



| Product designation | | | Auxiliary |
|--|------------------------------|------|-------------|
| • | | | contactor |
| Product type designation Contact characteristics | | | BG12 |
| | | Nr. | 3 |
| Number of poles Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated insulation voltage of IEC/EN Rated impulse withstand voltage Uimp | | kV | 6 |
| Operational frequency | | KV | 0 |
| Operational frequency | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | Παλ | A | 20 |
| Operational current le | | | |
| Operational current le | AC-1 (≤40°C) | Α | 20 |
| | AC-1 (≤55°C) | A | 18 |
| | AC-1 (≤33°C) 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) | 70 4 (4007) | | |
| rated operational power 7.0 0 (1=00 0) | 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) | 000 V | 1000 | |
| Nation operational power AO-1 (1=40 O) | 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 | | | |
| 120 max carrent to in 201 mar 27x = time mar 1 polec in conce | ≤24V | Α | 12 |
| | 48V | Α | 10 |
| | 75V | Α | 4 |
| | 110V | A | 3 |
| | 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 | A | 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 | _ |
| | 48V | Α | _ |
| | 75V | Α | _ |
| | 110V | Α | _ |
| | 220V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | 2201 | | |
| 120 max carrone to in 200 200 mar 2/10 = 10 mo mar 1 poloco in conco | ≤24V | Α | 7 |
| | 48V | A | 6 |
| | 75V | A | 2 |
| | 110V | A | 1 |
| | 220V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | 220 V | ^ | |
| TEC max current le in DC3-DC5 with L/R \(\) 15ms with 2 poles in series | <04)/ | ۸ | 0 |
| | ≤24V | A | 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 | Α | 0,8 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | ≤24V | Α | _ |
| | 48V | Α | _ |
| | 75V | Α | _ |
| | 110V | Α | _ |
| | 220V | Α | _ |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 96 |
| Protection fuse | | | |
| | gG (IEC) | Α | 20 |
| | aM (IEC) | Α | 16 |
| Making capacity (RMS value) | (==) | Α | 120 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 96 |
| | 500V | A | 72 |
| | 690V | A | 72 |
| Pasiatanas par pala (avaraga valua) | 090 V | mΩ | 10 |
| Resistance per pole (average value) | | 11177 | 10 |
| Power dissipation per pole (average value) | 141 | 147 | 4 |
| | Ith | W | 4 |
| | AC-3 | W | 1.4 |
| 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 |
| | | | |



| | | 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 | 0.8 |
| | | max | mm² | 2.5 |
| | Flexible c/w lug conductor section | | 2 | 4 = |
| | | min | mm² | 1.5 |
| | Florible with insulated anade lug conductor acction | max | mm² | 2.5 |
| | Flexible with insulated spade lug conductor section | min | mm² | 1.5 |
| | | max | mm² | 2.5 |
| Power terminal protec | ction according to IEC/EN 60529 | IIIdA | 111111 | IP20 |
| Mechanical features | Stion according to IEG/EN 00329 | | | 11 20 |
| Operating position | | | | |
| - Poraming Poolition | | normal | | Vertical plan |
| | | allowable | | ±30° |
| Finds a | | 22 // 3 | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | g | 200 |
| Conductor section | | | | |
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact char | acteristics | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 de | | | | Q600 |
| Operating current AC | 15 | | | |
| | | 230V | Α | 3 |
| | | 400V | A | 1.9 |
| O | 40 | 500V | Α | 1.4 |
| Operating current DC | 12 | 4401/ | ۸ | 0.0 |
| On a ratio a average DO | 40 | 110V | A | 2.9 |
| Operating current DC | 13 | 24V | ۸ | 2.9 |
| | | 48V | A A | 1.4 |
| | | 60V | A | 1.4 |
| | | 110V | A | 0.6 |
| | | 125V | A | 0.55 |
| | | 220V | A | 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 |
| | | mechanical load | cycles | 20000000 |
| | ing to IFC/FN 609474-4-1 | | | YES |
| | g to 120,211 000 17 1 1 | | | |
| Mirror contats accord EMC compatibility | | | | YES |
| | | | V | YES 125 |



| DC operating voltage | | | | | |
|-------------------------|------------------|--------------|----------------------|----------|-----------|
| | pick-up | | | | |
| | | | min | %Us | 75 |
| | | | max | %Us | 115 |
| | drop-out | | | | |
| | | | min | %Us | 10 |
| | | | max | %Us | 25 |
| Average coil consump | tion ≤20°C | | | | |
| | | | in-rush | W | 3.2 |
| | | | holding | W | 3.2 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | | |
| Average time for Us co | | | | | |
| | in AC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 12 |
| | | | max | ms | 21 |
| | | Opening NO | | | |
| | | | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | | | |
| | | | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | | | |
| | | | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NO | | | |
| | | | min | ms | 2 |
| | | OL : NO | max | ms | 3 |
| | | Closing NC | | | • |
| | | | min | ms | 3 |
| | | On anima NO | max | ms | 5 |
| | | Opening NC | | | 11 |
| | | | min | ms | 11 |
| JL technical data | | | max | ms | 17 |
| | for three phase | AC motor | | | |
| Full-load current (FLA) | nor unee-phase i | AO MOIOI | ot 400\/ | ۸ | 11 |
| | | | at 480V | A | 11 |
| Violded machanical as | orformana | | at 600V | A | 11 |
| Yielded mechanical pe | | ο ΛC motor | | | |
| | for single-phase | E AC IIIOIOI | 110/120V | ПD | 0.5 |
| | | | 110/120V 230V | HP HP | 0.5 |
| | for three share | AC motor | 23UV | пР | 1.5 |
| | for three-phase | AC IIIOIOI | 200/2001 | ПD | 2 |
| | | | 200/208V 220/230V | HP HP | 3 |
| | | | 220/230V 460/480V | HP HP | 3 7.5 |
| | | | 575/600V | HP | 7.5 10 |
| | | | 373/0000 | 1.115 | 10 |



| | Contactor | | | | | | |
|---|---------------------------------------|-------------------------------|--------|---|---------|-----------------|-----------------|
| | | | | AC current | Α | 20 | |
| Short-circuit protect | | • | | | | | |
| | High fault | | | | | | |
| | | | | Short circuit current | kA | 100 | |
| | | | | Fuse rating | Α | 30 | |
| | | | | Fuse class | | J | |
| | Standard | ault | | 0 | | _ | |
| | | | | Short circuit current | kA | 5 | |
| | | | | Fuse rating | Α | 30 | |
| Contact rating of au | viliam (aantaata | according to | I II | Fuse class | | RK5 | 0600 |
| Contact rating of au Ambient conditions | | according to | UL | | | Abuu | - Q600 |
| | | | | | | | |
| Temperature | Operation | temperature | | | | | |
| | Operating | temperature | | min | °C | -50 | |
| | | | | max | °C | +70 | |
| | Storage te | emperature | | max | | 170 | |
| | Otorage to | imperature | | min | °C | -60 | |
| | | | | max | °C | +80 | |
| Max altitude | | | | | m | 3000 | |
| Resistance & Prote | ction | | | | | | |
| Pollution degree | | | | | | 3 | |
| Dimensions | | | | | | | |
| 4.4 (0.17") (0.1 (0.17") (0.17") (0.38") (0.38") (0.38") (0.33") Wiring diagrams | 34.9 | (2.24") (2.88 Z) (82 Z) | | 44 (1.73") (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") | (2.28") | 89.2 (3.51") | -7.6 (0.30") |
| Training diagrams | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | |
| A1 | L1 L2 1 3 | | 13 | | | | |

Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



ENERGY AND AUTOMATION

11BG1210D125

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 125VDC, 1NO AUXILIARY CONTACT

| | IEC/EN 60947-1 |
|--------------|------------------|
| | IEC/EN 60947-4-1 |
| | UL 60947-1 |
| | UL 60947-4-1 |
| Certificates | |
| | CCC |
| | cULus |
| | EAC |

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching