



| Product designation | | | Power contactor |
|--|------------------------------|-----------------|-----------------|
| Product type designation | | | BG09 |
| Contact characteristics | | Nla | 4 |
| Number of poles | | Nr. | 4 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | | 25 |
| | min | Hz Hz | 25 |
| IEC Conventional free air thermal current Ith | max | <u>п</u> 2 А | 400 20 |
| Operational current le | | A | 20 |
| Operational current le | AC-1 (≤40°C) | А | 20 |
| | AC-1 (≤40 C) AC-1 (≤55°C) | A | 18 |
| | AC-1 (≤35 C) AC-1 (≤70°C) | A | 15 |
| | AC-3 (≤440V ≤55°C) | A | 9 |
| | AC-4 (400V) | A | 4 |
| Rated operational power AC-1 (T≤40°C) | 70 + (+001) | Α | |
| | 230V | kW | 8 |
| | 400V | kW | 14 |
| | 400V 500V | kW | 16 |
| | 690V | kW | 22 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| | ≤24V | А | 12 |
| | 48V | A | 10 |
| | 75V | А | 4 |
| | 110V | А | 3 |
| | 220V | А | - |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | А | 15 |
| | 48V | А | 14 |
| | 75V | А | 9 |
| | 110V | А | 8 |
| | 220V | Α | _ |
| IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series | | | |
| | ≤24V | А | 16 |
| | 48V | А | 16 |
| | 75V | А | 10 |
| | 110V | А | 10 |
| | 220V | A | 2 |
| IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series | | | |
| | ≤24V | A | 16 |
| | 48V | A | 16 |
| | 75V | A | 10 |
| | 110V | A | 10 |
| | 220V | А | 2 |



| Fle | exible w/o lug conductor section | | | |
|-------------------------------|--|-------------|--------------|----------|
| , () | | max | | 12 |
| | VG/Kcmil | | | |
| Conductor section | | | INI. | ۷. |
| Max number of wires simul | taneously connectable | max | Nr. | 9 |
| | | min | lbin Ibin | 9 |
| | | max | Nm Ibin | 1 |
| | | min | Nm | 0.8 |
| Tightening torque for coil te | erminal | ! | N I.e | 0.9 |
| Tightoning torque for asil to | rminol | max | lbin | 9 |
| | | min | lbin Ibin | 9 |
| | | max | Nm | 1 |
| | | min | Nm | 0.8 |
| Tightening torque for termin | nals | <u>.</u> | | |
| | | AC-3 | W | 0.81 |
| | | Ith | W | 4 |
| Power dissipation per pole | (average value) | | | |
| Resistance per pole (avera | | | mΩ | 10 |
| | | 690V | Α | 72 |
| | | 500V | А | 72 |
| <u> </u> | | 440V | А | 72 |
| Breaking capacity at voltag | | | | |
| Making capacity (RMS valu | e) | . / | А | 92 |
| | | aM (IEC) | А | 10 |
| | | gG (IEC) | А | 20 |
| Protection fuse | | | | |
| Short-time allowable currer | nt for 10s (IEC/EN60947-1) | | А | 96 |
| | | 220V | A | 0,8 |
| | | 110V | A | 5 |
| | | 75V | A | 6 |
| | | 48V | A | 10 |
| | | ≤24V | А | 10 |
| IFC max current le in DC3. | -DC5 with L/R \leq 15ms with 4 poles in series | 220 V | | 0,0 |
| | | 220V | A | 0,8 |
| | | 110V | A | 5 |
| | | 48V 75V | A | 6 |
| | | ≤24V 48V | A A | 10 10 |
| ied max current le in DC3- | -DC5 with $L/R \le 15$ ms with 3 poles in series | -0 AV | ۸ | 10 |
| | DOE with $1/D < 4E$ may with $2 = 1 = 2$ in a size | 220V | A | _ |
| | | 110V | A | 4 |
| | | 75V | A | 5 |
| | | 48V | A | 8 |
| | | ≤24V | Α | 8 |
| IEC max current le in DC3- | -DC5 with L/R \leq 15ms with 2 poles in series | | | |
| | | 220V | Α | _ |
| | | 110V | А | 1 |
| | | 75V | А | 2 |
| | | 48V | А | 6 |
| | | | А | |



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| | | max | mm² | 2.5 |
|--|--|-------------------------------|-----------|--------------------------|
| Fle | xible c/w lug conductor section | max | | |
| | 0 | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Flex | xible with insulated spade lug conductor | or section | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Power terminal protection a | ccording to IEC/EN 60529 | | | IP20 when |
| Mechanical features | | | | properly wired |
| Operating position | | | | |
| - F | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 220 |
| Conductor section | | | <u> </u> | |
| | G/kcmil conductor section | | | |
| | - | max | | 12 |
| Auxiliary contact characteris | tics | | | |
| Thermal current Ith | | | А | 10 |
| IEC/EN 60947-5-1 designation | tion | | | Q600 |
| Operations | | | | |
| Mechanical life | | | cycles | 2000000 |
| Electrical life | | | cycles | 500000 |
| Safety related data | | | | |
| Performance level B10d ac | cording to EN/ISO 13489-1 | ار م ما ار م م م | | 500000 |
| | | rated load mechanical load | cycles | 500000 |
| Mirror contats according to | IEC/EN 609474-4-1 | mechanicarioau | cycles | 20000000 yes |
| EMC compatibility | 10/LN 0034/4-4-1 | | | yes |
| DC coil operating | | | | yes |
| DC rated control voltage | | | V | 110 |
| DC operating voltage | | | | |
| | <-up | | | |
| | | min | %Us | 75 |
| | | max | %Us | 115 |
| dro | p-out | | | |
| | | min | %Us | 10 |
| A 11 17 | | max | %Us | 25 |
| Average coil consumption ≤ | ;20°C | | | |
| | | in-rush | W | 3.2 |
| Max cycles frequency | | holding | W | 3.2 |
| Max cycles frequency Mechanical operation | | | cycles/h | 3600 |
| Operating times | | | 0y0100/11 | |
| Average time for Us control | | | | |
| in A | | | | |
| , | Closing NO | | | |
| | - 6 - | min | ms | 12 |
| | | max | ms | 21 |
| | Opening NO | | | |
| | | | | 0 |
| | | min | ms | 9 18 |

11BG09T4D110The 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

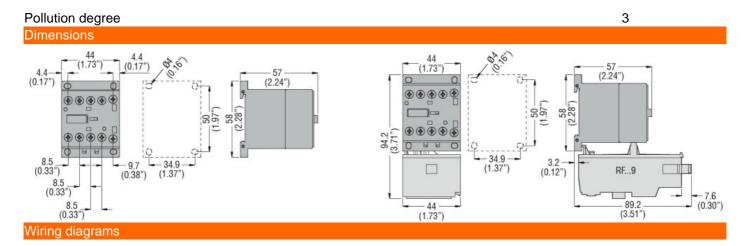


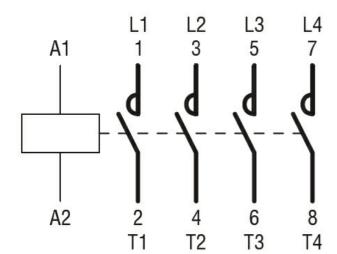
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| | | Closing NC | | | |
|--------------------------|---------------------|-------------|-----------------------|----------|--------|
| | | Closing NO | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | | | |
| | | 5 - 1 - 5 - | min | ms | 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 A | motor | | • | 7.0 |
| | | | at 480V | A | 7.6 |
| <u></u> | , | | at 600V | A | 6.1 |
| Yielded mechanical po | | | | | |
| | for single-phase | AC motor | 440/4001 | | o = |
| | | | 110/120V | HP | 0.5 |
| | fea thus a share A | O motor | 230V | HP | 1.5 |
| | for three-phase A | C motor | 200/2001/ | | 0 |
| | | | 200/208V | HP | 2 |
| | | | 220/230V 460/480V | HP | 3 |
| | | | 400/480V 575/600V | HP HP | 5 5 |
| General USE | | | 575/0001 | I IF | 5 |
| General USL | Contactor | | | | |
| | Contactor | | AC current | А | 20 |
| Short-circuit protection | n fuse 600V | | AO current | Α | 20 |
| | 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 |
| | | | Fuse class | | RK5 |
| Ambient conditions | | | | | |
| Temperature | | | | | |
| | Operating temper | rature | | | |
| | | | min | °C | -50 |
| | | | max | °C | +70 |
| | Storage temperat | ture | | | |
| | | | min | °C | -60 |
| | | | max | °C | +80 |
| Max altitude | | | | m | 3000 |
| Resistance & Protecti | on | | | | |



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| Certifications | and | com | nlianco |
|----------------|-----|------|---------|
| Certifications | anu | COIL | pliance |

| 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 | | |
| | | EC000066 - |

ETIM 8.0

EC000066 -Power contactor, AC switching