





| Product designation | | | Power contactor |
|---|--------------------|-----|-----------------|
| Product type designation | | | BG09 |
| Contact characteristics | | | |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | | |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | Α | 20 |
| Operational current le | | | |
| | AC-1 (≤40°C) | Α | 20 |
| | AC-1 (≤55°C) | Α | 18 |
| | AC-1 (≤70°C) | Α | 15 |
| | AC-3 (≤440V ≤55°C) | Α | 9 |
| | AC-4 (400V) | Α | 4 |
| Rated operational power AC-3 (T≤55°C) | | | |
| | 230V | kW | 2.2 |
| | 400V | kW | 4 |
| | 415V | kW | 4.3 |
| | 440V | kW | 4.5 |
| | 500V | kW | 5 |
| | 690V | kW | 5 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 8 |
| | 400V | kW | 14 |
| | 500V | kW | 16 |
| | 690V | kW | 22 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| | ≤24V | Α | 12 |
| | 48V | Α | 10 |
| | 75V | Α | 4 |
| | 110V | Α | 3 |
| 9 | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | ≤24V | Α | 15 |
| | 48V | Α | 14 |
| | 75V | Α | 9 |
| | 110V | Α | 8 |
| | 220V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | Α | 10 |
| | | | |





| | 220V | Α | 2 |
|---|----------|-------|------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | Α | 10 |
| | 220V | Α | 2 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | 2201 | | _ |
| 120 max danon lo in 200 200 mar en e 10mo mar 1 poloc in conco | ≤24V | Α | 7 |
| | 48V | A | 6 |
| | 75V | | 2 |
| | | A | |
| | 110V | A | 1 |
| | 220V | A | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | ≤24V | Α | 8 |
| | 48V | Α | 8 |
| | 75V | Α | 5 |
| | 110V | Α | 4 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| ' | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | A | 6 |
| | 110V | A | 5 |
| | 220V | | |
| IFC many asymptotic in DC2 DC5 with L/D < 45 may with 4 males in agrica | 220 V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | -0.4V | Δ. | 4.0 |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | , | Α | 92 |
| Breaking capacity at voltage | | | |
| 5 1 m 3 m - m 9 | 440V | Α | 72 |
| | 500V | A | 72 |
| | 690V | A | 72 |
| Resistance per pole (average value) | 090 v | mΩ | 10 |
| | | 11122 | 10 |
| Power dissipation per pole (average value) | 147 | 147 | 4 |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | 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 |
| | 111111 | | • |
| | | | |





| | | max | Ibin | 9 |
|---|---|---|---|--|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | ANA 0 11 | | | |
| | AWG/Kcmil | | | 40 |
| | Flavible w/s live acadustor castion | 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 |
| | Trexible 6/W rug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | max | | 2.0 |
| | Tionible Will illediated opade lag confederal coolien | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | 1' | | | IP20 when |
| Power terminal protec | 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 | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | | | |
| | | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | • | | A | 10 A600 - Q600 |
| | • | | | 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 | 12 | 400V | A A | A600 - Q600 3 1.9 |
| IEC/EN 60947-5-1 de Operating current AC | 12 | 400V 500V 110V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 12 | 400V 500V 110V 24V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 12 | 400V 500V 110V 24V 48V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 |
| Operating current DC | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 |
| Operating current DC Operating current DC Operating current DC | 12 | 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 |
| Operating current DC | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 | 12 13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A 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 B1 | 12 13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A 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 B1 | 12 13 Od 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 |





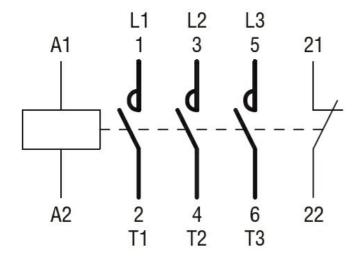
| Rated AC voltage at | | | | V | 24 |
|-----------------------|---------------------------|--|---|---|---|
| C operating voltage | | | | | |
| | of 50/60Hz coil po | | | | |
| | | pick-up | min | %Us | 75 |
| | | | max | %Us %Us | 75 115 |
| | | drop-out | max | 7003 | 110 |
| | | а. ор оа. | min | %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 | 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 | NC | | |
|--------------------------|------------------------------------|------------------------|---------|-------------------------|
| | | min | ms | 11 |
| | | max | ms | 17 |
| | | Шах | 1115 | 17 |
| UL technical data | | | | |
| Full-load current (FLA |) for three-phase AC motor | | | |
| | ,, p | at 480V | ۸ | 7.6 |
| | | | Α | 7.6 |
| | | at 600V | Α | 6.1 |
| Yielded mechanical p | erformance | | | <u> </u> |
| | | | | |
| | for single-phase AC motor | | | |
| | | 110/120V | HP | 0.5 |
| | | 230V | HP | 1.5 |
| | for these above AO mater | 2001 | • • • • | 1.0 |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 2 |
| | | 220/230V | HP | 3 |
| | | | | |
| | | 460/480V | HP | 5 |
| | | 575/600V | HP | 5 |
| General USE | | | | |
| 20110101 00L | Contactor | | | |
| | Contactor | | | |
| | | AC current | Α | 20 |
| Short-circuit protection | n fuse 600V | | | |
| eriori eriodii proteetie | | | | |
| | High fault | | | |
| | | Short circuit current | kΑ | 100 |
| | | Fuse rating | Α | 30 |
| | | | | |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | | | |
| | | Fuse rating | Α | 30 |
| Contact rating of auxil | 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 altitude | | | m | 3000 |
| Resistance & Protecti | ion | | | |
| | | | | 2 |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 44 44 | | | | |
| (1.73") 4.4 (0.17") | 57 | (1.73") (9.6°) | - | 57 ——— |
| (0.17") | (2.24") | (1.73) | (2 | 57 |
| 4 | (2.24) | | 37 | |
| | | | 0 | |
| | (1.97") - 58 - 58 (2.28") | 1.97 | (2.28") | |
| | (1.97 (2.28 | | 0 | |
| *** | l d | | 6 | |
| ф <u>в</u> в ф | 2 g. Li | | | |
| (0.33") | 34.9 (1.37") | 3.2 (1.37") 3.2 (0.12" |) - | RF9 |
| | (1.37) | (0.12 | , | |
| (0.33") | | | - | 7.6 |
| 8.5 | | 44 | _ | 89.2 (3.51") (0.30") |
| (0.33") | | (1.73") | | (0.01) |
| Wiring 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 **BG09** 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 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 12 48V Α 10 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 15 48V Α 14 75V Α 9 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 16 48V Α 16 75V Α 10 110V 10





| | 220V | Α | 2 |
|---|----------|-------|------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | Α | 10 |
| | 220V | Α | 2 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | 2201 | | _ |
| 120 max danon lo in 200 200 mar en e 10mo mar 1 poloc in conco | ≤24V | Α | 7 |
| | 48V | A | 6 |
| | 75V | | 2 |
| | | A | |
| | 110V | A | 1 |
| | 220V | A | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | ≤24V | Α | 8 |
| | 48V | Α | 8 |
| | 75V | Α | 5 |
| | 110V | Α | 4 |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| ' | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | A | 6 |
| | 110V | A | 5 |
| | 220V | | |
| IFC many asymptotic in DC2 DC5 with L/D < 45 may with 4 males in agrica | 220 V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | -0.4V | Δ. | 4.0 |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | , | Α | 92 |
| Breaking capacity at voltage | | | |
| 5 1 m 3 m - m 9 | 440V | Α | 72 |
| | 500V | A | 72 |
| | 690V | A | 72 |
| Resistance per pole (average value) | 090 v | mΩ | 10 |
| | | 11122 | 10 |
| Power dissipation per pole (average value) | 147 | 147 | 4 |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | 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 |
| | 111111 | | • |
| | | | |





| | | max | Ibin | 9 |
|---|---|---|---|--|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | ANA 0 11 | | | |
| | AWG/Kcmil | | | 40 |
| | Flavible w/s live acadustor castion | 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 |
| | Trexible 6/W rug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | max | | 2.0 |
| | Tionible Will illediated opade lag confederal coolien | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | 1' | | | IP20 when |
| Power terminal protec | 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 | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | | | |
| | | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | • | | A | 10 A600 - Q600 |
| | • | | | 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 | 12 | 400V | A A | A600 - Q600 3 1.9 |
| IEC/EN 60947-5-1 de Operating current AC | 12 | 400V 500V 110V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 12 | 400V 500V 110V 24V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 12 | 400V 500V 110V 24V 48V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 |
| Operating current DC | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 |
| Operating current DC Operating current DC Operating current DC | 12 | 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 |
| Operating current DC | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 | 12 13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A 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 B1 | 12 13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A 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 B1 | 12 13 Od 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 |





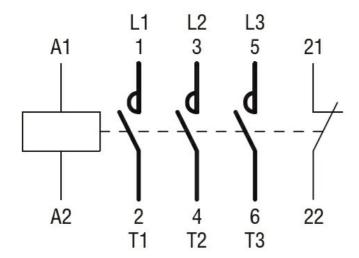
| Rated AC voltage at | | | | V | 48 |
|-----------------------|--------------------|--|---|----------------------------------|---|
| AC operating voltage | | = 0.1 | | | |
| | of 50/60Hz coil po | | | | |
| | | pick-up | min | %Us | 75 |
| | | | max | %Us | 75 115 |
| | | drop-out | max | 7003 | 110 |
| | | 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 | • | | |
|--------------------------|-------------------------------|--------------------------------------|--------|---|
| | | min | ms | 11 |
| | | max | ms | 17 |
| UL technical data | | 2.7 | | |
| |) for three-phase AC motor | | | |
| i dii-load carrent (i LA |) for three-phase AC motor | at 400\/ | ٨ | 7.0 |
| | | at 480V | Α | 7.6 |
| | | at 600V | Α | 6.1 |
| Yielded mechanical pe | erformance | | | |
| | for single-phase AC motor | | | |
| | 3 1 | 110/120V | HP | 0.5 |
| | | 230V | HP | 1.5 |
| | for three phase AC mater | 230 V | 111 | 1.0 |
| | for three-phase AC motor | / | | |
| | | 200/208V | HP | 2 |
| | | 220/230V | HP | 3 |
| | | 460/480V | HP | 5 |
| | | 575/600V | HP | 5 |
| General USE | | | | |
| Conordi COL | Contactor | | | |
| | Contactor | ^^ | Α. | 00 |
| | | AC current | A | 20 |
| Short-circuit protection | n fuse, 600V | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | Fuse class | , , | |
| | 0. 1.16.16 | ruse 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 | | | | |
| remperature | 0 | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | +70 |
| | Storage temperature | | | |
| | | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | max | | 3000 |
| | | | m | 3000 |
| Resistance & Protecti | on | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 44 4.4 | | 11 00 6 | | |
| 4.4 (0.17") | 57 | (1.73") O ^M , (6) | T- (0) | 57 ———————————————————————————————————— |
| (0.17") | (2.24") | 0 0 0 | 9 (2. | 24) |
| | | | | |
| | (1.97") (2.28") | 066 | (2.28" | |
| | (1.97 (2.28 (2.28 | | 9 | |
| | 6 | (3.71) (3.74) (3.74) (3.74) | | |
| | - 34.9 - | 34.9 - 3.2 | - | |
| (0.33") 8.5 (0.38") | (1.37") | (1.37") (0.12" |) | RF9 |
| (0.33") | | F. | L | 76 |
| 8.5 | | 44 | _ | 89.2 (3.51") (0.30") |
| (0.33") | | (1.73") | | (3.31) |
| Wiring 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 **BG09** 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 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 12 48V Α 10 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 15 48V Α 14 75V Α 9 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 16 48V Α 16 75V Α 10 110V 10





| | 220V | Α | 2 |
|--|---------------|-------|--------------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | A | 10 |
| | 220V | Α | 2 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | 220 V | | |
| TEC max current le in DC3-DC3 with L/K \(\) Toms with 1 poles in series | 2041 / | ۸ | 7 |
| | ≤24V | A | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | Α | 5 |
| | 110V | A | 4 |
| | 220V | A | - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | 22U V | | |
| TEO MAX CUITERLIE III DOS-DOS WILLI L/R ≥ TOMS WILL 3 POIES IN SERIES | -04V | ^ | 40 |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | A | 5 |
| | 220V | A | 0,8 |
| Chart time allowable assurant for 40s (IEC/ENCO047.4) | 220 V | | |
| Short-time allowable current for 10s (IEC/EN60947-1) | | A | 96 |
| Protection fuse | - (I-a) | _ | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| 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) | | 11122 | 10 |
| r uwei uissipatiun pei puie (average value) | I til- | 14/ | 4 |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| 9 9 1 | min | Nm | 0.8 |
| | max | Nm | 1 |
| | | | |
| | min | lbin | 9 |
| | | | |





| | | max | Ibin | 9 |
|---|---|---|---|--|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | ANA 0 11 | | | |
| | AWG/Kcmil | | | 40 |
| | Flavible w/s live acadustor castion | 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 |
| | Trexible 6/W rug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | max | | 2.0 |
| | Tionible Will illediated opade lag confederal coolien | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | 1' | | | IP20 when |
| Power terminal protec | 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 | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | | | |
| | | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | • | | A | 10 A600 - Q600 |
| | • | | | 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 | 12 | 400V | A A | A600 - Q600 3 1.9 |
| IEC/EN 60947-5-1 de Operating current AC | 12 | 400V 500V 110V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 12 | 400V 500V 110V 24V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 12 | 400V 500V 110V 24V 48V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 |
| Operating current DC | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 |
| Operating current DC Operating current DC Operating current DC | 12 | 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 |
| Operating current DC | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 | 12 13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A 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 B1 | 12 13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A 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 B1 | 12 13 Od 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 | | | | 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 |



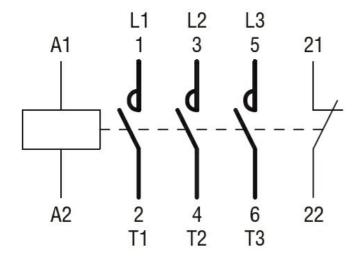


Opening NC

| | Opening N | C | | |
|---|------------------------------|---|---------|---------------------------------|
| | | min | ms | 11 |
| | | max | ms | 17 |
| III. to obside a dete | | max | 1110 | 17 |
| UL technical data | | | | |
| Full-load current (FLA) | for three-phase AC motor | | | |
| | | at 480V | Α | 7.6 |
| | | at 600V | Α | 6.1 |
| Yielded mechanical pe | orformance | | | |
| riciaca mechanicai pe | | | | |
| | for single-phase AC motor | | | |
| | | 110/120V | HP | 0.5 |
| | | 230V | HP | 1.5 |
| | for three-phase AC motor | | | |
| | • | 200/208V | HP | 2 |
| | | 220/230V | HP | 3 |
| | | | | |
| | | 460/480V | HP | 5 |
| | | 575/600V | HP | 5 |
| General USE | | | | |
| | Contactor | | | |
| | | AC current | Α | 20 |
| Chart alread and a sector (1) | fue 0001/ | AC current | ^ | ۷ |
| Short-circuit protection | | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | Fuse class | | J |
| | Standard fault | 1 400 01400 | | |
| | Standard fault | Chart singuit summant | L.Λ | _ |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of auxilia | ary contacts according to UL | | | A600 - Q600 |
| Ambient conditions | | | | |
| Temperature | | | | |
| , | Operating temperature | | | |
| | Operating temperature | min | °C | -50 |
| | | | | |
| | | max | °C | +70 |
| | Storage temperature | | | |
| | | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | | m | 3000 |
| Resistance & Protection | nn | | | |
| | 511 | | | 3 |
| Pollution degree | | | | J |
| Dimensions | | | | |
| (1.73") 4.4 (0.17") | 2.0 | (1.73") O ^A 16" | | |
| 4.4 | 57 (2.24") | | (2) | 57 - 24") |
| (0.17") | (2.24") | 0 0 0 | 37 | |
| | | ③ ③ ③ ③ ③ | <u></u> | |
| | (1.97") - 58 - 58") | 500-1 | 2.28 | |
| ⊕ ⊕ ⊕ ⊕ | (1) | | | |
| 0 11 11 0 | | 3.71°1 3.71°1 3.71°1 3.71°1 3.71°1 5.00° | LIFE | |
| | 34.9 — (1.37") | 3.2 - (1.37") 3.2 - (0.12" | - | DE 0 |
| (0.38") | (1.37") | (0.12" |) | RF9 |
| (0.33") | | | - | 7.6 |
| (0.33") | | (173") | - | 89.2 (3.51") -7.6 (0.30") |
| | | (1.73") | | (0.01) |
| Wiring diagrams | | | | |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching







| Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith | min | Nr. V kV | Power contactor BG09 3 690 |
|--|---------|----------------|-------------------------------------|
| Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency | min | V | 3 690 |
| Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency | min | V | 690 |
| Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency | min | V | 690 |
| Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency | min | V | 690 |
| Rated impulse withstand voltage Uimp Operational frequency | min | | |
| Operational frequency | min | | 6 |
| | min | | |
| IEC Conventional free air thermal current Ith | 1111111 | Hz | 25 |
| IEC Conventional free air thermal current Ith | may | Hz | 400 |
| TEC Conventional free air thermal current ith | max | | |
| Operational compatible | | Α | 20 |
| Operational current le | 4000) | | 00 |
| AC-1 (≤4 | | Α | 20 |
| AC-1 (≤§ | • | Α | 18 |
| AC-1 (≤7 | , | Α | 15 |
| AC-3 (≤440V ≤5 | • | Α | 9 |
| AC-4 (4 | 100V) | Α | 4 |
| Rated operational power AC-3 (T≤55°C) | | | |
| | 230V | kW | 2.2 |
| | 400V | kW | 4 |
| | 415V | kW | 4.3 |
| | 440V | kW | 4.5 |
| ! | 500V | kW | 5 |
| | 690V | kW | 5 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 8 |
| | 400V | kW | 14 |
| | 500V | kW | 16 |
| | 690V | kW | 22 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| | ≤24V | Α | 12 |
| | 48V | A | 10 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| | 220V | A | 3 |
| | 220 V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | 40 AV / | | 4.5 |
| | ≤24V | A | 15 |
| | 48V | A | 14 |
| | 75V | A | 9 |
| | 110V | Α | 8 |
| | 220V | Α | _ |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | Α | 10 |





| | 220V | Α | 2 |
|--|---------------|-------|--------------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | Α | 10 |
| | 220V | Α | 2 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | 220 V | | |
| TEC max current le in DC3-DC3 with L/K \(\) Toms with 1 poles in series | 2041 / | ۸ | 7 |
| | ≤24V | A | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | Α | 5 |
| | 110V | A | 4 |
| | 220V | A | - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | 22U V | | |
| TEO MAX CUITERLIE III DOS-DOS WILLI L/R ≥ TOMS WILL 3 POIES IN SERIES | -04V | ^ | 40 |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | A | 5 |
| | 220V | A | 0,8 |
| Chart time allowable assurant for 40s (IEC/ENCO047.4) | 220 V | | |
| Short-time allowable current for 10s (IEC/EN60947-1) | | A | 96 |
| Protection fuse | - (I-a) | _ | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| 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) | | 11122 | 10 |
| r uwei uissipatiun pei puie (average value) | I til- | 14/ | 4 |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| 9 9 1 | 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 at inc | 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 JULIZ | 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 |

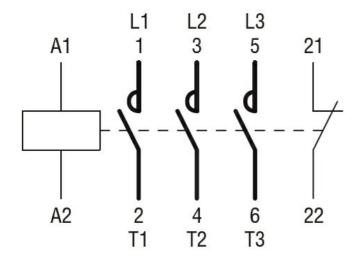


Opening NC

| | Opening M | • | | |
|--------------------------|-------------------------------|--------------------------------------|--------|---|
| | | min | ms | 11 |
| | | max | ms | 17 |
| UL technical data | | | | |
| |) for three-phase AC motor | | | |
| i dii-load carrent (i LA |) for three-phase AC motor | at 400\/ | ٨ | 7.0 |
| | | at 480V | Α | 7.6 |
| | | at 600V | Α | 6.1 |
| Yielded mechanical pe | erformance | | | |
| | for single-phase AC motor | | | |
| | 3 1 | 110/120V | HP | 0.5 |
| | | 230V | HP | 1.5 |
| | for three phase AC mater | 230 V | 111 | 1.0 |
| | for three-phase AC motor | / | | |
| | | 200/208V | HP | 2 |
| | | 220/230V | HP | 3 |
| | | 460/480V | HP | 5 |
| | | 575/600V | HP | 5 |
| General USE | | | | |
| Conordi COL | Contactor | | | |
| | Contactor | ^^ | Α. | 00 |
| | | AC current | A | 20 |
| Short-circuit protection | n fuse, 600V | | | |
| | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | Fuse class | , , | |
| | 0. 1.16.16 | ruse 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 | | | | |
| remperature | 0 | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | +70 |
| | Storage temperature | | | |
| | | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | max | | 3000 |
| | | | m | 3000 |
| Resistance & Protecti | on | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 44 4.4 | | 11 00 6 | | |
| 4.4 (1.73") (0.17") | 57 | (1.73") O ^M , (6) | T- (0) | 57 ———————————————————————————————————— |
| (0.17") | (2.24") | 0 0 0 | 9 (2. | 24) |
| | | | | |
| | (1.97") (2.28") | 066 | (2.28" | |
| | (1.97 (2.28 (2.28 | | 9 | |
| | 6 | (3.71) (3.74) (3.74) (3.74) | | |
| | - 34.9 - | 34.9 - 3.2 | - | |
| (0.33") 8.5 (0.38") | (1.37") | (1.37") (0.12" |) | RF9 |
| (0.33") | | F. | L | 76 |
| 8.5 | | 44 | _ | 89.2 (3.51") (0.30") |
| (0.33") | | (1.73") | | (3.31) |
| Wiring diagrams | | | | |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching







| Product designation Product type designation | | | Power contactor BG09 |
|---|--------------------|--------|-------------------------|
| Contact characteristics | | | |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | | |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | Α | 20 |
| Operational current le | | | |
| | AC-1 (≤40°C) | Α | 20 |
| | AC-1 (≤55°C) | Α | 18 |
| | AC-1 (≤70°C) | Α | 15 |
| | AC-3 (≤440V ≤55°C) | Α | 9 |
| | AC-4 (400V) | Α | 4 |
| Rated operational power AC-3 (T≤55°C) | | | |
| | 230V | kW | 2.2 |
| | 400V | kW | 4 |
| | 415V | kW | 4.3 |
| | 440V | kW | 4.5 |
| | 500V | kW | 5 |
| | 690V | kW | 5 |
| Rated operational power AC-1 (T≤40°C) | | | |
| | 230V | kW | 8 |
| | 400V | kW | 14 |
| | 500V | kW | 16 |
| 150 | 690V | kW | 22 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | 40414 | Δ. | 40 |
| | ≤24V | A | 12 |
| | 48V | A | 10 |
| | 75V | A | 4 |
| | 110V | A | 3 |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | 220V | A | |
| TEC max current le in DCT with L/R \(\sime\) mis with 2 poles in series | -211 | ۸ | 4.5 |
| | ≤24V | A | 15 |
| | 48V 75V | A | 14 |
| | 75V 110V | A A | 9 8 |
| | 220V | | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | 220 V | Α | |
| | ≤24V | Α | 16 |
| | ≤24V 48V | A | 16 |
| | 75V | A | 10 |
| | 75V 110V | A | 10 |
| | 1107 | А | 10 |





| | 220V | Α | 2 |
|---|---------------|-------|----------------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | A | 10 |
| | 110V | A | 10 |
| | 220V | A | 2 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | 220 V | | |
| incomax current le in DC3-DC3 with L/IV 3 13ms with 1 poles in series | ~24) / | ٨ | 7 |
| | ≤24V | A | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | Α | 5 |
| | 110V | Α | 4 |
| | 220V | A | - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | 220 V | | _ - |
| TEO may content to in 200-2003 with E/K > 13ms with 3 poles in series | -01V | ۸ | 10 |
| | ≤24V | A | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | A | 0,8 |
| Short time allowable current for 10s (IEC/ENG0047.1) | 220 V | A | 96 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | A | 90 |
| Protection fuse | . 0 (150) | | 00 |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | A | 10 |
| 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) | | | - |
| . S. S. S. S. Para para (arriago raido) | Ith | W | 4 |
| | | W | |
| Tightoning targue for terminals | AC3 | ٧٧ | 0.81 |
| Tightening torque for terminals | | | 0.0 |
| | min | 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 |
| | 111111 | 15111 | • |
| | | | |





| | | max | lbin | 9 |
|--|---|--|---------------------------------|---|
| Max number of wires | simultaneously connectable | | Nr. | 2 |
| Conductor section | · | | | |
| | AWG/Kcmil | | | |
| | | max | | 12 |
| | Flexible w/o lug conductor section | | | |
| | | min | mm² | 0.75 |
| | | max | mm² | 2.5 |
| | Flexible c/w lug conductor section | | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Power terminal prote | ction according to IEC/EN 60529 | | | IP20 when |
| rower terminal prote | Stion according to rec/en 60329 | | | 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 | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | esignation | | | 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 |
| | ·12 | | | |
| Operating current DC | 113 | | | |
| Operating current DC | ,13 | 24V | Α | 2.9 |
| Operating current DC | ,13 | 48V | A A | 1.4 |
| Operating current DC | ,13 | 48V 60V | | 1.4 1.2 |
| Operating current DC | ,13 | 48V 60V 110V | Α | 1.4 1.2 0.6 |
| Operating current DC | 713 | 48V 60V 110V 125V | A A | 1.4 1.2 0.6 0.55 |
| Operating current DC | , 13 | 48V 60V 110V 125V 220V | A A A A | 1.4 1.2 0.6 0.55 0.3 |
| | .13 | 48V 60V 110V 125V | A A A | 1.4 1.2 0.6 0.55 |
| Operations | 713 | 48V 60V 110V 125V 220V | A A A A | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life | | 48V 60V 110V 125V 220V | A A A A A cycles | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life | | 48V 60V 110V 125V 220V | A A A A | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life Safety related data | | 48V 60V 110V 125V 220V | A A A A A cycles | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operations Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operations Mechanical life Electrical life Safety related data Performance level B | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operations Mechanical life Electrical life Safety related data Performance level Book | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |





| | : 50/60Hz | | | V | 400 |
|---|---------------------|---|--|-------------------------------|---|
| C operating voltage | | | | | |
| | of 50/60Hz coil pov | pick-up | | | |
| | | ρισκ-αρ | 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 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 |



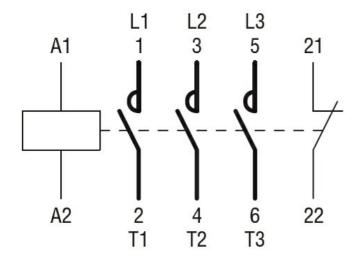
Opening NC

| | Opening | NC | | |
|--------------------------|------------------------------------|------------------------|---------|-------------------------|
| | | min | ms | 11 |
| | | max | ms | 17 |
| | | Шах | 1115 | 17 |
| UL technical data | | | | |
| Full-load current (FLA |) for three-phase AC motor | | | |
| | ,, p | at 480V | ۸ | 7.6 |
| | | | Α | 7.6 |
| | | at 600V | Α | 6.1 |
| Yielded mechanical p | erformance | | | <u> </u> |
| | | | | |
| | for single-phase AC motor | | | |
| | | 110/120V | HP | 0.5 |
| | | 230V | HP | 1.5 |
| | for these above AO mater | 2001 | • • • • | 1.0 |
| | for three-phase AC motor | | | |
| | | 200/208V | HP | 2 |
| | | 220/230V | HP | 3 |
| | | | | |
| | | 460/480V | HP | 5 |
| | | 575/600V | HP | 5 |
| General USE | | | | |
| 20110101 00L | Contactor | | | |
| | Contactor | | | |
| | | AC current | Α | 20 |
| Short-circuit protection | n fuse 600V | | | |
| eriori eriodii proteetie | | | | |
| | High fault | | | |
| | | Short circuit current | kΑ | 100 |
| | | Fuse rating | Α | 30 |
| | | | | |
| | | Fuse class | | J |
| | Standard fault | | | |
| | | Short circuit current | kA | 5 |
| | | | | |
| | | Fuse rating | Α | 30 |
| Contact rating of auxil | 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 altitude | | | m | 3000 |
| Resistance & Protecti | ion | | | |
| | | | | 2 |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 44 44 | | | | |
| (1.73") 4.4 (0.17") | 57 | (1.73") (9.6°) | - | 57 ——— |
| (0.17") | (2.24") | (1.73) | (2 | 57 |
| 4 | (2.24) | | 37 | |
| | | | 0 | |
| | (1.97") - 58 - 58 (2.28") | 1.97 | (2.28") | |
| | (1.97 (2.28 | | 0 | |
| *** | l d | | 6 | |
| ф <u>в</u> в ф | 2 g. Li | | | |
| (0.33") | 34.9 (1.37") | 3.2 (1.37") 3.2 (0.12" |) - | RF9 |
| | (1.37) | (0.12 | , | |
| (0.33") | | | - | 7.6 |
| 8.5 | | 44 | _ | 89.2 (3.51") (0.30") |
| (0.33") | | (1.73") | | (0.01) |
| Wiring diagrams | | | | |



ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 400VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching







Product designation Power contactor Product type designation **BG09** 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 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 12 48V Α 10 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 15 48V Α 14 75V Α 9 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 16 48V Α 16 75V Α 10 110V 10



| | 220V | Α | 2 |
|--|----------|--------------|----------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | A | 10 |
| | 220V | A | 2 |
| IFO | 220 V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | _ | _ |
| | ≤24V | Α | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | A | 5 |
| | 110V | A | 4 |
| | | | |
| 150 | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | , |
| | ≤24V | Α | 10 |
| | 48V | A | 10 |
| | 75V | | |
| | | A | 6 |
| | 110V | A | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | , | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 72 |
| | 500V | A | 72 72 |
| | | | |
| | 690V | A | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightoning torque for coil terminal | Шах | ווטו | <u> </u> |
| Tightening torque for coil terminal | | N I . | 0.0 |
| | 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 | า | | |
| | , , | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Dawar tarminal proto | ction according to IFC/FN 60520 | | | IP20 when |
| Power terminal protec | 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 CANCELLIN CONTROLLER COOLIGIT | max | | 12 |
| Auxiliary contact char | acteristics | THOX | | |
| Thermal current Ith | 400000 | | Α | 10 |
| IEC/EN 60947-5-1 de | esignation | | ,, | A600 - Q600 |
| Operating current AC | | | | 71000 0000 |
| operating current 7.0 | | 230V | Α | 3 |
| | | 400V | A | 1.9 |
| | | 500V | A | 1.4 |
| Operating current DC | 12 | 300 V | | 1.7 |
| Operating current bo | 112 | 110V | Α | 2.9 |
| Operating current DC | 12 | 1100 | | 2.9 |
| Operating current DC | 13 | 24\/ | ٨ | 2.0 |
| | | 24V 48V | A A | 2.9 1.4 |
| | | 48 V 60 V | A | 1.4 |
| | | 110V | A | 0.6 |
| | | 110V 125V | A | 0.55 |
| | | 125V 220V | A | 0.3 |
| | | 600V | A | 0.3 |
| Operations | | 0007 | A | U. I |
| Mechanical life | | | ovoloc | 2000000 |
| | | | cycles | 2000000 |
| Electrical life | | | cycles | 500000 |
| Safety related data | 10d according to EN/ICO 40400 4 | | | |
| renormance level B1 | 10d according to EN/ISO 13489-1 | ا بالدخوص | - ا ا - ا | 500000 |
| | | rated load | cycles | 500000 |
| Mar | | mechanical load | cycles | 20000000 |
| | ing to IEC/EN 609474-4-1 | | | yes |
| EMC compatibility | | | | yes |
| AC coil operating | | | | |
| | | | | |





| Rated AC voltage at 60 |)Hz | | | V | 24 |
|--------------------------|----------------------|-----------------|----------|----------|----------|
| AC operating voltage | | | | | |
| | of 60Hz coil power | | | | |
| | | pick-up | | 0/11 | 7- |
| | | | min | %Us | 75 |
| | | duam aut | max | %Us | 115 |
| | | drop-out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consu | motion at 20°C | | IIIax | /003 | 33 |
| to average con consu | of 50/60Hz coil p | owered at 50Hz | | | |
| | 01 00/001 12 0011 p | 0W0100 0t 00112 | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil p | owered at 60Hz | <u></u> | | |
| | от от от те | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil power | ered at 60Hz | <u> </u> | | |
| | · | | 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 | 0 | | | |
| | | Closing NO | | | 40 |
| | | | min | ms | 12 |
| | | Opening NO | max | ms | 21 |
| | | Opening NO | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | max | 1113 | 10 |
| | | Closing IVO | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | | | |
| | | , 5 | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NO | | | |
| | | | min | ms | 2 |
| | | Q1 · · · · · | max | ms | 3 |
| | | Closing NC | | | 0 |
| | | | min | ms | 3 |
| | | Opening NO | max | ms | 5 |
| | | Opening NC | min | mc | 11 |
| | | | min | ms ms | 11 17 |
| JL technical data | | | max | ms | 17 |
| Full-load current (FLA) | for three-phase M | C motor | | | |
| un-ioau cuitetti (FLA) | ioi iiiiee-piiase At | J IIIUIUI | at 480V | Α | 7.6 |
| | | | at 600V | A | 6.1 |
| | | | at 000 V | | J. 1 |



| Yielded mechanical | performance | | | |
|----------------------------------|----------------------------------|---|-----------|-----------------|
| | for single-phase AC motor | | | |
| | 3 1 | 110/120V | HP | 0.5 |
| | | 230V | HP | 1.5 |
| | for three-phase AC motor | 2001 | | 1.0 |
| | ioi tillee-pliase AC filotoi | 200/208V | HP | 2 |
| | | | | |
| | | 220/230V | HP | 3 |
| | | 460/480V | HP | 5 |
| | | 575/600V | HP | 5 |
| General USE | | | | |
| | Contactor | | | |
| | | AC current | Α | 20 |
| Short-circuit protecti | ion fuse, 600V | | | |
| • | High fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | A | 30 |
| | | Fuse class | , , | J |
| | Standard fault | 1 430 01833 | | <u> </u> |
| | Standard fault | Short circuit current | IzΛ | E |
| | | | kΑ | 5 |
| | | Fuse rating | Α | 30 |
| | xiliary 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 |
| Max altitude | | | m | 3000 |
| Resistance & Protect | ction | | 111 | 3000 |
| | CHOTT | | | 3 |
| Pollution degree Dimensions | | | | 3 |
| 4.4 (0.17") (0.17 | 47") 8 6 (2.24") | (1.73") | (2 | 57 |
| (0.17") | (2.24) (2.88.7) (3.88.7) | (1.37") (0.12 | (2.28") 5 | RF9 |
| 8.5 (0.33") 8.5 (0.33") |) (1.57) | 44 (1.73") | | 89.2 (3.51") |
| Wiring diagrams | | | | |

24VAC, 1NC AUXILIARY CONTACT



| Certificat | | 1:0:00 |
|------------|------|--------|
| | | |
| | | |

Compliance

A2

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

T2

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

Contact characteristics

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 48VAC, 1NC AUXILIARY CONTACT



Power contactor

BG09

75V

110V

220V

≤24V

48V

75V

110V

220V

≤24V

48V

75V

110V

Α

Α

Α

Α

Α

Α

Α

Α

Α

Α

Α

4

3

15

14

9

8

16

16

10

10

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 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 12 48V Α 10

IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series





| | 220V | Α | 2 |
|--|----------|--------------|----------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | Α | 10 |
| | 220V | A | 2 |
| IFO | 220 V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | _ | _ |
| | ≤24V | Α | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | Α | 5 |
| | 110V | A | 4 |
| | | | |
| 150 | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | , |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | | |
| | | A | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | , | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 72 |
| | 500V | A | 72 72 |
| | | | |
| | 690V | A | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightoning torque for coil terminal | Шах | ווטו | <u> </u> |
| Tightening torque for coil terminal | | N I . | 0.0 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | | | |



| | | max | Ibin | 9 |
|--|---|---|---|--|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | ANA 0 11 | | | |
| | AWG/Kcmil | | | 40 |
| | Flavible w/s live acadustar acation | 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 |
| | Trexible 6/W rug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | max | | 2.0 |
| | Tionible Will illediated opade lag confederal coolien | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | 1' | | | IP20 when |
| Power terminal protec | 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 | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | | | |
| | | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | • | | A | 10 A600 - Q600 |
| | • | | | 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 | 12 | 400V | A A | A600 - Q600 3 1.9 |
| IEC/EN 60947-5-1 de Operating current AC | 12 | 400V 500V 110V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 12 | 400V 500V 110V 24V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current DC | 12 | 400V 500V 110V 24V 48V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 |
| Operating current DC | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 |
| Operating current DC Operating current DC Operating current DC | 12 | 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 |
| Operating current DC | 12 | 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 | 12 | 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 | 12 | 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 | 12 | 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 | 12 13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A 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 B1 | 12 13 10d according to EN/ISO 13489-1 | 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | A A A A A A A A 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 B1 | 12 13 Od 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 |





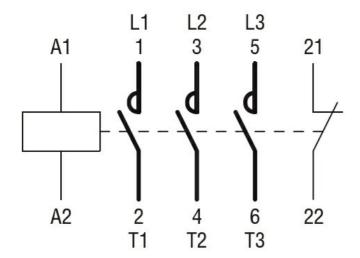
| Rated AC voltage at 60 | 0Hz | | | V | 48 |
|---|----------------------|-----------------------|---------------------------------|----------------------|--|
| AC operating voltage | | | | | |
| | of 60Hz coil powe | | | | |
| | | pick-up | | 0/11- | 7.5 |
| | | | min | %Us | 75 |
| | | drop-out | max | %Us | 115 |
| | | diop-out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consu | ımption at 20°C | | | ,,,,, | |
| J | of 50/60Hz coil po | owered at 50Hz | | | |
| | · | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| | of 50/60Hz coil po | owered at 60Hz | | | |
| | | | in-rush | VA | 25 |
| | | | holding | VA | 3 |
| | of 60Hz coil power | ered at 60Hz | | 1.44 | |
| | | | in-rush | VA | 30 |
| Dissipation at Isolation | <00°C FOLI- | | holding | VA | 4 |
| Dissipation at holding : Max cycles frequency | ≥∠U¹U 5UHZ | | | W | 0.95 |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | oyoles/11 | 3000 |
| 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 | | | 4-7 |
| | | | min | ms | 17 |
| | | Opening NC | max | ms | 26 |
| | | Opening NC | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | | παλ | 1110 | |
| | - | Closing NO | | | |
| | | 5 - | min | ms | 18 |
| | | | | ms | 25 |
| | | | max | 1113 | |
| | | Opening NO | max | 1113 | |
| | | Opening NO | min | ms | 2 |
| | | | | | 2 3 |
| | | Opening NO Closing NC | min max | ms ms | 3 |
| | | | min max min | ms ms | 3 |
| | | Closing NC | min max | ms ms | 3 |
| | | | min max min max | ms ms ms | 3 3 5 |
| | | Closing NC | min max min max min | ms ms ms ms | 3511 |
| II technical data | | Closing NC | min max min max | ms ms ms | 3 3 5 |
| | for three-phase AC | Closing NC Opening NC | min max min max min | ms ms ms ms | 3511 |
| <mark>JL technical data</mark> Full-load current (FLA) | o for three-phase A0 | Closing NC Opening NC | min max min max min | ms ms ms ms | 3511 |



| or | | | |
|---------------------------------|--|-------------|--|
| 110/120V | HP | 0.5 | |
| 230V | HP | 1.5 | |
| or . | | | |
| | HP | 2 | |
| | | | |
| | | | |
| | | | |
| 373/0007 | 111 | 3 | |
| | | | |
| 40 | | 00 | |
| AC current | A | 20 | |
| | | | |
| | | | |
| | kA | | |
| Fuse rating | Α | 30 | |
| Fuse class | | J | |
| | | | |
| Short circuit current | kA | 5 | |
| Fuse rating | Α | 30 | |
| | | A600 - Q600 | 0 |
| | | | |
| | | | |
| | | | |
| min | °C | -50 | |
| | | | |
| max | | 170 | |
| min | °C | 60 | |
| | | | |
| max | | | |
| | | | |
| | m | 3000 | |
| | | 3000 | |
| | | | |
| | | 3000 | |
| 3.2 (0.12 (0.12 | m (2 (87.2) | 3000 3 | -7.6 |
| (3.71") (3.71") (3.71") (4.97") | m (2 (87.2) | 3000 3 | 7.60 |
| • | 110/120V 230V or 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse rating UL min max min | 110/120V | 110/120V HP 0.5 230V HP 1.5 T 200/208V HP 2 220/230V HP 3 460/480V HP 5 575/600V HP 5 AC current A 20 Short circuit current kA 100 Fuse rating A 30 Fuse class J Short circuit current kA 5 Fuse rating A 30 Fuse rating A 30 Fuse class Characteristic current current current kA 5 Fuse rating A 30 The circuit current |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 48VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching







Product designation Power contactor Product type designation **BG09** 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 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 12 48V Α 10 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 15 48V Α 14 75V Α 9 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 16 48V Α 16 75V Α 10 110V 10





| | 220V | Α | 2 |
|--|----------|--------------|----------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | Α | 10 |
| | 220V | A | 2 |
| IFO | 220 V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | _ | _ |
| | ≤24V | Α | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | Α | 5 |
| | 110V | A | 4 |
| | | | |
| 150 | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | , |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | | |
| | | A | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | , | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 72 |
| | 500V | A | 72 72 |
| | | | |
| | 690V | A | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightoning torque for coil terminal | Шах | ווטו | <u> </u> |
| Tightening torque for coil terminal | | N I . | 0.0 |
| | 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 prote | ction according to IEC/EN 60529 | | | IP20 when |
| | <u> </u> | | | properly wired |
| Mechanical features | | | | |
| Operating position | | normal | | Vertical plan |
| | | normal allowable | | Vertical plan ±30° |
| | | allowable | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | | 180 |
| Conductor section | | | g | 100 |
| Conductor Section | AWG/kcmil conductor section | | | |
| | AVVG/kcmii conductor section | may | | 12 |
| Auxiliary contact char | actoristics | max | | 12 |
| Auxiliary Cortiact Criar | aciensilos | | | |
| Thermal current Ith | | | Δ | 10 |
| Thermal current Ith | esignation | | A | 10 A600 - O600 |
| IEC/EN 60947-5-1 de | _ • | | A | 10 A600 - Q600 |
| | _ • | 2301/ | | 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 AC | 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 AC | 15 | 400V 500V 110V 24V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current AC | 15 | 400V 500V 110V 24V 48V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 |
| Operating current AC | 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 AC | 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 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 | 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 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 | 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 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 |
| 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 | 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 500000 500000 yes |
| 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 |



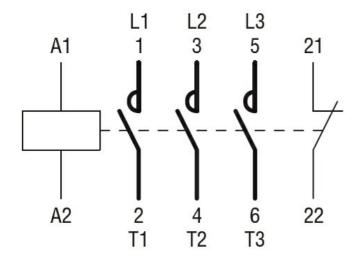


| Rated AC voltage at 6 |)Hz | | | V | 120 |
|--|-----------------------------|------------|---------|-----------|-----------|
| AC operating voltage | | | | | |
| | of 60Hz coil powered at 60H | | | | |
| | pick | c-up | | 0/11 | |
| | | | min | %Us | 75 445 |
| | dro | o out | max | %Us | 115 |
| | ulo | o-out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consu | mption at 20°C | | | ,,,,, | |
| Ŭ | 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 60H | łz | | | |
| | | | in-rush | VA | 30 |
| Dissipation at halding | <00°C FOLI- | | holding | VA | 4 |
| Dissipation at holding: Max cycles frequency | ≥ZU U DU⊓Z | | | W | 0.95 |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | Cyclc3/11 | 3000 |
| Average time for Us co | ontrol | | | | |
| | in AC | | | | |
| | | sing NO | | | |
| | | - | min | ms | 12 |
| | | | max | ms | 21 |
| | Оре | ening NO | | | |
| | | | min | ms | 9 |
| | | | max | ms | 18 |
| | Clo | sing NC | | | 47 |
| | | | min | ms | 17 |
| | Ond | ening NC | max | ms | 26 |
| | Ορι | Filling NC | min | ms | 7 |
| | | | max | ms | , 17 |
| | in DC | | Пих | 5 | - · |
| | | sing NO | | | |
| | | Č | min | ms | 18 |
| | | | max | ms | 25 |
| | Оре | ening NO | | | |
| | | | min | ms | 2 |
| | | | max | ms | 3 |
| | Clo | sing NC | | | _ |
| | | | min | ms | 3 |
| | 0 | oning NC | max | ms | 5 |
| | Оре | ening NC | min | me | 11 |
| | | | max | ms ms | 17 |
| UL technical data | | | IIIdX | 1119 | 1 / |
| | for three-phase AC motor | | | | |
| | | | at 480V | Α | 7.6 |
| | | | at 600V | Α | 6.1 |
| | | | | - | |



| Contactor High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse class J Standard fault Short circuit current Fuse rating A 30 Fuse class J Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions Emperature Operating temperature Operating temperature Storage temperature Min °C -50 max °C +70 Storage temperature Min °C -60 max °C +80 max °C max °C +80 max °C | Vialdad | | | | |
|--|--------------------------|------------------------------|-----------------------|-----------|-------------|
| 110/120V | Y leided mechanical pe | | | | |
| 230V HP 1.5 | | tor single-phase AC motor | | | 0.5 |
| for three-phase AC motor 200/208V HP 3 460/480V HP 5 575/600V HP 5 Seneral USE Contactor AC current A 20 short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 30 contact rating of auxiliary contacts according to UL mblent conditions emperature Operating temperature Operating temperature Thin *C -50 max *C +70 Storage temperature min *C -60 max *C +80 fax altitude min *C - | | | | | |
| 200/208V HP 2 220/230V HP 3 480/480V HP 5 575/600V HP 5 | | | 230V | HP | 1.5 |
| 220/230V | | for three-phase AC motor | | | |
| A60/480V | | | 200/208V | HP | 2 |
| Seneral USE Contactor AC current A 20 | | | 220/230V | HP | 3 |
| Contactor AC current A 20 Short-circuit protection fuse, 600V High fault Short circuit current Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 Indient conditions Contact rating of auxiliary and a 30 Indient conditions Contact rating of auxiliary and a 30 Indient conditions Contact rating of auxiliary and a 30 Indient conditions Contact ratin | | | 460/480V | HP | 5 |
| Contactor High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse class J Standard fault Short circuit current Fuse rating A 30 Fuse class J Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions Emperature Operating temperature Operating temperature Storage temperature Min °C -50 max °C +70 Storage temperature Min °C -60 max °C +80 max °C max °C +80 max °C | | | 575/600V | HP | 5 |
| AC current A 20 whort-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL mbient conditions emperature Operating temperature Min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude max °C +80 Max altitude Storage temperature Max altitude Max | General USE | | | | |
| AC current A 20 whort-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL mbient conditions emperature Operating temperature Min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude max °C +80 Max altitude Storage temperature Max altitude Max | | Contactor | | | |
| Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 30 Contact rating of auxiliary contacts according to UL Imbient conditions emperature Operating temperature Operating temperature Min °C -50 max °C +70 Storage temperature Max altitude m 3000 desistance & Protection Fuse rating A 30 A600 - Q600 Max altitude min °C -60 max °C +80 Max altitude m 3000 desistance & Protection Fuse rating A 30 A600 - Q600 A | | | AC current | Α | 20 |
| High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 30 Fuse ratin | Short-circuit protection | n fuse 600V | , | | |
| Short circuit current kA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 30 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 30 Contact rating of auxiliary contacts according to UL Imbient conditions Emperature Operating temperature Operating temperature Min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Axa altitude Exercise Protection Follution degree Total Contact rating of auxiliary contacts according to UL Imbient conditions The storage temperature of the storage of the stora | Short direatt protection | | | | |
| Standard fault Short circuit current kA 5 Fuse rating A 30 Fuse rating A 30 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 30 Fuse rat | | i ligit lault | Short circuit current | L۸ | 100 |
| Standard fault Short circuit current kA 5 Fuse rating A 30 Contact rating of auxiliary contacts according to UL mblent conditions remperature Operating temperature Min °C -50 max °C +70 Storage temperature Max altitude min °C -60 max °C +80 Max altitude min °C -60 Max of the conditions of t | | | | | |
| Standard fault Short circuit current Fuse rating A 30 Contact rating of auxiliary contacts according to UL Machine Indicate Ind | | | _ | A | |
| Short circuit current KA 5 Fuse rating A 30 contact rating of auxiliary contacts according to UL mbient conditions remperature Operating temperature Min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 As altitude max °C +80 As altitude max °C +80 Cesistance & Protection Follution degree 3 Fuse rating A 30 According to UL mbient conditions The protection of the pr | | 01 | Fuse class | | J |
| Contact rating of auxiliary contacts according to UL mbient conditions emperature Operating temperature Min °C -50 max °C +70 Storage temperature Min °C -60 max °C +80 As altitude Max altitude Collution degree Soliution | | Standard fault | | | _ |
| Contact rating of auxiliary contacts according to UL Imbient conditions Temperature Operating temperature Operating temperature Imin °C -50 Imax °C +70 Storage temperature Imin °C -60 Imax °C +80 Imax °C + | | | | | |
| Operating temperature Operating temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 At a altitude min °C -60 max °C +80 At a lititude cesistance & Protection collution degree 3 Dimensions Output Add (1.73) Ou | | | Fuse rating | A | |
| Operating temperature Min | | ary contacts according to UL | | | A600 - Q600 |
| Operating temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Ax altitude m 3000 Resistance & Protection collution degree 3 Dimensions 144 173 1017 1017 1017 1017 1017 1017 1017 | | | | | |
| min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Cesistance & Protection Collution degree 3 College 3 Co | Temperature | | | | |
| Max o C +70 Storage temperature min o C -60 max o C +80 Max altitude m 3000 Cesistance & Protection Collution degree 3 Collution degree | | Operating temperature | | | |
| Storage temperature min | | | min | °C | -50 |
| min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3 Simensions 144 0.17 0.17 0.33 0.34 0.35 0. | | | max | °C | +70 |
| min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3 Simensions 144 0.17 0.17 0.33 0.34 0.35 0. | | Storage temperature | | | |
| Max altitude m 3000 Resistance & Protection collution degree 3 collutions 44 (1.73") (0.33") | | · · | min | °C | -60 |
| Max altitude m 3000 Resistance & Protection Collution degree 3 Collution s A4.4 | | | | | |
| Resistance & Protection collution degree 3 3 44 1,73" 9,7 1,34,9 9,7 1,37" 1,37" 3,2 1,37" 1,37 | Max altitude | | | | |
| Vollution degree Dimensions 3 4.4 (1.73") (0.33") (0.33") (0.33") (0.33") 3 3 (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") | | nn - | | | |
| Dimensions 4.4 (1.73") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") | | 511 | | | 3 |
| 4.4 (1.73") (2.24") (2.24") (2.33") (3.33") (0 | | | | | 3 |
| 4.4 (2.24") (2.24") (3.33") (0.33") | | | | | |
| (0.33°) (1.73°) (3.51°) | 4.4 (0.17") | 24.9 | 3.2 (0.12° | (2.28") 5 | RF9 |
| Viring diagrams | | | (1.73") | 8 | (3.51") |
| | Wiring 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 **BG09** 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 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 12 48V Α 10 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 15 48V Α 14 75V Α 9 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 16 48V Α 16 75V Α 10 110V 10



| | 220V | Α | 2 |
|--|----------|--------------|----------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | Α | 10 |
| | 220V | A | 2 |
| IFO | 220 V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | _ | _ |
| | ≤24V | Α | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | Α | 5 |
| | 110V | A | 4 |
| | | | |
| 150 | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | , |
| | ≤24V | Α | 10 |
| | 48V | A | 10 |
| | 75V | | |
| | | A | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | , | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 72 |
| | 500V | A | 72 72 |
| | | | |
| | 690V | A | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightoning torque for coil terminal | Шах | ווטו | <u> </u> |
| Tightening torque for coil terminal | | N I . | 0.0 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | | | |



| | | max | Ibin | 9 |
|--|---|---|---|---|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | 4.0 |
| | Electrical delication of the second second | max | | 12 |
| | Flexible w/o lug conductor section | | | 0.75 |
| | | min | mm² | 0.75 2.5 |
| | 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 rag contactor 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 | 185 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| | | | | |
| Auxiliary contact chara | acteristics | | | |
| Thermal current Ith | | | Α | 10 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | | Α | 10 A600 - Q600 |
| Thermal current Ith | esignation | 9004 | | A600 - Q600 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | 230V | A | A600 - Q600 3 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation | 400V | A A | A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | esignation 15 | | A | A600 - Q600 3 |
| Thermal current Ith IEC/EN 60947-5-1 de | esignation 15 | 400V 500V | A A A | A600 - Q600 3 1.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 400V | A A | A600 - Q600 3 1.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC | esignation 15 | 400V 500V 110V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 400V 500V 110V 24V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 15 | 400V 500V 110V 24V 48V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 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 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 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 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 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 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 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 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC | esignation 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 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC | esignation 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 |
| Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC | esignation 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 |
| 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 | 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 |
| 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 | 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 |
| 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 | 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 |
| 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 | 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 |
| 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 | 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 |
| 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 | 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 |





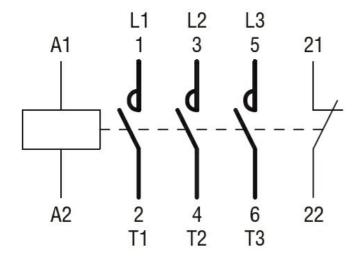
| Rated AC voltage at 60 |)Hz | | | V | 220 |
|--|-------------------|-----------------|------------|------------|---------|
| AC operating voltage | | | | | |
| | of 60Hz coil pow | | | | |
| | | pick-up | | 0/11- | 75 |
| | | | min | %Us | 75 |
| | | drop-out | max | %Us | 115 |
| | | diop-out | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consu | mption at 20°C | | THOX: | 7000 | |
| J | of 50/60Hz coil p | powered at 50Hz | | | |
| | · | | 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 pow | ered at 60Hz | | | 0.0 |
| | | | in-rush | VA | 30 |
| Dissipation at haldinar | <20°C E0! !− | | holding | VA W | 4 |
| Dissipation at holding s Max cycles frequency | ≥∠U U ƏUĦZ | | | VV | 0.95 |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | Jy 0103/11 | |
| Average time for Us co | ontrol | | | | |
| <u> </u> | in AC | | | | |
| | | Closing NO | | | |
| | | _ | min | ms | 12 |
| | | | max | ms | 21 |
| | | Opening NO | | | |
| | | | min | ms | 9 |
| | | Olaska NO | max | ms | 18 |
| | | Closing NC | min | ma | 17 |
| | | | min max | ms ms | 26 |
| | | Opening NC | IIIax | ms | 20 |
| | | Oponing 140 | 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 ms | 3 |
| | | Opening NC | max | ms | 5 |
| | | Opening NC | min | ms | 11 |
| | | | max | ms | 17 |
| UL technical data | | | IIIdA | 1113 | ., |
| Full-load current (FLA) | for three-phase A | C motor | | | |
| - · · · · · · · · · · · · · · · · · · · | | | at 480V | Α | 7.6 |
| | | | at 600V | Α | 6.1 |
| | | | | | |



| Yielded mechanical p | erformance | | | |
|---|-------------------------------|--|---------|-----------------|
| · | for single-phase AC motor | | | |
| | . | 110/120V | HP | 0.5 |
| | | 230V | HP | 1.5 |
| | for three-phase AC motor | 2001 | | |
| | for three phase Ao motor | 200/208V | HP | 2 |
| | | 200/208V 220/230V | HP | 3 |
| | | | | |
| | | 460/480V | HP | 5 |
| | | 575/600V | HP | 5 |
| General USE | | | | |
| | Contactor | | | |
| | | AC current | Α | 20 |
| Short-circuit protectio | n 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 | A | 30 |
| Contact rating of auxil | iary contacts according to UL | r doo raang | - , , | A600 - Q600 |
| Ambient conditions | lary contacts according to OL | | | A000 - Q000 |
| | | | | |
| Temperature | 0 | | | |
| | Operating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | +70 |
| | Storage temperature | | | |
| | | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | | m | 3000 |
| Resistance & Protecti | ion | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 4.4 (0.17") (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") | 34.9 (1.37") | 34.9 (1.73") 3.2 (1.73") 3.2 (1.37") 3.2 (1.37") 3.2 | (2.28") | 89.2 (3.51") |
| Niring diagrams | | | | |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 220VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching







Product designation Power contactor Product type designation **BG09** 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 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 12 48V Α 10 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 15 48V Α 14 75V Α 9 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 16 48V Α 16 75V Α 10 110V 10



| | 220V | Α | 2 |
|--|----------|--------------|----------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | A | 10 |
| | 220V | A | 2 |
| IFO | 220 V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | _ | _ |
| | ≤24V | Α | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | A | 5 |
| | 110V | A | 4 |
| | | | |
| 150 | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | , |
| | ≤24V | Α | 10 |
| | 48V | A | 10 |
| | 75V | | |
| | | A | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | , | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 72 |
| | 500V | A | 72 72 |
| | | | |
| | 690V | A | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightoning torque for coil terminal | Шах | ווטו | <u> </u> |
| Tightening torque for coil terminal | | N I . | 0.0 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | | | |



| | | max | Ibin | 9 |
|---|---|---|---|---|
| | simultaneously connectable | | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | 4.0 |
| | Fig. 21. de la constanta constanta | max | | 12 |
| | Flexible w/o lug conductor section | | | 0.75 |
| | | min | mm² | 0.75 2.5 |
| | 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 | | | 2.0 |
| | Tionible with indulated space rag conductor section | 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 | 186 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact chara | acteristics | | • | 1.0 |
| | | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | • | | A | 10 A600 - Q600 |
| | • | 0001 | | 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 AC | 12 | 400V | A A | A600 - Q600 3 1.9 |
| IEC/EN 60947-5-1 de Operating current AC | 12 | 400V 500V 110V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current AC | 12 | 400V 500V 110V 24V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| Operating current AC | 12 | 400V 500V 110V 24V 48V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 |
| Operating current AC | 12 | 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 AC | 12 | 400V 500V 110V 24V 48V 60V 110V | A A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 |
| Operating current AC | 12 | 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 AC | 12 | 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 | 12 | 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 |
| Operating current DC Operating current DC Operating current DC | 12 | 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 |
| Operating current DC | 12 | 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 | 12 | 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 Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | 12 | 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 Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | 12 | 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 Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data | 12 13 Od 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 B1 | 12 13 Od 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 B1 | 12 13 Od 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 |





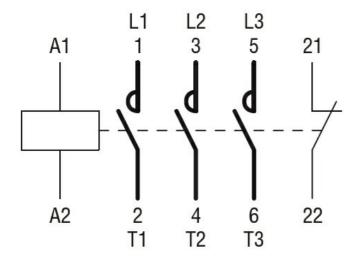
| Rated AC voltage at 6 | 0Hz | | | V | 230 |
|--|---------------------|------------------------------------|---|----------------------|---|
| AC operating voltage | | | | | |
| | of 60Hz coil power | | | | |
| | | pick-up | min | %Us | 75 |
| | | | max | %Us | 115 |
| | | drop-out | max | 7000 | 110 |
| | | , | min | %Us | 20 |
| | | | max | %Us | 55 |
| AC average coil consu | ımption at 20°C | | | | |
| | of 50/60Hz coil po | owered at 50Hz | | | |
| | | | in-rush | VA | 30 |
| | (50/0011 " | | holding | VA | 4 |
| | of 50/60Hz coil po | owered at 60Hz | in rugh | ١/٨ | 25 |
| | | | in-rush holding | VA VA | 25 3 |
| | of 60Hz coil power | red at 60Hz | riolality | V/\ | 3 |
| | 31 001 12 0011 powe | 704 dt 001 12 | 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 | ms | 12 |
| | | | max | ms | 21 |
| | | Opening NO | max | 1113 | 21 |
| | | ороg . то | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | | | |
| | | | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | | | _ |
| | | | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | | | | |
| | in DC | Closing NO | | | |
| | in DC | Closing NO | | ms | 18 |
| | in DC | Closing NO | min max | ms ms | 18 25 |
| | in DC | Closing NO Opening NO | min | | |
| | in DC | | min | | 252 |
| | in DC | Opening NO | min max | ms | 25 |
| | in DC | | min max min max | ms ms ms | 2523 |
| | in DC | Opening NO | min max min max min | ms ms ms | 25233 |
| | in DC | Opening NO Closing NC | min max min max | ms ms ms | 2523 |
| | in DC | Opening NO | min max min max min max | ms ms ms ms | 25 2 3 3 5 |
| | in DC | Opening NO Closing NC | min max min max min max min | ms ms ms ms | 2523511 |
| JL technical data | in DC | Opening NO Closing NC | min max min max min max | ms ms ms ms | 25 2 3 3 5 |
| | | Opening NO Closing NC Opening NC | min max min max min max min | ms ms ms ms | 2523511 |
| JL technical data Full-load current (FLA) | | Opening NO Closing NC Opening NC | min max min max min max min | ms ms ms ms | 2523511 |



| or | | | |
|---------------------------------|--|-------------|--|
| 110/120V | HP | 0.5 | |
| 230V | HP | 1.5 | |
| or . | | | |
| | HP | 2 | |
| | | | |
| | | | |
| | | | |
| 373/0007 | 111 | 3 | |
| | | | |
| 40 | | 00 | |
| AC current | A | 20 | |
| | | | |
| | | | |
| | kA | | |
| Fuse rating | Α | 30 | |
| Fuse class | | J | |
| | | | |
| Short circuit current | kA | 5 | |
| Fuse rating | Α | 30 | |
| | | A600 - Q600 | 0 |
| | | | |
| | | | |
| | | | |
| min | °C | -50 | |
| | | | |
| max | | 170 | |
| min | °C | 60 | |
| | | | |
| max | | | |
| | | | |
| | m | 3000 | |
| | | 3000 | |
| | | | |
| | | 3000 | |
| 3.2 (0.12 (0.12 | m (2 (87.2) | 3000 3 | -7.6 |
| (3.71") (3.71") (3.71") (4.97") | m (2 (87.2) | 3000 3 | 7.60 |
| • | 110/120V 230V or 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse rating UL min max min | 110/120V | 110/120V HP 0.5 230V HP 1.5 T 200/208V HP 2 220/230V HP 3 460/480V HP 5 575/600V HP 5 AC current A 20 Short circuit current kA 100 Fuse rating A 30 Fuse class J Short circuit current kA 5 Fuse rating A 30 Fuse rating A 30 Fuse class Characteristic current current current kA 5 Fuse rating A 30 The circuit current |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 230VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching







Product designation Power contactor Product type designation **BG09** 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 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 12 48V Α 10 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 15 48V Α 14 75V Α 9 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 16 48V Α 16 75V Α 10 110V 10





| | 220V | Α | 2 |
|--|----------|--------------|----------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | A | 10 |
| | 220V | A | 2 |
| IFO | 220 V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | _ | _ |
| | ≤24V | Α | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | A | 5 |
| | 110V | A | 4 |
| | | | |
| 150 | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | , |
| | ≤24V | Α | 10 |
| | 48V | A | 10 |
| | 75V | | |
| | | A | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | , | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 72 |
| | 500V | A | 72 72 |
| | | | |
| | 690V | A | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightoning torque for coil terminal | Шах | ווטו | <u> </u> |
| Tightening torque for coil terminal | | N I . | 0.0 |
| | 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 | | | |
| | | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | | | |
| | , | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| | | | | IP20 when |
| Power terminal prote | ction according to IEC/EN 60529 | | | properly wired |
| Mechanical features | | | | , , , , |
| Operating position | | | | |
| - p | | normal | | Vertical plan |
| | | allowable | | ±30° |
| | | ano madio | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | g | 180 |
| Conductor section | | | 3 | |
| Solidación Scotion | AWG/kcmil conductor section | | | |
| | AVVO/Kerrill corrector section | max | | 12 |
| Auxiliary contact char | ractoristics | Пах | | 12 |
| Thermal current Ith | aciensiles | | А | 10 |
| IEC/EN 60947-5-1 de | osignation | | | A600 - Q600 |
| | <u>-</u> | | | A000 - Q000 |
| Operating current AC | ,10 | 0001/ | Δ. | • |
| | | 230V | A | 3 |
| | | 400V | A | 1.9 |
| 0 11 100 | | 500V | A | 1.4 |
| Operating current DC | 712 | | _ | |
| | | 110V | A | 2.9 |
| Operating current DC | | | | |
| 3 | 213 | | | |
| - 1 | 213 | 24V | Α | 2.9 |
| 9 | C13 | 48V | A A | 2.9 1.4 |
| 3 | C13 | 48V 60V | | 1.4 1.2 |
| 3 | C13 | 48V 60V 110V | Α | 1.4 |
| J | C13 | 48V 60V 110V 125V | A A | 1.4 1.2 |
| | 213 | 48V 60V 110V | A A A | 1.4 1.2 0.6 |
| 3 | | 48V 60V 110V 125V | A A A | 1.4 1.2 0.6 0.55 |
| | C13 | 48V 60V 110V 125V 220V | A A A A | 1.4 1.2 0.6 0.55 0.3 |
| Operations | 213 | 48V 60V 110V 125V 220V | A A A A | 1.4 1.2 0.6 0.55 0.3 |
| Operations Mechanical life | 213 | 48V 60V 110V 125V 220V | A A A A | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life | | 48V 60V 110V 125V 220V | A A A A A cycles | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life Safety related data | | 48V 60V 110V 125V 220V | A A A A A cycles | 1.4 1.2 0.6 0.55 0.3 0.1 |
| Operations Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operations Mechanical life Electrical life Safety related data | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operations Mechanical life Electrical life Safety related data Performance level B | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |
| Operations Mechanical life Electrical life Safety related data Performance level B | 10d according to EN/ISO 13489-1 | 48V 60V 110V 125V 220V 600V | A A A A A Cycles cycles | 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 |





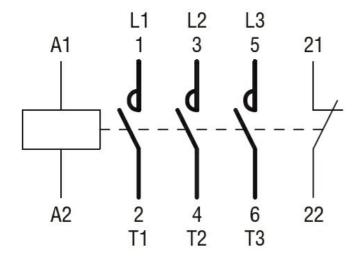
| Rated AC voltage at | 60Hz | | V | 460 |
|--|------------------------------|--------------------|----------------------|-----------|
| AC operating voltag | | | | |
| | of 60Hz coil powered at 60H | | | |
| | pick | • | 0/116 | 7.5 |
| | | min max | | 75 115 |
| | drop | | 70US | 115 |
| | urop | min | %Us | 20 |
| | | max | | 55 |
| AC average coil cor | sumption at 20°C | | | |
| · · | of 50/60Hz coil powered at 5 | 50Hz | | |
| | | in-rush | VA | 30 |
| | | holding | VA | 4 |
| | of 50/60Hz coil powered at 6 | | | |
| | | in-rush | | 25 |
| | | holding | VA | 3 |
| | of 60Hz coil powered at 60H | z in-rush | ١/٨ | 20 |
| | | in-rusn holding | VA VA | 30 4 |
| Dissipation at holdin | n <20°C 50Hz | noiding | W | 0.95 |
| Max cycles frequent | | | v v | 0.00 |
| Mechanical operatio | • | | cycles/h | 3600 |
| Operating times | | | 5, 5.5 5, 1.5 | |
| Average time for Us | control | | | |
| _ | in AC | | | |
| | Clos | sing NO | | |
| | | min | ms | 12 |
| | | max | ms | 21 |
| | Ope | ning NO | | _ |
| | | min | | 9 |
| | Class | max | ms | 18 |
| | Clos | sing NC min | ms | 17 |
| | | max | | 26 |
| | Ope | ning NC | 1110 | 20 |
| | - Gpc | min | ms | 7 |
| | | max | | 17 |
| | in DC | | | |
| | Clos | sing NO | | |
| | | min | ms | 18 |
| | | max | ms | 25 |
| | Ope | ning NO | | |
| | | min | | 2 |
| | 01 | max | ms | 3 |
| | Clos | sing NC min | me | 3 |
| | | max | | 5 |
| | One | ning NC | 1119 | J |
| | Оре | min | ms | 11 |
| | | | | • • |
| | | | | 17 |
| JL technical data | | max | | 17 |
| | A) for three-phase AC motor | | | 17 |
| UL technical data Full-load current (FL | A) for three-phase AC motor | | | 7.6 |



| Yielded mechanical perfor | mance | | | |
|---|---------------------------|----------------------------------|-----------|-----------------|
| foi | r single-phase AC motor | | | |
| | J | 110/120V | HP | 0.5 |
| | | 230V | HP | 1.5 |
| for | r three phase AC mater | 200 V | | 1.0 |
| 101 | r three-phase AC motor | 000/0001/ | | |
| | | 200/208V | HP | 2 |
| | | 220/230V | HP | 3 |
| | | 460/480V | HP | 5 |
| | | 575/600V | HP | 5 |
| General USE | | | | |
| Co | ontactor | | | |
| 30 | Sindotoi | AC current | Α | 20 |
| Chart aircuit protection fue | 0. 6001/ | AO GUITEIR | | 20 |
| Short-circuit protection fus | | | | |
| Hi | gh fault | | | |
| | | Short circuit current | kA | 100 |
| | | Fuse rating | Α | 30 |
| | | Fuse class | | J |
| Sta | andard fault | | | |
| | | Short circuit current | kA | 5 |
| | | Fuse rating | Α | 30 |
| Contact rating of auxiliary of | contacts according to LII | i doo ramig | , , | A600 - Q600 |
| Ambient conditions | contacts according to OL | | | A000 - Q000 |
| | | | | |
| Temperature | | | | |
| Op | perating temperature | | | |
| | | min | °C | -50 |
| | | max | °C | +70 |
| St | orage temperature | | | |
| | | min | °C | -60 |
| | | max | °C | +80 |
| Max altitude | | max | | 3000 |
| | | | m | 3000 |
| Resistance & Protection | | | | - |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 4.4 (0.17") (0.17") (0.17") (0.17") (0.33") (0.33") (0.33") (0.38") (1.37") (0.38") | (2.28") | 2. E. O H H O (1.37") 3.2 (0.12" | (2.28") 5 | 89.2 (3.51") |
| (0.33") Wiring diagrams | | (1.73") | | (3.51) |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 460VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching







Product designation Power contactor Product type designation **BG09** 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 20 Α Operational current le AC-1 (≤40°C) Α 20 AC-1 (≤55°C) Α 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 12 48V Α 10 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 15 48V Α 14 75V Α 9 110V Α 8 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 16 48V Α 16 75V Α 10 110V 10



| | 220V | Α | 2 |
|--|----------|--------------|----------|
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| · | ≤24V | Α | 16 |
| | 48V | Α | 16 |
| | 75V | Α | 10 |
| | 110V | A | 10 |
| | 220V | A | 2 |
| IFO | 220 V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | _ | _ |
| | ≤24V | Α | 7 |
| | 48V | Α | 6 |
| | 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 | 8 |
| | 48V | Α | 8 |
| | 75V | A | 5 |
| | 110V | A | 4 |
| | | | |
| 150 | 220V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | ≤24V | Α | 10 |
| | 48V | Α | 10 |
| | 75V | Α | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | , |
| | ≤24V | Α | 10 |
| | 48V | A | 10 |
| | 75V | | |
| | | A | 6 |
| | 110V | Α | 5 |
| | 220V | Α | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 10 |
| Making capacity (RMS value) | , | Α | 92 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 72 |
| | 500V | A | 72 72 |
| | | | |
| | 690V | A | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 4 |
| | AC3 | W | 0.81 |
| Tightening torque for terminals | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | max | lbin | 9 |
| Tightoning torque for coil terminal | Шах | ווטו | <u> </u> |
| Tightening torque for coil terminal | | N I . | 0.0 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | | | |



| max | Ibin | 9 |
|---|---|--|
| | Nr. | 2 |
| | | |
| | | |
| max | | 12 |
| | | |
| min | | 0.75 |
| max | mm ² | 2.5 |
| | • | |
| | | 1.5 |
| max | mm ² | 2.5 |
| | 2 | |
| | | 1.5 |
| max | mm² | 2.5 |
| | | IP20 when |
| | | properly wired |
| | | |
| normal | | Vertical plan |
| | | ±30° |
| allowable | | Screw / DIN rail |
| | | 35mm |
| | a | 177 |
| | | |
| | | |
| max | | 12 |
| 111001 | | |
| | | |
| | Α | 10 |
| | Α | |
| | A | 10 A600 - Q600 |
| 230V | A A | |
| 230V 400V | | A600 - Q600 |
| | A | A600 - Q600 3 |
| 400V | A A | A600 - Q600 3 1.9 |
| 400V | A A | A600 - Q600 3 1.9 |
| 400V 500V | A A A | A600 - Q600 3 1.9 1.4 |
| 400V 500V | A A A | A600 - Q600 3 1.9 1.4 |
| 400V 500V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| 400V 500V 110V 24V | A A A | A600 - Q600 3 1.9 1.4 2.9 |
| 400V 500V 110V 24V 48V | A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 |
| 400V 500V 110V 24V 48V 60V 110V 125V | A A A A A | A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 |
| 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 0.55 0.3 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | 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 |
| 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 |
| 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | 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 |
| 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V | 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 |
| | max min | max min mm² max mm² min mm² max mm² min mm² max mm² min mm² max mm² g |





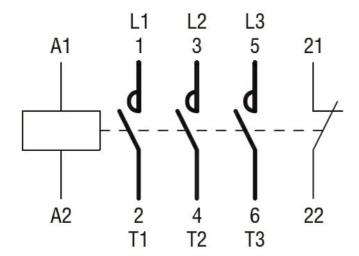
| Rated AC voltage at | 60Hz | | V | 575 |
|---|---------------------------------|---------|-----------|------|
| AC operating voltage | | | | |
| | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | | min | %Us | 75 |
| | drap out | max | %Us | 115 |
| | drop-out | min | %Us | 20 |
| | | max | %Us | 55 |
| AC average coil con | sumption at 20°C | max | 7003 | |
| .c areage com com | of 50/60Hz coil powered at 50Hz | | | |
| | от солости ретого и сотти | 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 | | 3.74 | 20 |
| | | in-rush | VA VA | 30 |
| Dissipation at holdin | n <20°C 50Hz | holding | VA W | 0.95 |
| Dissipation at holdin Max cycles frequence | _ | | VV | ບ.ສວ |
| Mechanical operation | • | | cycles/h | 3600 |
| Operating times | | | Oyolco/11 | 0000 |
| Average time for Us | control | | | |
| Ü | in AC | | | |
| | Closing NO | | | |
| | | min | ms | 12 |
| | | max | ms | 21 |
| | Opening NO | | | |
| | | min | ms | 9 |
| | Clasina NC | max | ms | 18 |
| | Closing NC | min | ms | 17 |
| | | max | ms | 26 |
| | Opening NC | Пах | 1110 | 20 |
| | oponing ito | min | ms | 7 |
| | | max | ms | 17 |
| | in DC | | | |
| | Closing NO | | | |
| | | min | ms | 18 |
| | | max | ms | 25 |
| | Opening NO | | | 0 |
| | | min | ms | 2 |
| | Closing NC | max | ms | 3 |
| | Closing NC | min | ms | 3 |
| | | max | ms | 5 |
| | Opening NC | IIIdA | 1113 | • |
| | Sp39 110 | min | ms | 11 |
| | | max | ms | 17 |
| UL technical data | | | | |
| Full-load current (FL | A) for three-phase AC motor | | | |
| | | at 480V | Α | 7.6 |
| | | at 600V | Α | 6.1 |



| Contactor High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse class J Standard fault Short circuit current Fuse rating A 30 Fuse class J Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions Emperature Operating temperature Operating temperature Storage temperature Min °C -50 max °C +70 Storage temperature Min °C -60 max °C +80 max °C max °C +80 max °C | Vialdad | | | | |
|--|--------------------------|------------------------------|-----------------------|-----------|-------------|
| 110/120V | Y leided mechanical pe | | | | |
| 230V HP 1.5 | | tor single-phase AC motor | | | 0.5 |
| for three-phase AC motor 200/208V HP 3 460/480V HP 5 575/600V HP 5 Seneral USE Contactor AC current A 20 short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 30 contact rating of auxiliary contacts according to UL mblent conditions emperature Operating temperature Operating temperature Thin *C -50 max *C +70 Storage temperature min *C -60 max *C +80 fax altitude min *C - | | | | | |
| 200/208V HP 2 220/230V HP 3 480/480V HP 5 575/600V HP 5 | | | 230V | HP | 1.5 |
| 220/230V | | for three-phase AC motor | | | |
| A60/480V | | | 200/208V | HP | 2 |
| Seneral USE Contactor AC current A 20 | | | 220/230V | HP | 3 |
| Contactor AC current A 20 Short-circuit protection fuse, 600V High fault Short circuit current Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary contacts according to UL Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 A600 - Q600 Indient conditions Contact rating of auxiliary and a 30 Indient conditions Contact rating of auxiliary and a 30 Indient conditions Contact rating of auxiliary and a 30 Indient conditions Contact rating of auxiliary and a 30 Indient conditions Contact ratin | | | 460/480V | HP | 5 |
| Contactor High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse class J Standard fault Short circuit current Fuse rating A 30 Fuse class J Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions Emperature Operating temperature Operating temperature Storage temperature Min °C -50 max °C +70 Storage temperature Min °C -60 max °C +80 max °C max °C +80 max °C | | | 575/600V | HP | 5 |
| AC current A 20 whort-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL mbient conditions emperature Operating temperature Min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude max °C +80 Max altitude Storage temperature Max altitude Max | General USE | | | | |
| AC current A 20 whort-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL mbient conditions emperature Operating temperature Min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude max °C +80 Max altitude Storage temperature Max altitude Max | | Contactor | | | |
| Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 30 Contact rating of auxiliary contacts according to UL Imbient conditions emperature Operating temperature Operating temperature Min °C -50 max °C +70 Storage temperature Max altitude m 3000 desistance & Protection Fuse rating A 30 A600 - Q600 Max altitude min °C -60 max °C +80 Max altitude m 3000 desistance & Protection Fuse rating A 30 A600 - Q600 A | | | AC current | Α | 20 |
| High fault Short circuit current KA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current KA 5 Fuse rating A 30 Fuse ratin | Short-circuit protection | n fuse 600V | , | | |
| Short circuit current kA 100 Fuse rating A 30 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 30 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 30 Contact rating of auxiliary contacts according to UL Imbient conditions Emperature Operating temperature Operating temperature Min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Axa altitude Exercise Protection Follution degree Total Contact rating of auxiliary contacts according to UL Imbient conditions The storage temperature of the storage of the stora | Short direatt protection | | | | |
| Standard fault Short circuit current kA 5 Fuse rating A 30 Fuse rating A 30 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 30 Fuse rat | | i ligit lault | Short circuit current | L۸ | 100 |
| Standard fault Short circuit current kA 5 Fuse rating A 30 Contact rating of auxiliary contacts according to UL mblent conditions remperature Operating temperature Min °C -50 max °C +70 Storage temperature Max altitude min °C -60 max °C +80 Max altitude min °C -60 Max of the conditions of t | | | | | |
| Standard fault Short circuit current Fuse rating A 30 Contact rating of auxiliary contacts according to UL Machine Indicate Ind | | | _ | A | |
| Short circuit current KA 5 Fuse rating A 30 contact rating of auxiliary contacts according to UL mbient conditions remperature Operating temperature Min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 As altitude max °C +80 As altitude max °C +80 Cesistance & Protection Follution degree 3 Fuse rating A 30 According to UL mbient conditions The protection of the pr | | 01 | Fuse class | | J |
| Contact rating of auxiliary contacts according to UL mbient conditions emperature Operating temperature Min °C -50 max °C +70 Storage temperature Min °C -60 max °C +80 As altitude Max altitude Collution degree Soliution | | Standard fault | | | _ |
| Contact rating of auxiliary contacts according to UL Imbient conditions Temperature Operating temperature Operating temperature Imin °C -50 Imax °C +70 Storage temperature Imin °C -60 Imax °C +80 Imax °C + | | | | | |
| Operating temperature Operating temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 At a altitude min °C -60 max °C +80 At a lititude cesistance & Protection collution degree 3 Dimensions Output Add (1.73) Ou | | | Fuse rating | A | |
| Operating temperature Min | | ary contacts according to UL | | | A600 - Q600 |
| Operating temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Ax altitude m 3000 Resistance & Protection collution degree 3 Dimensions 144 173 1017 1017 1017 1017 1017 1017 1017 | | | | | |
| min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Cesistance & Protection Collution degree 3 College 3 Co | Temperature | | | | |
| Max o C +70 Storage temperature min o C -60 max o C +80 Max altitude m 3000 Cesistance & Protection Collution degree 3 Collution degree | | Operating temperature | | | |
| Storage temperature min | | | min | °C | -50 |
| min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3 Simensions 144 0.17 0.17 0.33 0.34 0.35 0. | | | max | °C | +70 |
| min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Pollution degree 3 Simensions 144 0.17 0.17 0.33 0.34 0.35 0. | | Storage temperature | | | |
| Max altitude m 3000 Resistance & Protection collution degree 3 collutions 44 (1.73") (0.33") | | · · | min | °C | -60 |
| Max altitude m 3000 Resistance & Protection Collution degree 3 Collution s A4.4 | | | | | |
| Resistance & Protection collution degree 3 3 44 1,73" 9,7 1,34,9 9,7 1,37" 1,37" 3,2 1,37" 1,37 | Max altitude | | | | |
| Vollution degree Dimensions 3 4.4 (1.73") (0.33") (0.33") (0.33") (0.33") 3 3 (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") | | nn - | | | |
| Dimensions 4.4 (1.73") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") | | 511 | | | 3 |
| 4.4 (1.73") (2.24") (2.24") (2.33") (3.33") (0 | | | | | 3 |
| 4.4 (2.24") (2.24") (3.33") (0.33") | | | | | |
| (0.33°) (1.73°) (3.51°) | 4.4 (0.17") | 24.9 | 3.2 (0.12° | (2.28") 5 | RF9 |
| Viring diagrams | | | (1.73") | 8 | (3.51") |
| | Wiring diagrams | | | | |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 575VAC, 1NC AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching