



| Product designation | | | Power contacto |
|--|--------------------|-----|----------------|
| Product type designation | | | BG09 |
| 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 | | Α | 20 |
| Operational current le | | | |
| | AC-1 (≤40°C) | А | 20 |
| | AC-1 (≤55°C) | Α | 18 |
| | AC-1 (≤70°C) | Α | 15 |
| | AC-3 (≤440V ≤55°C) | Α | 9 |
| | AC-4 (400V) | Α | 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 |
| | 690V | kW | 5 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 8 |
| | 400V | kW | 14 |
| | 500V | kW | 16 |
| | 690V | kW | 22 |
| IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series | | | |
| | ≤24V | А | 12 |
| | 48V | А | 10 |
| | 75V | Α | 4 |
| | 110V | А | 3 |
| | 220V | А | - |
| IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series | | | |
| | ≤24V | А | 15 |
| | 48V | А | 14 |
| | 75V | А | 9 |
| | 110V | А | 8 |
| | 220V | А | _ |
| 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 |
| | 750 | / \ | 10 |

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| | 220V | А | 2 |
|---|----------|------------|------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | А | 16 |
| | 48V | A | 16 |
| | 75V | A | 10 |
| | 110V | А | 10 |
| | 220V | А | 2 |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series | | | |
| | ≤24V | А | 7 |
| | 48V | A | 6 |
| | 75V | А | 2 |
| | 110V | А | 1 |
| | 220V | А | _ |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series | | | |
| | ≤24V | А | 8 |
| | 48V | А | 8 |
| | 75V | А | 5 |
| | 110V | А | 4 |
| | 220V | A | _ |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series | | | |
| | ≤24V | А | 10 |
| | 48V | A | 10 |
| | 75V | A | 6 |
| | 110V | A | 5 |
| | 220V | A | 0,8 |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series | 2201 | 71 | |
| | ≤24V | А | 10 |
| | 48V | A | 10 |
| | 75V | A | 6 |
| | 110V | A | 5 |
| | 220V | A | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | А | 96 |
| Protection fuse | | | |
| | gG (IEC) | А | 20 |
| | aM (IEC) | A | 10 |
| Making capacity (RMS value) | | A | 92 |
| Breaking capacity at voltage | | 7 | 52 |
| Licensing outpuolity at rollago | 440V | А | 72 |
| | 500V | A | 72 |
| | 690V | A | 72 |
| Resistance per pole (average value) | 0001 | mΩ | 10 |
| Power dissipation per pole (average value) | | 11152 | 10 |
| Tower dissipation per pole (average value) | lth | W | 4 |
| | AC-3 | W | 0.81 |
| Tightening torque for terminals | A0 0 | ~ ~ | 0.01 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | Ibin | 9 |
| Tightening torque for coil terminal | Παλ | | 3 |
| | min | Nm | 0.8 |
| | min | | |
| | max | Nm Ihin | 1 |
| | min | lbin | 9 |

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| A | | max | Ibin | 9 |
|--|--|---|--|---|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | 10 |
| | | max | | 12 |
| | Flexible w/o lug conductor section | min | mm² | 0.75 |
| | | max | mm² | 2.5 |
| | Flexible c/w lug conductor section | max | 111111 | 2.5 |
| | Flexible c/w lug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | max | 111111 | 2.5 |
| | Texible with insulated spade log conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | Шах | | IP20 when |
| Power terminal prote | ection according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | property milea |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| | | | | Screw / DIN rai |
| Fixing | | | | 35mm |
| Veight | | | g | 200 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| к ни | restariation | | | |
| Auxiliary contact chai | racteristics | | | |
| Auxiliary contact chai Thermal current Ith | | | А | 10 |
| | | | A | 10 A600 - Q600 |
| Thermal current Ith | esignation | | A | |
| Thermal current Ith EC/EN 60947-5-1 d | esignation | 230V | A | |
| Thermal current Ith EC/EN 60947-5-1 d | esignation | 230V 400V | | A600 - Q600 |
| Thermal current Ith EC/EN 60947-5-1 d | esignation | | A | A600 - Q600 3 |
| Thermal current Ith EC/EN 60947-5-1 d | esignation C15 | 400V | A A | A600 - Q600 3 1.9 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 | 400V | A A | A600 - Q600 3 1.9 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 400V 500V | A A A | A600 - Q600 3 1.9 1.4 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 400V 500V | A A A | A600 - Q600 3 1.9 1.4 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 400V 500V 110V | A A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 400V 500V 110V 24V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 400V 500V 110V 24V 48V | A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 400V 500V 110V 24V 48V 60V | A A A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 400V 500V 110V 24V 48V 60V 110V | A A A A A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 400V 500V 110V 24V 48V 60V 110V 125V | A A A A A A A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC | esignation C15 C12 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operations Mechanical life | esignation C15 C12 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A Cycles | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation C15 C12 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A Cycles | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation C15 C12 C13 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A Cycles | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation C15 C12 C13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A A Cycles cycles | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B | esignation C15 C12 C13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 |



11BG0901L048 THREE-POLE CONTACTOR, I

| IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW |
|--|
| CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT |

| DC rated control volta | ade | | | V | 48 |
|------------------------|----------------------|--------------|-------------|----------|----------|
| DC operating voltage | - | | | • | |
| | pick-up | | | | |
| | | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | drop-out | | | | |
| | | | min | %Us | 10 |
| | | | max | %Us | 25 |
| Average coil consum | ption ≤20°C | | | | |
| | | | in-rush | W | 2.3 |
| | | | holding | W | 2.3 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us of | | | | | |
| | in AC | | | | |
| | | Closing NO | ~ in | me | 12 |
| | | | min max | ms ms | 21 |
| | | Opening NO | IIIdX | 1115 | <u> </u> |
| | | | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | | | |
| | | 5 - 5 - 5 | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | | | |
| | | . 2 | 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 | me | 3 |
| | | | max | ms ms | 5 |
| | | Opening NC | Παλ | 1113 | 5 |
| | | Cpoining 100 | min | ms | 11 |
| | | | max | ms | 17 |
| UL technical data | | | | - | |
| Full-load current (FLA | A) for three-phase A | AC motor | | | |
| | - | | at 480V | А | 7.6 |
| | | | at 600V | А | 6.1 |
| Yielded mechanical p | | | | | |
| | 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 |

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Contactor

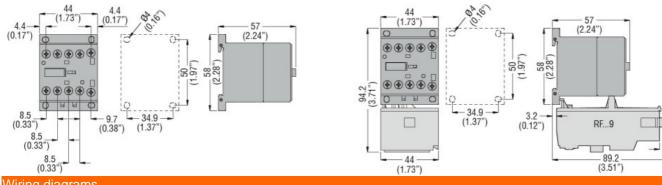
General USE

11BG0901L048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

AC current 20 А Short-circuit protection fuse, 600V High fault Short circuit current 100 kΑ Fuse rating А 30 Fuse class J Standard fault Short circuit current 5 kΑ Fuse rating А 30 Fuse class RK5 Contact rating of auxiliary contacts according to UL A600 - Q600 Ambient conditions Temperature Operating temperature °C -50 min °C +70 max Storage temperature

| | min max | °C °C | -60 +80 | |
|-------------------------|------------|----------|------------|--|
| Max altitude | | m | 3000 | |
| Resistance & Protection | | | | |

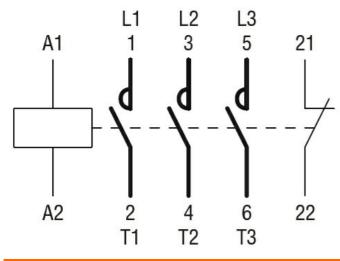
3



Wiring diagrams

Pollution degree

Dimensions



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

7.6

(0.30")



11BG0901L048 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

| | 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