



| Product designation | | | Power contactor |
|--|--------------------|-----|-----------------|
| Product type designation | | | BG06 |
| Contact characteristics | | | |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | | |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | Α | 16 |
| Operational current le | | | |
| | AC-1 (≤40°C) | А | 16 |
| | AC-1 (≤55°C) | А | 14 |
| | AC-1 (≤70°C) | A | 12 |
| | AC-3 (≤440V ≤55°C) | А | 6 |
| | AC-4 (400V) | А | 3.3 |
| Rated operational power AC-3 (T≤55°C) | | | |
| | 230V | kW | 1.5 |
| | 400V | kW | 2.2 |
| | 415V | kW | 2.4 |
| | 440V | kW | 2.5 |
| | 500V | kW | 3 |
| | 690V | kW | 3 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 6 |
| | 400V | kW | 10 |
| | 500V | kW | 13 |
| | 690V | kW | 18 |
| EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| | ≤24V | А | 9 |
| | 48V | А | 8 |
| | 75V | А | 4 |
| | 110V | А | 3 |
| | 220V | А | - |
| EC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series | | | |
| | ≤24V | А | 12 |
| | 48V | А | 11 |
| | 75V | А | 7 |
| | 110V | А | 6 |
| | 220V | А | - |
| IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series | | | |
| | ≤24V | А | 14 |
| | 48V | А | 14 |
| | 75V | А | 8 |
| | 110V | А | 8 |



11BG0610D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 110VDC, **1NO AUXILIARY CONTACT**

| | 220V | А | 1 |
|---|--------------|--------------|-------------|
| EC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series | | | |
| | ≤24V | А | - |
| | 48V | А | - |
| | 75V | А | - |
| | 110V | А | - |
| | 220V | Α | _ |
| EC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series | | | |
| | ≤24V | А | 6 |
| | 48V | А | 5 |
| | 75V | А | 2 |
| | 110V | А | 1 |
| | 220V | A | - |
| EC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series | | | |
| | ≤24V | A | 7 |
| | 48V | А | 7 |
| | 75V | А | 4 |
| | 110V | А | 3 |
| | 220V | A | - |
| EC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series | | | |
| | ≤24V | A | 9 |
| | 48V | А | 9 |
| | 75V | А | 5 |
| | 110V | А | 4 |
| | 220V | A | 0,5 |
| IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series | | | |
| | ≤24V | A | _ |
| | 48V | A | _ |
| | 75V | A | - |
| | 110V | A | - |
| | 220V | <u>A</u> | |
| Short-time allowable current for 10s (IEC/EN60947-1) | | А | 96 |
| Protection fuse | | ۸ | 4.0 |
| | gG (IEC) | A | 16 |
| Maling and ait. (DMO using) | aM (IEC) | A | 6 |
| Making capacity (RMS value) | | A | 92 |
| Breaking capacity at voltage | 4.40\/ | ۸ | 70 |
| | 440V 500V | A A | 72 72 |
| | 690V | A | 72 |
| Resistance per pole (average value) | 0901 | mΩ | 10 |
| Power dissipation per pole (average value) | | 11122 | 10 |
| rower dissipation per pole (average value) | lth | 14/ | 2.6 |
| | Ith AC-3 | W W | 2.6 0.36 |
| Tightening torque for terminals | AU-3 | ٧V | 0.30 |
| | min | Nim | 0.8 |
| | min | Nm Nm | |
| | max | Nm Ibin | 1 |
| | min | lbin Ibin | 9 9 |
| Tightoning torque for coil terminal | max | Ibin | 3 |
| Tightening torque for coil terminal | | Nice | 0.9 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 0 |

lbin

min

9



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 110VDC, 1NO AUXILIARY CONTACT

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| | | max | Ibin | 9 |
|---|---|---|--|---|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | 10 |
| | Flowible w/a lug approductor conting | max | | 12 |
| | Flexible w/o lug conductor section | min | ma ma 2 | 0.75 |
| | | min | mm² | 0.75 |
| | Flovible of the conductor agotion | max | mm² | 2.5 |
| | Flexible c/w lug conductor section | min | mm² | 1.5 |
| | | | mm² | 2.5 |
| | Elevible with insulated apade lug conductor acation | max | 111111 | 2.0 |
| | Flexible with insulated spade lug conductor section | min | mm² | 1.5 |
| | | min | mm² | 2.5 |
| | | max | 11111- | IP20 when |
| Power terminal protect | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | property wred |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| | | anowable | | Screw / DIN rai |
| Fixing | | | | 35mm |
| Weight | | | g | 214 |
| Conductor section | | | 9 | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | max | | 12 |
| Thermal current Ith | | | А | 10 |
| IEC/EN 60947-5-1 de | signation | | | A600 - Q600 |
| Operating current AC | | | | |
| opolating outlotter to | | 230V | А | 3 |
| | | 400V | A | 1.9 |
| | | 500V | A | 1.4 |
| Operating current DC | 12 | 0001 | 73 | |
| | | 110V | А | 2.9 |
| | | | ~ | 2.3 |
| Operating current DC | 13 | | | |
| Operating current DC | 13 | | | 29 |
| Operating current DC | 13 | 24V | А | 2.9 1 <i>4</i> |
| Operating current DC | 13 | 24V 48V | A A | 1.4 |
| Operating current DC | 13 | 24V 48V 60V | A A A | 1.4 1.2 |
| Operating current DC | 13 | 24V 48V 60V 110V | A A A A | 1.4 1.2 0.6 |
| Operating current DC | 13 | 24V 48V 60V 110V 125V | A A A A | 1.4 1.2 0.6 0.55 |
| Operating current DC | 13 | 24V 48V 60V 110V 125V 220V | A A A A A | 1.4 1.2 0.6 0.55 0.3 |
| | 13 | 24V 48V 60V 110V 125V | A A A A | 1.4 1.2 0.6 0.55 |
| Operations | 13 | 24V 48V 60V 110V 125V 220V | A A A A A A A | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life | 13 | 24V 48V 60V 110V 125V 220V | A A A A A A Cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 |
| Operations Mechanical life Electrical life | 13 | 24V 48V 60V 110V 125V 220V | A A A A A A A | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life Safety related data | | 24V 48V 60V 110V 125V 220V | A A A A A A Cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 |
| Operations Mechanical life Electrical life Safety related data | 13 0d according to EN/ISO 13489-1 | 24V 48V 60V 110V 125V 220V 600V | A A A A A A cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operations Mechanical life Electrical life Safety related data | 0d according to EN/ISO 13489-1 | 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operations Mechanical life Electrical life Safety related data Performance level B1 | 0d according to EN/ISO 13489-1 | 24V 48V 60V 110V 125V 220V 600V | A A A A A A cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000 |
| Operations Mechanical life Electrical life Safety related data Performance level B1 | 0d according to EN/ISO 13489-1 | 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |



11BG0610D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 110VDC,

1NO AUXILIARY CONTACT

| DC rated control voltage V 110 DC operating voltage pick-up min %Us 75 |
|--|
| pick-up min %Us 75 drop-out min %Us 115 drop-out min %Us 10 max %Us 25 Average coll consumption ≤20°C in-rush W 3.2 Max cycles frequency W 3.2 Mechanical operation cycles/h 3600 Operating times cycles/h 3600 Average time for Us control in AC min ms 12 Closing NO min ms 12 max ms 12 10 Opening NO min ms 12 max ms 12 10 Max cycles frequency max ms 12 Average time for Us control min ms 12 in AC Closing NO max ms 18 Closing NC min ms 17 max 17 in DC Closing NO min ms 17 <t< td=""></t<> |
| min %US 75 drop-out max %US 115 drop-out min %US 10 max %US 25 Average coil consumption ≤20°C in-rush W 3.2 Max cycles frequency W 3.2 Mechanical operation cycles/h 3600 Operating times V 3.2 Average time for Us control in AC min ms 12 Opening NO min ms 21 Opening NO max ms 21 Opening NO max ms 13 Closing NC max ms 14 Max cycles if equency max ms 14 |
| max %Us 115 drop-out min %Us 10 max %Us 10 max %Us 25 Average coil consumption ≤20°C in-rush W 3.2 Max cycles frequency W 3.2 Mechanical operation cycles/h 3600 Operating times V 3.2 Average time for Us control in AC V In AC Closing NO min Max 21 max Opening NO min ms 12 In AC Closing NO min ms 13 Opening NO min ms 18 Closing NC min ms 26 Opening NC min ms 17 max ms 17 max 17 In DC Closing NO min ms 17 in DC Closing NO min ms 17 |
| drop-out min %Us 10 Average coil consumption ≤20°C in-rush %Us 25 Max cycles frequency in-rush W 3.2 Max cycles frequency W 3.2 Mechanical operation cycles/h 3600 Operating times |
| min %Us 10 %Us 25 Average coil consumption ≤20°C in-rush holding W 3.2 Modeling Max cycles frequency w 3.2 Mechanical operation cycles/h 3600 Operating times verage time for Us control in AC cycles/h 3600 Closing NO min ms 12 max ms 12 max Opening NO min ms 9 max ms 12 max Closing NC min ms 17 max 17 Max ms 17 17 |
| max %Us 25 Average coil consumption ≤20°C in-rush holding W 3.2 holding Max cycles frequency W 3.2 Max cycles frequency V 3.2 Mechanical operation cycles/h 3600 Operating times V 3.2 Average time for Us control in AC Closing NO V Closing NO max ms 12 max Max Closing NO V 12 max Max Ms 12 max 13 max Opening NO min ms 12 max Max 18 Closing NC No 13 max Max Ms 26 17 17 Max Ms 17 17 17 |
| Average coil consumption ≤20°C in-rush NV 3.2 holding VV 3.2 Max cycles frequency w Mechanical operation cycles/h 3600 Operating times a Average time for Us control in AC min ms 12 max ms 21 Opening NO min ms 9 max ms 18 Closing NC min ms 17 max ms 26 Min ms 7 max ms 17 max ms 17 Max ms 17 max ms 17 Max ms 17 max ms 18 Closing NO min ms 17 Max ms 17 max ms 18 Closing NC min ms 17 Max ms 17 max ms 18 Max ms 17 max ms 17 Max ms 17 max ms 17 |
| 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 Min ms 9 max ms 18 Closing NC Min ms 7 max ms 17 max ms 26 Opening NC Min ms 7 max ms 17 max ms 17 max ms 18 Closing NC Min ms 7 max ms 18 |
| Max cycles frequency cycles/h 3600 Operating times |
| Mechanical operationcycles/h3600Operating timesAverage time for Us controlin ACClosing NOMinms12maxms12maxms12Maxms12maxms9maxms9maxms9maxms17Maxms17Maxms7maxms7maxms7maxms17In DCClosing NOMinms7in DCClosing NOminms18 |
| Operating times Average time for Us control in AC Closing NO min ms 12 max Opening NO min ms 9 max max ms 18 Closing NC min ms 17 max Min ms 26 Opening NC min ms 17 Max ms 17 Max ms 17 In DC Closing NO min ms In DC Closing NO 17 In DC Total Science NO 17 |
| Average time for Us control in AC Closing NO Min MS 12 max MS 21 Opening NO Min MS 9 max MS 18 Closing NC Min MS 17 max MS 26 Opening NC Min MS 7 max MS 17 max MS 26 Opening NC Min MS 17 max MS 17 max MS 17 17 17 17 17 18 |
| 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 max ms 26 Opening NC min ms 17 max ms 17 max ms 17 max ms 18 |
| 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 max ms 26 Opening NC min ms 17 max ms 17 max ms 17 max 17 17 17 18 |
| min ms 12 max ms 21 Opening NO Closing NC Min ms 17 max ms 26 Opening NC min ms 7 max ms 17 max ms 26 Opening NC min ms 7 max ms 17 max 17 max 18 |
| Maxms21Opening NOminms9maxms18Closing NCminms17Maxms2626Opening NCminms7maxms1717in DCClosing NOminms18Closing NO |
| Opening NO min ms 9 max ms 18 Closing NC min ms 17 max ms 26 Opening NC min ms 7 max ms 17 max ms 17 max ms 17 max 18 |
| 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 18 Closing NC min ms 17 Min ms 26 Opening NC min ms 7 min DC min ms 17 in DC Closing NO min ms 18 |
| Closing NC min ms 17 max ms 26 Opening NC min ms 7 min DC min Ms 17 |
| min ms 17 max ms 26 Opening NC min ms 7 max ms 17 in DC Closing NO min ms 18 |
| Opening NC min ms 7 max ms 17 in DC Closing NO min ms 18 |
| min ms 7 max ms 17 in DC Closing NO min ms 18 |
| max ms 17 in DC Closing NO min ms 18 |
| in DC Closing NO min ms 18 |
| Closing NO min ms 18 |
| min ms 18 |
| |
| |
| max ms 25 Opening NO |
| min ms 2 |
| max ms 3 |
| Closing NC |
| min ms 3 |
| max ms 5 |
| Opening NC |
| min ms 11 |
| max ms 17 |
| UL technical data |
| Full-load current (FLA) for three-phase AC motor |
| at 480V A 4.8 at 600V A 3.9 |
| Yielded mechanical performance |
| for single-phase AC motor |
| 110/120V HP 0.3 |
| 230V HP 1 |
| for three-phase AC motor |
| |
| 200/208V HP 1.5 |
| 200/208V HP 1.5 220/230V HP 2 |
| 200/208V HP 1.5 |

11BG0610D110 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

| Contactor | | | |
|--|--|---|---|
| | AC current | А | 16 |
| | | | |
| High fault | | | |
| | | | 100 |
| | - | A | 30 |
| Standard fault | Fuse class | | J |
| Standard ladit | Short circuit current | kΑ | 5 |
| | | | 30 |
| xiliary contacts according to UL | | | A600 - Q600 |
| , | | | |
| | | | |
| Operating temperature | | | |
| | min | °C | -50 |
| | max | °C | +70 |
| Storage temperature | | _ | |
| | min | | -60 |
| | max | | +80 |
| | | m | 3000 |
| ction | | | 2 |
| | | | 3 |
| (2.24") (2.24" | | (2.28") 5 | RF9 89.2 (3.51") |
| | (1.0) | | |
| $\mathbf{d}_{1}^{1} \mathbf{d}_{2}^{1} \mathbf{d}_{3}^{1} d$ | | | |
| | Operating temperature Storage temperature | tion fuse, 600V High fault Short circuit current Fuse rating Fuse class Standard fault Short circuit current Fuse rating xiliary contacts according to UL Operating temperature Min max Storage temperature min max Ction 4 4 4 4 4 4 4 4 4 4 4 4 4 | tion fuse, 600V High fault Short circuit current kA Fuse rating A Fuse class Standard fault Short circuit current kA Fuse rating A xiliary contacts according to UL Operating temperature Min °C max °C Storage temperature min °C max °C max °C tion L1 L2 L3 |

Compliance

| CSA C22.2 n° 60947-4-1 |
|------------------------|



11BG0610D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 110VDC, **1NO 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