| | 48V | A | 14 |
| | 75V | A | 8 |
| | 110V | A | 8 |

| | | | |
|---|---|---|---|
| | 220V | A | 1 |
| IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | A | – |
| | 48V | A | – |
| | 75V | A | – |
| | 110V | A | – |
| | 220V | A | – |
| IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | | |
| | ≤24V | A | 6 |
| | 48V | A | 5 |
| | 75V | A | 2 |
| | 110V | A | 1 |
| | 220V | A | – |
| IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | ≤24V | A | 7 |
| | 48V | A | 7 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | – |
| IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | A | 9 |
| | 48V | A | 9 |
| | 75V | A | 5 |
| | 110V | A | 4 |
| | 220V | A | 0,5 |
| IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | A | – |
| | 48V | A | – |
| | 75V | A | – |
| | 110V | A | – |
| | 220V | A | – |
| Short-time allowable current for 10s (IEC/EN60947-1) | | A | 96 |
| Protection fuse | | | |
| | gG (IEC) | A | 16 |
| | aM (IEC) | A | 6 |
| Making capacity (RMS value) | | A | 92 |
| Breaking capacity at voltage | | | |
| | 440V | A | 72 |
| | 500V | A | 72 |
| | 690V | A | 72 |
| Resistance per pole (average value) | | m? | 10 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |

| | | | | |
|---|---|---|---|---|
| | | max | lbin | 9 |
| Max number of wires simultaneously connectable | | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | |
| | | max | | 12 |
| | Flexible w/o lug conductor section | | | |
| | | min | mm² | 0.75 |
| | | max | mm² | 2.5 |
| | Flexible c/w lug conductor section | | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Power terminal protection according to IEC/EN 60529 | | | | IP20 when wired |
| **Mechanical features** | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 180 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| **Auxiliary contact characteristics** | | | | |
| Thermal current Ith | | | A | 10 |
| IEC/EN 60947-5-1 designation | | | | A600 - Q600 |
| Operating current AC15 | | | | |
| | | 230V | A | 3 |
| | | 400V | A | 1.9 |
| | | 500V | A | 1.4 |
| Operating current DC12 | | | | |
| | | 110V | A | 2.9 |
| Operating current DC13 | | | | |
| | | 24V | A | 2.9 |
| | | 48V | A | 1.4 |
| | | 60V | A | 1.2 |
| | | 110V | A | 0.6 |
| | | 125V | A | 0.55 |
| | | 220V | A | 0.3 |
| | | 600V | A | 0.1 |
| **Operations** | | | | |
| Mechanical life | | | cycles | 20000000 |
| Electrical life | | | cycles | 500000 |
| **Safety related data** | | | | |
| Performance level B10d according to EN/ISO 13489-1 | | | | |
| | | rated load | cycles | 500000 |
| | | mechanical load | cycles | 20000000 |
| Mirror contats according to IEC/EN 609474-4-1 | | | | yes |
| EMC compatibility | | | | yes |
| **AC coil operating** | | | | |
| Rated AC voltage at 60Hz | | | V | 24 |

| | | | | | |
|---|---|---|---|---|---|
| AC operating voltage | | | | | |
| | of 60Hz coil powered at 60Hz | | | | |
| | | pick-up | | | |
| | | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | | drop-out | | | |
| | | | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consumption at 20°C | | | | | |
| | of 50/60Hz coil powered at 50Hz | | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil powered at 60Hz | | | | |
| | | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil powered at 60Hz | | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| Dissipation at holding ≤20°C 50Hz | | | | W | 0.95 |
| **Max cycles frequency** | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| **Operating times** | | | | | |
| Average time for Us control | | | | | |
| | in AC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 12 |
| | | | max | ms | 21 |
| | | Opening NO | | | |
| | | | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | | | |
| | | | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | | | |
| | | | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NO | | | |
| | | | min | ms | 2 |
| | | | max | ms | 3 |
| | | Closing NC | | | |
| | | | min | ms | 3 |
| | | | max | ms | 5 |
| | | Opening NC | | | |
| | | | min | ms | 11 |
| | | | max | ms | 17 |
| **UL technical data** | | | | | |
| Full-load current (FLA) for three-phase AC motor | | | | | |
| | | | at 480V | A | 4.8 |
| | | | at 600V | A | 3.9 |
| Yielded mechanical performance | | | | | |

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 24VAC, 1NO AUXILIARY CONTACT

| | | | | |
|---|---|---|---|---|
| | for single-phase AC motor | | | |
| | | 110/120V | HP | 0.3 |
| | | 230V | HP | 1 |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | | | |
| | Contactor | | | |
| | | AC current | A | 16 |
| Short-circuit protection fuse, 600V | | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | A | 30 |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | A | 30 |
| Contact rating of auxiliary contacts according to UL | | | | A600 - Q600 |

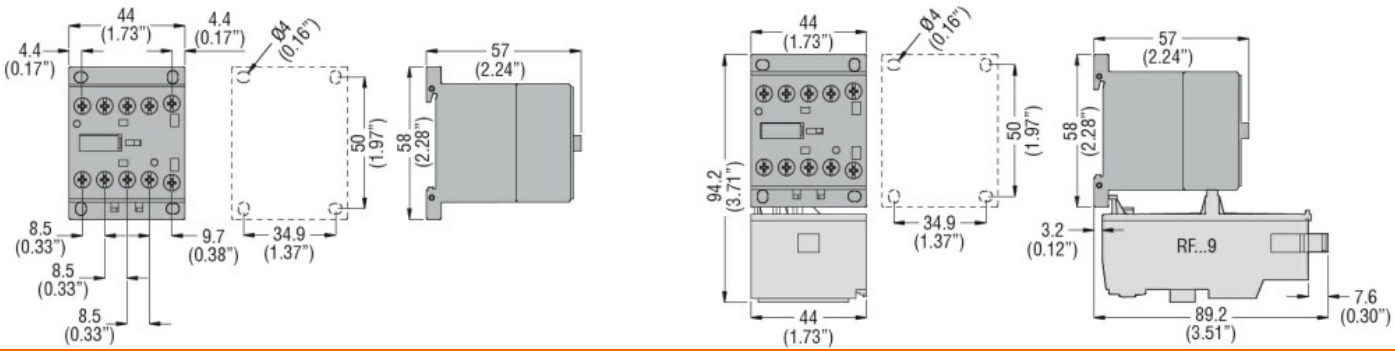
## Ambient conditions

| | | | | |
|---|---|---|---|---|
| Temperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | +70 |
| | Storage temperature | | | |
| | | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | | m | 3000 |

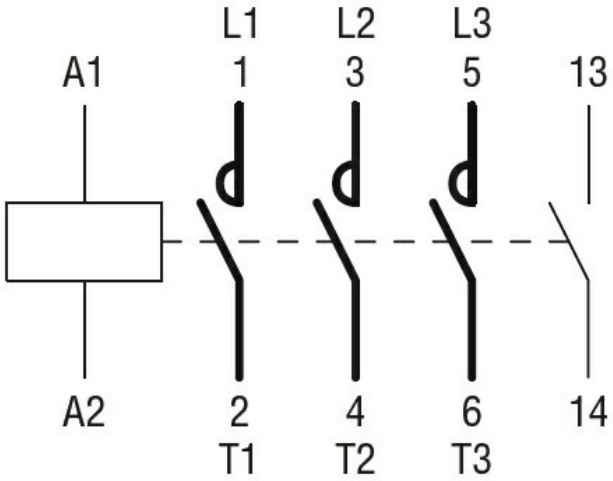
## Resistance & Protection

| | |
|---|---|
| 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 |