





| Product designation Product type designation | | | Power contactor BG06 |
|---|--------------------|-----|-------------------------|
| Contact characteristics | | | Вооб |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | | |
| operational modulers) | 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 | Α | 4 |
| | 110V | Α | 3 |
| | 220V | Α | _ |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| · | ≤24V | Α | 12 |
| | 48V | Α | 11 |
| | 75V | Α | 7 |
| | 110V | Α | 6 |
| | 220V | Α | _ |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| · | ≤24V | Α | 14 |
| | 48V | Α | 14 |
| | 75V | Α | 8 |
| | 110V | Α | 8 |
| | | | |





| | 220V | Α | 1 |
|--|--------------|------|--------------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| 120 max carrent to in 200 200 mar 2/1 = 10mb mar 2 points in control | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | - - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | ZZU V | | _ |
| TEC max current le in DC3-DC3 with L/R \(\) 15ms with 3 poles in series | <241/ | ۸ | 0 |
| | ≤24V 48V | A | 9 |
| | 46 V 75 V | A | 9 |
| | | A | 5 4 |
| | 110V | A | |
| 150 | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | 40.4V. | ^ | |
| | ≤24V | A | _ |
| | 48V | A | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| 01 47 11 11 14 40 (150/51)000 47 4) | 220V | A | _ |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | 0 ((=0) | | |
| | 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) | | | |
| | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| 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 | lbin | 9 |
| | | | |





| | | max | Ibin | 9 |
|--|--|---|---|---|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | 4.0 |
| | FI. 21. 7.1. 2.2. | max | | 12 |
| | Flexible w/o lug conductor section | | | 0.75 |
| | | min | mm² | 0.75 |
| | Flexible c/w lug conductor section | max | mm² | 2.5 |
| | Flexible C/W lug colludctor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | max | | 2.0 |
| | Tionible with inculated opade lag conductor occiton | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | | | IP20 when |
| Power terminal protect | tion according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail |
| | | | | 35mm |
| Weight | | | g | 179 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | | | |
| | | max | | 12 |
| Auxiliary contact chara | | max | | |
| Thermal current Ith | acteristics | max | A | 10 |
| Thermal current Ith IEC/EN 60947-5-1 de | acteristics | max | A | |
| • | acteristics | | | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | acteristics | 230V | A | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | acteristics | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V | A | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V | A A A | 10 A600 - Q600 3 1.9 1.4 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V | A A A | 10 A600 - Q600 3 1.9 1.4 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V 110V | A A A | 10 A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V 110V 24V 48V | A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V 110V 24V 48V 60V | A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V | A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V 110V 24V 48V 60V | A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V | 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 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 de Operating current AC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 0.1 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 | signation 15 12 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 | signation 15 12 13 Od 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 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 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Safety related data Performance level B1 | signation 15 12 13 Od 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 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 de Operating current AC Operating current DC Operating current DC | signation 15 12 13 Od 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 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 500000 |





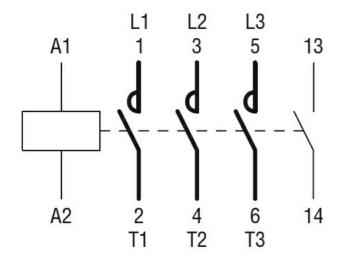
| Rated AC voltage at | | | | V | 24 |
|-----------------------|---------------------------|--|---|---|---|
| C operating voltage | | | | | |
| | of 50/60Hz coil po | | | | |
| | | pick-up | min | %Us | 75 |
| | | | max | %Us | 75 115 |
| | | drop-out | max | 7003 | 110 |
| | | а. ор оа. | min | %Us | 20 |
| | | | max | %Us | 55 |
| | of 50/60Hz coil po | owered at 60Hz | | | |
| | | pick-up | | | |
| | | | min | %Us | 80 |
| | | | max | %Us | 115 |
| | | drop-out | | | |
| | | | min | %Us | 20 |
| | aumention at 20°C | | max | %Us | 55 |
| .C average coil con | | owared at 50Hz | | | |
| | of 50/60Hz coil po | JWEIEU AL JUNZ | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil po | owered at 60Hz | Holding | • | ' |
| | 0. 00,00. <u>1</u> 00 p 0 | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil powe | ered at 60Hz | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| Dissipation at holdin | | | | W | 0.95 |
| Max cycles frequenc | | | | | |
| Mechanical operation | n | | | cycles/h | 3600 |
| Operating times | | | | | |
| | control | | | | |
| | | | | | |
| | control in AC | Closing NO | | | |
| | | Closing NO | min | ms | 12 |
| | | Closing NO | min max | ms ms | 12 21 |
| | | | min max | ms ms | 12 21 |
| | | Closing NO Opening NO | | | |
| | | | max | ms | 21 |
| | | | max min | ms ms | 9 |
| | | Opening NO | max min | ms ms | 2191817 |
| | | Opening NO Closing NC | max min max | ms ms ms | 21918 |
| | | Opening NO | max min max min max | ms ms ms ms | 219181726 |
| | | Opening NO Closing NC | max min max min max min | ms ms ms ms ms | 2191817267 |
| | in AC | Opening NO Closing NC | max min max min max | ms ms ms ms | 219181726 |
| | | Opening NO Closing NC Opening NC | max min max min max min | ms ms ms ms ms | 2191817267 |
| | in AC | Opening NO Closing NC | max min max min max min max | ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in AC | Opening NO Closing NC Opening NC | max min max min max min max min min | ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in AC | Opening NO Closing NC Opening NC Closing NO | max min max min max min max | ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in AC | Opening NO Closing NC Opening NC | max min max min max min max min max | ms ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in AC | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max min max | ms | 21 9 18 17 26 7 17 |
| | in AC | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max | ms ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| Average time for Us | in AC | Opening NO Closing NC Opening NC Closing NO Opening NO | max min max min max min max min max min max | ms | 21 9 18 17 26 7 17 18 25 2 |



Opening NC

| | Opening M | J | | |
|---|-------------------------------|-------------------------|--------|---|
| | | min | ms | 11 |
| | | max | ms | 17 |
| UL technical data | | max | 1110 | |
| | \ far three rhace AC mater | | | |
| Full-load current (FLA |) for three-phase AC motor | | _ | |
| | | at 480V | Α | 4.8 |
| | | at 600V | Α | 3.9 |
| Yielded mechanical pe | erformance | | | |
| · | for single-phase AC motor | | | |
| | rer emigre prides / te meter | 110/120V | HP | 0.3 |
| | | 230V | HP | |
| | | 230 V | ПР | |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | 0.0,000 | | |
| General USE | 0 1 1 | | | |
| | Contactor | | _ | |
| | | AC current | Α | 16 |
| Short-circuit protection | n fuse, 600V | | | |
| | High fault | | | |
| | 3 | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | <u> </u> | | |
| | _ _ | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of auxili | iary 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 |
| May altitude | | IIIax | | |
| Max altitude | | | m | 3000 |
| Resistance & Protecti | on | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 44 44 | - | 13.44 | | |
| 4.4 (1.73") (0.17") | 57 | (1.73") (1.73") (1.73") | | 57 ———————————————————————————————————— |
| (0.17") | (2.24") | 0 0 0 | 97 | .24) |
| $\bullet \bullet \bullet \bullet \bullet$ | b | | | |
| | (1.97") | (1.97) | (2.28" | |
| ************************************** | (1) | | | |
| | | 26. O R R O O C | | |
| 0 - 4 - 4 - 4 | - 34.9 - | 34.9 | - | DE 0 |
| (0.33") 8.5 (0.38") | (1.37") | (0.12) |) | RF9 |
| (0.33") | | | 1 | 7.6 |
| 8.5 (0.33") | | (1.73") | _ | 89.2 (3.51") (0.30") |
| Wiring diagrams | | (1.70) | | (0.0.) |
| willing diagrams | | | | |





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







| 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) | 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 | Α | 4 |
| | 110V | Α | 3 |
| | 220V | A | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | Α | 12 |
| | 48V | Α | 11 _ |
| | 75V | Α | 7 |
| | 110V | A | 6 |
| 150 | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | ≤24V | A | 14 |
| | 48V | A | 14 |
| | 75V | A | 8 |
| | 110V | Α | 8 |





| | 220V | Α | 1 |
|--|---------------|--------|----------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | - - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | 220 V | | |
| TEC max current le in DC3-DC3 with L/N = 13ms with 3 poles in series | ≤24V | ۸ | 0 |
| | ≤24 V 48 V | A A | 9 |
| | 46 V 75 V | | 9 |
| | | A | 5 |
| | 110V | A | 4 |
| 150 | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | .0.01 | | |
| | ≤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) | | | |
| 1 1 (********************************** | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| Tightening torque for terminals | ,,,,, | | |
| gg to que les terminale | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | lbin | 9 |
| Tightoning torque for coil terminal | IIIax | ווטו | <u> </u> |
| Tightening torque for coil terminal | | Nima | 0.0 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | | | |





| | | max | Ibin | 9 |
|--|---|---|---|---|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | *************************************** | | | |
| | AWG/Kcmil | | | 40 |
| | Florible w/s lug conductor acction | max | | 12 |
| | Flexible w/o lug conductor section | min | mm² | 0.75 |
| | | max | mm² | 0.75 2.5 |
| | Flexible c/w lug conductor section | IIIax | 111111 | 2.3 |
| | r lexible C/W lug corructor Section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | max | | 2.0 |
| | Tiombie Marmoulated opade lag contactor cooler | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| D | t' | | | IP20 when |
| Power terminal protect | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail |
| | | | | 35mm |
| Weight | | | g | 177 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | m 01/ | | 40 |
| | | max | | 12 |
| Auxiliary contact chara | acteristics | max | | |
| Thermal current Ith | | max | A | 10 |
| Thermal current Ith IEC/EN 60947-5-1 de | signation | max | A | |
| Thermal current Ith | signation | | | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | signation | 230V | A | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | signation | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V | A | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | signation 15 | 230V 400V 500V | A A A | 10 A600 - Q600 3 1.9 1.4 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC | signation 15 | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | signation 15 | 230V 400V 500V | A A A | 10 A600 - Q600 3 1.9 1.4 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC | signation 15 | 230V 400V 500V 110V | A A A | 10 A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V | A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V | A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V | A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V | 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 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V | A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 |
| Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 de Operating current AC Operating current DC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 de Operating current AC Operating current DC Operating current DC Operating current DC | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 0.1 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Mechanical life | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 | signation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 15 12 13 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 | 15 12 13 Od 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 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 de Operating current AC Operating current DC | 15 12 13 Od 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 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 de Operating current AC Operating current DC Operating current DC | od 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 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 500000 |





| Rated AC voltage at | | | | V | 48 |
|-----------------------|--------------------|--|---|----------------------------------|---|
| AC operating voltage | | = 0.1 | | | |
| | of 50/60Hz coil po | | | | |
| | | pick-up | min | %Us | 75 |
| | | | max | %Us | 75 115 |
| | | drop-out | max | 7003 | 110 |
| | | arop cut | min | %Us | 20 |
| | | | max | %Us | 55 |
| | of 50/60Hz coil po | owered at 60Hz | | | |
| | · | pick-up | | | |
| | | | min | %Us | 80 |
| | | | max | %Us | 115 |
| | | drop-out | | | |
| | | | min | %Us | 20 |
| | | | max | %Us | 55 |
| C average coil con | | | | | |
| | of 50/60Hz coil po | owered at 50Hz | | , | |
| | | | in-rush | VA | 30 |
| | . (50/001 ! | | holding | VA | 4 |
| | of 50/60Hz coil po | owered at 60Hz | : | 1// | 25 |
| | | | in-rush | VA VA | 25 3 |
| | of 60Hz coil power | arad at 60Uz | holding | VA | ა |
| | oi bonz coii powe | ered at 60HZ | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| Dissipation at holdin | a <20°C 50Hz | | Holding | W | 0.95 |
| Max cycles frequenc | | | | | 0.00 |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| verage time for Us | control | | | | |
| | | | | | |
| | in AC | | | | |
| | in AC | Closing NO | | | |
| | in AC | Closing NO | min | ms | 12 |
| | in AC | - | min max | ms ms | 12 21 |
| | in AC | Closing NO Opening NO | max | ms | 21 |
| | in AC | - | max min | ms ms | 9 |
| | in AC | Opening NO | max | ms | 21 |
| | in AC | - | max min max | ms ms ms | 21918 |
| | in AC | Opening NO | max min max min | ms ms ms | 2191817 |
| | in AC | Opening NO Closing NC | max min max | ms ms ms | 21918 |
| | in AC | Opening NO | max min max min max | ms ms ms ms | 219181726 |
| | in AC | Opening NO Closing NC | max min max min max min | ms ms ms ms | 21 9 18 17 26 |
| | | Opening NO Closing NC | max min max min max | ms ms ms ms | 219181726 |
| | in AC | Opening NO Closing NC Opening NC | max min max min max min | ms ms ms ms | 21 9 18 17 26 |
| | | Opening NO Closing NC | max min max min max min max | ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | | Opening NO Closing NC Opening NC | max min max min max min max min max | ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | | Opening NO Closing NC Opening NC Closing NO | max min max min max min max | ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | | Opening NO Closing NC Opening NC | max min max min max min max min max | ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max | ms ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max min max | ms | 21 9 18 17 26 7 17 |
| | | Opening NO Closing NC Opening NC Closing NO Opening NO | max min max min max min max min max min max | ms | 21 9 18 17 26 7 17 |

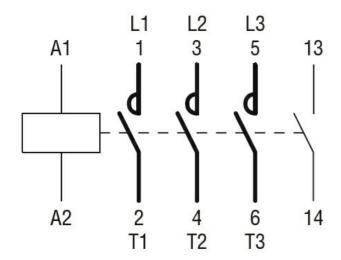


Opening NC

| | Opening M | J | | |
|---|-------------------------------|-------------------------|--------|---|
| | | min | ms | 11 |
| | | max | ms | 17 |
| UL technical data | | max | 1110 | |
| | \ far three rhace AC mater | | | |
| Full-load current (FLA |) for three-phase AC motor | | _ | |
| | | at 480V | Α | 4.8 |
| | | at 600V | Α | 3.9 |
| Yielded mechanical pe | erformance | | | |
| · | for single-phase AC motor | | | |
| | rer emgre prides / te meter | 110/120V | HP | 0.3 |
| | | 230V | HP | |
| | | 230 V | ПР | |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | 0.0,000 | | |
| General USE | 0 1 1 | | | |
| | Contactor | | _ | |
| | | AC current | Α | 16 |
| Short-circuit protection | n fuse, 600V | | | |
| | High fault | | | |
| | 3 | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | <u> </u> | | |
| | _ _ | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of auxili | iary 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 |
| May altitude | | IIIax | | |
| Max altitude | | | m | 3000 |
| Resistance & Protecti | on | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 44 44 | - | 13.44 | | |
| 4.4 (1.73") (0.17") | 57 | (1.73") (1.73") (1.73") | | 57 ———————————————————————————————————— |
| (0.17") | (2.24") | 0 0 0 | 97 | .24) |
| $\bullet \bullet \bullet \bullet \bullet$ | b | | | |
| | (1.97") | (1.97) | (2.28" | |
| ************************************** | (1) | | | |
| | | 26. O R R O O C | | |
| 0 - 4 - 4 - 4 | - 34.9 - | 34.9 | - | DE 0 |
| (0.33") 8.5 (0.38") | (1.37") | (0.12) |) | RF9 |
| (0.33") | | | 1 | 7.6 |
| 8.5 (0.33") | | (1.73") | _ | 89.2 (3.51") (0.30") |
| Wiring diagrams | | (1.70) | | (0.0.) |
| willing diagrams | | | | |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 48VAC, 1NO 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







| 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 |





| | 220V | Α | 1 |
|---|--|--|---|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| neo max cament le in 200 200 min 2/1 = 10me min 2 perso in conse | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | - - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | 220 V | | |
| IEC max current le in DC3-DC3 with L/K \(\) 13ms with 3 poles in series | <241/ | ۸ | 0 |
| | ≤24V 48V | A | 9 |
| | 46 V 75 V | A | 9 |
| | | A | 5 |
| | 110V | A | 4 |
| IFO | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | -0.41.4 | | |
| | ≤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 | | | |
| | | | 72 |
| | 440V | Α | 1 2 |
| | 440V 500V | A A | 72 |
| | | | |
| Resistance per pole (average value) | 500V | Α | 72 |
| | 500V | A A | 72 72 |
| | 500V | A A mΩ | 72 72 10 |
| | 500V 690V | A A mΩ W | 72 72 10 2.6 |
| Power dissipation per pole (average value) | 500V 690V | A A mΩ | 72 72 10 |
| Power dissipation per pole (average value) | 500V 690V Ith AC3 | A A mΩ W W | 72 72 10 2.6 0.36 |
| Power dissipation per pole (average value) | 500V 690V Ith AC3 | A A mΩ W W | 72 72 10 2.6 0.36 |
| Power dissipation per pole (average value) | S00V 690V Ith AC3 min max | A A mΩ W W | 72 72 10 2.6 0.36 0.8 |
| Power dissipation per pole (average value) | S00V 690V Ith AC3 min max min | A A MΩ W W Nm Nm Ibin | 72 72 10 2.6 0.36 0.8 1 |
| Power dissipation per pole (average value) Tightening torque for terminals | S00V 690V Ith AC3 min max | A A mΩ W W | 72 72 10 2.6 0.36 0.8 |
| Power dissipation per pole (average value) Tightening torque for terminals | S00V 690V Ith AC3 min max min max | A A MΩ W W Nm Nm Ibin Ibin | 72 72 10 2.6 0.36 0.8 1 9 |
| Power dissipation per pole (average value) Tightening torque for terminals | 500V 690V Ith AC3 min max min max | A A MΩ W W Nm Nm Ibin Ibin | 72 72 10 2.6 0.36 0.8 1 9 9 |
| Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal | S00V 690V Ith AC3 min max min max | A A MΩ W W Nm Nm Ibin Ibin | 72 72 10 2.6 0.36 0.8 1 9 |





| | | max | Ibin | 9 |
|--|---|---|---------------------------------|---|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | ANA/C/I/ are:I | | | |
| | AWG/Kcmil | may | | 12 |
| | Flexible w/o lug conductor section | max | | 12 |
| | r lexible w/o lug coriductor section | min | mm² | 0.75 |
| | | max | mm² | 2.5 |
| | Flexible c/w lug conductor section | max | | 2.0 |
| | Tioxibio di Vilag dell'addicti decilett | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | | |
| | φ | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Dower terminal prote | ection according to IEC/EN 60500 | | | IP20 when |
| Power terminal prote | ection according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| ixing | | | | Screw / DIN rail |
| | | | | 35mm |
| Veight | | | g | 180 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact cha | racteristics | | ^ | 4.0 |
| Thermal current Ith | | | A | 10 |
| | | | | |
| | | | | A600 - Q600 |
| | | 0201/ | ^ | |
| | | 230V | A | 3 |
| | | 400V | Α | 3 1.9 |
| Operating current AC | 215 | | | 3 |
| Operating current AC | 215 | 400V 500V | A A | 3 1.9 1.4 |
| Operating current AC | C15 | 400V | Α | 3 1.9 |
| Operating current AC | C15 | 400V 500V 110V | A A | 3 1.9 1.4 2.9 |
| Operating current AC | C15 | 400V 500V 110V 24V | A A A | 3 1.9 1.4 2.9 |
| Operating current AC | C15 | 400V 500V 110V 24V 48V | A A A | 3 1.9 1.4 2.9 2.9 1.4 |
| Operating current AC | C15 | 400V 500V 110V 24V 48V 60V | A A A A | 3 1.9 1.4 2.9 2.9 1.4 1.2 |
| Operating current AC | C15 | 400V 500V 110V 24V 48V 60V 110V | A A A A A | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 |
| Operating current AC | C15 | 400V 500V 110V 24V 48V 60V 110V 125V | A A A A A | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 |
| Operating current AC | C15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 |
| Operating current AC Operating current DC Operating current DC | C15 | 400V 500V 110V 24V 48V 60V 110V 125V | A A A A A | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 |
| Operating current AC Operating current DC Operating current DC | C15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life | C15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A Cycles | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life | C15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Departing current AC Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Electrical life | C12 C13 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A A A A Cycles | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | C15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A Cycles cycles | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A Cycles cycles | 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 |
| Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B | 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 Cycles cycles | 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B | 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A Cycles cycles | 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 |





| Rated AC voltage at | | | | V | 110 |
|-------------------------------------|---------------------|--|---|----------------------------------|---|
| AC operating voltage | | = 0.1 | | | |
| | of 50/60Hz coil po | | | | |
| | | pick-up | min | %Us | 75 |
| | | | max | %Us | 75 115 |
| | | drop-out | max | 7003 | 110 |
| | | | min | %Us | 20 |
| | | | max | %Us | 55 |
| | of 50/60Hz coil po | owered at 60Hz | | | |
| | | pick-up | | | |
| | | | min | %Us | 80 |
| | | | max | %Us | 115 |
| | | drop-out | | 0/11 | |
| | | | min | %Us | 20 55 |
| C average soil con | volumetion at 20°C | | max | %Us | 55 |
| C average coil con | of 50/60Hz coil po | owered at 50Hz | | | |
| | or Joydon iz con po | JWGIGU AL JULIZ | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil po | owered at 60Hz | 9 | | |
| | · | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil power | ered at 60Hz | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| Dissipation at holdin | | | | W | 0.95 |
| Max cycles frequenc | | | | . " | 0000 |
| Mechanical operatio Operating times | n | | | cycles/h | 3600 |
| peraung umes | | | | | |
| Warana tima for Lle | control | | | | |
| verage time for Us | | | | | |
| verage time for Us | control in AC | Closina NO | | | |
| verage time for Us | | Closing NO | min | ms | 12 |
| verage time for Us | | Closing NO | min max | ms ms | 12 21 |
| verage time for Us | | Closing NO Opening NO | | | |
| verage time for Us | | | | | |
| verage time for Us | | Opening NO | max | ms | 21 |
| verage time for Us | | | max min max | ms ms ms | 21918 |
| verage time for Us | | Opening NO | max min max min | ms ms ms | 2191817 |
| Average time for Us | | Opening NO Closing NC | max min max | ms ms ms | 21918 |
| Average time for Us | | Opening NO | max min max min max | ms ms ms ms | 219181726 |
| verage time for Us | | Opening NO Closing NC | max min max min max min | ms ms ms ms | 2191817267 |
| verage time for Us | in AC | Opening NO Closing NC | max min max min max | ms ms ms ms | 219181726 |
| Average time for Us | | Opening NO Closing NC Opening NC | max min max min max min | ms ms ms ms | 2191817267 |
| Average time for Us | in AC | Opening NO Closing NC | max min max min max min max | ms ms ms ms ms | 21 9 18 17 26 7 17 |
| Average time for Us | in AC | Opening NO Closing NC Opening NC | max min max min max min max min max | ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| Average time for Us | in AC | Opening NO Closing NC Opening NC Closing NO | max min max min max min max | ms ms ms ms ms | 21 9 18 17 26 7 17 |
| Average time for Us | in AC | Opening NO Closing NC Opening NC | max min max min max min max min max | ms ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| Average time for Us | in AC | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max | ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| Average time for Us | in AC | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max min max | ms | 21 9 18 17 26 7 17 |
| Average time for Us | in AC | Opening NO Closing NC Opening NC Closing NO Opening NO | max min max min max min max min max min max | ms | 21 9 18 17 26 7 17 |



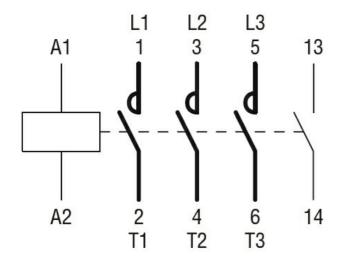


Opening NC

| | Opening | NC | | |
|---|--------------------------------|--|---------|-------------------------|
| | | min | ms | 11 |
| | | max | ms | 17 |
| | | Шах | 1115 | 17 |
| UL technical data | | | | |
| Full-load current (FLA | A) for three-phase AC motor | | | |
| | , | at 480V | ۸ | 4.0 |
| | | | Α | 4.8 |
| | | at 600V | Α | 3.9 |
| Yielded mechanical p | erformance | | | |
| riolada modilamear p | | | | |
| | for single-phase AC motor | | | |
| | | 110/120V | HP | 0.3 |
| | | 230V | HP | 1 |
| | | 200 V | | <u>'</u> |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | | | |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | | | |
| Johnson OOL | 2 - 1 - 1 - 1 | | | |
| | Contactor | | | |
| | | AC current | Α | 16 |
| Short-circuit protectio | in fuse 600V | | | |
| onon-onean protectio | | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | | ^ | |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | | | |
| | | Fuse rating | Α | 30 |
| Contact rating of auxil | liary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| | | | | |
| Temperature | | | | |
| | Operating temperature | | | |
| | 1 3 1 | min | °C | -50 |
| | | | | |
| | | max | °C | +70 |
| | Storage temperature | | | |
| | | min | °C | -60 |
| | | | | |
| | | max | °C | +80 |
| Max altitude | | | m | 3000 |
| Resistance & Protect | ion | | | |
| | | | | 3 |
| Pollution degree | | | | J |
| Dimensions | | | | |
| 44 44 | | 11 A 21 | | |
| (1.73") 4.4 (0.17") | 57 | (1.73") (9.6°) | - | 57 ——— |
| (0.17") | 57 (2.24") | 0 0 2 | (2. | 57 - 24") |
| 4 | 2 (2.24) | | 37 | |
| | | | | |
| | (1.97") (2.28") | 1.97 | (2.28") | |
| | (1) | | | |
| $\bullet \bullet \bullet \bullet \bullet$ | 6 | (3.74.2) (3.74.2) (3.74.2) (4.6) (5.6) (6.6) (6.6) (7.6) | • 👨 | |
| 85 | F | | | 7 |
| 8.5 (0.33") 9.7 (0.38") | 34.9 (1.37") | 3.2 (1.37") 3.2 (0.12" |) | RF9 |
| 8.5 (0.33") | Vacant V | , | | |
| | | | ~~~ | 89.2 (0.30") |
| 8.5 (0.33") | | (1.73") | - | 89.2 (3.51") (0.30") |
| | | (1.73) | | () |
| Wiring diagrams | | | | |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 110VAC, 1NO 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







| Product type designation Sontact characteristics | Product designation | | | Power contactor |
|---|---|-------------|-----|-----------------|
| Number of poles | Product type designation | | | BG06 |
| Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 IEC Conventional free air thermal current Ith A 16 Operational current Ie AC-1 (≤40°C) A 16 AC-1 (≤55°C) A 14 AC-1 (≤70°C) A 12 AC-3 (≤440V ≤55°C) A 6 AC-4 (400V) A 3.3 Rated operational power AC-3 (T≤55°C) 230V kW 1.5 400V kW 2.2 440V kW 2.2 415V kW 2.4 444V kW 2.4 440V kW 2.5 500V kW 3 690V kW 1.5 500V kW 1.0 | Contact characteristics | | | |
| Rated impulse withstand voltage Uimp | Number of poles | | Nr. | 3 |
| Operational frequency min max Hz bit 2 doo Hz doo 400 IEC Conventional free air thermal current lth A 16 Operational current le AC-1 (≤40°C) A 16 AC-1 (≤55°C) A 14 AC-1 (≤70°C) A 12 AC-3 (≤4400 ≤55°C) A 6 AC-3 (≤4400 ≤55°C) A 6 AC-4 (4000) A 3.3 Rated operational power AC-3 (T≤55°C) 230V kW 1.5 AC-4 (400V) kW 2.2 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 | Rated insulation voltage Ui IEC/EN | | V | 690 |
| Min | Rated impulse withstand voltage Uimp | | kV | 6 |
| EC Conventional free air thermal current Ith | Operational frequency | | | |
| EC Conventional free air thermal current lth | | min | Hz | 25 |
| Operational current le AC-1 (≤40°C) A 16 AC-1 (≤55°C) A 14 AC-1 (≤70°C) A 12 AC-3 (≤440V ≤55°C) A 6 AC-4 (400V) A 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 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 A 9 4 48V A 11 75V A 7 110V A 6 220V A - 220V A - - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 12 48V A 7 11 110V A 6 220V A - 220V A - - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 14 A 6 220V A - - | | max | Hz | 400 |
| AC-1 (≤40°C) | | | Α | 16 |
| AC-1 (≤55°C) | Operational current le | | | |
| AC-1 (≤70°C) A 12 AC-3 (≤440V ≤55°C) A 6 AC-4 (400V) A 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 690V kW 3 Rated operational power AC-1 (T≤40°C) 230V kW 6 400V kW 13 690V kW 13 690 | | | Α | 16 |
| AC-3 (≤440V ≤55°C) A 6 AC-4 (400V) A 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 13 690V kW 13 690V kW 13 690V kW 18 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 9 48V A 8 75V A 4 110V A 3 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 12 48V A 11 75V A 7 110V A 6 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | Α | 14 |
| AC-4 (400V) | | | Α | 12 |
| Rated operational power AC-3 (T≤55°C) 230V kW 1.5 400V kW 2.2 415V kW 2.4 4440V 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 13 690V kW 18 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 9 48V A 8 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 12 48V A 11 75V A 7 110V A 6 220V A - | | , | Α | |
| 230V kW 1.5 400V kW 2.2 415V kW 2.4 446V kW 2.5 500V kW 3 690V kW 3 690V kW 3 690V kW 3 690V kW 10 500V kW 13 690V kW 18 690 | 9 | AC-4 (400V) | Α | 3.3 |
| 400V kW 2.2 415V kW 2.4 440V kW 2.5 500V kW 3 690V kW 10 500V kW 13 690V kW 18 690V | Rated operational power AC-3 (T≤55°C) | | | |
| A15V kW 2.4 A40V kW 2.5 500V kW 3 690V kW 10 500V kW 13 690V kW 18 690V | | 230V | kW | 1.5 |
| A40V kW 2.5 500V kW 3 690V kW 10 600V kW 10 600V kW 13 690V kW 18 690V k | | 400V | kW | 2.2 |
| Soov kW 3 690V kW 3 | | 415V | kW | 2.4 |
| Rated operational power AC-1 (T≤40°C) 230V kW 6 | | 440V | kW | 2.5 |
| 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 A 9 48V A 8 75V A 4 110V A 3 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 12 48V A 11 75V A 7 110V A 6 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 12 48V A 11 75V A 7 110V A 6 220V A − | | 500V | kW | 3 |
| | | 690V | kW | 3 |
| A00V kW 10 500V kW 13 690V kW 18 | Rated operational power AC-1 (T≤40°C) | | | |
| Soov kW 13 690V kW 18 18 18 18 | | 230V | kW | 6 |
| EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V | | 400V | kW | 10 |
| SEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series SE24V A 9 | | 500V | kW | 13 |
| | | 690V | kW | 18 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| T5V A 4 110V A 3 220V A - | | ≤24V | Α | 9 |
| 110V A 3 220V A - | | | Α | 8 |
| EC max current le in DC1 with L/R \leq 1ms with 2 poles in series \leq 24V A 12 48V A 11 75V A 7 110V A 6 220V A - | | | Α | 4 |
| EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V | | 110V | Α | 3 |
| | 9 | 220V | Α | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | Α | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | Α | |
| EC max current le in DC1 with L/R \leq 1ms with 3 poles in series \leq 24V A 14 48V A 14 75V A 8 | | | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 14 48V A 14 75V A 8 | | | Α | 6 |
| ≤24V A 14 48V A 14 75V A 8 | 9 | 220V | Α | |
| 48V A 14 75V A 8 | IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| 75V A 8 | | | Α | |
| | | | | |
| 110V A 8 | | | | |
| | | 110V | Α | 8 |





| | 220V | Α | 1 |
|--|--------------|------|--------------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| 120 max carrent to in 200 200 mar 2/1 = 10mb mar 2 points in control | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | - - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | ZZU V | | _ |
| TEC max current le in DC3-DC3 with L/R \(\) 15ms with 3 poles in series | <241/ | ۸ | 0 |
| | ≤24V 48V | A | 9 |
| | 46 V 75 V | A | 9 |
| | | A | 5 4 |
| | 110V | A | |
| 150 | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | 40.4V. | ^ | |
| | ≤24V | A | _ |
| | 48V | A | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| 01 47 11 11 14 40 (150/51)000 47 4) | 220V | A | _ |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | 0 ((=0) | | |
| | 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) | | | |
| | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| 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 | lbin | 9 |
| | | | |



| | | max | lbin | 9 |
|--|---|---|---|---|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | N. 10 11 11 11 11 11 11 11 11 11 11 11 11 | | | |
| | AWG/Kcmil | | | 4.0 |
| | Florible w/s has possible as ation | max | | 12 |
| | Flexible w/o lug conductor section | min | mama ² | 0.75 |
| | | min | mm² mm² | 0.75 2.5 |
| | Flexible c/w lug conductor section | max | 111111 | 2.0 |
| | r lexible c/w lug corludator section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | | 2.0 |
| | Tionible with inculated opade rag conductor coolien | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | | | IP20 when |
| Power terminal protect | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail |
| | | | | 35mm |
| Weight | | | g | 182 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | | | 10 |
| | | max | | 12 |
| Auxiliary contact chara | acteristics | max | | |
| Thermal current Ith | | max | A | 10 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | max | A | |
| Thermal current Ith | esignation | | | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | 230V | A | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | esignation 15 | 230V | A | 10 A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation 15 | 230V 400V 500V | A A A | 10 A600 - Q600 3 1.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V | A A | 10 A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | esignation 15 | 230V 400V 500V | A A A | 10 A600 - Q600 3 1.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V 110V | A A A | 10 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 15 | 230V 400V 500V 110V 24V 48V | A A A A | 10 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 15 | 230V 400V 500V 110V 24V 48V 60V | A A A A A | 10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V | A A A A A | 10 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 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V | 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 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V | A A A A A | 10 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 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 de Operating current AC Operating current DC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 de Operating current AC Operating current DC Operating current DC Operating current DC | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 0.1 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Mechanical life | esignation 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 15 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 15 12 13 | 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 15 12 13 Od 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 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 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Electrical life Safety related data Performance level B1 | esignation 15 12 13 Od 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 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 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Electrical life Safety related data Performance level B1 | esignation 12 13 Od 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 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 500000 |





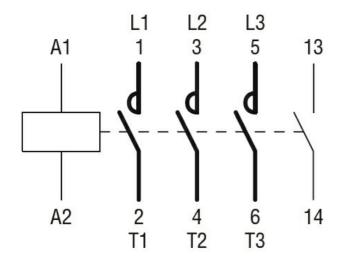
| Rated AC voltage at | | | | V | 230 |
|--------------------------------------|---------------------|--|---|----------------------------------|---|
| AC operating voltage | | | | | |
| | of 50/60Hz coil p | | | | |
| | | pick-up | min | %Us | 75 |
| | | | max | %Us | 75 115 |
| | | drop-out | Пах | 7000 | 110 |
| | | 3. Sp. 53.1 | min | %Us | 20 |
| | | | max | %Us | 55 |
| | of 50/60Hz coil p | owered at 60Hz | | | |
| | | pick-up | | | |
| | | | min | %Us | 80 |
| | | | max | %Us | 115 |
| | | drop-out | | 0/11 | |
| | | | min | %Us | 20 55 |
| C average soil can | oumption at 20°C | | max | %Us | 55 |
| C average coil con | of 50/60Hz coil p | owered at 50Hz | | | |
| | οι σο/σοι τε σοιι ρ | owered at JUHZ | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil p | owered at 60Hz | | | |
| | ' | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil power | ered at 60Hz | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| Dissipation at holdin | | | | W | 0.95 |
| Max cycles frequenc | | | | . " | 0000 |
| Mechanical operation | n | | | cycles/h | 3600 |
| Operating times Average time for Us | control | | | | |
| werage unie ioi os | in AC | | | | |
| | 111710 | 01 : 110 | | | |
| | | Closing NO | | | |
| | | Closing NO | min | ms | 12 |
| | | Closing NO | min max | ms ms | 12 21 |
| | | Closing NO Opening NO | | | |
| | | | | | 9 |
| | | Opening NO | max | ms | 21 |
| | | | max min max | ms ms ms | 21918 |
| | | Opening NO | max min max min | ms ms ms | 2191817 |
| | | Opening NO Closing NC | max min max | ms ms ms | 21918 |
| | | Opening NO | max min max min max | ms ms ms ms | 219181726 |
| | | Opening NO Closing NC | max min max min max min | ms ms ms ms | 2191817267 |
| | in DC: | Opening NO Closing NC | max min max min max | ms ms ms ms | 219181726 |
| | in DC | Opening NO Closing NC Opening NC | max min max min max min | ms ms ms ms | 2191817267 |
| | in DC | Opening NO Closing NC | max min max min max min max | ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in DC | Opening NO Closing NC Opening NC | max min max min max min max min max | ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in DC | Opening NO Closing NC Opening NC Closing NO | max min max min max min max | ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in DC | Opening NO Closing NC Opening NC | max min max min max min max min max | ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in DC | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max | ms ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in DC | Opening NO Closing NC Opening NC Closing NO | max min max min max min max min max min max | ms | 21 9 18 17 26 7 17 |
| | in DC | Opening NO Closing NC Opening NC Closing NO Opening NO | max min max min max min max min max min max | ms | 21 9 18 17 26 7 17 |



Opening NC

| | Opening M | J | | |
|---|-------------------------------|-------------------------|--------|---|
| | | min | ms | 11 |
| | | max | ms | 17 |
| UL technical data | | max | 1110 | |
| | \ far three rhace AC mater | | | |
| Full-load current (FLA |) for three-phase AC motor | | _ | |
| | | at 480V | Α | 4.8 |
| | | at 600V | Α | 3.9 |
| Yielded mechanical pe | erformance | | | |
| · | for single-phase AC motor | | | |
| | rer emigre prides / te meter | 110/120V | HP | 0.3 |
| | | 230V | HP | |
| | | 230 V | ПР | |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | 0.0,000 | | |
| General USE | 0 1 1 | | | |
| | Contactor | | _ | |
| | | AC current | Α | 16 |
| Short-circuit protection | n fuse, 600V | | | |
| | High fault | | | |
| | 3 | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | <u> </u> | | |
| | _ _ | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of auxili | iary 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 |
| May altitude | | IIIax | | |
| Max altitude | | | m | 3000 |
| Resistance & Protecti | on | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 44 44 | - | 13.44 | | |
| 4.4 (1.73") (0.17") | 57 | (1.73") (1.73") (1.73") | | 57 ———————————————————————————————————— |
| (0.17") | (2.24") | 0 0 0 | 97 | .24) |
| $\bullet \bullet \bullet \bullet \bullet$ | b | | | |
| | (1.97") | (1.97) | (2.28" | |
| ************************************** | (1) | | | |
| | | 26. O R R O O C | | |
| 0 - 4 - 4 - 4 | - 34.9 - | 34.9 | - | DE 0 |
| (0.33") 8.5 (0.38") | (1.37") | (0.12) |) | RF9 |
| (0.33") | | | 1 | 7.6 |
| 8.5 (0.33") | | (1.73") | _ | 89.2 (3.51") (0.30") |
| Wiring diagrams | | (1.70) | | (0.0.) |
| willing diagrams | | | | |





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







| Product designation | | | Power contactor BG06 |
|---|--------------------|-----|-------------------------|
| Product type designation Contact characteristics | | | БСОО |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | 100 | |
| Sporational modulonoy | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | THOX | A | 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 | Α | 4 |
| | 110V | Α | 3 |
| - | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | Α | 12 |
| | 48V | Α | 11 |
| | 75V | Α | 7 |
| | 110V | A | 6 |
| | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | ≤24V | A | 14 |
| | 48V | A | 14 |
| | 75V | A | 8 |
| | 110V | Α | 8 |



| | 220V | Α | 1 |
|--|----------|-------|------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| | | | _ |
| 150 | 220V | A | |
| 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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| · | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | | | |
| 150 DOS DOS WILLIAM WAS A STATE OF THE STATE | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 9 |
| | 48V | Α | 9 |
| | 75V | Α | 5 |
| | 110V | Α | 4 |
| | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | A | |
| | 110V | | _ |
| | | A | _ |
| 01 11 11 11 11 11 11 11 11 11 11 11 11 1 | 220V | A | |
| 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) | 030 V | mΩ | 10 |
| | | 11177 | 10 |
| Power dissipation per pole (average value) | 1.1 | 3.4.7 | 0.0 |
| | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| 2 ··· ·· ·· · · · · · · · · · · · · · · | min | Nm | 0.8 |
| | max | Nm | 1 |
| | | | |
| | min | lbin | 9 |
| | | | |



| | max | Ibin | 9 |
|---|---|---|---|
| multaneously connectable | | Nr. | 2 |
| AMO # | | | |
| AWG/Kcmil | | | 4.0 |
| Flavible w/s lum conductor costice | max | | 12 |
| Flexible w/o lug conductor section | min | mama ² | 0.75 |
| | | | 0.75 2.5 |
| Flexible c/w lug conductor section | IIIax | 111111 | 2.5 |
| Trexible C/W rug corrudctor section | min | mm² | 1.5 |
| | | | 2.5 |
| Flexible with insulated snade lug conductor section | max | 111111 | 2.0 |
| Trexible with insulated space by conductor section | min | mm² | 1.5 |
| | | | 2.5 |
| | max | | IP20 when |
| on according to IEC/EN 60529 | | | properly wired |
| | | | |
| | | | |
| | normal | | Vertical plan |
| | allowable | | ±30° |
| | | | Screw / DIN rail |
| | | | 35mm |
| | | g | 186 |
| | | | |
| AWG/kcmil conductor section | | | |
| | max | | 12 |
| teristics | | | |
| | | Α | 10 |
| ~ | | | A600 - Q600 |
| j | | | |
| | | Α | 3 |
| | | | 1.9 |
| | 500V | A | 1.4 |
| | | | |
| | 110V | A | 2.9 |
| , | | _ | |
| | | | 2.9 |
| | | | 1.4 |
| | | | 1.2 |
| | 110V | A | 0.6 |
| | 125V 220V | A | 0.55 0.3 |
| | ZZUV | Α | |
| | 6001/ | ٨ | Λ 1 |
| | 600V | Α | 0.1 |
| | 600V | | |
| | 600V | cycles | 20000000 |
| | 600V | | |
| 1 according to FN/ISO 13/180-1 | 600V | cycles | 20000000 |
| d according to EN/ISO 13489-1 | | cycles cycles | 20000000 500000 |
| - | rated load | cycles cycles | 20000000 500000 500000 |
| me | | cycles cycles | 20000000 500000 500000 20000000 |
| - | rated load | cycles cycles | 20000000 500000 500000 |
| | Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section on according to IEC/EN 60529 AWG/kcmil conductor section teristics gnation 2 | Flexible c/w lug conductor section Flexible with insulated spade lug conductor section min max Flexible with insulated spade lug conductor section min max on according to IEC/EN 60529 AWG/kcmil conductor section max teristics gnation 230V 400V 500V 2 110V 3 | min mm² max max mm² max |





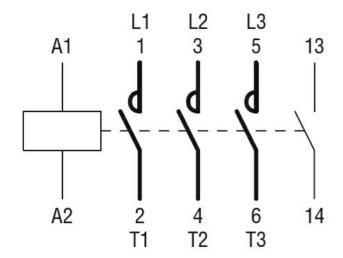
| Rated AC voltage a | 60Hz | | | V | 230 |
|--|-------------------------|---------------|---------|----------|------|
| AC operating voltag | e | | | | |
| | of 60Hz coil powere | | | | |
| | | pick-up | • | 0/11- | 75 |
| | | | min | %Us | 75 |
| | | drop-out | max | %Us | 115 |
| | | arop out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil cor | sumption at 20°C | | | | |
| - | of 50/60Hz coil pow | vered at 50Hz | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil pow | ered at 60Hz | | | |
| | | | in-rush | VA | 25 |
| | of COUT asil name | ad at COLI- | holding | VA | 3 |
| | of 60Hz coil powere | ยน สเ 60⊓∠ | in-rush | VA | 30 |
| | | | holding | VA VA | 4 |
| Dissipation at holdir | a ≤20°C 50Hz | | Holding | W | 0.95 |
| Max cycles frequen | _ | | | | 0.00 |
| Mechanical operation | • | | | cycles/h | 3600 |
| Operating times | | | | · | |
| Average time for Us | control | | | | |
| | in AC | | | | |
| | | Closing NO | _ | | |
| | | | min | ms | 12 |
| | | Onanina NO | max | ms | 21 |
| | | Opening NO | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | | | . • |
| | | Ŭ | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | | | |
| | | | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | Closica NO | | | |
| | | Closing NO | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NO | max | | |
| | | 1 3 - | min | ms | 2 |
| | | | max | ms | 3 |
| | | Closing NC | | | |
| | | | min | ms | 3 |
| | | | max | ms | 5 |
| | | Opening NC | | | 44 |
| | | | min | ms | 11 |
| | | | | | 17 |
| II technical data | | | max | ms | 17 |
| | A) for three-phase AC r | motor | | | 17 |
| UL technical data Full-load current (Fl | A) for three-phase AC r | motor | | | 4.8 |



| Yielded mechanica | l performance | | | |
|----------------------|-----------------------------------|------------------------------|----------|-----------------------|
| | for single-phase AC motor | | | |
| | J , | 110/120V | HP | 0.3 |
| | | 230V | HP | 1 |
| | | 230 V | ПЕ | <u> </u> |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | 0.0,000 | | |
| derierai USL | O contractors | | | |
| | Contactor | | | |
| | | AC current | Α | 16 |
| Short-circuit protec | tion fuse, 600V | | | |
| | High fault | | | |
| | Ŭ | 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 au | uxiliary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| | | | | |
| Temperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | +70 |
| | Storage temperature | | | |
| | 3 1 | min | °C | -60 |
| | | max | °C | +80 |
| A100 L - | | IIIdA | | |
| Max altitude | | | m | 3000 |
| Resistance & Prote | ection | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| | | | | |
| (1.73") 44 (0.1 | 17") 8 6 57 | (1.73") O ^N , (6) | - | 57 |
| (0.17") | 57 (2.24") | 0 0 12 | (2 | .24") |
| 4 | , h | | D) | |
| 0 0 | | 196 9 | (2.28") | |
| | (1.97") | | 2 | |
| ⊕ ⊕ ⊕ ⊕ | | | 6 | |
| O H H O | | | | |
| 8.5 (0.33") (0.3 | 7 - 34.9 - 8") (1.37") | 34.9 — 3.2 (1.37") 3.2 | ") | RF9 |
| 8.5 (0.33") | 0 / (1.57) | (5.12 | ' | |
| | | - 44 | ~~~ | 89.2 (3.51") |
| 8.5 (0.33") | | (1.73") | - | 89.2 (3.51") (0.30 |
| Wiring diagrams | | | | |
| | | | | |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 230VAC, 1NO 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







Product designation Power contactor Product type designation **BG06** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 16 Α 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) 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 Α 4 110V 3 Α 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 12 48V Α 11 75V 7 Α 110V Α 6 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 14 14 48V Α 75V Α 8 110V 8



| | 220V | Α | 1 |
|--|----------|----------|--------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| | | | _ |
| IFO and a summer to be DOO DOC with 1/D < 45 and with 4 and a beginning | 220V | A | |
| 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 | Α | 1 |
| | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | _ |
| | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | Α | 4 |
| | 110V | Α | 3 |
| | 220V | A | - - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | 22U V | | |
| TEC max current le in DC3-DC5 with L/R \square 15ms with 3 poles in series | 40 AV / | ^ | • |
| | ≤24V | A | 9 |
| | 48V | Α | 9 |
| | 75V | Α | 5 |
| | 110V | Α | 4 |
| | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | Α | _ |
| | 110V | Α | _ |
| | 220V | Α | _ |
| Short-time allowable current for 10s (IEC/EN60947-1) | | A | 96 |
| Protection fuse | | | |
| Flotection tuse | ~C (IFC) | ۸ | 4.0 |
| | gG (IEC) | A | 16 |
| | aM (IEC) | A | 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) | | | |
| 1 1 (** - 3) | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| Tightening torque for terminals | 7.00 | • • • | |
| rightening torque for terminals | min | Nlm | Λ 8 |
| | min | Nm Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | | | |



| | | max | Ibin | 9 |
|------------------------|---|-----------------|------------------|------------------|
| | 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 | | | 4.5 |
| | | min | mm² | 1.5 |
| | Florible with insulated and delice and details and | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | _ | na na 2 | 1 5 |
| | | min | mm² | 1.5 2.5 |
| | | max | mm² | IP20 when |
| Power terminal protect | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | Proporty whod |
| Operating position | | | | |
| h | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Finis - | | | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | g | 180 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | | | | A600 - Q600 |
| Operating current AC | 15 | | | |
| | | 230V | Α | 3 |
| | | 400V | Α | 1.9 |
| | | 500V | Α | 1.4 |
| Operating current DC | 12 | | | |
| | | 110V | Α | 2.9 |
| Operating current DC | 13 | | _ | |
| | | 24V | Α | 2.9 |
| | | 48V | A | 1.4 |
| | | 60V | A | 1.2 |
| | | 110V | A | 0.6 |
| | | 125V | A | 0.55 |
| | | 220V 600V | A A | 0.3 0.1 |
| Operations | | 0007 | A | U. I |
| Mechanical life | | | cycles | 20000000 |
| Electrical life | | | cycles | 500000 |
| Safety related data | | | cycles | 300000 |
| • | l0d according to EN/ISO 13489-1 | | | |
| i enomiance level D | Tod according to ETY/ISO 13403-1 | rated load | cyclos | 500000 |
| | | mechanical load | cycles cycles | 2000000 |
| Mirror contate accord | ing to IEC/EN 609474-4-1 | mechanical load | cycles | |
| EMC compatibility | IIIY 10 1EO/EN 0034/4-4-1 | | | yes |
| AC coil operating | | | | yes |
| AC COIL OPERALING | | | | |



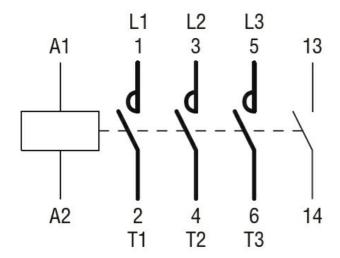


| Rated AC voltage at 60 | 0Hz | | | V | 24 |
|--|---------------------|---|---------------------------------|----------------------------|------------------------------------|
| AC operating voltage | | | | | |
| | of 60Hz coil power | | | | |
| | | pick-up | min | 0/116 | 75 |
| | | | min max | %Us %Us | 75 115 |
| | | drop-out | IIIax | /003 | 113 |
| | | arop out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consu | ımption at 20°C | | | | |
| | of 50/60Hz coil pov | wered at 50Hz | | | |
| | | | in-rush | VA | 30 |
| | - | | holding | VA | 4 |
| | of 50/60Hz coil pov | wered at 60Hz | | | |
| | | | in-rush | VA | 25 |
| | . (0011 | . 1 . (0011 | holding | VA | 3 |
| | of 60Hz coil power | eu at 60HZ | in-rush | VA | 30 |
| | | | in-rush holding | VA VA | 4 |
| Dissipation at holding : | ≤20°C 50Hz | | Holding | W | 0.95 |
| Max cycles frequency | | | | V V | |
| 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 |
| | | Closing NC | max | ms | 18 |
| | | Closing NC | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | | | |
| | | | | | |
| | | 3 - | min | ms | 7 |
| | | | min max | ms ms | 7 17 |
| | in DC | | | | |
| | in DC | Closing NO | max | | 17 |
| | in DC | | max | ms ms | 18 |
| | in DC | Closing NO | max | ms | 17 |
| | in DC | | max min max | ms ms ms | 17 18 25 |
| | in DC | Closing NO | max min max min | ms ms ms | 18 25 2 |
| | in DC | Closing NO Opening NO | max min max | ms ms ms | 17 18 25 |
| | in DC | Closing NO | max min max min max | ms ms ms ms | 18 25 2 3 |
| | in DC | Closing NO Opening NO | min max min max | ms ms ms ms | 17 18 25 2 3 3 |
| | in DC | Closing NO Opening NO Closing NC | max min max min max | ms ms ms ms | 18 25 2 3 |
| | in DC | Closing NO Opening NO | min max min max | ms ms ms ms | 18 25 2 3 |
| | in DC | Closing NO Opening NO Closing NC | min max min max | ms ms ms ms ms | 18 25 2 3 3 5 |
| JL technical data | in DC | Closing NO Opening NO Closing NC | min max min max min max min max | ms ms ms ms ms ms ms | 17 18 25 2 3 3 5 |
| | | Closing NO Opening NO Closing NC Opening NC | min max min max min max min max | ms ms ms ms ms ms ms | 17 18 25 2 3 3 5 |
| JL technical data Full-load current (FLA) | | Closing NO Opening NO Closing NC Opening NC | min max min max min max min max | ms ms ms ms ms ms ms | 17 18 25 2 3 3 5 |



| Yielded mechanical | performance | | | |
|--|--|------------------------------|---------|-------------|
| | for single-phase AC motor | | | |
| | | 110/120V | HP | 0.3 |
| | | 230V | HP | 1 |
| | for three-phase AC motor | | | |
| | на верхине | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | 373/000 V | 1 11 | |
| Jeneral USE | O and a stan | | | |
| | Contactor | 10 | ^ | 4.0 |
| | | AC current | Α | 16 |
| Short-circuit protect | | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of au | ixiliary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| Temperature | | | | |
| • | Operating temperature | | | |
| | 1 3 1 | min | °C | -50 |
| | | max | °C | +70 |
| | Storage temperature | | | 7.0 |
| | Otorage temperature | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | IIIax | | 3000 |
| | otion | | m | 3000 |
| Resistance & Prote | CUOTI | | | 0 |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 44 4 | 4 00 6 | 11 02.67 | | |
| 4.4 (0.17") (0.1 (0.17") (0.1 | (2.24") (2.28") (2.28") (2.28") | 3.2 (0.12" | (2.28") | FF9 |
| (0.17") (0.17") (0.17") (0.18") (0.33") (0.33") (0.33") | (2.24") (2.28") (2.28") (2.28") | 3.77") (3.77") (3.77") (4.60 | (2.28") | .24") |





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







Product designation Power contactor Product type designation **BG06** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 16 Α 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) 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 Α 4 110V 3 Α 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 12 48V Α 11 75V 7 Α 110V Α 6 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 14 14 48V Α 75V Α 8 110V 8





| EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | 220V | Α | 1 |
|--|--|----------|----------|------|
| \$24V | IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| 75 | | ≤24V | Α | _ |
| 110V | | 48V | Α | _ |
| EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series \$24V | | 75V | Α | _ |
| EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series \$24V | | | Α | _ |
| \$24V | | 220V | Α | _ |
| 48V | IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | | |
| 75V | | | | |
| 110V | | | | |
| EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series S24V | | | | |
| EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | | |
| \$\frac{\$24V}{48V} | IFO | 220V | А | _ |
| 48V A 7 75V A 4 110V A 3 220V A - | IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | 10.11.1 | • | _ |
| 75V | | | | |
| 110V A 3 220V A - | | | | |
| EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | | |
| EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | | 3 |
| \$24V | IEC may current lo in DC2 DC5 with L/D < 45mg with 2 males in acrise | 22UV | А | |
| A 8 V | IEC max current le in DC3-DC3 with L/K > 13ths with 3 poles in series | ZOAV | ۸ | 0 |
| 75 | | | | |
| 110V A 4 220V A 0,5 EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V A - 48V A 4 48V A 4 4 4 4 4 4 4 4 4 | | | | |
| EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | | |
| Section Se | | | | |
| ≤24V | IFC may current le in DC3-DC5 with L/R < 15ms with 4 notes in series | 220 V | | 0,3 |
| 48V | 120 max current to in 200-200 with 2/10 2 forms with 4 poles in series | <24\/ | Δ | _ |
| T5V | | | | _ |
| 110V | | | | _ |
| Short-time allowable current for 10s (IEC/EN60947-1) | | | | _ |
| Short-time allowable current for 10s (IEC/EN60947-1) | | | _ | _ |
| Protection fuse gG (IEC) | Short-time allowable current for 10s (IEC/EN60947-1) | | | 96 |
| gG (IEC) | Protection fuse | | | |
| A 6 | | gG (IEC) | Α | 16 |
| Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 440V A 72 500V A 72 690V A 72 690V A 72 Resistance per pole (average value) Ith W 2.6 Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 Tightening torque for coil terminal min Nm 0.8 min Nm 0.8 max Nm 1 | | | | |
| Seaking capacity at voltage | Making capacity (RMS value) | , | | |
| Soov A 72 690V A 72 72 72 72 72 72 73 74 74 75 74 75 75 75 75 | Breaking capacity at voltage | | | |
| Soov A 72 690V A 72 72 72 72 72 72 73 74 74 75 74 75 75 75 75 | | 440V | Α | 72 |
| Resistance per pole (average value) mΩ 10 | | | | |
| Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 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 Nm 0.8 max Nm 1 | | 690V | <u>A</u> | 72 |
| Ith W 2.6 AC3 W 0.36 | Resistance per pole (average value) | | mΩ | 10 |
| AC3 W 0.36 | Power dissipation per pole (average value) | | | |
| 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 | | | W | 2.6 |
| 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 | | AC3 | W | 0.36 |
| max Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal min Nm 0.8 max Nm 1 | Tightening torque for terminals | | | |
| min Ibin 9 max Ibin 9 Tightening torque for coil terminal min Nm 0.8 max Nm 1 | | min | | 0.8 |
| max Ibin 9 Tightening torque for coil terminal min Nm 0.8 max Nm 1 | | | | |
| Tightening torque for coil terminal min Nm 0.8 max Nm 1 | | | | |
| min Nm 0.8 max Nm 1 | | max | lbin | 9 |
| max Nm 1 | Tightening torque for coil terminal | | | |
| | | | | |
| min Ibin 9 | | | | |
| | | min | lbin | 9 |



| | | max | lbin | 9 |
|--|---|---|----------------------------|---|
| | 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 | | | |
| | ŭ | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | | |
| | Tionible Wat Indulated opade lag conductor coolien | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | max | | IP20 when |
| Power terminal prote | ection according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | proporty willou |
| Operating position | | | | |
| operating position | | normal | | Vertical plan |
| | | allowable | | ±30° |
| | | allowable | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | | 180 |
| | | | g | 100 |
| Conductor section | A)A(O/I 'I I I I I I I I I I I I I I I I I I | | | |
| | AWG/kcmil conductor section | | | |
| A 10 | | max | | 12 |
| Auxiliary contact cha | racteristics | | • | 10 |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 d | - | | | A600 - Q600 |
| Operating current AC | C15 | | | |
| | | 230V | Α | 3 |
| | | 400V | Α | 1.9 |
| | | | Λ. | |
| | | 500V | A | 1.4 |
| Operating current D0 | C12 | 500V | A | 1.4 |
| Operating current DO | C12 | 500V 110V | A | 2.9 |
| | | | | |
| | | | | |
| | | 110V | Α | 2.9 |
| | | 110V 24V | A A | 2.9 |
| | | 110V 24V 48V | A A A | 2.9 2.9 1.4 1.2 |
| | | 110V 24V 48V 60V 110V | A A A A | 2.9 2.9 1.4 1.2 0.6 |
| | | 110V 24V 48V 60V 110V 125V | A A A A A | 2.9 2.9 1.4 1.2 0.6 0.55 |
| | | 110V 24V 48V 60V 110V 125V 220V | A A A A A A | 2.9 2.9 1.4 1.2 0.6 0.55 0.3 |
| Operating current DO | | 110V 24V 48V 60V 110V 125V | A A A A A | 2.9 2.9 1.4 1.2 0.6 0.55 |
| Operating current DO | | 110V 24V 48V 60V 110V 125V 220V | A A A A A A | 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current DO Operations Mechanical life | | 110V 24V 48V 60V 110V 125V 220V | A A A A A A Cycles | 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current DO Operations Mechanical life Electrical life | | 110V 24V 48V 60V 110V 125V 220V | A A A A A A | 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current DO Operations Mechanical life Electrical life Safety related data | 213 | 110V 24V 48V 60V 110V 125V 220V | A A A A A A Cycles | 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current DO Operations Mechanical life Electrical life Safety related data | | 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 |
| Operating current DO Operations Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 2.9 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 | 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Mirror contats accord | 10d according to EN/ISO 13489-1 | 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 200000000 yes |
| Operations Mechanical life Electrical life Safety related data Performance level B | 10d according to EN/ISO 13489-1 | 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |

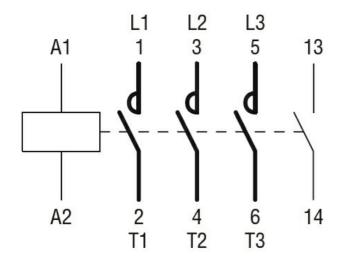




| Rated AC voltage at 60 | 0Hz | | | V | 48 |
|----------------------------|---------------------------|-------------|----------|-------------|----------|
| AC operating voltage | | | | | |
| | of 60Hz coil powered | | | | |
| | | pick-up | | 0/11- | 75 |
| | | | min | %Us %Us | 75 |
| | | drop-out | max | %US | 115 |
| | | drop-out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consu | Imption at 20°C | | THOS. | 7000 | |
| 3 | of 50/60Hz coil powe | red at 50Hz | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil powe | red at 60Hz | | | |
| | | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil powered | at 60Hz | | · | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| Dissipation at holding: | ≤20°C 50Hz | | | W | 0.95 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us co | | | | | |
| | in AC | Olasia a NO | | | |
| | | Closing NO | min | m .o | 10 |
| | | | min | ms ms | 12 21 |
| | | Opening NO | max | ms | 21 |
| | | Opening NO | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | max | 1110 | 10 |
| | | Cidding ite | 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 |
| | | 01 1 110 | max | ms | 3 |
| | | Closing NC | | · - | 2 |
| | | | min | ms | 3 |
| | | Opening NC | max | ms | 5 |
| | | Opening NC | min | me | 11 |
| | | | max | ms ms | 17 |
| UL technical data | | | IIIdX | 1115 | 17 |
| | for three-phase AC mo | otor | | | |
| i ali load culletit (i LA) | Tot tilloo pilase Ao Illo | 5.01 | at 480V | Α | 4.8 |
| | | | at 600V | A | 3.9 |
| | | | at 000 v | , , | |

| Violela di manala minali manfa | | | | |
|--------------------------------|---|-----------------------------|-----------|----------------------|
| Yielded mechanical perfor | | | | |
| to | or single-phase AC motor | 440/4007 | L.D | 0.0 |
| | | 110/120V | HP | 0.3 |
| _ | | 230V | HP | 1 |
| fo | or three-phase AC motor | | | |
| | | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | | | |
| | ontactor | | | |
| J | onidoto. | AC current | Α | 16 |
| Short-circuit protection fus | so 600V | /to darron | - , , | 10 |
| · · | | | | |
| п | igh fault | Chart sine it sure | IαA | 100 |
| | | Short circuit current | kΑ | 100 |
| | | Fuse rating | Α | 30 |
| _ | | Fuse class | | J |
| S | tandard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of auxiliary | contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| Temperature | | | | |
| 0 | perating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | +70 |
| <u>s</u> | torage temperature | | | |
| 9 | torage temperature | min | °C | -60 |
| | | max | °C | +80 |
| Marcaltituda | | Illax | | |
| Max altitude | | | m | 3000 |
| Resistance & Protection | | | | _ |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| (1.73") (0.17") | 57 | (1.73") O ^N .(6) | T- 10 | 57 |
| 4.4 (0.17") | (2.24°) (2.24°) (2.28°) (3.20°) (3.20°) (4.20°) (4.20°) (5.20°) (5.20°) (6.20°) (7.20° | | (2.28") 5 | RF9 -7.6 (0.30 (0.30 |

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 48VAC, 1NO 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







Product designation Power contactor Product type designation **BG06** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 16 Α 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) 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 Α 4 110V 3 Α 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 12 48V Α 11 75V 7 Α 110V Α 6 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 14 14 48V Α 75V Α 8 110V 8





| | 220V | Α | 1 |
|--|----------|-------|------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| | | | _ |
| 150 | 220V | A | |
| 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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| · | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | Α | 4 |
| | 110V | A | 3 |
| | | | |
| 150 DOS DOS WILLIAM WAS A STATE OF THE STATE | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 9 |
| | 48V | Α | 9 |
| | 75V | Α | 5 |
| | 110V | Α | 4 |
| | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | A | _ |
| | 75V | A | |
| | 110V | | _ |
| | | A | _ |
| 01 11 11 11 11 11 11 11 11 11 11 11 11 1 | 220V | A | |
| 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) | 030 V | mΩ | 10 |
| | | 11177 | 10 |
| Power dissipation per pole (average value) | 1.1 | 147 | 0.0 |
| | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| 2 ··· ·· ·· · · · · · · · · · · · · · · | min | Nm | 0.8 |
| | max | Nm | 1 |
| | | | |
| | min | lbin | 9 |
| | | | |



| | | max | Ibin | 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 | | 2 | |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Power terminal protect | ction according to IEC/EN 60529 | | | IP20 when |
| Mechanical features | | | | properly wired |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail 35mm |
| Weight | | | g | 180 |
| Conductor section | | | 9 | 100 |
| Conductor Section | AWG/kcmil conductor section | | | |
| | AVVG/KCITIII COTIQUETOT SECTION | max | | 12 |
| Auxiliary contact char | acteristics | max | | 12 |
| Thermal current Ith | 4000000 | | Α | 10 |
| IEC/EN 60947-5-1 de | esignation | | | A600 - Q600 |
| Operating current AC | | | | |
| 3 | | 230V | Α | 3 |
| | | 400V | Α | 1.9 |
| | | 500V | Α | 1.4 |
| Operating current DC | 12 | | | |
| | | 110V | Α | 2.9 |
| Operating current DC | 13 | | | |
| | | 24V | Α | 2.9 |
| | | 48V | Α | 1.4 |
| | | 60V | Α | 1.2 |
| | | 110V | Α | 0.6 |
| | | 125V | Α | 0.55 |
| | | 220V | Α | 0.3 |
| | | 600V | Α | 0.1 |
| Operations | | | | |
| Mechanical life | | | cycles | 20000000 |
| Electrical life | | | cycles | 500000 |
| Safety related data | | | | |
| Performance level B1 | 10d according to EN/ISO 13489-1 | | _ | |
| | | rated load | cycles | 500000 |
| | | mechanical load | cycles | 20000000 |
| | ing to IEC/EN 609474-4-1 | | | yes |
| EMC compatibility | | | | yes |
| AC coil operating | | | | |
| | | | | |



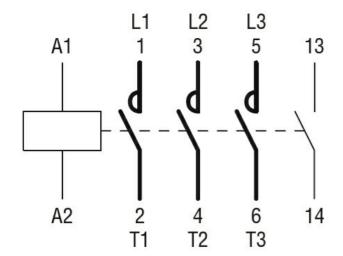


| Rated AC voltage at 6 | 60Hz | | V | 120 |
|------------------------|---------------------------------|--------------------|------------|-----------|
| AC operating voltage | | | | |
| | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | 0/116 | 7.5 |
| | | min max | %Us %Us | 75 115 |
| | drop-out | IIIax | %US | 115 |
| | drop out | min | %Us | 20 |
| | | max | %Us | 55 |
| AC average coil cons | umption at 20°C | | | |
| · · | of 50/60Hz coil powered at 50Hz | | | |
| | | in-rush | VA | 30 |
| | | holding | VA | 4 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | | in-rush | VA | 25 |
| | | holding | VA | 3 |
| | of 60Hz coil powered at 60Hz | عاميريم من | ١/٨ | 20 |
| | | in-rush holding | VA VA | 30 4 |
| Dissipation at holding | <20°C 50Hz | noiding | W | 0.95 |
| Max cycles frequency | | | V V | 0.00 |
| Mechanical operation | | | cycles/h | 3600 |
| Operating times | | | ., | |
| Average time for Us o | control | | | |
| | in AC | | | |
| | Closing NO | | | |
| | | min | ms | 12 |
| | | max | ms | 21 |
| | Opening NO | | | 0 |
| | | min | ms | 9 18 |
| | Closing NC | max | ms | 10 |
| | Closing No | min | ms | 17 |
| | | max | ms | 26 |
| | Opening NC | | | |
| | | min | ms | 7 |
| | | max | ms | 17 |
| | in DC | | | |
| | Closing NO | | | |
| | | min | ms | 18 |
| | On a stanking | max | ms | 25 |
| | Opening NO | min | me | 2 |
| | | min max | ms ms | 2 |
| | Closing NC | Шах | 1115 | 3 |
| | Closhing 140 | 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 | Α | 4.8 |
| | | at 600V | Α | 3.9 |



| Yielded mechanica | al performance | | | |
|----------------------|-----------------------------------|--|---------|---------------------------------------|
| | for single-phase AC motor | | | |
| | 3 1 | 110/120V | HP | 0.3 |
| | | 230V | HP | 1 |
| | for three-phase AC motor | 2001 | | · · · · · · · · · · · · · · · · · · · |
| | for three phase Ao motor | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | | | |
| 2 | | 575/600V | HP | 3 |
| General USE | _ | | | |
| | Contactor | | | |
| | | AC current | A | 16 |
| Short-circuit protec | ction fuse, 600V | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of au | uxiliary contacts according to UL | - 1.00g | | A600 - Q600 |
| Ambient conditions | | | | 71000 4000 |
| Temperature | | | | |
| Cimporatare | Operating temperature | | | |
| | Operating temperature | min | °C | -50 |
| | | | °C | +70 |
| | Otana na taman anatuma | max | | +70 |
| | Storage temperature | | 0.0 | 00 |
| | | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | | m | 3000 |
| Resistance & Prote | ection | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| (1.73") (0. | 14 | 11 0 ^h .6 | | |
| 4.4 | 1.4 (17") | (1.73") O ^b .6 | - 12 | 57 .24") |
| (0.17") | (2.24") | 0 0 0 | 37 | .24) |
| | | | <u></u> | |
| | (1.97") 58 (2.28") | (1.97) | (2.28") | |
| ****** | | 21 + | 6 | |
| O H H O | و و | 8.E. O H H O O C C C C C C C C C C C C C C C | | |
| 8.5 (0.33") (0.3 | 7 — 34.9 — 88") (1.37") | 34.9 3.2 (0.12' | ") | RF9 |
| 8.5 (0.33") | , (, | (0.12 | | |
| 8.5 | | 44 | _ | 89.2 7.6 |
| 8.5 (0.33") | | (1.73") | | 89.2 (3.51") (0.30 |
| Wiring diagrams | | | | |

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 120VAC, 1NO 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







| 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) | 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 | Α | 4 |
| | 110V | Α | 3 |
| | 220V | A | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | Α | 12 |
| | 48V | Α | 11 _ |
| | 75V | Α | 7 |
| | 110V | Α | 6 |
| 150 11 1 BOA 11 1/B 14 11 11 11 11 11 | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | ≤24V | A | 14 |
| | 48V | A | 14 |
| | 75V | A | 8 |
| | 110V | Α | 8 |



| | 220V | Α | 1 |
|--|----------|-------|------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| | | | _ |
| 150 | 220V | A | |
| 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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| · | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | Α | 4 |
| | 110V | A | 3 |
| | | | |
| 150 DOS DOS WILLIAM WAS A STATE OF THE STATE | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 9 |
| | 48V | Α | 9 |
| | 75V | Α | 5 |
| | 110V | Α | 4 |
| | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | A | _ |
| | 75V | A | |
| | 110V | | _ |
| | | A | _ |
| 01 11 11 11 11 11 11 11 11 11 11 11 11 1 | 220V | A | |
| 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) | 030 V | mΩ | 10 |
| | | 11177 | 10 |
| Power dissipation per pole (average value) | 1.1 | 147 | 0.0 |
| | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| 2 ··· ·· ·· · · · · · · · · · · · · · · | min | Nm | 0.8 |
| | max | Nm | 1 |
| | | | |
| | min | lbin | 9 |
| | | | |



| | | max | lbin | 9 |
|---|--|---|--------------------------------------|--|
| _ | 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 | | | |
| | Tionible militinediated opade lag coniductor cocilen | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | max | | IP20 when |
| Power terminal prote | ection according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | Fiebeni, milou |
| Operating position | | | | |
| Cporaming position | | normal | | Vertical plan |
| | | allowable | | ±30° |
| | | allowable | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | α | 185 |
| Conductor section | | | g | 100 |
| Conductor section | ANAIC/learnil and destant and attitude | | | |
| | AWG/kcmil conductor section | | | 40 |
| A Planton of the Color | and the second | max | | 12 |
| Auxiliary contact cha | racteristics | | ^ | 4.0 |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 d | - | | | A600 - Q600 |
| Operating current AC | 215 | | | |
| | | 230V | Α | 3 |
| | | 400V | Α | 1.9 |
| | | 500V | Α | 1.4 |
| | 112 | | | |
| Operating current D0 | · · - | | | |
| Operating current D(| | 110V | Α | 2.9 |
| | | 110V | Α | 2.9 |
| | | 110V 24V | A A | 2.9 |
| | | | | |
| | | 24V 48V | A A | 2.9 1.4 |
| | | 24V 48V 60V | A A A | 2.9 1.4 1.2 |
| | | 24V 48V 60V 110V | A A A | 2.9 1.4 1.2 0.6 |
| | | 24V 48V 60V 110V 125V | A A A A | 2.9 1.4 1.2 0.6 0.55 |
| | | 24V 48V 60V 110V 125V 220V | A A A A | 2.9 1.4 1.2 0.6 0.55 0.3 |
| Operating current DO | | 24V 48V 60V 110V 125V | A A A A | 2.9 1.4 1.2 0.6 0.55 |
| Operating current DO | | 24V 48V 60V 110V 125V 220V | A A A A A | 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current DO Operations Mechanical life | | 24V 48V 60V 110V 125V 220V | A A A A A A cycles | 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current DO Operations Mechanical life Electrical life | | 24V 48V 60V 110V 125V 220V | A A A A A | 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current DO Operations Mechanical life Electrical life Safety related data | 213 | 24V 48V 60V 110V 125V 220V | A A A A A A cycles | 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operating current DO Operations Mechanical life Electrical life Safety related data | | 24V 48V 60V 110V 125V 220V 600V | A A A A A A cycles | 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 |
| Operating current DO Operations Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 2.9 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 | 24V 48V 60V 110V 125V 220V 600V | A A A A A A cycles | 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Mirror contats accord | 10d according to EN/ISO 13489-1 | 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000 yes |
| Operations Mechanical life Electrical life Safety related data Performance level B | 10d according to EN/ISO 13489-1 | 24V 48V 60V 110V 125V 220V 600V | A A A A A A Cycles cycles | 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |

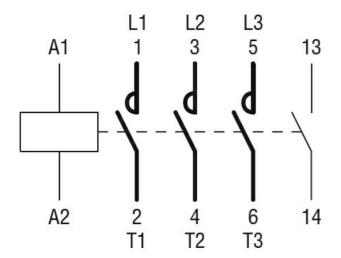




| Rated AC voltage at 60 |)Hz | | | V | 220 |
|--|-----------------------|-----------------------|---------------------------------|----------------|--|
| AC operating voltage | | | | | |
| | of 60Hz coil power | | | | |
| | | pick-up | | 0/11 | |
| | | | min | %Us | 75 |
| | | duam aut | max | %Us | 115 |
| | | drop-out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consu | mption at 20°C | | max | 7003 | |
| to average con conca | of 50/60Hz coil pov | wered at 50Hz | | | |
| | 0. 00,001.12 00.11 po | 110104 4t 00112 | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil pov | wered at 60Hz | <u> </u> | | |
| | · | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil power | ed at 60Hz | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| Dissipation at holding ≤ | ≤20°C 50Hz | | | W | 0.95 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us co | | | | | |
| | in AC | Observe NO | | | |
| | | Closing NO | min | m .o | 12 |
| | | | min | ms | 21 |
| | | Opening NO | max | ms | 21 |
| | | Opening IVO | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | | | . • |
| | | 5.55g | 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 | | | 0 |
| | | Opening NO | min | ms | 2 |
| | | , - | | ms ms | 2 3 |
| | | Opening NO Closing NC | min max | ms | 3 |
| | | , - | min max min | ms ms | 3 |
| | | Closing NC | min max | ms | 3 |
| | | , - | min max min max | ms ms ms | 3 3 5 |
| | | Closing NC | min max min max min | ms ms ms | 3511 |
| JL technical data | | Closing NC | min max min max | ms ms ms | 3 3 5 |
| JL technical data Full-load current (FLA) | for three-phase AC | Closing NC Opening NC | min max min max min | ms ms ms | 3511 |
| JL technical data Full-load current (FLA) | for three-phase AC | Closing NC Opening NC | min max min max min | ms ms ms | 3511 |

| Yielded mechanical p | performance | | | |
|--------------------------------|---------------------------------|-------------------------------------|---------|----------------------|
| • | for single-phase AC motor | | | |
| | 3 1 | 110/120V | HP | 0.3 |
| | | 230V | HP | 1 |
| | for three-phase AC motor | 2001 | | <u>'</u> |
| | ioi tillee-pilase AC motol | 200/208V | HP | 1.5 |
| | | | | |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | | | |
| | Contactor | | | |
| | | AC current | Α | 16 |
| Short-circuit protection | on fuse, 600V | | | |
| • | High fault | | | |
| | g | Short circuit current | kA | 100 |
| | | Fuse rating | A | 30 |
| | | Fuse class | ^ | J |
| | Cton doud foult | i use class | | J |
| | Standard fault | Ol and allow the amount | | _ |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| | iliary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| Temperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | +70 |
| | Storage temperature | | | |
| | Ctorago tomporataro | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | IIIax | | |
| | | | m | 3000 |
| Resistance & Protect | tion | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 4.4 (0.17") (0.17") (0.17" | (2.24") | 44 (1.73") ○ ○ ○ ③ ③ ③ ⑤ ⑥ | 37 | 57 |
| ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ | (1.37") | 3.2 (0.12°) 3.2 (0.12°) | (2.28") | RF9 |
| (0.33") 8.5 (0.33") | | (1.73") | | 89.2 (3.51") (0.3 |
| Wiring diagrams | | | | |

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 220VAC, 1NO 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







| Product designation Product type designation | | | Power contactor BG06 |
|---|--------------------|--------|-------------------------|
| Contact characteristics | | | БСОО |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | | |
| operation in equation | 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 | Α | 4 |
| | 110V | A | 3 |
| 150 | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | 10.437 | • | 4.0 |
| | ≤24V | A | 12 |
| | 48V | A | 11 |
| | 75V | A | 7 |
| | 110V 220V | A | 6 |
| IEC may current le in DC1 with L/B < 1mg with 2 notes in series | 22U V | A | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | ≤24V | ٨ | 1.1 |
| | ≤24V 48V | A | 14 |
| | 48 V 75 V | A | 14 8 |
| | 75V 110V | A A | 8 8 |
| | 1100 | ^ | 5 |





| | 220V | Α | 1 |
|--|--------------|------|--------------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| 120 max carrent to in 200 200 mar 2/1 = 10mb mar 2 points in control | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | - - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | ZZU V | | _ |
| TEC max current le in DC3-DC3 with L/R \(\) 15ms with 3 poles in series | <241/ | ۸ | 0 |
| | ≤24V 48V | A | 9 |
| | 46 V 75 V | A | 9 |
| | | A | 5 4 |
| | 110V | A | |
| 150 | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | 40.4V. | ^ | |
| | ≤24V | A | _ |
| | 48V | A | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| 01 47 11 11 14 40 (150/51)000 47 4) | 220V | A | _ |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | 0 ((=0) | | |
| | 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) | | | |
| | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| 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 | lbin | 9 |
| | | | |





| | | max | lbin | 9 |
|---|--|---|---|--|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | AMO (14 | | | |
| | AWG/Kcmil | | | 40 |
| | Florible w/e lug conductor coetion | max | | 12 |
| | Flexible w/o lug conductor section | min | mm² | 0.75 |
| | | max | mm² | 0.75 2.5 |
| | Flexible c/w lug conductor section | Παλ | 111111 | 2.3 |
| | r lexible 6/w lug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | | 2.0 |
| | r ionibio mini modiatos opaso lag consusto costion | 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 | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail |
| | | | | 35mm |
| Weight | | | g | 178 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | | | |
| Thermal current Ith | | | Α | 10 |
| | | | | |
| IEC/EN 60947-5-1 de | | | | A600 - Q600 |
| | | 2001 | | A600 - Q600 |
| IEC/EN 60947-5-1 de | | 230V | A | A600 - Q600 3 |
| IEC/EN 60947-5-1 de | | 400V | A A | A600 - Q600 3 1.9 |
| IEC/EN 60947-5-1 de Operating current AC | 15 | | A | A600 - Q600 3 |
| IEC/EN 60947-5-1 de | 15 | 400V 500V | A A A | A600 - Q600 3 1.9 1.4 |
| Operating current DC | 15 | 400V | A A | A600 - Q600 3 1.9 |
| IEC/EN 60947-5-1 de Operating current AC | 15 | 400V 500V 110V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 15 | 400V 500V 110V 24V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 15 | 400V 500V 110V 24V 48V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 |
| Operating current DC | 15 | 400V 500V 110V 24V 48V 60V | A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 |
| Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V | A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 |
| Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V | 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 |
| Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 |
| Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V | 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 |
| 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 | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 |
| Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| Operating current DC Operations Mechanical life | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 Cycles | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 |
| 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 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 |
| Operating current DC Operations Mechanical life Electrical life Safety related data | 115 112 113 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | 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 500000 |
| Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B | 115 112 113 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 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 |
| Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B | 112 113 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 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 |





| | : 50/60Hz | | | V | 400 |
|---|---------------------|---|--|-------------------------------|---|
| C operating voltage | | | | | |
| | of 50/60Hz coil pov | pick-up | | | |
| | | рюк-ир | min | %Us | 75 |
| | | | max | %Us | 115 |
| | | drop-out | | | |
| | | | min | %Us | 20 |
| | | | max | %Us | 55 |
| | of 50/60Hz coil pov | | | | |
| | | pick-up | | 0/11 | |
| | | | min | %Us | 80 |
| | | drop out | max | %Us | 115 |
| | | drop-out | min | %Us | 20 |
| | | | max | %Us | 55 |
| C average coil con | sumption at 20°C | | - Indx | 7000 | |
| | of 50/60Hz coil pov | wered at 50Hz | | | |
| | = | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil pov | wered at 60Hz | | | |
| | | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil power | ed at 60Hz | | | |
| | | | in-rush | VA | 30 |
| Ni - i 4i 4 - - | <00°C FOLI- | | holding | VA | 4 |
| Dissipation at holdin Max cycles frequence | | | | W | 0.95 |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | Cyclc3/11 | 3000 |
| verage time for Us | control | | | | |
| J | in AC | | | | |
| | | Closing NO | | | |
| | | | | | |
| | | | min | ms | 12 |
| | | | min max | ms ms | 12 21 |
| | | Opening NO | max | ms | 21 |
| | | Opening NO | max min | ms ms | 9 |
| | | | max | ms | 21 |
| | | Opening NO Closing NC | max min max | ms ms ms | 21918 |
| | | | max min max min | ms ms ms | 2191817 |
| | | Closing NC | max min max | ms ms ms | 21918 |
| | | | max min max min max | ms ms ms ms | 219181726 |
| | | Closing NC | max min max min max min | ms ms ms ms | 2191817267 |
| | in DC | Closing NC | max min max min max | ms ms ms ms | 219181726 |
| | in DC | Closing NC | max min max min max min | ms ms ms ms | 2191817267 |
| | in DC | Closing NC Opening NC | max min max min max min | ms ms ms ms | 21 9 18 17 26 7 17 |
| | in DC | Closing NC Opening NC Closing NO | max min max min max min max | ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in DC | Closing NC Opening NC | max min max min max min max min max | ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in DC | Closing NC Opening NC Closing NO | max min max min max min max min max min max | ms ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 18 25 |
| | in DC | Closing NC Opening NC Closing NO Opening NO | max min max min max min max min max | ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 |
| | in DC | Closing NC Opening NC Closing NO | max min max min max min max min max min max | ms | 21 9 18 17 26 7 17 18 25 2 3 |
| | in DC | Closing NC Opening NC Closing NO Opening NO | max min max min max min max min max min max | ms ms ms ms ms ms ms ms ms | 21 9 18 17 26 7 17 18 25 |



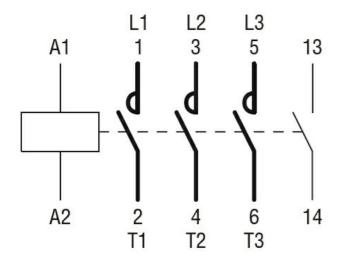


Opening NC

| | Opening M | J | | |
|---|-------------------------------|-----------------------|--------|---|
| | | min | ms | 11 |
| | | max | ms | 17 |
| UL technical data | | max | 1110 | |
| | \ far three rhace AC mater | | | |
| Full-load current (FLA |) for three-phase AC motor | | _ | |
| | | at 480V | Α | 4.8 |
| | | at 600V | Α | 3.9 |
| Yielded mechanical pe | erformance | | | |
| · | for single-phase AC motor | | | |
| | rer emigre prides / te meter | 110/120V | HP | 0.3 |
| | | 230V | HP | |
| | | 230 V | ПР | |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | 0.0,000 | | |
| General USE | 0 1 1 | | | |
| | Contactor | | _ | |
| | | AC current | Α | 16 |
| Short-circuit protection | n fuse, 600V | | | |
| | High fault | | | |
| | 3 | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | <u> </u> | | |
| | _ _ | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of auxili | iary 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 altituda | | IIIax | | |
| Max altitude | | | m | 3000 |
| Resistance & Protecti | on | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 44 44 | - | 13.44 | | |
| 4.4 (1.73") (0.17") | 57 | (1.73") (9.5°) | | 57 ———————————————————————————————————— |
| (0.17") | (2.24") | 0 0 0 | 97 | .24) |
| $\bullet \bullet \bullet \bullet \bullet$ | b | | | |
| | (1.97") | (1.97) | (2.28" | |
| ************************************** | (1) | | | |
| <u>0 H H 0</u> 0 | | 26. O R R O O C | | |
| 0 - 4 - 4 - 4 | - 34.9 - | 34.9 | - | DE 0 |
| (0.33") 8.5 (0.38") | (1.37") | (0.12) |) | RF9 |
| (0.33") | | | 1 | 7.6 |
| 8.5 (0.33") | | (1.73") | _ | 89.2 (3.51") (0.30") |
| Wiring diagrams | | (1.70) | | (0.0.) |
| willing diagrams | | | | |



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 400VAC, 1NO 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







| Product designation | | | Power contactor BG06 |
|---|--------------------|-----|-------------------------|
| Product type designation Contact characteristics | | | БСОО |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | 100 | |
| Sporational modulonoy | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | THOX | A | 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 | Α | 4 |
| | 110V | Α | 3 |
| - | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | Α | 12 |
| | 48V | Α | 11 |
| | 75V | Α | 7 |
| | 110V | A | 6 |
| | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | ≤24V | A | 14 |
| | 48V | A | 14 |
| | 75V | A | 8 |
| | 110V | Α | 8 |





| | 220V | Α | 1 |
|--|----------|-------|------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| | | | _ |
| 150 | 220V | A | |
| 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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| · | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | Α | 4 |
| | 110V | A | 3 |
| | | | |
| 150 DOS DOS WILLIAM WAS A STATE OF THE STATE | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 9 |
| | 48V | Α | 9 |
| | 75V | Α | 5 |
| | 110V | Α | 4 |
| | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | A | _ |
| | 75V | A | |
| | 110V | | _ |
| | | A | _ |
| 01 11 11 11 11 11 11 11 11 11 11 11 11 1 | 220V | A | |
| 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) | 030 V | mΩ | 10 |
| | | 11177 | 10 |
| Power dissipation per pole (average value) | 1.1 | 147 | 0.0 |
| | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| 2 ··· ·· ·· · · · · · · · · · · · · · · | min | Nm | 0.8 |
| | max | Nm | 1 |
| | | | |
| | min | lbin | 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 |
| | Florible alvebra and details a still | max | mm² | 2.5 |
| | Flexible c/w lug conductor section | min | na na 2 | 1 E |
| | | min | mm² mm² | 1.5 2.5 |
| | Flexible with insulated spade lug conductor section | max | 111111 | 2.0 |
| | r lexible with insulated space lug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | max | | IP20 when |
| Power terminal prote | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Fixing | | | | Screw / DIN rail |
| | | | | 35mm |
| Weight | | | g | 180 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| A Was a sector to the | and the state of | max | | 12 |
| Auxiliary contact char | acteristics | | ۸ | 10 |
| | | | | |
| Thermal current Ith | ocionation | | Α | 10 4600 - 0600 |
| IEC/EN 60947-5-1 de | - | | A | A600 - Q600 |
| | - | 2301/ | | A600 - Q600 |
| IEC/EN 60947-5-1 de | - | 230V 400V | A | A600 - Q600 3 |
| IEC/EN 60947-5-1 de | - | 400V | A A | A600 - Q600 3 1.9 |
| IEC/EN 60947-5-1 de Operating current AC | 15 | | A | A600 - Q600 3 |
| IEC/EN 60947-5-1 de | 15 | 400V | A A | A600 - Q600 3 1.9 1.4 |
| Operating current AC | 15 | 400V 500V | A A A | A600 - Q600 3 1.9 |
| IEC/EN 60947-5-1 de Operating current AC | 15 | 400V 500V | A A A | A600 - Q600 3 1.9 1.4 |
| Operating current AC | 15 | 400V 500V 110V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current AC | 15 | 400V 500V 110V 24V 48V 60V | A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 |
| Operating current AC | 15 | 400V 500V 110V 24V 48V 60V 110V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 |
| Operating current AC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V | 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 |
| Operating current AC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| Operating current DC Operating current DC Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V | 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 |
| Operating current DC | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| Operating current DC Operations Mechanical life | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| Operating current DC Operations Mechanical life Electrical life | 15 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| Operating current DC Operations Mechanical life Electrical life Safety related data | 212 | 400V 500V 110V 24V 48V 60V 110V 125V 220V | 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 |
| 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 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 |
| Operating current DC Operations Mechanical life Electrical life Safety related data | 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 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 |
| Operating current DC Operations Mechanical life Electrical life Safety related data Performance level BC | 115 113 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 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 |
| Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level BC Mirror contats accord | 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 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 yes |
| Operating current DC Operations Mechanical life Electrical life Safety related data Performance level BC | 115 113 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 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 |

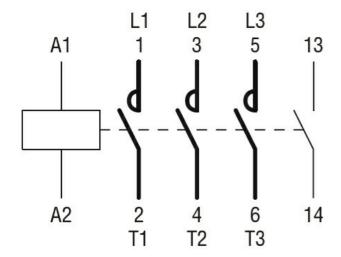




| Rated AC voltage at | 60Hz | | V | 460 |
|---|---------------------------------|--------------------|------------|-----------|
| AC operating voltage | | | | |
| | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | 0/116 | 75 |
| | | min max | %Us %Us | 75 115 |
| | drop-out | IIIdX | 7005 | 115 |
| | drop out | min | %Us | 20 |
| | | max | %Us | 55 |
| AC average coil cons | sumption at 20°C | | | |
| Ū | of 50/60Hz coil powered at 50Hz | | | |
| | | in-rush | VA | 30 |
| | | holding | VA | 4 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | | in-rush | VA | 25 |
| | | holding | VA | 3 |
| | of 60Hz coil powered at 60Hz | in-rush | ١/٨ | 20 |
| | | in-rush holding | VA VA | 30 4 |
| Dissipation at holding | 1 < 20°C 50Hz | Holding | W | 0.95 |
| Max cycles frequenc | | | VV | 0.95 |
| 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 |
| | Clasing NC | max | ms | 18 |
| | Closing NC | min | ms | 17 |
| | | max | ms | 26 |
| | Opening NC | max | 1113 | 20 |
| | oponing ito | min | ms | 7 |
| | | max | ms | 17 |
| | in DC | | | |
| | Closing NO | | | |
| | | min | ms | 18 |
| | | max | ms | 25 |
| | Opening NO | | | |
| | | min | ms | 2 |
| | Closing NO | max | ms | 3 |
| | Closing NC | min | me | 3 |
| | | max | ms ms | 5 |
| | Opening NC | IIIdX | 1110 | 5 |
| | Opening 110 | min | ms | 11 |
| | | max | ms | 17 |
| | | | | |
| UL technical data | | | | |
| | A) for three-phase AC motor | | | |
| UL technical data Full-load current (FL/ | A) for three-phase AC motor | at 480V | Α | 4.8 |

| Yielded mechanical | l performance | | | |
|---------------------------------------|---|--|---------|-----------------------|
| | for single-phase AC motor | | | |
| | | 110/120V | HP | 0.3 |
| | | 230V | HP | 1 |
| | for three-phase AC motor | | | |
| | на развите пост | 200/208V | HP | 1.5 |
| | | 220/230V | HP | 2 |
| | | 460/480V | HP | 3 |
| | | 575/600V | HP | 3 |
| General USE | | 313/000 V | - ' ' ' | <u> </u> |
| Serieral OSL | Contactor | | | |
| | Contactor | A.C. a.uma.at | ۸ | 4.0 |
| 01 - 1 - 1 - 1 1 | W (000)/ | AC current | A | 16 |
| Short-circuit protect | | | | |
| | High fault | - | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of au | ixiliary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| Temperature | | | | |
| • | Operating temperature | | | |
| | 3 1 1 1 1 | min | °C | -50 |
| | | max | °C | +70 |
| | Storage temperature | max | | |
| | Otorage temperature | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | IIIdX | | 3000 |
| | ation. | | m | 3000 |
| Resistance & Prote | ection | | | 0 |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 4.4 (0.17") (0.1 | 4 (7") 8.6 (2.24") | (1.73") (1.73") (1.73") | (2 % | 57 |
| ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● | 05 08 108 108 108 108 108 108 108 | 3.2 (1.37") 3.2 (0.12) | (2.28") | RF9 -7.6 |
| ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ | | 94.2 (3.71") (3.71") (⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ | | RF9 7.6 89.2 (0.30 |

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 460VAC, 1NO 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







Product designation Power contactor Product type designation **BG06** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 16 Α 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) 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 Α 4 110V 3 Α 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 12 48V Α 11 75V 7 Α 110V Α 6 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 14 14 48V Α 75V Α 8 110V 8





| | 220V | Α | 1 |
|--|----------|-------|------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| | | | _ |
| 150 | 220V | A | |
| 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 | Α | 1 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| · | ≤24V | Α | 7 |
| | 48V | Α | 7 |
| | 75V | Α | 4 |
| | 110V | A | 3 |
| | | | |
| 150 DOS DOS WILLIAM WAS A STATE OF THE STATE | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 9 |
| | 48V | Α | 9 |
| | 75V | Α | 5 |
| | 110V | Α | 4 |
| | 220V | Α | 0,5 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | A | |
| | 110V | | _ |
| | | A | _ |
| 01 11 11 11 11 11 11 11 11 11 11 11 11 1 | 220V | A | |
| 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) | 030 V | mΩ | 10 |
| | | 11177 | 10 |
| Power dissipation per pole (average value) | 1.1 | 147 | 0.0 |
| | Ith | W | 2.6 |
| | AC3 | W | 0.36 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| 2 ··· ·· ·· · · · · · · · · · · · · · · | min | Nm | 0.8 |
| | max | Nm | 1 |
| | | | |
| | min | lbin | 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 | | | |
| | S | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | | |
| | r ionalis mar modiated opade lag confederal costien | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | max | | IP20 when |
| Power terminal prote | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | Ficherit Milod |
| Operating position | | | | |
| Sporating position | | normal | | Vertical plan |
| | | allowable | | ±30° |
| | | anowable | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | α | 182 |
| Conductor section | | | g | 102 |
| Conductor section | AVA/O// | | | |
| | AWG/kcmil conductor section | | | 40 |
| A | and the state of | max | | 12 |
| Auxiliary contact char | acteristics | | ^ | 4.0 |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | - | | | A600 - Q600 |
| Operating current AC | 15 | | | |
| | | 230V | Α | 3 |
| | | 400V | Α | 1.9 |
| | | 500V | Α | 1.4 |
| Operating current DC | 12 | | | |
| | | 110V | Α | 2.9 |
| Operating current DC | 213 | | | |
| | | 0.41.7 | Α | 2.9 |
| | | 24V | | |
| | | 24 V 48 V | Α | 1.4 |
| | | | | 1.4 1.2 |
| | | 48V | Α | |
| | | 48V 60V | A A | 1.2 0.6 |
| | | 48V 60V 110V | A A A | 1.2 0.6 0.55 |
| | | 48V 60V 110V 125V 220V | A A A | 1.2 0.6 0.55 0.3 |
| Operations | | 48V 60V 110V 125V | A A A A | 1.2 0.6 0.55 |
| ` | | 48V 60V 110V 125V 220V | A A A A | 1.2 0.6 0.55 0.3 0.1 |
| Mechanical life | | 48V 60V 110V 125V 220V | A A A A A cycles | 1.2 0.6 0.55 0.3 0.1 |
| Mechanical life Electrical life | | 48V 60V 110V 125V 220V | A A A A | 1.2 0.6 0.55 0.3 0.1 |
| Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V | A A A A A cycles | 1.2 0.6 0.55 0.3 0.1 |
| 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 | 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Mechanical life Electrical life Safety related data | - | 48V 60V 110V 125V 220V 600V | A A A A A Cycles cycles | 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Mechanical life Electrical life Safety related data Performance level B | me | 48V 60V 110V 125V 220V 600V | A A A A A Cycles | 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 200000000 |
| | - | 48V 60V 110V 125V 220V 600V | A A A A A Cycles cycles | 1.2 0.6 0.55 0.3 0.1 20000000 500000 |



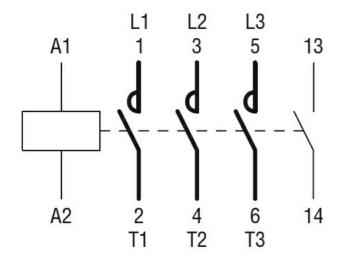


| Rated AC voltage at 60 | 0Hz | | | V | 575 |
|----------------------------|------------------------------|--------------|----------|------------|--------|
| AC operating voltage | (0 0 1 1 1 1 | | | | |
| | of 60Hz coil powered | | | | |
| | | pick-up | min | 0/116 | 75 |
| | | | min | %Us %Us | 75 |
| | | drop-out | max | %US | 115 |
| | | drop-out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consu | ımption at 20°C | | max | 7000 | |
| 710 avorago con conce | of 50/60Hz coil powe | red at 50Hz | | | |
| | 01 00/001 12 0011 powe | 100 at 00112 | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil powe | red at 60Hz | | | |
| | 0. 00, 00. <u>12</u> 00 po o | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil powered | at 60Hz | | | |
| | r | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| Dissipation at holding : | ≤20°C 50Hz | | <u> </u> | W | 0.95 |
| 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 | 01 1 110 | | | |
| | | Closing NO | | | 40 |
| | | | min | ms | 18 |
| | | Openie - NO | max | ms | 25 |
| | | Opening NO | ma: | mc | 2 |
| | | | min | ms ms | 2 |
| | | Closing NC | max | ms | 3 |
| | | Closing NC | min | me | 3 |
| | | | | ms ms | 3 5 |
| | | Opening NC | max | ms | 5 |
| | | Opening NO | min | ms | 11 |
| | | | max | ms | 17 |
| UL technical data | | | IIIdX | 1113 | 17 |
| | for three-phase AC m | otor | | | |
| i ali load culletit (i LA) | , ioi uiioe-piiase AO III | 0.01 | at 480V | Α | 4.8 |
| | | | at 600V | A | 3.9 |
| | | | at 000 v | , , | |



| Violded messbergied morteruses | | | | |
|--|---------------------------------|---|------------|-----------------------|
| 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. | FF9 7.6 (0.30 |
| 8.5 (0.33°) Wiring diagrams | | (1.73") | | 89.2 (3.51") (0.30 |

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 575VAC, 1NO 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