11BG0901D012 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 12VDC, 1NC AUXILIARY CONTACT



| Product designation | | | Power contactor |
|--|------------------------------|--------|-----------------|
| Product type designation Contact characteristics | | | BG09 |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | κv | 0 |
| Operational nequency | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | Παλ | A | 20 |
| Operational current le | | ~ | 20 |
| Operational current le | AC-1 (≤40°C) | ۸ | 20 |
| | AC-1 (≤40 C) AC-1 (≤55°C) | A 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-3 (T≤55°C) | 70-4 (4007) | ~ | 7 |
| | 230V | kW | 2.2 |
| | 400V | kW | 4 |
| | 400V 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 | А | 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 |
| | 110V | А | 10 |

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 12VDC, 1NC AUXILIARY CONTACT

220V А 2 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V А 16 48V А 16 75V А 10 110V А 10 220V А 2 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V А 7 48V 6 А 75V 2 А 110V А 1 220V А IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V А 8 48V 8 А 75V А 5 110V А 4 220V А _ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24V А 10 48V 10 А 75V А 6 110V А 5 220V А 0,8 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V А 10 48V А 10 75V А 6 110V 5 А 220V 0.8 А Short-time allowable current for 10s (IEC/EN60947-1) А 96 Protection fuse gG (IEC) А 20 aM (IEC) А 10 Making capacity (RMS value) А 92 Breaking capacity at voltage 440V А 72 500V А 72 690V А 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) W 4 lth 0.81 AC3 W Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 lbin 9 max Tightening torque for coil terminal min Nm 0.8 Nm 1 max min lbin 9



electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 12VDC, 1NC

AUXILIARY CONTACT

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| | | max | Ibin | 9 |
|--|---|---|--|--|
| | s simultaneously connectable | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | 10 |
| | Flovible w/e lug conductor acction | max | | 12 |
| | Flexible w/o lug conductor section | min | mm² | 0.75 |
| | | max | mm² | 2.5 |
| | Flexible c/w lug conductor section | Шах | | 2.0 |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Dower terminal prote | action according to IEC/EN 60520 | | | IP20 when |
| Power terminal prote | ection according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rai |
| | | | | 35mm |
| Weight | | | g | 216 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | | | 10 |
| Auxiliant contact cho | | max | | 12 |
| Auxiliary contact cha | racteristics | max | ۸ | |
| Thermal current Ith | | max | A | 10 |
| Thermal current Ith IEC/EN 60947-5-1 d | lesignation | max | A | |
| Thermal current Ith | lesignation | | | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 d | lesignation | 230V | A | 10 A600 - Q600 3 |
| Thermal current Ith IEC/EN 60947-5-1 d | lesignation | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current A0 | lesignation C15 | 230V | A | 10 A600 - Q600 3 |
| Thermal current Ith IEC/EN 60947-5-1 d | lesignation C15 | 230V 400V 500V | A A A | 10 A600 - Q600 3 1.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC | lesignation C15 C12 | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current A0 | lesignation C15 C12 | 230V 400V 500V 110V | A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC | lesignation C15 C12 | 230V 400V 500V 110V 24V | A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC | lesignation C15 C12 | 230V 400V 500V 110V 24V 48V | A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC | lesignation C15 C12 | 230V 400V 500V 110V 24V | A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC | lesignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V | A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC | lesignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V | A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC | lesignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V | A A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC | lesignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC | lesignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life | lesignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Thermal current Ith IEC/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 | lesignation C15 C12 C13 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A A Cycles | 10 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 IEC/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 | lesignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A A Cycles | 10 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 IEC/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 | lesignation C15 C12 C13 C13 C13 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A A A Cycles | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Thermal current Ith IEC/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 | lesignation C15 C12 C13 C13 C13 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A A Cycles cycles | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B | lesignation C15 C12 C13 C13 C13 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |



electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 12VDC, 1NC

ENERGY AND AUTOMATION

AUXILIARY CONTACT

| DC operating voltage pick-up min %US 75 max %US 115 drop-out min %US 10 max %US 25 Average coil consumption ≤20°C Average coil consumption ≤20°C in-rush W 3.2 Average coil consumption ≤20°C Max cycles frequency Mechanical operation Closing NO min ms 12 max ms 21 Opening NO min ms 9 max ms 18 Closing NC | |
|--|--|
| min%Us75 maxdrop-outmin%Us115drop-outmin%Us10 maxMin%Us25Average coil consumption ≤20°Cin-rush holdingW3.2 NMax cycles frequencyw3.2Mechanical operationcycles/h3600Operating timesssAverage time for Us control in ACminms12 maxMaxms21Maxms21Maxms9 max18 | |
| max%Us115drop-outmin%Us10max%Us25Average coil consumption ≤20°Cin-rushW3.2in-rushW3.23.2Max cycles frequencyw3.2Mechanical operationcycles/h3600Operating timesssAverage time for Us controlin ACsClosing NOminms12maxms21Maxms12maxms13 | |
| drop-outmin max%Us %Us10 max %Us25Average coil consumption ≤20°Cin-rush in-rush MoldingW3.2 Molding3.2Max cycles frequencyv3.23.2Mechanical operationcycles/h36003600Operating timesv3600200Average time for Us control in ACclosing NO12 max12 maxMaxmin ms12 max12 maxMin maxms12 max18 | |
| min%Us10 max10 max10 max10 max10 max10 max10 max10 max10 max10 max12 max12 max12 max12 max13Average time for Us control in ACClosing NOImage: Second Se | |
| max%Us25Average coil consumption ≤20°Cin-rush in-rush MV3.2 holdingW3.2 WMax cycles frequencyv3.2Mechanical operationcycles/h3600Operating timesv3600Average time for Us control in ACv12 maxMinms12 maxMinms9 maxMinms18 | |
| Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 Max cycles frequency w Mechanical operation cycles/h 3600 Operating times w Average time for Us control in AC min ms 12 max ms 21 Opening NO min ms 9 max ms 18 | |
| in-rush W 3.2 holding W 3.2 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12 max ms 12 max ms 21 Opening NO min ms 9 max ms 18 | |
| holding W 3.2 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 max ms 9 max ms 18 | |
| 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 | |
| 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 | |
| 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 | |
| Average time for Us control in AC Closing NO min ms 12 max ms 21 Opening NO min ms 9 max ms 18 | |
| in AC Closing NO min ms 12 max ms 21 Opening NO min ms 9 max ms 18 | |
| Closing NO min ms 12 max ms 21 Opening NO min ms 9 max ms 18 | |
| min ms 12 max ms 21 Opening NO min ms 9 max ms 18 | |
| max ms 21 Opening NO min ms 9 max ms 18 | |
| Opening NO min ms 9 max ms 18 | |
| min ms 9 max ms 18 | |
| max ms 18 | |
| | |
| | |
| 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 | |
| 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 7.6 | |
| at 600V A 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 | |

11BG0901D012 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



ENERGY AND AUTOMATION

AUXILIARY CONTACT

| General USE | | | |
|---|-----------------------|-----------|-----------------------------|
| Contactor | | | |
| | AC current | А | 20 |
| Short-circuit protection fuse, 600V | | | |
| High fault | | | |
| riigiriaan | Short circuit current | kA | 100 |
| | | A | 30 |
| | Fuse rating | A | |
| | 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 | IIIdA | 0 | 170 |
| Slorage lemperature | | °C | -60 |
| | min | | |
| KA 109 1. | max | °C | +80 |
| Max altitude | | m | 3000 |
| Resistance & Protection | | | |
| Pollution degree | | | 3 |
| Dimensions | | | |
| $\begin{array}{c} 4.4 \\ (0.17") \\ \textcircled{0} \\ \end{array}{}$ | | (2.28°) 5 | 57 .24") RF9 9 |
| A1 A1 A1 A1 A1 A1 A1 A1 A2 A2 A2 A2 A2 A2 A3 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 | | | |
| Compliance CSA C22.2 n° 60947-1 | | | |
| | | | |
| CSA C22.2 n° 60947-4-1 | | | |



11BG0901D012 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 12VDC, 1NC

ENERGY AND AUTOMATION

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| | 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

11BG0901D024 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT



| Product designation Product type designation | | | Power contactor 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 | | 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 |
| | 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 | А | 4 |
| | 110V | А | 3 |
| | 220V | Α | _ |
| 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 | 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 |

ENERGY AND AUTOMATION



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT

220V

А

2

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V А 16 48V А 16 75V А 10 110V А 10 220V А 2 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V А 7 48V 6 А 75V 2 А 110V А 1 220V А IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V А 8 48V 8 А 75V А 5 110V А 4 220V А _ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24V А 10 48V 10 А 75V А 6 110V А 5 220V А 0,8 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V А 10 48V А 10 75V А 6 110V 5 А 220V 0.8 А Short-time allowable current for 10s (IEC/EN60947-1) А 96 Protection fuse gG (IEC) A 20 aM (IEC) А 10 Making capacity (RMS value) А 92 Breaking capacity at voltage 440V А 72 500V А 72 690V А 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) W 4 lth 0.81 AC3 W Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 lbin 9 max Tightening torque for coil terminal min Nm 0.8 Nm 1 max min lbin 9

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electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC

AUXILIARY CONTACT

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| | | max | Ibin | 9 |
|---|--|---|---|--|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | 10 |
| | | max | | 12 |
| | Flexible w/o lug conductor section | min | m m ² | 0.75 |
| | | min | mm² mm² | 0.75 2.5 |
| | Flexible c/w lug conductor section | max | | 2.0 |
| | Flexible C/W lug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | 111111 | 2.0 |
| | The shore with insulated space by conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | Пах | | IP20 when |
| Power terminal prote | ection according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fiving | | | | Screw / DIN rai |
| Fixing | | | | 35mm |
| Weight | | | g | 224 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| | | тах | | 12 |
| Auxiliary contact cha | racteristics | Шах | | |
| Thermal current Ith | | max | A | 10 |
| Thermal current lth IEC/EN 60947-5-1 d | esignation | | A | |
| Thermal current Ith | esignation | | A | 10 A600 - Q600 |
| Thermal current lth IEC/EN 60947-5-1 d | esignation | 230V | A | 10 A600 - Q600 3 |
| Thermal current lth IEC/EN 60947-5-1 d | esignation | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC | esignation C15 | 230V | A | 10 A600 - Q600 3 |
| Thermal current lth IEC/EN 60947-5-1 d | esignation C15 | 230V 400V 500V | A A | 10 A600 - Q600 3 1.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC | esignation C15 C12 | 230V 400V 500V 110V | A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 230V 400V 500V 110V 24V | A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 230V 400V 500V 110V 24V 48V | A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V | A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V | A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V | A A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V | A A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC | esignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operations Mechanical life | esignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A Cycles | 10 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 IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life | esignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation C15 C12 C13 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A A A A A Cycles | 10 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 IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation C15 C12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC 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 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | 10 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 IEC/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 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 |
| Thermal current Ith IEC/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 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A A A A Cycles cycles | 10 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 |



ENERGY AND AUTOMATION

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT

| DC rated control voltage | | | | V | 24 |
|--------------------------|-------------------|--------------|----------------------|-----------|------|
| DC operating voltage | Je | | | v | 24 |
| | pick-up | | | | |
| | pick-up | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | drop-out | | Παλ | /003 | 110 |
| | | | min | %Us | 10 |
| | | | max | %Us | 25 |
| Average coil consump | tion ≤20°C | | тах | /000 | 20 |
| , wordge een eenedinp | | | in-rush | W | 3.2 |
| | | | holding | Ŵ | 3.2 |
| Max cycles frequency | | | Tiololing | | 0.2 |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | 0,0100/11 | 0000 |
| Average time for Us co | ontrol | | | | |
| | in AC | | | | |
| | | Closing NO | | | |
| | | clocking ite | min | ms | 12 |
| | | | max | ms | 21 |
| | | Opening NO | тах | mo | 21 |
| | | | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | max | mo | 10 |
| | | | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | Шах | mo | 20 |
| | | opening No | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | | тах | ino | |
| | | Closing NO | | | |
| | | | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NO | max | mo | 20 |
| | | oponing No | min | ms | 2 |
| | | | max | ms | 3 |
| | | Closing NC | max | | - |
| | | | min | ms | 3 |
| | | | max | ms | 5 |
| | | Opening NC | max | | - |
| | | | min | ms | 11 |
| | | | max | ms | 17 |
| UL technical data | | | max | inio | |
| Full-load current (FLA) | for three-phase A | C motor | | | |
| | | | at 480V | А | 7.6 |
| | | | at 600V | A | 6.1 |
| Yielded mechanical pe | erformance | | | | |
| | for single-phase | AC motor | | | |
| | iei eingie phaoo | | 110/120V | HP | 0.5 |
| | | | 230V | HP | 1.5 |
| | for three-phase A | AC motor | 2001 | 1.0 | 1.0 |
| | | | 200/208V | HP | 2 |
| | | | 200/208V 220/230V | HP | 3 |
| | | | 460/480V | HP | 5 |
| | | | 400/480V 575/600V | HP | 5 |
| | | | 575/0000 | 1.11. | J |



ENERGY AND AUTOMATION

AUXILIARY CONTACT

| General USE | | | | |
|--|--|---|-------------------------|----------------------------------|
| | Contactor | | | |
| | | AC current | Α | 20 |
| Short-circuit protect | | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | A | 30 |
| | | Fuse class | | J |
| | Standard fault | | | _ |
| | | Short circuit current | kA | 5 |
| O and a standing of an | diana ang tanta ang ang tang tang t | Fuse rating | A | 30 |
| | xiliary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| Temperature | | | | |
| | Operating temperature | min | °C | F.0 |
| | | min | °C °C | -50 |
| | Storago tomocraturo | max | °C | +70 |
| | Storage temperature | | °C | 60 |
| | | min | °C | -60 +80 |
| Max altitude | | max | m | 3000 |
| Resistance & Protect | ction | | 111 | 3000 |
| Pollution degree | | | | 3 |
| Dimensions | | | | 0 |
| (0.17") (0. | 57 (2.24") (2. | $\begin{array}{c} \bigcirc & & \bigcirc & & \bigcirc & & & & \bigcirc & & & & & & \\ & & & &$ | (2.28 [°]) 5° | 57 .24") RF9 9 9 |
| | $\begin{bmatrix} L1 & L2 & L3 \\ 1 & 3 & 5 & 21 \\ \hline \\ - & - & d & d \\ 2 & 4 & 6 & 22 \\ T1 & T2 & T3 & \end{bmatrix}$ | | | |
| Certifications and co Compliance | ompliance | | | |
| Compliance | CSA C22.2 n° 60947-1 | | | |
| | CSA C22.2 n° 60947-4-1 | | | |
| | 55A 022.2 11 00347-4-1 | | | |



11BG0901D024 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC

ENERGY AND AUTOMATION

AUXILIARY CONTACT

| 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



| • | |
|-------|---------------------|
| ien 1 | 9 0 0 0 9 Lovato |
| 1 | |

| Product designation Product type designation | | | Power contactor 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 | | 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 |
| | 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 | А | 4 |
| | 110V | А | 3 |
| | 220V | Α | _ |
| 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 | 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 | ^ | 0 |
|---|-------------|--------|----------|
| IFC may automate to in DC4 with 1/D < 4 may with 4 malas in action | 2200 | A | 2 |
| IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series | (04) | ^ | 4.0 |
| | ≤24V 48V | A A | 16 |
| | 48V 75V | A | 16 10 |
| | 110V | A | 10 |
| | 220V | A | 2 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | 220 V | Α | ۷ |
| | ≤24V | А | 7 |
| | 48V | A | 6 |
| | 75V | A | 2 |
| | 110V | A | 1 |
| | 220V | A | - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | 2201 | 7 | |
| | ≤24V | А | 8 |
| | 48V | A | 8 |
| | 75V | A | 5 |
| | 110V | A | 4 |
| | 220V | A | - |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series | 2201 | 71 | |
| | ≤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 ≤ 15ms with 4 poles in series | | | 0,0 |
| | ≤24V | А | 10 |
| | 48V | A | 10 |
| | 75V | А | 6 |
| | 110V | А | 5 |
| | 220V | А | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | А | 96 |
| Protection fuse | | | |
| | gG (IEC) | А | 20 |
| | aM (IEC) | А | 10 |
| Making capacity (RMS value) | | А | 92 |
| Breaking capacity at voltage | | | |
| | 440V | А | 72 |
| | 500V | А | 72 |
| | 690V | А | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| · · · · · · | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | Ibin | 9 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | | | |



| Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Flexible w/o lug conductor section Tim mm² 1.5 Texible c/w lug conductor section Tim mm² 2.5 Flexible c/w lug conductor section Tim mm² 1.5 Texible w/o lug conductor section Tim mm² 2.5 Texible w/o lug conductor section Tim mm² 2.5 Texible w/o lug conductor section Tim max mm² 2.5 Texible w/o lug conductor section Wetchanical features Operating position Texing Weight Screw / DN rall Screw / DN ral | | | max | lbin | 9 |
|---|--|---|---|---|--|
| AWG/Kcmil max 12 Flexible w/o lug conductor section min mm* 0.75 max mm* 2.5 Flexible c/w lug conductor section min* mm* 1.5 max mm* 2.5 Flexible with insulated spade lug conductor section mm* 1.5 max mm* 2.5 Power terminal protection according to IEC/EN 60529 mm* 2.5 Power terminal protection according to IEC/EN 60529 mm* 2.5 Power terminal protection according to IEC/EN 60529 vertical plan 300 Operating position normal vertical plan 430° Fixing Screw / DIN rail 35mm 35mm Weight g 212 200 212 Conductor section max 12 200 4 10 IEC/EN 60947.5-1 designation A600 - Q600 | Max number of wires | simultaneously connectable | | Nr. | 2 |
| 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 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Mechanical features ormal Vertical plan 35mm Mechanical features g 212 Conductor section assert / DIN rail Melght g 212 Conductor section assert / DIN rail AuxOlikernil conductor section max 12 AuxOlikernil conductor section Assert / DIN rail | Conductor section | | | | |
| Flexible w/o lug conductor section min mm² 0.75 Flexible c/w lug conductor section min mm² 0.75 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired properly wired 12 Mechanical features Vertical plan allowable ±30° 13 Gorductor section g 212 Conductor section 36mm Weight g 212 Conductor section Actilizy contact characteristics 12 Auxiliary contact characteristics uncertain th A 10 12 Auxiliary contact characteristics uncertain th A 10 IEC/EN 60947-5-1 designation A600 - Q800 Qerating current k1 4 Operating current bC12 uncenancel with insulated with insulated with insubact with insubaco | | AWG/Kcmil | | | |
| min mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² 2.5 Flexible with insulated spade lug conductor section min mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when property wired IP20 when property wired Operating position normal 35mm Screw / DIN rail Screw / DIN rail 35mm Screw / DIN rail Operating position max 12 Awdiktry contact characteristics max 12 Conductor section max 12 Awdiktry contact characteristics max 1.0 Thermal current lth A 10 EC/2EN 6047-5-1 designation A 600 - 0600 Operating current DC12 230V A 110V A 2.9 480V A 1.4 Coperating current DC13 24V A 200 perating current DC13 24V A 2100V A 1.2 1100V | | | max | | 12 |
| 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 2.5 Power terminal protection according to IEC/EN 60529 mm² 1.5 max mr² 2.5 Power terminal protection according to IEC/EN 60529 mormal vertical plan 30° Operating position normal vertical plan 30° Fixing Screw / DIN rail 35mm Weight g 212 Conductor section Auxiliary contact characteristics max 12 Auxiliary contact characteristics max 12 Auxiliary contact characteristics max 12 Auxiliary contact characteristics max 14 Operating current DC12 A 3 Querating current DC13 20V A 1.4 Operating current DC13 24V A 2.9 Operating current DC13 0.0 0.1 60V <td></td> <td>Flexible w/o lug conductor section</td> <td>_</td> <td></td> <td></td> | | Flexible w/o lug conductor section | _ | | |
| Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired IP20 when properly wired Mechanical features normal allowable \$30° Operating position screw / DIN rail 35mm Fixing Screw / DIN rail 35mm Weight g 212 Conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current DC12 110V A Querting current DC13 230V A Querting current DC13 24V A Querting cu | | | | | |
| min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired IP20 when properly wired Mechanical features | | Flavible states and star a stire | max | mm² | 2.5 |
| max mm² 2.5 Flexible with insulated spade lug conductor section mm³ 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when property wired Mechanical features vertical plan allowable 40° Operating position normal allowable vertical plan a30° Fixing Screw / DIN rail 35mm Weight g 212 Conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth A 10 160° IEC/EN 60947-5-1 designation A600 - 0600 000 Operating current DC12 230V A 3 110V A 2.9 48V A Operating current DC13 24V A 2.9 Qerations 220V A 3.5 0perating current DC13 24V A 2.9 Qerating current DC13 24V A 2.9 Quertating fife cycles | | Flexible c/w lug conductor section | min | mm ² | 15 |
| Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features | | | | | |
| min mm² 1.5 Power terminal protection according to IEC/EN 60529 P20 when properly wired Mechanical features | | Flexible with insulated spade lug conductor section | | | 2.0 |
| max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features | | | | mm² | 15 |
| Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm Weight g 212 Conductor section AWG/kcmil conductor section Thermal current th IEC/EN 60947-5-1 designation 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 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 0perating current DC13 0perating | | | | | |
| Provent terminal protection according to TEC/EN 60529 Mechanical features Provent terminal protection according to TEC/EN 60529 Provention according to TEC/EN 60529 Provential provential provided to the terminal protection according to TEC/EN 60547-5-1 Provential current tim A 10 Auxiliary contact characteristics | Devues to serie al sereto | | | | |
| Operating position normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm Weight g 212 Conductor section max 12 AWG/kcmil conductor section A 10 IEC/EN 60947-5-1 designation A 10 Operating current AC15 230V A 3 Quertating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operations 0.0 0.55 2.00 A 0.3 GOV A 0.1 0.55 2.00 0.00 0.55 <td>Power terminal protect</td> <td>ction according to IEC/EN 60529</td> <td></td> <td></td> <td></td> | Power terminal protect | ction according to IEC/EN 60529 | | | |
| normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm Weight g 212 Conductor section max 12 Awillary contact characteristics max 12 Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 2000 A 1.9 5000V A 1.9 5000V A 1.4 Operating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operations 220V A 0.3 600V A 0.1 2000000 Electrical life cycles 500000 Satery related data 2000000 200000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 50000 Mirror contats according to IEC/EN 609474-4-1 yes yes | Mechanical features | | | | |
| allowable ±30° Fixing Screw / DIN rail 35mm Weight g 212 Conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth 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 0 Operating current DC13 24V A 2.9 0 Quertions 200V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 0 Querting current DC13 24V A 0.1 0 0 0 <td>Operating position</td> <td></td> <td></td> <td></td> <td></td> | Operating position | | | | |
| Fixing Screw / DIN rail 35mm Weight g 212 Conductor section max 12 AWG/kcmil conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth 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 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operations 200V A 0.5 200V A 0.5 Querted Infe cycles 500000 20000000 20000000 20000000 Electrical life cycles 500000 20000000 20000000 20000000 20000000 20000000 | | | | | |
| FXIng 35mm Weight g 212 Conductor section max 12 Auxiliary contact characteristics max 12 Thermal current tith A 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A Querent DC12 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 Querent DC13 24V A 2.9 0 At8V A 1.4 60V A 0.5 Querent DC13 24V A 2.9 0 0 0 Operations 220V A 0.55 220V A 0.3 000V 2 0 0 0 0 0< | | | allowable | | |
| Samin Samin Weight g 212 Conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 24V A 2.9 Operating current DC13 24V A 24V A 2.9 480V A 1.4 600V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations | Fixing | | | | |
| Conductor section max 12 Auxiliary contact characteristics x 12 Thermal current lth 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 0 Operating current DC13 24V A 2.9 0 Quertating current DC13 24V A 2.9 0 Quertating current DC13 24V A 2.9 0 0.6 125V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 0 0.55 220V A 0.3 00000 00000 00000 000000 00000 000000 00000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000 0000 | | | | - | |
| AWG/kcmil conductor section nax 12 Auxiliary contact characteristics Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 - Q600 A600 - Q600 Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 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 | | | | g | 212 |
| max 12 Auxiliary contact characteristics Image: Control of the second | Conductor section | AWC/kamil conductor costion | | | |
| Auxiliary contact characteristics A 10 Thermal current lth 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 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 0 0 0.6 0 0.5 0 | | AWG/RCITII CONductor Section | may | | 12 |
| Thermal current lth 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 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 Querating current DC13 24V A 2.9 0 Value A 0.6 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations | Auxiliary contact char | acteristics | max | | 12 |
| 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 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 Operations 24V A 2.9 0 0.6 0.1 0 0 0 0.6 0.1 0 0 0 0.5 0 0.3 000V A 0.1 0 < | | | | ۸ | 10 |
| Operating current AC15 230V A 3 230V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 Operating current DC13 24V A 2.9 0 Operations 24V A 2.9 0 0 Operations 24V A 2.9 0 | | | | A | 10 |
| 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 0.6 125V A 0.55 220V A 0.3 600V A 0.1 0 0 0 Operations cycles 500000 500000 0 0 Stafty related data cycles 500000 500000 0 0 0 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 0 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 0 0 0 | | esignation | | A | |
| 500V Å 1.4 Operating current DC12 110V Å 2.9 Operating current DC13 24V Å 2.9 48V Å 1.4 60V Å 1.2 110V Å 0.6 125V Å 0.6 125V Å 0.3 600V Å 0.1 Operations 50000 A 0.1 Constant Science 500000 Electrical life cycles 20000000 50000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes | IEC/EN 60947-5-1 de | - | | A | |
| 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 | IEC/EN 60947-5-1 de | - | 230V | | A600 - Q600 |
| 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 Zyde Zyde Mechanical life cycles 2000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 EMC compatibility yes 2000000 | IEC/EN 60947-5-1 de | - | | A | A600 - Q600 3 |
| 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 | IEC/EN 60947-5-1 de | - | 400V | A A | A600 - Q600 3 1.9 |
| 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 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes yes | IEC/EN 60947-5-1 de Operating current AC | 15 | 400V | A A | A600 - Q600 3 1.9 |
| 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 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC | 15 | 400V 500V | A A A | A600 - Q600 3 1.9 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 2000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC | 15 | 400V 500V 110V | A A A A | A600 - Q600 3 1.9 1.4 2.9 |
| 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations Mechanical life cycles 2000000 Electrical life cycles 50000 Safety related data Performance level B10d according to EN/ISO 13489-1 Tated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC | 15 | 400V 500V 110V 24V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 |
| 125VA0.55220VA0.3600VA0.1OperationsMechanical lifecycles2000000Electrical lifecycles500000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated loadcycles500000rated loadcycles50000020000000Mirror contats according to IEC/EN 609474-4-1yesyesEMC compatibilityyesyes | IEC/EN 60947-5-1 de Operating current AC Operating current DC | 15 | 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 |
| 220VA0.3600VA0.1OperationsMechanical lifecycles2000000Electrical lifecycles500000Safety related datarated loadcycles500000Performance level B10d according to EN/ISO 13489-1rated loadcycles500000mechanical loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyes | IEC/EN 60947-5-1 de Operating current AC Operating current DC | 15 | 400V 500V 110V 24V 48V 60V | A A A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 |
| 600VA0.1Operationscycles2000000Mechanical lifecycles2000000Electrical lifecycles50000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated loadcyclesrated loadcycles500000mechanical loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyes | IEC/EN 60947-5-1 de Operating current AC Operating current DC | 15 | 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 |
| Operations Mechanical life cycles 2000000 Electrical life cycles 50000 Safety related data rated load cycles 500000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V | 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 |
| Mechanical lifecycles2000000Electrical lifecycles50000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated load mechanical loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesyesEMC compatibilityyes | IEC/EN 60947-5-1 de Operating current AC Operating current DC | 15 | 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 |
| Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 rated load cycles 500000 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC | 15 | 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 |
| 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 EMC compatibility yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC | 15 | 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 |
| Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A 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 |
| rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A 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 |
| mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A 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 |
| EMC compatibility yes | IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | 15 | 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 |
| | IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | 15 12 13 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 |
| DC coil operating | IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 | 15 12 13 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 500000 |
| | IEC/EN 60947-5-1 de Operating current AC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility | 15 12 13 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 500000 20000000 yes |

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and 11BG0901D024V120 functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding





| DC rated control voltag | ae | | | V | 24 |
|-------------------------|--------------------|------------|----------|----------|------|
| DC operating voltage | , | | | | |
| | pick-up | | | | |
| | | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | drop-out | | | | |
| | | | min | %Us | 10 |
| | | | max | %Us | 25 |
| Average coil consump | tion ≤20°C | | | | |
| | | | in-rush | W | 3.2 |
| | | | holding | W | 3.2 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us co | ontrol | | | | |
| | 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) | tor three-phase AC | motor | | <u>-</u> | |
| | | | at 480V | A | 7.6 |
| | - | | at 600V | Α | 6.1 |
| Yielded mechanical pe | | • | | | |
| | for single-phase A | C motor | | | |
| | | | 110/120V | HP | 0.5 |
| | | | 230V | HP | 1.5 |
| | for three-phase A | C motor | | | |
| | | | 200/208V | HP | 2 |
| | | | 220/230V | HP | 3 |
| | | | 460/480V | HP | 5 |
| | | | / | | _ |

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575/600V

ΗP

5





| General USE | | | | |
|-----------------------|----------------------------------|-----------------------|----|----------------------------------|
| | Contactor | | | |
| | | AC current | А | 20 |
| Short-circuit protect | tion fuse, 600V | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | А | 30 |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | А | 30 |
| Contact rating of au | xiliary 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 & Prote | ction | | | |
| Pollution degree | | | | 3 |
| ETIM classification | | | | |
| | | | | EC000066 - |
| ETIM 8.0 | | | | Power contactor, AC switching |
| | | | | AC Switching |

11BG0901D048 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 48VDC, 1NC AUXILIARY CONTACT



| Product designation | | | Power contactor BG09 |
|--|--------------------|-----|-------------------------|
| Product type designation Contact characteristics | | | BG09 |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | ιτν | 0 |
| operational frequency | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | Пах | A | 20 |
| Operational current le | | | 20 |
| | AC-1 (≤40°C) | А | 20 |
| | AC-1 (≤55°C) | A | 18 |
| | AC-1 (≤70°C) | A | 15 |
| | AC-3 (≤440V ≤55°C) | A | 9 |
| | AC-4 (400V) | A | 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 ≤ 1ms with 1 poles in series | | | |
| | ≤24V | А | 12 |
| | 48V | А | 10 |
| | 75V | А | 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 |
| | 110V | А | 10 |

ENERGY AND AUTOMATION



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

220V A 2 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V А 16 48V А 16 75V A 10 110V А 10 220V А 2 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V А 7 48V 6 А 75V 2 А 110V А 1 220V А IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V А 8 48V 8 А 75V А 5 110V А 4 220V А _ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24V А 10 48V 10 А 75V А 6 110V А 5 220V А 0,8 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V А 10 48V А 10 75V А 6 110V 5 А 220V 0.8 А Short-time allowable current for 10s (IEC/EN60947-1) А 96 Protection fuse gG (IEC) A 20 aM (IEC) А 10 Making capacity (RMS value) А 92 Breaking capacity at voltage 440V А 72 500V А 72 690V А 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) W 4 lth AC3 W 0.81 Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 lbin 9 max Tightening torque for coil terminal min Nm 0.8 Nm 1 max min lbin 9



electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 48VDC, 1NC

AUXILIARY CONTACT

11BG0901D048

| Ma | The first of the second state | max | Ibin | 9 |
|---|--|---|--|---|
| Conductor section | simultaneously connectable | | Nr. | 2 |
| Conductor section | AWG/Kcmil | | | |
| | AWO/Acimi | max | | 12 |
| | Flexible w/o lug conductor section | тах | | 12 |
| | | 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 | ו | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Power terminal prote | ection according to IEC/EN 60529 | | | IP20 when |
| - | | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | \/ |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rai 35mm |
| Weight | | | g | 224 |
| Conductor section | | | 9 | 227 |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact cha | racteristics | max | | •= |
| Auxilial V Contact Cha | | | | |
| | | | А | 10 |
| Thermal current Ith | | | А | 10 A600 - Q600 |
| Thermal current lth IEC/EN 60947-5-1 d Operating current AC | esignation | | A | |
| Thermal current lth IEC/EN 60947-5-1 d | esignation | 230V | A | |
| Thermal current lth IEC/EN 60947-5-1 d | esignation | 230V 400V | | A600 - Q600 |
| Thermal current lth IEC/EN 60947-5-1 d | esignation | | A | A600 - Q600 3 |
| Thermal current lth IEC/EN 60947-5-1 d | esignation C15 | 400V | A A | A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 400V | A A | A600 - Q600 3 1.9 |
| Thermal current Ith IEC/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 IEC/EN 60947-5-1 d Operating current AC Operating current DC | 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 IEC/EN 60947-5-1 d Operating current AC Operating current DC | 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 IEC/EN 60947-5-1 d Operating current AC Operating current DC | 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 IEC/EN 60947-5-1 d Operating current AC Operating current DC | 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 IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 400V 500V 110V 24V 48V 60V 110V 125V | 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 IEC/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 IEC/EN 60947-5-1 d Operating current AC Operating current DC | esignation C15 C12 | 400V 500V 110V 24V 48V 60V 110V 125V | 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 IEC/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 IEC/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 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 IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical 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 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 IEC/EN 60947-5-1 d Operating current AC 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 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 IEC/EN 60947-5-1 d Operating current AC 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 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 IEC/EN 60947-5-1 d Operating current AC 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 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 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC 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 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 20000000 |
| Thermal current Ith IEC/EN 60947-5-1 d Operating current AC 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 |



ENERGY AND AUTOMATION

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

| DC rated control voltage | ae | | | V | 48 |
|--------------------------|------------------------|------------|----------|----------|---------|
| DC operating voltage | <u> </u> | | | | |
| | pick-up | | | | |
| | | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | drop-out | | | | |
| | | | min | %Us | 10 |
| | | | max | %Us | 25 |
| Average coil consump | otion ≤20°C | | | | |
| | | | in-rush | W | 3.2 |
| | | | holding | W | 3.2 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us co | | | | | |
| | in AC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 12 |
| | | | max | ms | 21 |
| | | Opening NO | | | 2 |
| | | | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | | | 47 |
| | | | min | ms | 17 |
| | | Opening NC | max | ms | 26 |
| | | Opening NC | min | me | 7 |
| | | | max | ms ms | , 17 |
| | in DC | | Παλ | 1113 | 17 |
| | III DC | Closing NO | | | |
| | | | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NO | max | me | 20 |
| | | opornigito | min | ms | 2 |
| | | | max | ms | 3 |
| | | Closing NC | | | |
| | | 5 5 5 | 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 m | notor | | | |
| | | | at 480V | А | 7.6 |
| | | | at 600V | А | 6.1 |
| Yielded mechanical pe | erformance | | | | |
| | for single-phase AC | motor | | | |
| | | | 110/120V | HP | 0.5 |
| | | | 230V | HP | 1.5 |
| | for three-phase AC r | motor | | | |
| | | | 200/208V | HP | 2 |
| | | | 220/230V | HP | 3 |
| | | | 460/480V | HP | 5 |
| | | | 575/600V | HP | 5 |



ENERGY AND AUTOMATION

AUXILIARY CONTACT

| 10000000000000000000000000000000000000 | | | | |
|--|--|--|---------|-------------|
| General USE | | | | |
| | Contactor | | | |
| 0 | | AC current | A | 20 |
| Short-circuit protection | | | | |
| | High fault | Short circuit current | kA | 100 |
| | | Fuse rating | ка А | 30 |
| | | Fuse class | A | J |
| | Standard fault | 1 430 01433 | | 5 |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | A | 30 |
| Contact rating of auxilia | ary 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 & Protectic | วท | | | |
| Pollution degree | | | | 3 |
| Dimensions | | (1.73") (⁶) | | |
| 8.5 (0.33") 8.5 (0.33") | 57 (2.24") (2. | C C C C C C C C C C C C C C | | RF9 |
| Wiring diagrams | $ \begin{array}{c} 3 \\ \\ $ | | | |
| Compliance | | | | |
| | CSA C22.2 n° 60947-1 | | | |
| | CSA C22.2 n° 60947-4-1 | | | |



11BG0901D048 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 48VDC, 1NC

ENERGY AND AUTOMATION

AUXILIARY CONTACT

| | 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

11BG0901D060 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NC AUXILIARY CONTACT



| Product designation Product type designation | | | Power contactor BG09 |
|--|--------------------|-----|-------------------------|
| Contact characteristics | | | Deed |
| 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 | | 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 |
| | 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 | А | 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 |
| | 110V | А | 10 |

ENERGY AND AUTOMATION



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NC AUXILIARY CONTACT

220V A 2 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V А 16 48V А 16 75V A 10 110V А 10 220V А 2 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V А 7 48V 6 А 75V 2 А 110V А 1 220V А IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V А 8 48V 8 А 75V А 5 110V А 4 220V А _ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24V А 10 48V 10 А 75V А 6 110V А 5 220V А 0,8 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V А 10 48V А 10 75V А 6 110V 5 А 220V 0.8 А Short-time allowable current for 10s (IEC/EN60947-1) А 96 Protection fuse gG (IEC) A 20 aM (IEC) А 10 Making capacity (RMS value) А 92 Breaking capacity at voltage 440V А 72 500V А 72 690V А 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) W 4 lth AC3 W 0.81 Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 lbin 9 max Tightening torque for coil terminal min Nm 0.8 Nm 1 max min lbin 9



electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NC

AUXILIARY CONTACT

11BG0901D060

| | | 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 | | | A F |
| | | min | mm² | 1.5 |
| | Flexible with insulated anode lug conductor costion | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | Παλ | 111111 | IP20 when |
| Power terminal prote | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | propeny mieu |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rai |
| Fixing | | | | 35mm |
| Weight | | | g | 210 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact char | actoristics | | | |
| | | | | |
| Thermal current Ith | | | А | 10 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | | А | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | esignation | | | A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | 230V | A | A600 - Q600 3 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | 400V | A A | A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | esignation 15 | | A | A600 - Q600 3 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation 15 | 400V 500V | A A A | A600 - Q600 3 1.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 215 212 | 400V | A A | A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | esignation 215 212 | 400V 500V 110V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 215 212 | 400V 500V 110V 24V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 215 212 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 215 212 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 215 212 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 215 212 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 215 212 | 400V 500V 110V 24V 48V 60V 110V 125V | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC | esignation 215 212 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC | esignation 215 212 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life | esignation 215 212 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life | esignation 215 212 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation 215 212 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation 212 213 | 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | esignation 215 212 213 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 IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B | esignation 215 212 213 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 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B | esignation 215 212 213 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 20000000 |



ENERGY AND AUTOMATION

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NC AUXILIARY CONTACT

| DC rated control volta | ge | | | V | 60 |
|------------------------|------------------------|------------|----------|------------|----------|
| DC operating voltage | | | | | |
| | pick-up | | | | |
| | | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | drop-out | | | | |
| | | | min | %Us | 10 |
| | | | max | %Us | 25 |
| Average coil consump | otion ≤20°C | | | | |
| | | | in-rush | W | 3.2 |
| | | | holding | W | 3.2 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us c | | | | | |
| | in AC | | | | |
| | | Closing NO | | | 4.0 |
| | | | min | ms | 12 |
| | | 0 | max | ms | 21 |
| | | Opening NO | | | 0 |
| | | | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | | m c | 17 |
| | | | min | ms ms | 17 26 |
| | | Opening NC | max | ms | 20 |
| | | | min | ms | 7 |
| | | | max | ms | 7 17 |
| | in DC | | max | 1113 | |
| | | Closing NO | | | |
| | | | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NO | max | | - |
| | | | min | ms | 2 |
| | | | max | ms | 3 |
| | | Closing NC | | | |
| | | J | 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 n | notor | | | |
| | | | at 480V | А | 7.6 |
| | | | at 600V | А | 6.1 |
| Yielded mechanical pe | erformance | | | | |
| | 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 |



ENERGY AND AUTOMATION

AUXILIARY CONTACT

| General USE | | | |
|---|-----------------------|-------------------------|----------------------------------|
| Contactor | | | |
| | AC current | A | 20 |
| 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 | Α | 30 |
| Contact rating of auxiliary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | |
| Temperature | | | |
| Operating temperature | | °C | 50 |
| | min | °C ℃ | -50 |
| Oto your to you and you | max | ι. | +70 |
| Storage temperature | | °C | 60 |
| | min | °C ℃ | -60 +80 |
| Max altitude | max | | |
| Max altitude Resistance & Protection | | m | 3000 |
| Pollution degree | | | 3 |
| Dimensions | | | 5 |
| $\begin{array}{c} 4.4 \\ (0.17") \\ \textcircled{0} \\ (0.37") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.33") \\ (1.37") \\ (0.38") \\ (1.37"$ | | (2.28 [°]) Se | 57 .24") RF9 9 9 |
| L1 L2 L3 | | | |
| $ \begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$ | | | |
| Certifications and compliance | | | |
| Compliance | | | |
| CSA C22.2 n° 60947-1 | | | |
| CSA C22.2 n° 60947-4-1 | | | |



11BG0901D060 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NC

ENERGY AND AUTOMATION

AUXILIARY CONTACT

| | 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





| | | | • |
|--|--------------------|-----|----------------|
| 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 | | 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) | A | 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 | A | 12 |
| | 48V | A | 10 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | - |
| IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series | | - | |
| | ≤24V | A | 15 |
| | 48V | A | 14 |
| | 75V | A | 9 |
| | 110V | A | 8 |
| | 220V | A | - |
| IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series | | - | |
| | ≤24V | A | 16 |
| | 48V | A | 16 |
| | 75V | A | 10 |
| | 110V | A | 10 |

electric ENERGY AND AUTOMATION

11BG0901D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, INC AUXILIARY CONTACT

| | 220V | A | 2 |
|---|----------|--------------|-----------|
| IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series | | | |
| | ≤24V | А | 16 |
| | 48V | А | 16 |
| | 75V | А | 10 |
| | 110V | А | 10 |
| | 220V | А | 2 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | | |
| | ≤24V | А | 7 |
| | 48V | А | 6 |
| | 75V | А | 2 |
| | 110V | А | 1 |
| | 220V | А | - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | ≤24V | А | 8 |
| | 48V | A | 8 |
| | 75V | A | 5 |
| | 110V | A | 4 |
| | 220V | A | + _ |
| IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series | 220 V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 5 poles in series | <0414 | ٨ | 10 |
| | ≤24V | A | 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 | | | |
| | ≤24V | A | 10 |
| | 48V | А | 10 |
| | 75V | А | 6 |
| | 110V | А | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | А | 20 |
| | aM (IEC) | А | 10 |
| Making capacity (RMS value) | . , | А | 92 |
| Breaking capacity at voltage | | | |
| | 440V | А | 72 |
| | 500V | A | 72 |
| | 690V | A | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | 11132 | 10 |
| | lth | W | 4 |
| | AC3 | W | 4 0.81 |
| Tightening torque for terminals | 703 | vv | 0.01 |
| rightening lorque for terminals | min | Nim | 0.8 |
| | min | Nm Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin Ibin | 9 |
| Tink to size a tenner for an il tenerical | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, 1NC AUXILIARY CONTACT

11BG0901D110

| 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 2.5 Flexible with insulated spade lug conductor section min mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features max 12 Operating position normal allowable ±30° Fixing Screw / DIN respective wired 35mm Weight g 214 214 Conductor section AWG/kcmil conductor section 35mm AWG/kcmil conductor section max 12 AWG/kcmil conductor section max 12 AWG/kcmil conductor section A 10 CECIEN 60947-5-1 designation A600 - 0600 Operating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A | Marrienski stati | | max | Ibin | 9 |
|--|-------------------------------------|---|-----------------|-----------------|---------------|
| AWG/Kcmil nax 12 Flexible w/o lug conductor section min mm² 2.5 Flexible c/w lug conductor section min mm² 2.5 Flexible w/w lug conductor section min mm² 2.5 Flexible with insulated spade lug conductor section min mm² 2.5 Power terminal protection according to IEC/EN 60529 max mm² 2.5 Power terminal protection according to IEC/EN 60529 max mm² 2.5 Power terminal protection according to IEC/EN 60529 max mm² 2.5 Power terminal protection according to IEC/EN 60529 vertical plan allowable x30° Pixing 35mm 35mm 35mm Vertical plan allowable x30° 35mm Vertical plan 35mm 35mm 35mm Conductor section max 12 35mm AWG/kcmil conductor section max 12 35mm AWG/kcmil conductor section max 12 35mm Coperating current DC13 400V | | simultaneously connectable | | Nr. | 2 |
| 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 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired 4.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired 4.0° Mechanical features Screw / DIN re 3.5 Screw / DIN re 3.5 Power terminal protection according to IEC/EN 60529 Screw / DIN re 3.5 Screw / DIN re 3.5 Pring Screw / DIN re 3.5 Screw / DIN re 3.5 Screw / DIN re 3.5 Pring g 214 Conductor section 4.00 Awdiary contact characteristics max 1.2 Poreating current AC15 230V A 3.9 Operating current DC12 1.9 5.00V A 1.4 Operating current DC13 4.0 A 1.2 Opera | Conductor section | | | | |
| Flexible w/o lug conductor section min mm² 0.75 Flexible c/w lug conductor section min mm² 2.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 min mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 min mm² 2.5 Power terminal protection according to IEC/EN 60529 min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 mormal vertical plan properly wired 30° Screw / DIN re allowable ±30° ssmm 30° ssmm 30° Txing g 214 conductor section max 12 400 A 10 Avdilary contact characteristics max 12 400/V A 14 Doperating current lth A 10 230/V A 3 400V A | | AWG/KCMII | | | 10 |
| min mm² 0.75 max Flexible c/w lug conductor section min mm² 2.5 Flexible with insulated spade lug conductor section min mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when property wired IP20 when property wired Vertical features screw / DIN re 30" Screw / DIN re 35" Screw / DIN re 35" Power terminal protection according to IEC/EN 60529 g 214 Screw / DIN re 35" Power terminal protection according to IEC/EN 60529 max 12 Screw / DIN re 35" Power terminal protection according to IEC/EN 60529 g 214 Screw / DIN re 35" Screw / DIN re | | Flowible w/o lug conductor conting | max | | 12 |
| max mm 2.5 Flexible c/w lug conductor section min mm² 1.5 Flexible with insulated spade lug conductor section min mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 1.5 mm² 2.5 Power terminal protection according to IEC/EN 60529 mm² 1.5 IP20 when Vectharical features mormal allowable ±.30° Screw / DIN re 35mm Screw / DIN re 35mm Vertical plan ±.30° 35mm Screw / DIN re Conductor section max 12 Maxiliary contact characteristics 10 Canductor section max 12 Maxiliary contact characteristics 10 Screw / DIN re Canductor section max 1.1 1.1 1.1 1.1 Canductor section max 1.2 Maxiliary contact characteristics 1.2 Canductor section max 1.2 1.3 1.3 Canductor s | | Flexible w/o lug conductor section | | | 0.75 |
| 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 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when IP20 when property wired Additional features normal Vertical plan allowable ±30° Conductor section normal Vertical plan 35mm AWG/kcmil conductor section max 12 Auxiliary contact characteristics max 12 Thermal current tith A 10 600 - Q600 Operating current DC12 110V A 1.9 Operating current DC13 24V A 1.4 Operating current DC13 24V A 1.4 Operations 600V A 1.2 Operations 2.9 2.9 2.9 2.9 Operations 600V A 1.2 2.9 Operations cycles 5.00000 2.9 | | | | | |
| min mm² 1.5 Flexible with insulated spade lug conductor section min mm² 2.5 Power terminal protection according to IEC/EN 60529 mm² 2.5 Power terminal protection according to IEC/EN 60529 P20 when properly wired Weight 0 30.° Fixing Screw / DIN restrict Association 35mm Weight g 214 Conductor section AWG/kcmil conductor section 35mm AWG/kcmil conductor section max 12 Auxiliary contact characteristics max 12 Thermal current th A 10 EC/EN 60947-5-1 designation A600 - Q600 Operating current DC12 110V A Diperating current DC13 24V A Coperating < | | Flovible o/w lug conductor costion | max | 11111- | 2.0 |
| max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 in?20 when Power terminal protection according to IEC/EN 60529 in?20 when property wired Weight normal vertical plan allowable in?20 when String Vertical plan allowable in?20 when Weight g 214 Conductor section Awd/Accord conductor section max 12 Awd/Accord conductor section max 12 Auxiliary contact characteristics max 14 Deperating current lth A 10 EC/EN 60947-5-1 designation A 1.4 Operating current DC12 230V A 3 May A 1.4 2.9 Affect Max A 1.2 Operating current DC13 24V A 2.9 May A 1.2 110V A 0.6 125V A < | | Flexible c/w lug conductor section | min | mm ² | 1 5 |
| Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when property wired Vertical plan allowable ±30° Screw / DIN re Sorew / DIN re S | | | | | |
| min mm² 1.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Wechanical features | | Elevible with insulated anode lug conductor costion | | 11111 | 2.0 |
| max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired properly wired properly wired properly wired allowable + 30° Operating position normal Vertical plan allowable + 30° Fixing Screw / DIN re 35mm Screw / DIN re 35mm Neight g 214 Conductor section max 12 Awdilay contact characteristics max 12 Thermal current lth A 10 EC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A Compariting current DC12 110V A 110V A 2.9 Qperating current DC13 24V A Querter DC13 24V A | | Flexible with insulated spade lug conductor section | | mm ² | 1 5 |
| Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features Derating position normal Vertical plan allowable ±30° Screw / DIN re 35mm Weight g 214 Conductor section AWG/kcmil conductor section AWG/kcmil conductor section AWG/kcmil conductor section Thermal current th A 10 EC/EN 60947-5-1 designation Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Deprating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Deprating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Ope | | | | | |
| Power terminial protection according to IEC/EN 60529 properly wired Vectanical features normal allowable ±30° Screw / DIN ra 35mm Weight g 214 Conductor section max 12 Awdliary contact characteristics max 12 Thermal current lth A 10 EC/EN 60947-5-1 designation A 600 - Q600 Operating current AC15 230V A Derating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V <td< td=""><td></td><td></td><td>IIIdX</td><td>11111</td><td></td></td<> | | | IIIdX | 11111 | |
| Mechanical features normal allowable Vertical plan ±30° Screw / DIN re 35mm Screw / DIN re 35mm Weight g 214 Conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth A 10 EC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 3 Querting current DC12 110V A 2.9 1 10V A 2.9 Querting current DC13 24V A 1.4 GOV A 1.4 60V A 0.6 125V A 0.55 220V A 0.3 GOV A 0.1 25 2000000 2000000 Electrical life cycles 500000 2000000 2000000 2000000 Safety related data -< | Power terminal protect | ction according to IEC/EN 60529 | | | |
| Operating position normal allowable Vertical plan allowable allowable ±30° Fixing Screw / DIN re 35mm Weight g 214 Conductor section max 12 AWG/kcmil conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth A 10 EC/EN 60947-5-1 designation A 600 - Q600 Operating current AC15 230V A 3 Querter DC12 110V A 2.9 Operating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 48V A 1.4 G0V A 1.2 10V A 0.6 125V A 0.55 220V A 0.3 G0V A 1.2 10V A 0.3 G0V A 0 | Mechanical features | | | | property wred |
| normal allowable +30° Fixing Screw / DIN ra 35mm Weight g 214 Conductor section AWG/kcmil conductor section AWG/kcmil conducto | | | | | |
| allowable ±30° Fixing Screw / DIN re 35mm Weight g 214 Conductor section max 12 AWG/kcmil conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth A 10 EC/EN 60947-5-1 designation A 600 - Q600 Operating current AC15 230V A 3 4000V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 60V A 3.5 2.9 4.8 A 3.5 220V A 0.6 1.2V A 0.5 2.2V A 0.3 600V A 3.5 2.2V A 0.3 | | | normal | | Vertical plan |
| Fixing Screw / DIN ra 35mm Weight g 214 Conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth A 10 EC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 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 Cycles 500000 2000000 2000000 Electrical life cycles 500000 2000000 Sofety related data 2000000 20000000 2000000 Mechanical load cycl | | | | | |
| TXIng 35mm Weight g 214 Conductor section 12 Auxiliary contact characteristics 12 Thermal current lth A 10 EC/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 2.9 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 20V A 0.6 1.2 110V A 0.6 125V A 0.55 220V A 0.3 60V A 0.1 Operations 2000000 2000000 20000000 2000000 2000 | | | allowable | | |
| Weight g 214 Conductor section AWG/kcmil conductor section max 12 Auxiliary contact characteristics max 12 Thermal current lth A 10 EC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 2400V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 48V A 1.4 60V A 1.2 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 20 Operations Cycles 500000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 < | Fixing | | | | |
| Conductor section AWG/kcmil conductor section max 12 Auxiliary contact characteristics A 10 EC/EN 60947-5-1 designation A 600 - Q600 Operating current AC15 230V A 230V A 3 4000V A 1.9 500V A 1.4 Operating current DC12 110V A 24V A 2.9 Querating current DC13 24V A 2.9 Querations 220V A 0.5 Querations 600V A 0.1 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Safety related data rated load cycles 500000 20000000 Mirror contats according to EC/EN 609474-4 | Weight | | | a | |
| AWG/kcmil conductor section max 12 AuXiliary contact characteristics Thermal current lth A 10 EC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 3 400V A 1.9 500V A 1.9 Operating current DC12 110V A 2.9 3 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 1.2 Operating current DC13 24V A 0.6 110V A 0.6 1.2 110V A 0.6 0.3 600V A 0.3 0.0 0000 A 0.1 0.0 0000 A 0.1 0.0 0000 A 0.1 0.0 0000 A 0.0 0.0 0000 A | | | | 9 | 211 |
| max 12 Auxiliary contact characteristics - Thermal current lth A 10 EC/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 At8V A 1.4 60V A 1.2 110V 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 500000 Edity related data - - | | AWG/kcmil conductor section | | | |
| Auxiliary contact characteristics A 10 EC/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 2.9 Operating current DC13 24V A 2.9 Quertary A 0.6 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations 20000000 20000000 20000000 20000000 Safety related data 20000000 20000000 20000000 20000000 Mechanical load cording to EN/ISO 13489-1 rated load cording to EC/EN 609474-4-1 <t< td=""><td></td><td></td><td>may</td><td></td><td>12</td></t<> | | | may | | 12 |
| A 10 EC/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 1 Operating current DC13 24V A 2.9 1 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 A8V A 1.4 60V A 1.2 110V A 0.55 220V A 0.3 600V A 0.1 2000000 3 600V A 0.1 Operations cycles 500000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 200000000 20000000 | Auxiliary contact char | acteristics | Шах | | 12 |
| EC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 3 200V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 2.9 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operations 20V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 20000000 200000000 20000000 2000000 | | | | Α | 10 |
| Operating current AC15 230V A 3 200V 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 cycles 500000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Micror contats according to IEC/EN 609474-4-1 yes 20000000 Mirror compatibility yes 20000000 | | esignation | | | |
| 230V A 3 400V A 1.9 500V A 1.4 Dperating current DC12 110V A 2.9 Dperating 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 Detectional life cycles 20000000 500000 Electrical life cycles 500000 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Wirror contats according to IEC/EN 609474-4-1 yes Yes Yes | | | | | 1000 4000 |
| 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 1.4 60V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations cycles 500000 500000 500000 Electrical life cycles 500000 500000 500000 Safety related data cycles 500000 20000000 20000000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 500000 20000000 | | | 230\/ | Δ | 3 |
| 500V Å 1.4 Operating current DC12 110V Å 2.9 Operating current DC13 24V Å 2.9 48V Å 1.4 60V Å 1.2 110V Å 0.6 125V Å 0.6 125V Å 0.3 60V Å 0.3 600V Å 0.3 600V Å 0.1 Operations cycles 2000000 50000 50000 Electrical life cycles 500000 50000 500000 Safety related data cycles 500000 20000000 20000000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 20000000 | | | | | |
| Deparating current DC12 110V A 2.9 Deparating 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 24V A 2.9 A 0.3 Mechanical life cycles 20000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 2000000 20000000 | | | | | |
| 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 X X Mechanical life cycles 2000000 Electrical life cycles 500000 Safety related data X 20000000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 20000000 | Operating current DC | 12 | 0001 | | 1 |
| Deparating 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 Deparations | | 12 | 110\/ | ۸ | 2.0 |
| 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 solutions Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes yes | Operating current DC | 12 | 1100 | ~ | 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 2000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes yes | | 15 | 2417 | ٨ | 2.0 |
| 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations Mechanical life cycles 2000000 Electrical life cycles 500000 Safety related data cycles 500000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 500000 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes 10000000 | | | | | |
| 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 rated load cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes yes | | | | | |
| 125VA0.55220VA0.3600VA0.1OperationsMechanical lifecycles2000000Electrical lifecycles500000Safety related datarated loadcycles500000Performance level B10d according to EN/ISO 13489-1rated loadcycles500000grated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyesyes | | | | | |
| 220VA0.3600VA0.1OperationsMechanical lifecycles20000000Electrical lifecycles500000Safety related datarated loadcycles500000Performance level B10d according to EN/ISO 13489-1rated loadcycles500000grated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyes | | | | | |
| 600VA0.1Operationscycles2000000Mechanical lifecycles2000000Electrical lifecycles50000Safety related datasetsetPerformance level B10d according to EN/ISO 13489-1rated loadcyclesrated loadcycles500000mechanical loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyes | | | | | |
| Operations Mechanical life cycles 2000000 Electrical life cycles 500000 Safety related data safety related data safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes | | | | | |
| Mechanical life cycles 2000000 Electrical life cycles 500000 Safety related data rated load cycles 500000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes | Operations | | 8007 | A | 0.1 |
| 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 | • | | | cyclos | 20000000 |
| 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 EMC compatibility yes | | | | | |
| 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 | | | | cycles | 00000 |
| rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes | | | | | |
| mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes | Performance level B1 | Ud according to EN/ISO 13489-1 | | | |
| Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes | | | | • | |
| EMC compatibility yes | | | nechanical load | cycles | |
| | | ing to IEC/EN 609474-4-1 | | | - |
| | EMC compatibility DC coil operating | | | | yes |



11BG0901D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC,

INC AUXILIARY CONTACT

| | | | | | 110 |
|--------------------------|-----------------------|--------------|----------|----------|-------|
| DC rated control voltage | je | | | V | 110 |
| DC operating voltage | pick-up | | | | |
| | ріск-ир | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | drop-out | | Пал | /000 | |
| | | | min | %Us | 10 |
| | | | max | %Us | 25 |
| Average coil consumpt | tion ≤20°C | | | | |
| | | | in-rush | W | 3.2 |
| | | | holding | W | 3.2 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us co | | | | | |
| | in AC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 12 |
| | | | max | ms | 21 |
| | | Opening NO | | | 0 |
| | | | min | ms | 9 |
| | | Closing NC | max | ms | 18 |
| | | | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | Пах | mo | 20 |
| | | oponing i to | 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 | | | 2 |
| | | | min | ms | 3 |
| | | Opening NC | max | ms | 5 |
| | | | min | ms | 11 |
| | | | max | ms | 17 |
| UL technical data | | | | | - |
| | for three-phase AC mo | otor | | | |
| - (-) | | | at 480V | А | 7.6 |
| | | | at 600V | А | 6.1 |
| Yielded mechanical pe | rformance | | | | |
| | for single-phase AC n | notor | | | |
| | | | 110/120V | HP | 0.5 |
| | | | 230V | HP | 1.5 |
| | for three-phase AC m | otor | | | |
| | | | 200/208V | HP | 2 |
| | | | 220/230V | HP | 3 |
| | | | 460/480V | HP | 5 |
| | | | 575/600V | HP | 5 |

11BG0901D110 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



ENERGY AND AUTOMATION

| General USE | | | | |
|--|--|---|---------------------------------------|----------------------------------|
| | Contactor | | ٨ | 20 |
| Short-circuit protection | $h = \frac{1}{2} $ | AC current | A | 20 |
| Short-circuit protectic | High fault | | | |
| | rightadit | Short circuit current | kA | 100 |
| | | Fuse rating | A | 30 |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | А | 30 |
| | liary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| Temperature | | | | |
| | Operating temperature | min | °C | 50 |
| | | min | С О° | -50 +70 |
| | Storage temperature | max | U | +/0 |
| | Slorage lemperature | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | max | | 3000 |
| Resistance & Protect | tion | | | 0000 |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 4.4 (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") | (2.24") (2.24") (365 (877) (1.37") | C + C + C + C + C + C + C + C + C + C + | 1 (2.28 ^m) 5 ^m | 57 .24") RF9 9 9 |
| A1 A1 A2 A2 T Certifications and cor | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | |
| Compliance | | | | |
| | CSA C22.2 n° 60947-1 | | | |
| | CSA C22.2 n° 60947-4-1 | | | |



11BG0901D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, INC AUXILIARY CONTACT

| | 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





| 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 | | 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) | 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 | A | 12 |
| | 48V | A | 10 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | - |
| EC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series | | | |
| | ≤24V | A | 15 |
| | 48V | A | 14 |
| | 75V | A | 9 |
| | 110V | A | 8 |
| IFO may automate to in DO4 with 1/D < 4 and with 0 and a to a to a to | 220V | A | _ |
| IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series | 20 41 / | | 4.0 |
| | ≤24V | A | 16 |
| | 48V | A | 16 |
| | 75V | A | 10 |
| | 110V | A | 10 |



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 125VDC, **1NC AUXILIARY CONTACT**

| | 220V | А | 2 |
|---|----------|------|------|
| IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series | | | |
| | ≤24V | А | 16 |
| | 48V | А | 16 |
| | 75V | А | 10 |
| | 110V | A | 10 |
| | 220V | A | 2 |
| IEC may autrent to in DC2 DC5 with L/R < 15mg with 1 polog in agrice | 220 V | ~ | 2 |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series | -0 U (| | _ |
| | ≤24V | A | 7 |
| | 48V | А | 6 |
| | 75V | А | 2 |
| | 110V | Α | 1 |
| | 220V | А | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | ≤24V | А | 8 |
| | 48V | | |
| | | A | 8 |
| | 75V | A | 5 |
| | 110V | А | 4 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | А | 10 |
| | 48V | А | 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 | | | |
| | ≤24V | А | 10 |
| | 48V | А | 10 |
| | 75V | А | 6 |
| | 110V | А | 5 |
| | 220V | A | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | 2201 | A | 96 |
| | | ~ | 90 |
| Protection fuse | | | |
| | gG (IEC) | А | 20 |
| | aM (IEC) | A | 10 |
| Making capacity (RMS value) | | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | А | 72 |
| | 500V | A | 72 |
| | 690V | A | 72 |
| | 0901 | | |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | lth | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| · | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | |
| | | | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | | | |



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 125VDC, 1NC AUXILIARY CONTACT

11BG0901D125

lbin 9 max 2 Max number of wires simultaneously connectable Nr. Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section 0.75 min mm² mm² 2.5 max Flexible c/w lug conductor section 1.5 min mm² max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 min mm² 2.5 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 217.5 g Conductor section AWG/kcmil conductor section 12 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V А 3 400V 1.9 А 500V А 1.4 Operating current DC12 110V А 2.9 **Operating current DC13** 24V А 2.9 48V А 1.4 60V A 1.2 110V А 0.6 125V А 0.55 220V А 0.3 600V А 0.1 Operations Mechanical life 20000000 cycles Electrical life 500000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 500000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating



11BG0901D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 125VDC,

INC AUXILIARY CONTACT

| DC rated control voltage | | | | V | 125 |
|--------------------------|-----------------------|------------|----------------------|----------|------------|
| DC rated control voltage | je | | | V | 125 |
| DC operating voltage | pick-up | | | | |
| | plok up | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | drop-out | | | , | |
| | | | min | %Us | 10 |
| | | | max | %Us | 25 |
| Average coil consump | tion ≤20°C | | | | |
| | | | in-rush | W | 3.2 |
| | | | holding | W | 3.2 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us co | | | | | |
| | in AC | | | | |
| | | Closing NO | min | me | 12 |
| | | | min max | ms ms | 21 |
| | | Opening NO | IIIdX | 1115 | <u>۲</u> ۱ |
| | | | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | | - | - |
| | | Ũ | 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 | me | 2 |
| | | | max | ms ms | 3 |
| | | Closing NC | mdx | 1113 | 0 |
| | | | 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 mo | otor | | | |
| | | | at 480V | A | 7.6 |
| <u></u> | , | | at 600V | Α | 6.1 |
| Yielded mechanical pe | | | | | |
| | for single-phase AC r | notor | 440/4001 | | 0.5 |
| | | | 110/120V | HP up | 0.5 |
| | for three-phase AC m | otor | 230V | HP | 1.5 |
| | ior unee-phase AC II | | 200/208V | HP | 2 |
| | | | 200/208V 220/230V | HP | 3 |
| | | | 460/480V | HP | 5 |
| | | | 575/600V | HP | 5 |
| | | | | | - |

11BG0901D125 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



ENERGY AND AUTOMATION

General USE

| Dimensions $\frac{4}{(17)} + \frac{1}{(17)} + \frac{1}$ | | Contactor | | | | |
|--|--|--|--|-------------|------------------------------|--|
| High fault Short circuit current KA 100 Standard fault Short circuit current KA 5 Contact rating of auxiliary contacts according to UL A 80 Network is according to UL A 800 Notice it current KA 50 Temperature min °C 60 Max °C 60 Ming dagrams CSA C22 2 n° 60947-1 CSA C22 2 n° 60947-1 | | | AC current | А | 20 | |
| Short circuit current kA 100 Fuse rating A 30 Fuse class Standard fault Short circuit current kA 5 Fuse rating A 30 Contact rating of auxiliary contacts according to UL Nublent conditions Temperature Operating temperature $\frac{min C 50}{max C +70}$ Storage temperature $\frac{min C 60}{max C +80}$ Wax attitude Reasistance & Protection Pollution degree 3 Dimensions Ming diagrams $\frac{41}{1} \int 2 L3 \\ \int 5 21 \\ L2 L3 \\ L3 J L2 L3 \\ L3 J L2 L3 \\ L3 J L2 L3 \\ L4 J L2 L3 \\ L4 J J J J J J J J J $ | Short-circuit protec | | | | | |
| Fuse class A 30 Standard fault Short circuit current KA 5 Contact rating of auxiliary contacts according to UL A 600 - Q600 Number of auxiliary contacts according to UL A 600 - Q600 Number of auxiliary contacts according to UL A 600 - Q600 Number of auxiliary contacts according to UL Machine of auxiliary contacts according to UL A 600 - Q600 Number of auxiliary contacts according to UL max °C - 60 Mine °C - 60 Max atitude max °C - 60 Ming diagrams Contifications and compliance <t< td=""><td></td><td>High fault</td><td>Short circuit current</td><td>۲A</td><td>100</td></t<> | | High fault | Short circuit current | ۲A | 100 | |
| Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 30 Contact rating of auxiliary contacts according to UL A600 - 0600 Anhead min °C +70 Temperature min °C +60 Max atifude m 3000 Nexestande Vessistande & Protection min °C +80 Pollution degree 3 3 3 Ornensions Image temperature min °C +80 Wing diagrams Image temperature | | | | | | |
| Short circuit current kA 5 Fuse rating A 30 Contact rating of auxiliary contacts according to UL Antient conditions Temperature Operating temperature $min ^{\circ}C +50$ $max ^{\circ}C +80$ Max attitude $max ^{\circ}C +80$ Max attitude Resistance & Protection Pollution degree 3 Dimensions $min ^{\circ}C +80$ Max attitude $max ^{\circ}C +80$ Max attitude $max ^{\circ}C +80$ Max attitude $max ^{\circ}C +80$ Max attitude $max ^{\circ}C +80$ $max ^{\circ}C +80$ max | | | • | | | |
| Fuse rating A 30 Contact ratio of auxiliary contacts according to UL A 600 - Q600 Ambient conditions Operating temperature min *C -50 Temperature min *C -50 Storage temperature min *C -60 Max attribute m 3000 Restance & Protection m 3000 Point of degrams 3 3 3 Image: Storage temperature m 3000 Restance & Protection 3 Point of degram 3 3 3 3 3 3 Image: Storage temperature m 3000 8 3 3 3 Viand degrams 3 | | Standard fault | | | | |
| Contact rating of auxiliary contacts according to UL A600 - Q600 Amblent conditions Temperature Qperating temperature $min ^{\circ}C -50$ $max ^{\circ}C +70$ Storage temperature $min ^{\circ}C -60$ $max ^{\circ}C +80$ Max altitude $max ^{\circ}C +80$ Pollution degree $min ^{\circ}C -60$ $max ^{\circ}C +80$ Pollution degree 3 Dimensions $44 \int $ | | | | | | |
| Ambient conditions Temperature min "C -50 max °C +70 Storage temperature min "C -60 max °C +80 Max alitude min "C -60 max °C +80 Max alitude Polymensions Operating temperature (1) (1) (1) Operating temperature (1) Operating temperature (1) Operating temperature (1) (1) (2) Operating temperature (1) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (2) (1) (2) (2) (2) (2) <th col<="" td=""><td>0</td><td></td><td>Fuse rating</td><td>A</td><td></td></th> | <td>0</td> <td></td> <td>Fuse rating</td> <td>A</td> <td></td> | 0 | | Fuse rating | A | |
| Temperature $\begin{array}{c} Operating temperature \\ \hline min & ^{\circ}C & -50 \\ \hline max & ^{\circ}C & +70 \\ \hline \\ \hline \\ Storage temperature \\ \hline \\ max & ^{\circ}C & +80 \\ \hline \\ \hline \\ resistance & Protection \\ \hline \\ Pollution degree & 3 \\ \hline \\ Dimensions \\ \hline \\ $ | | | | | A600 - Q600 | |
| $\begin{array}{c} \begin{array}{c} \begin{array}{c} \text{Priority temperature} \\ \hline min & C & -50 \\ \hline max & C & +70 \\ \hline \hline \text{Storage temperature} \\ \hline min & C & -60 \\ \hline max & C & +80 \\ \hline \text{Max altitude} & m & 3000 \\ \hline \text{Resistance & Protection} \\ \hline \text{Poletic degree} & 3 \\ \hline \text{Dimensions} \\ \hline \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \hline \end{array} $ \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \hline \\ \hline \end{array} \hline \end{array} \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \hline \end{array} \\ \hline \end{array} \hline \end{array} \\ \hline \end{array} \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \hline \end{array} \\ \hline \end{array} \hline \end{array} \hline \end{array} \\ \hline \end{array} \hline \\ \\ \\ \hline \\ \hline \\ \\ \\ \\ \hline \\ \\ \\ \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \hline \\ \\ | | | | | | |
| $\frac{\text{max } \text{``C} +70}{\text{Storage temperature}}$ $\frac{\text{min } \text{`C} -60}{\text{max } \text{``C} +80}$ $\frac{\text{Min } \text{`C} -60}{\text{max } \text{`C} +80}$ $\frac{\text{Min } \text{`C} +80}{\text{Storage temperature}}$ $\frac{\text{Normal } \text{Storage temperature}}{\text{Storage temperature}}$ $\frac{\text{Normal } \text{Storage temperature}}{\text{Min } \text{Storage temperature}}$ $\frac{\text{Normal } \text{Storage temperature}}{\text{Min } Sto$ | | Operating temperature | | | | |
| Storage temperature min $C = 60$ max $C = 40$ Max alitude Minor degree 3 Official of the degree of | | | min | | | |
| $\frac{\min \circ C + 60}{\max \circ C + 80}$ Resistance & Protection Pollutin degree 3 Dimensions $\frac{44}{1000} + \frac{44}{1000} + $ | | | max | °C | +70 | |
| $\begin{array}{c} & \text{max} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $ | | Storage temperature | | | | |
| Max altitude m 3000 Resistance & Protection Pollution degree 3 Dimensions (1,37) | | | | | | |
| Resistance & Protection Pollution degree 3 Dimensions | Max altitude | | max | | | |
| Pollution degree 3 Dimensions $4 \xrightarrow{(1,1)} (1,1) $ | | | | 111 | | |
| Dimensions $\frac{1}{(1+1)^{1+1}} + \frac{1}{(1+1)^{1+1}} + \frac{1}{(1+1)^{$ | Pollution degree | | | | 3 | |
| $\begin{array}{c} (0,17) & (0,17$ | Dimensions | | | | | |
| A1 A1 A1 A1 A1 A1 A1 A2 A2 A2 A2 A2 A2 A2 A2 A2 A2 | (0.33") (0.33") (0.33") (0.33") (0.33") | | C + K : C | | | |
| Compliance $\frac{\text{CSA C22.2 n}^{\circ} \text{ 60947-1}}{\text{CSA C22.2 n}^{\circ} \text{ 60947-4-1}}$ The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and | | | | | | |
| CSA C22.2 n° 60947-1 CSA C22.2 n° 60947-4-1 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and | | compliance | | | | |
| The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and | | CSA C22.2 n° 60947-1 | | | | |
| 11BG0901D125 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 5 | | | | | | |
| 11BG0901D125 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 5 | | | datas ar madifications at any time. The descript | tochair | Land | |
| | 11BG0901D125 I he chara | accurisities described in this document are subject to up I information, illustrations and instructions in this broch | ine are purely illustrative, and are consequently not c | ontractual | l and 5 . Ily binding 5 . | |
| | | | | | | |



11BG0901D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 125VDC, **1NC AUXILIARY CONTACT**

| IEC/EN 60947-1 IEC/EN 60947-4-1 |
|------------------------------------|
| 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





| Product designation | | | Power contactor |
|--|--------------------|-----|-----------------|
| 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 | | 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 |
| | 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 ≤ 1ms with 1 poles in series | | | |
| | ≤24V | А | 12 |
| | 48V | А | 10 |
| | 75V | А | 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 | Α | 10 |



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 220VDC, **1NC AUXILIARY CONTACT**

| | 220V | А | 2 |
|---|----------|------|------|
| IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series | | | |
| | ≤24V | А | 16 |
| | 48V | А | 16 |
| | 75V | А | 10 |
| | 110V | A | 10 |
| | 220V | A | 2 |
| IEC may autrent to in DC2 DC5 with $1/P < 15$ may with 1 palas in parios | 220 V | ~ | 2 |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series | -0 U (| | _ |
| | ≤24V | A | 7 |
| | 48V | А | 6 |
| | 75V | Α | 2 |
| | 110V | А | 1 |
| | 220V | А | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | ≤24V | А | 8 |
| | 48V | | |
| | | A | 8 |
| | 75V | A | 5 |
| | 110V | А | 4 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series | | | |
| | ≤24V | А | 10 |
| | 48V | А | 10 |
| | 75V | A | 6 |
| | 110V | A | 5 |
| | | | |
| | 220V | A | 0,8 |
| IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series | | | |
| | ≤24V | А | 10 |
| | 48V | А | 10 |
| | 75V | А | 6 |
| | 110V | А | 5 |
| | 220V | A | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | 2201 | A | 96 |
| | | ~ | 30 |
| Protection fuse | | | |
| | gG (IEC) | А | 20 |
| | aM (IEC) | A | 10 |
| Making capacity (RMS value) | | А | 92 |
| Breaking capacity at voltage | | | |
| | 440V | А | 72 |
| | 500V | A | 72 |
| | 690V | A | 72 |
| Posistance por polo (averago veluo) | 030 V | | |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | lth | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | | Ibin | 9 |
| Tightoning targue for coil terminal | max | חוטו | 3 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | | | |



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 220VDC, 1NC AUXILIARY CONTACT

11BG0901D220

lbin 9 max 2 Max number of wires simultaneously connectable Nr. Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section 0.75 min mm² mm² 2.5 max Flexible c/w lug conductor section 1.5 min mm² max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 min mm² 2.5 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 215 g Conductor section AWG/kcmil conductor section 12 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V А 3 400V 1.9 А 500V А 1.4 Operating current DC12 110V А 2.9 **Operating current DC13** 24V А 2.9 48V А 1.4 60V A 1.2 110V А 0.6 125V А 0.55 220V А 0.3 600V А 0.1 Operations Mechanical life 20000000 cycles Electrical life 500000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 500000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating



11BG0901D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 220VDC,

1NC AUXILIARY CONTACT

| DC rated control voltage | je | | | V | 220 |
|--------------------------------------|-------------------|--|----------------------|----------|--------|
| DC operating voltage | | | | | |
| | pick-up | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | drop-out | | тах | /000 | 110 |
| | | | min | %Us | 10 |
| | | | max | %Us | 25 |
| Average coil consump | tion ≤20°C | | | | |
| | | | in-rush | W | 3.2 |
| | | | holding | W | 3.2 |
| Max cycles frequency | | | | ovoloo/b | 2600 |
| Mechanical operation Operating times | | | | cycles/h | 3600 |
| Average time for Us co | ontrol | | | | |
| Average time for 05 of | in AC | | | | |
| | | Closing NO | | | |
| | | U U | min | ms | 12 |
| | | | max | ms | 21 |
| | | Opening NO | | | |
| | | | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | max | me | 20 |
| | | 1 0 | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 18 |
| | | Opening NO | max | ms | 25 |
| | | | min | ms | 2 |
| | | | max | ms | 3 |
| | | Closing NC | | | - |
| | | J. J | min | ms | 3 |
| | | | max | ms | 5 |
| | | Opening NC | | | |
| | | | min | ms | 11 |
| UL technical data | | | max | ms | 17 |
| Full-load current (FLA) | for three-phase A | C motor | | | |
| | | | at 480V | А | 7.6 |
| | | | at 600V | A | 6.1 |
| Yielded mechanical pe | rformance | | | | |
| | for single-phase | AC motor | | | |
| | | | 110/120V | HP | 0.5 |
| | | | 230V | HP | 1.5 |
| | for three-phase A | AC motor | 000/0001 | | 2 |
| | | | 200/208V | HP | 2 |
| | | | 220/230V 460/480V | HP HP | 3 5 |
| | | | 460/480V 575/600V | HP | 5 |
| | | | 515/0001 | | ~ |

11BG0901D220 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



ENERGY AND AUTOMATION

General USE

| | Contactor | AC current | А | 20 |
|--|---|---|------------|-------------|
| Short-circuit protection | on fuse, 600V | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | A | 30 |
| | Standard fault | Fuse class | | J |
| | Standard Tault | Short circuit current | kA | 5 |
| | | Fuse rating | A | 30 |
| Contact rating of aux | iliary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | , | | | |
| Femperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | <u></u> | max | °C | +70 |
| | Storage temperature | | ° ^ | 60 |
| | | min | °C °C | -60 +80 |
| Max altitude | | max | | 3000 |
| Resistance & Protec | tion | | 111 | 3000 |
| Pollution degree | | | | 3 |
| Dimensions | | | | - |
| (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") | (1.37") | ••••••••••••••••••••••••••••• | | RF9 |
| A1 | $\begin{bmatrix} 1 & 1 & 1 & 2 & 1 & 3 \\ 1 & 3 & 5 & 21 \\ 1 & 4 & 4 & 4 \\ 2 & 4 & 6 & 22 \\ 1 & 1 & 12 & 13 \end{bmatrix}$ | | | |
| Certifications and co | mpliance | | | |
| Compliance | CSA C22.2 n° 60947-1 | | | |
| | | | | |
| | CSA C22.2 n° 60947-4-1 | odates or modifications at any time. The descriptions | - Apple 1 | and |



11BG0901D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 220VDC, **1NC AUXILIARY CONTACT**

| | 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