



| Product type designation | Product designation | | | Auxiliary contactor |
|--|---|--------------------|----|---------------------|
| Number of poles | ,, <u> </u> | | | BG12 |
| Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 imax Hz 400 Hz 400 IEC Conventional free air thermal current Ith A 20 20 Operational current le AC-1 (≤40°C) A 18 AC-1 (55°C) A 18 AC-1 (570°C) A 15 AC-1 (570°C) A 15 AC-3 (5440V ≤5°C) A 12 AC-4 (400V) A 4.8 AC-4 (400V) KW 5.5 500V kW 5.5 500V kW 5.5 500V kW 5.5 500V kW 5.6 690V kW 1.4 40V 4.0 4.0 4.0 4.0 <td></td> <td></td> <td></td> <td></td> | | | | |
| Rated impulse withstand voltage Uimp | - | | | |
| Department Frequency Min Hz 25 max Hz 400 EC Conventional free air thermal current lth | | | | |
| Process | | | kV | 6 |
| EC Conventional free air thermal current Ith | Operational frequency | | | |
| EC Conventional free air thermal current Ith | | min | Hz | 25 |
| Operational current le AC-1 (≤40°C) A 20 AC-1 (≤55°C) A 18 AC-1 (≤70°C) A 15 AC-3 (≤440V ≤55°C) A 12 AC-4 (400V) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V | | max | | 400 |
| AC-1 (≤40°C) | IEC Conventional free air thermal current Ith | | Α | 20 |
| AC-1 (≤55°C) | Operational current le | | | |
| AC-1 (≤70°C) A 15 AC-3 (≤440V ≤55°C) A 12 AC-4 (400V) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V kW 6.2 4440V kW 5.5 500V kW 5.5 500V kW 5.6 690V kW 5.6 690V kW 5.7 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 14 500V kW 16 699V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 4 1110V A 3 220V A 7 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 16 75V A 9 1110V A 8 220V A 7 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | AC-1 (≤40°C) | Α | 20 |
| AC-3 (≤440V ≤55°C) A 12 AC-4 (400V) A 4.8 Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V kW 6.2 440V kW 5.5 500V kW 5. 690V kW 5. Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | Α | 18 |
| AC-4 (400V) | | | Α | |
| Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V kW 6.2 4440V kW 5.5 500V kW 5 690V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 15 48V A 15 48V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | AC-3 (≤440V ≤55°C) | Α | 12 |
| 230V kW 3.2 400V kW 5.7 415V kW 6.2 440V kW 5.5 500V kW 5.5 500V kW 5 500V kW 14 500V kW 14 500V kW 16 690V kW 22 500V kW 22 500V | | AC-4 (400V) | Α | 4.8 |
| 400V | Rated operational power AC-3 (T≤55°C) | | | |
| A15V | | 230V | kW | 3.2 |
| A440V kW 5.5 500V kW 5 690V kW 14 600V kW 14 600V kW 22 600V 600V | | 400V | kW | 5.7 |
| Soov kW 5 | | 415V | kW | 6.2 |
| Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22 | | 440V | kW | 5.5 |
| 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 A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - | | 500V | kW | 5 |
| | | 690V | kW | 5 |
| A00V kW 14 500V kW 16 690V kW 22 | Rated operational power AC-1 (T≤40°C) | | | _ |
| Soov kW 16 690V kW 22 | | 230V | kW | 8 |
| EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V | | 400V | kW | 14 |
| EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V | | 500V | kW | 16 |
| | | 690V | kW | 22 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| T5V | | ≤24V | Α | 12 |
| 110V A 3 220V A - | | 48V | Α | 10 |
| EC max current le in DC1 with L/R \leq 1ms with 2 poles in series \leq 24V A 15 48V A 14 75V A 9 110V A 8 220V A - | | 75V | Α | 4 |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V | | 110V | Α | 3 |
| | | 220V | Α | |
| | IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | | ≤24V | Α | 15 |
| | | 48V | Α | 14 |
| EC max current le in DC1 with L/R \leq 1ms with 3 poles in series \leq 24V | | 75V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A 16 75V A 10 | | 110V | Α | 8 |
| ≤24V A 16 48V A 16 75V A 10 | | 220V | Α | |
| 48V A 16 75V A 10 | IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| 75V A 10 | | ≤24V | Α | 16 |
| | | 48V | Α | 16 |
| 110V A 10 | | 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 | _ |
| | 48V | A | _ |
| | 75V | A | _ |
| | 110V | A | _ |
| | | | _ |
| | 220V | Α | |
| 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 | | | |
| The max sarront to in 200 200 with 210 = 10mb with 2 polos in conto | ≤24V | Α | 8 |
| | 48V | A | |
| | | | 8 |
| | 75V | A | 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 | Α | 6 |
| | 110V | Α | 5 |
| | 220V | A | 0,8 |
| IEC may current to in DC2 DC5 with L/D < 15mg with 4 poles in corios | 220 V | | 0,0 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | 2041 / | ^ | |
| | ≤24V | A | _ |
| | 48V | Α | _ |
| | 75V | Α | _ |
| | 110V | Α | _ |
| | 220V | Α | _ |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 16 |
| Making capacity (RMS value) | aw (ILO) | A | 120 |
| | | | 120 |
| Breaking capacity at voltage | · | _ | |
| | 440V | Α | 96 |
| | 500V | Α | 72 |
| | 690V | Α | 72 |
| Resistance per pole (average value) | | mΩ | 10 |
| Power dissipation per pole (average value) | | | |
| , | Ith | W | 4 |
| | AC-3 | W | 1.4 |
| Tightening torque for terminals | ,,,,, | • • • | ••• |
| rightoning torque for terminals | :- | Nima | 0.0 |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | Ibin | 9 |
| | max | lbin | 9 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 0.8 |
| | max | Nm | 1 |
| | min | lbin | 9 |
| | | | - |



| | | max | Ibin | 9 |
|-------------------------|---|-----------------|--------|------------------|
| Max number of wires | simultaneously connectable | | Nr. | 2 |
| Conductor section | · | | | , |
| | AWG/Kcmil | | | |
| | | max | | 12 |
| | Flexible w/o lug conductor section | | | |
| | Ç | min | mm² | 0.8 |
| | | 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 |) | | |
| | . 0 | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Power terminal protect | ction according to IEC/EN 60529 | | | IP20 |
| Mechanical features | ů | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Eiving | | | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | g | 200 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact chara | acteristics | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | signation | | | A600 |
| Operating current AC | 15 | | | |
| | | 230V | Α | 3 |
| | | 400V | Α | 1.9 |
| | | 500V | Α | 1.4 |
| Operating current DC | 12 | | | |
| | | 110V | Α | 2.9 |
| Operating current DC | 13 | | | |
| | | 24V | Α | 2.9 |
| | | 48V | Α | 1.4 |
| | | 60V | Α | 1.2 |
| | | 110V | Α | 0.6 |
| | | 125V | Α | 0.55 |
| | | 220V | Α | 0.3 |
| | | 600V | Α | 0.1 |
| Operations | | | | |
| Mechanical life | | | cycles | 20000000 |
| Electrical life | | | cycles | 500000 |
| Safety related data | | | | |
| Performance level B1 | 0d according to EN/ISO 13489-1 | | | |
| | | rated load | cycles | 500000 |
| | r | mechanical load | cycles | 20000000 |
| Mirror contats accordi | ng to IEC/EN 609474-4-1 | | - | YES |
| EMC compatibility | | | | YES |
| AC coil operating | | | | |
| Rated AC voltage at 6 | 0Hz | | V | 230 |
| | | | | |



| AC operating voltage | | | | | |
|---------------------------------------|------------------------|----------------|----------|---------------|------|
| to operating voltage | of 60Hz coil pow | ered at 60Hz | | | |
| | | pick-up | | | |
| | | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | | drop-out | | | |
| | | • | min | %Us | 20 |
| | | | max | %Us | 55 |
| C average coil consu | ımption at 20°C | | | | |
| | of 50/60Hz coil p | owered 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 | | | |
| | | | in-rush | VA | 30 |
| | | | holding | VA | 4 |
| issipation at holding | ≤20°C 50Hz | | | W | 0.9 |
| Max cycles frequency | | | | | |
| lechanical operation | | | | cycles/h | 3600 |
| perating times | | | | | |
| verage time for Us co | | | | | |
| | in AC | Olaska NO | | | |
| | | Closing NO | | | 40 |
| | | | min | ms | 12 |
| | | Ossailas NO | max | ms | 21 |
| | | Opening NO | | | 0 |
| | | | min | ms | 9 |
| | | Clasing NC | max | ms | 18 |
| | | Closing NC | min | . | 17 |
| | | | min | ms | 17 |
| | | Opening NC | max | ms | 26 |
| | | Opening NC | min | ma | 7 |
| | | | min | ms | 7 |
| | in DC | | max | ms | 17 |
| | ווו טכ | Closing NO | | | |
| | | Closing NO | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NO | IIIaX | 1113 | 20 |
| | | Oponing NO | min | ms | 2 |
| | | | max | ms | 3 |
| | | Closing NC | шах | 1110 | 5 |
| | | Closing NO | min | ms | 3 |
| | | | max | ms | 5 |
| | | Opening NC | max | 1110 | Ü |
| | | oponing 110 | min | ms | 11 |
| | | | max | ms | 17 |
| JL technical data | | | max | 1113 | 17 |
| ull-load current (FLA) | for three-phase A | C motor | | | |
| an ivaa varielli ii LA | i ioi iiiiee-piiase Ai | o motor | at 480V | Α | 11 |
| · · · · · · · · · · · · · · · · · · · | | | at 400 V | $\overline{}$ | 1.1 |
| (= 7 | | | at 600V | Α | 11 |

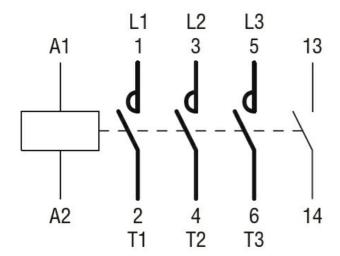




| | for single-phase AC motor | | | | |
|--------------------------|-------------------------------|-----------------------|----|-------------|--|
| | 3 1 7 | 110/120V | HP | 0.5 | |
| | | 230V | HP | 1.5 | |
| | for three-phase AC motor | | | | |
| | · | 200/208V | HP | 3 | |
| | | 220/230V | HP | 3 | |
| | | 460/480V | HP | 7.5 | |
| | | 575/600V | HP | 10 | |
| General USE | | | | | |
| | Contactor | | | | |
| | | AC current | Α | 20 | |
| Short-circuit protection | n fuse, 600V | | | | |
| • | High fault | | | | |
| | 3 | Short circuit current | kA | 100 | |
| | | Fuse rating | Α | 30 | |
| | | Fuse class | | J | |
| | Standard fault | | | | |
| | | Short circuit current | kA | 5 | |
| | | Fuse rating | Α | 30 | |
| | | Fuse class | | RK5 | |
| Contact rating of auxili | iary contacts according to UL | | | A600 - Q600 | |
| Ambient conditions | , | | | | |
| Temperature | | | | | |
| • | Operating temperature | | | | |
| | 3 1 1 1 1 | min | °C | -50 | |
| | | max | °C | +70 | |
| | Storage temperature | | | | |
| | 100 | min | °C | -60 | |
| | | max | °C | +80 | |
| Max altitude | | | m | 3000 | |
| Resistance & Protecti | on | | | | |
| Pollution degree | - | | | 3 | |
| Dimensions | | | | | |
| | | | | | |
| 44 (0.17") | | | | | |
| Wiring diagrams | | | | | |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 230VAC, 1NO AUXILIARY CONTACT



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching