



| Product designation Product type designation | | | Power contactor BGP09 |
|--|--------------------|------|--------------------------|
| Contact characteristics | | | |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 500 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | | |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | А | 20 |
| Operational current le | | | |
| • | AC-1 (≤40°C) | А | 20 |
| | AC-1 (≤55°C) | А | 18 |
| | AC-1 (≤70°C) | А | 15 |
| | AC-3 (≤440V ≤55°C) | А | 9 |
| | AC-4 (400V) | А | 4 |
| Rated operational power AC-3 (T≤55°C) | · · · | | |
| | 230V | kW | 2.2 |
| | 400V | kW | 4 |
| | 415V | kW | 4.3 |
| | 440V | kW | 4.5 |
| | 500V | kW | 5 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 8 |
| | 400V | kW | 14 |
| | 500V | kW | 16 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | А | 96 |
| Protection fuse | | | |
| | gG (IEC) | А | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | А | 72 |
| | 500V | Α | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 4 |
| | AC-3 | W | 0.81 |
| 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 |



11BGP0910A400 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

| | | 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 | 0.8 |
| | | 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 |
| - | ction according to IEC/EN 60529 | | | IP00 |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 195 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | | | |
| Thermal current Ith | | | А | 10 |
| IEC/EN 60947-5-1 de | esignation | | | A600 - Q600 |
| Operating current AC | 15 | | | |
| | | 230V | А | 3 |
| | | 400V | А | 1.9 |
| | | 500V | А | 1.4 |
| Operating current DC | 12 | | | |
| | | 110V | А | 2.9 |
| Operating current DC | 13 | | | |
| | | 24V | А | 2.9 |
| | | 48V | A | 1.4 |
| | | 40V 60V | A | 1.1 |
| | | 125V | A | 0.3 |
| | | 220V | A | 0.1 |
| | | 600V | A | 0.6 |
| Operations | | 0007 | | 5.0 |
| Mechanical life | | | cycles | 20000000 |
| Electrical life | | | cycles | 500000 |
| Safety related data | | | 0,0100 | 50000 |
| | 0d according to EN/ISO 13489-1 | | | |
| | 100 according to E14/100 10403-1 | rated load | ovoloo | 500000 |
| | | chanical load | cycles cycles | 2000000 |
| Mirror contate accerd | | | CYCIES | |
| | ing to IEC/EN 609474-4-1 | | | yes |
| EMC compatibility | | | | yes |
| AC coil operating | | | | |

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| AC operating voltage | 50/60Hz | | | V | 400 |
|--------------------------------------|------------------|--|--|--|---|
| | ; | | | | |
| | of 50/60Hz coil | powered at 50Hz | | | |
| | | pick-up | | | |
| | | | min | %Us | 75 |
| | | drop out | max | %Us | 115 |
| | | drop-out | min | %Us | 20 |
| | | | max | %Us | 20 55 |
| | of 50/60Hz coil | powered at 60Hz | Πάλ | /003 | 55 |
| | | pick-up | | | |
| | | plot up | min | %Us | 80 |
| | | | max | %Us | 115 |
| | | drop-out | | , | |
| | | · | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil cons | sumption 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 po | wered at 60Hz | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| Dissipation at holding | | | | W | 0.95 |
| Max cycles frequency | | | | ovoloo/b | 2600 |
| Mechanical operation Operating times | 1 | | | cycles/h | 3000 |
| Average time for Us | control | | | | |
| werage and to 03 | | | | | |
| | III AL. | | | | |
| | in AC | Closing NO | | | |
| | III AU | Closing NO | min | ms | 12 |
| | III AU | Closing NO | min max | ms ms | 12 21 |
| | III AU | | min max | ms ms | 12 21 |
| | III AC | Closing NO Opening NO | | | |
| | III AU | | max | ms | 21 |
| | III AC | | max | ms ms | 21 9 |
| | III AC | Opening NO | max | ms ms | 21 9 18 17 |
| | III AU | Opening NO Closing NC | max min max | ms ms ms | 21 9 18 |
| | III AC | Opening NO | max min max min max | ms ms ms ms ms | 21 9 18 17 26 |
| | III AC | Opening NO Closing NC | max min max min | ms ms ms ms | 21 9 18 17 26 7 |
| | | Opening NO Closing NC | max min max min max | ms ms ms ms ms | 21 9 18 17 26 |
| | in AC | Opening NO Closing NC Opening NC | max min max min max min | ms ms ms ms ms | 21 9 18 17 26 7 |
| | | Opening NO Closing NC | max min max min max min max | ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | | Opening NO Closing NC Opening NC | max min max min max min max | ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 18 |
| | | Opening NO Closing NC Opening NC Closing NO | max min max min max min max | ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | | Opening NO Closing NC Opening NC | max min max min max min max | ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 18 25 |
| | | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max min | ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 18 25 2 |
| | | Opening NO Closing NC Opening NC Closing NO Opening NO | max min max min max min max | ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 18 25 |
| | | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max min | ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 18 25 2 |

11BGP0910A400 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

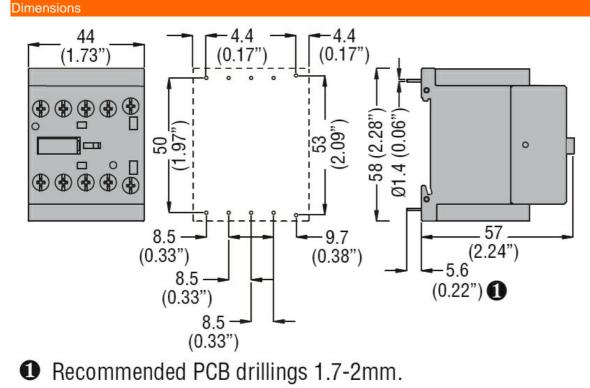
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

| Opening NC | | | |
|--|------------|----|-------------|
| | min | ms | 11 |
| | max | ms | 17 |
| UL technical data | | | |
| Full-load current (FLA) for three-phase AC motor | | | |
| | at 480V | А | 7.6 |
| | at 600V | А | 6.1 |
| Yielded mechanical performance | | | |
| for single-phase AC motor | | | |
| | 110/120V | HP | 0.5 |
| | 230V | HP | 1.5 |
| for three-phase AC motor | | | |
| | 200/208V | HP | 2 |
| | 220/230V | HP | 3 |
| | 460/480V | HP | 5 |
| | 575/600V | HP | 5 |
| General USE | | | |
| Contactor | | | |
| | AC current | А | 20 |
| 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 |

Pollution degree

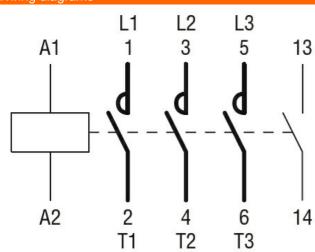




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ENERGY AND AUTOMATION

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 | |
| | cURus |
| | EAC |
| ETIM classification | |

ETIM 8.0

EC000066 -Power contactor, AC switching