# 11BG0031A22060

CONTROL RELAY WITH CONTROL CIRCUIT: AC AND DC, BG00 TYPE, AC COIL 60HZ, 220VAC, 3NO AND 1NC

| | | | |
|---|---|---|---|
| Product designation | | | Auxiliary contactor |
| Product type designation | | | BG00 |
| **Contact characteristics** | | | |
| Number of poles | | nr. | 4 |
| Rated insulation voltage Ui | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operating frequency | | | |
| | Operational frequency min | Hz | 25 |
| | Operational frequency max | Hz | 400 |
| Conventional free air thermal current Ith | | A | 10 |
| Protection fuse | | | |
| | gG (IEC) | A | 16 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbft | 0.59 |
| | max | lbft | 0.74 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbft | 0.8 |
| | max | lbft | 0.74 |
| max number of wires simultaneously connectable | | nr. | 2 |
| Conductor section | | | |
| AWG | | | |
| | min | | 18 |
| | 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 |
| **Auxiliary contact characteristics** | | | |
| Type of contact | | | 3 NO + 1 NC |
| Thermal current Ith | | A | 10 |
| IEC/EN 60947-5-1 designation | | | A600 - Q600 |
| Operating current AC15 | | | |
| | 230V | A | 3 |
| | 400V | A | 1.9 |


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| | | | | | |
|---|---|---|---|---|---|
| | | | 500V | A | 1.4 |
| Operating current DC12 | | | | | |
| | | | 110V | A | 2.9 |
| Operating current DC13 | | | | | |
| | | | 24V | A | 2.9 |
| | | | 48V | A | 1.4 |
| | | | 60V | A | 1.1 |
| | | | 110V | A | Screw / DIN rail 35mm |
| | | | 125V | A | 0.3 |
| | | | 220V | A | 0.1 |
| | | | 600V | A | 0.6 |
| **Ambient conditions** | | | | | |
| Temperature | | | | | |
| | Operating temperature | | | | |
| | | | min | °C | -40 |
| | | | max | °C | 60 |
| | Storage temperature | | | | |
| | | | min | °C | -55 |
| | | | max | °C | 70 |
| Max altitude | | | | m | 3000 |
| Operating position | | | | | |
| | | | normal | | Vertical plan |
| | | | allowable | | ±30° |
| Mounting | | | | | Screw / DIN rail 35mm |
| Weight | | | | g | 0.184 |
| **Operations** | | | | | |
| Mechanical life | | | | Cycles | 20000000 |
| **Safety related data** | | | | | |
| Performance level B10d according to EN/ISO 13489-1 | | | | | |
| | | | mechanical load | Cicli | 20000000 |
| EMC compatibility | | | | | yes |
| **AC coil operating** | | | | | |
| AC operating voltage | | | | | |
| | of 50/60Hz coil powered at 50Hz | | | | |
| | | pick-up | | | |
| | | | min | %Us | 0.75 |
| | | | max | %Us | 1.15 |
| | | drop-out | | | |
| | | | min | %Us | 0.2 |
| | | | max | %Us | 0.55 |
| | of 50/60Hz coil powered at 60Hz | | | | |
| | | pick-up | | | |
| | | | min | %Us | 0.8 |
| | | | max | %Us | 1.15 |
| | | drop-out | | | |
| | | | min | %Us | 0.2 |
| | | | max | %Us | 0.55 |
| | of 60Hz coil powered at 60Hz | | | | |
| | | pick-up | | | |
| | | | min | %Us | 0.75 |
| | | | max | %Us | 1.15 |
| | | drop-out | | | |


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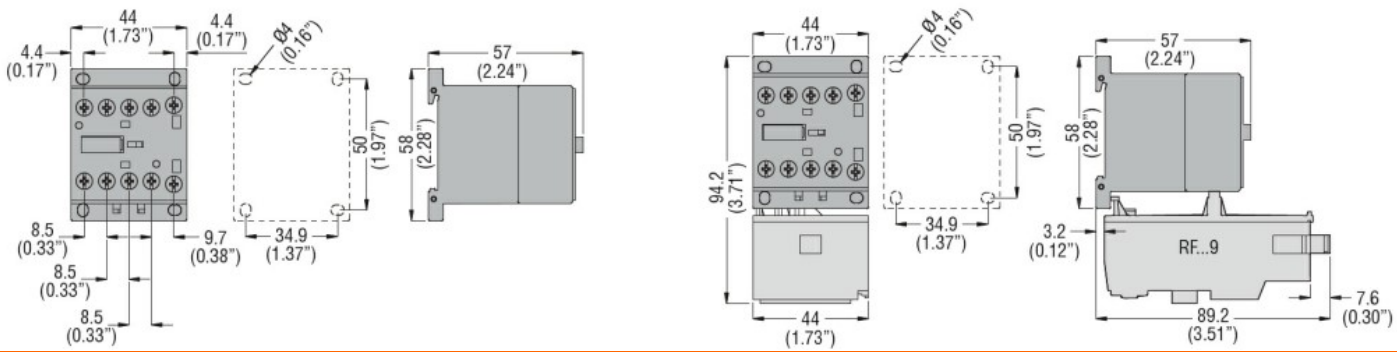
| | | | | |
|---|---|---|---|---|
| | | min | %Us | 0.2 |
| | | max | %Us | 0.55 |
| AC operating voltage | | | | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | | in-rush | VA | 30 |
| | | holding | VA | 4 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | | in-rush | VA | 25 |
| | | holding | VA | 3 |
| | of 60Hz coil powered at 60Hz | | | |
| | | in-rush | VA | 30 |
| | | holding | VA | 4 |
| Dissipation at holding ≤20°C 50Hz | | | W | 0.95 |
| **DC coil operating** | | | | |
| DC operating voltage | | | | |
| Average coil consuption ≤20°C | | | | |
| | | in-rush | W | 3.2 |
| | | holding | W | 3.2 |
| **Max cycles frequency** | | | | |
| Mechanical operations | | | 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 |
| **UL technical data** | | | | |
| Contact rating of auxiliary contacts according to UL | | | | A600 - Q600 |
| **Other features** | | | | |
| Pollution degree | | | | 3 |

**Dimensions**




**Wiring diagrams**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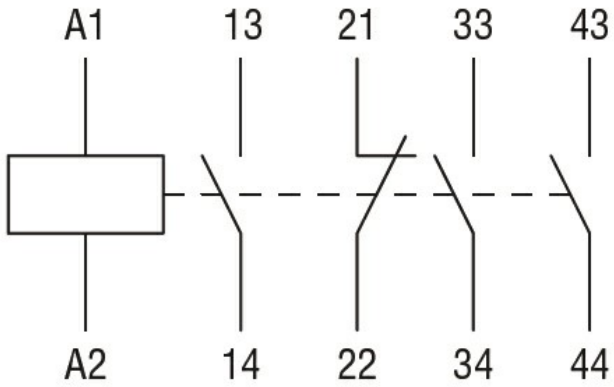


## Certifications and compliance

Certifications

| |
|---|
| CSA C22.2 n° 60947-1 |
| CSA C22.2 n° 60947-5-1 |
| IEC/EN 60947-1 |
| IEC/EN 60947-5-1 |
| UL 60947-1 |
| UL 60947-5-1 |

Compliance

| |
|---|
| cULus |
| EAC |

## ETIM 6 classification

EC000066 - Power contactor, AC switching


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