





| Product designation | | | Power contactor BG06 |
|---|--------------------|--------|-------------------------|
| Product type designation Contact characteristics | | | ВСОО |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | 100 | |
| oporational modulonoy | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | Α | 16 |
| Operational current le | | | |
| | AC-1 (≤40°C) | Α | 16 |
| | AC-1 (≤55°C) | Α | 14 |
| | AC-1 (≤70°C) | Α | 12 |
| | AC-3 (≤440V ≤55°C) | Α | 6 |
| | AC-4 (400V) | Α | 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 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| | ≤24V | Α | 9 |
| | 48V | Α | 8 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| IFC many assument to im DC4 with L/D < 4 man with 2 males in powies | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | 2041 / | ۸ | 40 |
| | ≤24V | A | 12 |
| | 48V 75V | A | 11 |
| | 110V | A A | 7 6 |
| | 220V | A | O |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | 220 V | | |
| ILO Max ounch le in DOT with L/N > This with 3 poles in selles | ≤24V | Α | 14 |
| | ≤24V 48V | A | 14 |
| | 75V | A | 8 |
| | 110V | A | 8 |
| | 1100 | ^ | 5 |





| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | 220V | Α | 1 |
|--|--------------------------|--------------------------|--------------------|
| | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | Α | _ |
| | 110V | Α | _ |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | | |
| | ≤24V | Α | 6 |
| | 48V | Α | 5 |
| | 75V | Α | 2 |
| | 110V | A | 1 |
| IFO | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | 10.41.4 | | _ |
| | ≤24V | A | 7 |
| | 48V | A | 7 |
| | 75V | A | 4 |
| | 110V 220V | A A | 3 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | ZZU V | А | _ |
| TEC max current le in DC3-DC3 with L/R \(\) 13ms with 3 poles in series | ≤24V | ۸ | 0 |
| | ≥24 V 48 V | A A | 9 9 |
| | 75V | A | 5 |
| | 110V | A | 4 |
| | 220V | A | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | 2201 | - / \ | 0,0 |
| 120 max can once in 200 200 mai 2m = 10mo mai i poloci in consc | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | Α | _ |
| | 110V | Α | _ |
| | 220V | Α | _ |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 16 |
| | aM (IEC) | Α | 6 |
| Making capacity (RMS value) | | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 72 |
| | 500V | Α | 72 |
| | 690V | Α | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| r ower dissipation per pole (average value) | lth | W | 2.6 |
| r owei dissipation per pole (average value) | AC3 | W | 0.36 |
| | | | |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm Nm | 0.8 1 |
| | max min | Nm Nm Ibin | 0.8 1 9 |
| Tightening torque for terminals | max | Nm Nm | 0.8 1 |
| Tightening torque for terminals | max min max | Nm Nm Ibin Ibin | 0.8 1 9 |
| Tightening torque for terminals | max min max min | Nm Nm Ibin Ibin | 0.8 1 9 9 |
| | max min max | Nm Nm Ibin Ibin | 0.8 1 9 |



| | | max | lbin | 9 |
|--|---|--|---------------------------------|---|
| Max number of wires | simultaneously connectable | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | |
| | | max | | 12 |
| | Flexible w/o lug conductor section | | | |
| | | min | mm² | 0.75 |
| | | 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 | 1.5 |
| | | max | mm² | 2.5 |
| | | | | IP20 when |
| Power terminal prote | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | , , , , |
| Operating position | | | | |
| - p | | normal | | Vertical plan |
| | | allowable | | ±30° |
| | | ano madio | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | g | 180 |
| Conductor section | | | 3 | |
| Solidación Scotion | AWG/kcmil conductor section | | | |
| | AVVO/Kerrill corrector section | max | | 12 |
| Auxiliary contact char | ractoristics | Пах | | 12 |
| Thermal current Ith | aciensiles | | А | 10 |
| IEC/EN 60947-5-1 de | osignation | | | A600 - Q600 |
| | <u>-</u> | | | A000 - Q000 |
| Operating current AC | ,10 | 0001/ | Δ. | • |
| | | 230V | A | 3 |
| | | 400V | A | 1.9 |
| 0 11 100 | | 500V | A | 1.4 |
| Operating current DC | ;12 | | _ | |
| | | 110V | A | 2.9 |
| Operating current DC | | | | |
| oporating carroin De | 213 | | | |
| operating derroit by | 713 | 24V | Α | 2.9 |
| operating eartern DC | 213 | 48V | Α | 1.4 |
| oporating outlone De | 213 | 48V 60V | | 1.4 1.2 |
| oporating outlone De | 213 | 48V 60V 110V | Α | 1.4 |
| oporating outlone by | 213 | 48V 60V 110V 125V | A A | 1.4 1.2 |
| | 213 | 48V 60V 110V | A A A | 1.4 1.2 0.6 |
| oporating outront of | | 48V 60V 110V 125V | A A A | 1.4 1.2 0.6 0.55 |
| | 213 | 48V 60V 110V 125V 220V | A A A A | 1.4 1.2 0.6 0.55 0.3 |
| Operations | 213 | 48V 60V 110V 125V 220V | A A A A | 1.4 1.2 0.6 0.55 0.3 |
| Operations Mechanical life | 213 | 48V 60V 110V 125V 220V | A A A A | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life | | 48V 60V 110V 125V 220V | A A A A A cycles | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life Safety related data | | 48V 60V 110V 125V 220V | A A A A A cycles | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operations Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | 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 B | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A 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 B | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |





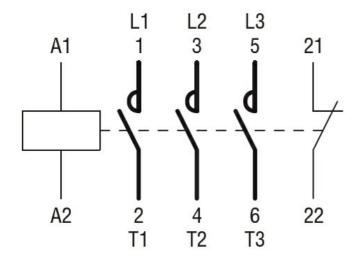
| Rated AC voltage at | 60Hz | | | V | 48 |
|--|-------------------------------|---------|------------------|----------|----------|
| AC operating voltag | | | | | |
| | of 60Hz coil powered at 60Hz | | | | |
| | pick-ı | up | _ | | |
| | | | min | %Us | 75 |
| | drop- | out | max | %Us | 115 |
| | ulop- | out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil cor | sumption at 20°C | | | | |
| · · | of 50/60Hz coil powered at 50 | OHz | | | |
| | • | i | n-rush | VA | 30 |
| | | | olding | VA | 4 |
| | of 50/60Hz coil powered at 60 | | | | |
| | | | n-rush | VA | 25 |
| | | | olding | VA | 3 |
| | of 60Hz coil powered at 60Hz | | n ruch | VA | 30 |
| | | | n-rush olding | VA VA | 30 4 |
| Dissipation at holdin | g ≤20°C 50Hz | | Juliy | W | 0.95 |
| Max cycles frequent | <u> </u> | | | ** | 0.00 |
| Mechanical operatio | • | | | cycles/h | 3600 |
| Operating times | | | | , | |
| Average time for Us | control | | | | |
| | in AC | | | | |
| | Closi | ng NO | | | |
| | | | min | ms | 12 |
| | 0 | to NO | max | ms | 21 |
| | Open | ning NO | min | | 9 |
| | | | min max | ms ms | 18 |
| | Closi | ng NC | Παλ | 1113 | 10 |
| | 3.63. | | min | ms | 17 |
| | | | max | ms | 26 |
| | Oper | ning NC | | | |
| | | | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | NO | | | |
| | Closi | ng NO | | | 4.0 |
| | | | min max | ms ms | 18 25 |
| | Oper | ning NO | Παλ | 1113 | 23 |
| | Орск | | min | ms | 2 |
| | | | max | ms | 3 |
| | Closi | ng NC | | | |
| | | | min | ms | 3 |
| | | | max | ms | 5 |
| | Oper | ning NC | _ | | |
| | • | | | | 4.4 |
| | · | | min | ms | 11 |
| III tochnical data | · | | min max | ms ms | 17 |
| | | | | | |
| UL technical data Full-load current (FL | A) for three-phase AC motor | af. | | | |



| Violded messbergied morformer | | | | |
|--|---------------------------------|---|------------|-------------------------------------|
| Yielded mechanical performan | | | | |
| for sin | gle-phase AC motor | 440/400 | | 2.2 |
| | | 110/120V | HP | 0.3 |
| | | 230V | HP | 1 |
| for three | ee-phase AC motor | | | |
| | | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | | | |
| Conta | ctor | | | |
| Coma | 0.0. | AC current | Α | 16 |
| Short-circuit protection fuse, 6 | 001/ | / C carron | - , , | 10 |
| • | | | | |
| High fa | auit | Chart size it access | I. A | 100 |
| | | Short circuit current | kΑ | 100 |
| | | Fuse rating | Α | 30 |
| | | Fuse class | | J |
| Standa | ard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of auxiliary conta | acts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| Temperature | | | | |
| - | ting temperature | | | |
| - 1 | 9 11 11 11 1 | min | °C | -50 |
| | | max | °C | +70 |
| Storac | ge temperature | · · · · · · · · · · · · · · · · · · · | | |
| Otorag | ge temperature | min | °C | -60 |
| | | | °C | +80 |
| Manager La | | max | | |
| Max altitude | | | m | 3000 |
| Resistance & Protection | | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| (0.33") (0.38") (0.38") (0.38") (0.38") (0.38") | (2.24") (2.87.2) (2.88.3) | 44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") | (2.28") 5. | 57 .24") RF9 -7.6 (0.30 |
| 8.5 (0.33°) Wiring diagrams | | (1.73") | | 89.2 (3.51") (0.30 |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 48VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching