



| 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                              | max                | A     | 20              |
| Operational current le   |                    |       | 20              |
|  | AC-1 (=40°C)       | А     | 20              |
|  | AC-3 (=440V =55°C) | A     | 9               |
|  | AC-4 (400V)        | A     | 4               |
| Rated operational power AC-3 (T=55°C)                                      |                    | ~     | - <b>T</b>      |
|  | 230V               | kW    | 2.2             |
|  | 400V               | kW    | 4               |
|  | 400V<br>415V       | kW    | 4.3             |
|  | 413V<br>440V       | kW    | 4.5             |
|  | 500V               | kW    | 5               |
|  | 690V               | kW    | 5               |
| Rated operational power AC-1 (T=40°C)                                      | 030 v              | K V V | 5               |
|  | 230V               | kW    | 8               |
|  | 400V               | kW    | 14              |
|  | 400V<br>500V       | kW    | 16              |
|  | 690V               | kW    | 22              |
| IEC max current le in DC1 with L/R = 1ms with 1 poles in series            | 0001               |       |                 |
| ILO max current le in DOT with DIX – This with I poles in series           | =24V               | А     | 12              |
|  | _24V<br>48V        | A     | 10              |
|  | 48V<br>75V         | A     | 4               |
|  | 110V               | A     | 3               |
|  | 220V               | A     | 5               |
| IEC max current le in DC1 with L/R = 1ms with 2 poles in series            | 2201               | Λ     |                 |
|  | =24V               | А     | 15              |
|  | =24 V<br>48 V      | A     | 14              |
|  | 48V<br>75V         | A     |                 |
|  | 110V               | A     | 9<br>8          |
|  | 220V               | A     | 0               |
| IEC max current le in DC1 with L/R = 1ms with 3 poles in series            | 2200               | A     | -               |
| The max current le in DOT with $D/R = 1 \text{ ms}$ with 3 poles in series | 0414               | ۸     | 16              |
|  | =24V               | A     | 16              |
|  | 48V<br>75V         | A     | 16<br>10        |
|  | 75V<br>110V        | A     | 10              |
|  | 220V               | A     | 10              |
|  | 2200               | A     | 2               |

## IEC max current le in DC1 with L/R = 1ms with 4 poles in series



**11BG0901A02460** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 24VAC, 1NC AUXILIARY CONTACT

| =24V                                   | А  | 16  |
|--|--|---|
| 48V                                    | А  | 16  |
| 75V                                    | А  | 10  |
| 110V                                   | А  | 10  |
| 220V                                   | А  | 2   |
|  |  |   |
| =24V                                   | А  | 7   |
| 48V                                    | А  | 6   |
| 75V                                    | А  | 2   |
| 110V                                   | А  | 1   |
| 220V                                   | А  | -   |
|  |  |   |
| =24V                                   | А  | 8   |
| 48V                                    | А  | 8   |
| 75V                                    | А  | 5   |
| 110V                                   | А  | 4   |
| 220V                                   | Α  | -   |
|  |  |   |
| =24V                                   | А  | 10  |
| 48V                                    | А  | 10  |
| 75V                                    | А  | 6   |
| 110V                                   | А  | 5   |
| 220V                                   | Α  | 0,8   |
|  |  |   |
| =24V                                   | А  | 10  |
| 48V                                    | А  | 10  |
| 75V                                    | А  | 6   |
| 110V                                   | А  | 5   |
| 220V                                   | Α  | 0,8   |
|  | Α  | 96  |
|  |  |   |
| gG (IEC)                               | А  | 20  |
| aM (IEC)                               | Α  | 10  |
|  | Α  | 92  |
|  |  |   |
|  | А  | 72  |
|  | А  | 72  |
| 690V                                   |  | 72  |
|  | m?   | 10  |
|  |  |   |
|  |  | 4   |
| AC3                                    | W  | 0.81  |
|  |  |   |
| _                                      |  |   |
| min                                    | Nm   | 0.8   |
| max                                    | Nm   | 1   |
| max<br>min                             | Nm<br>Ibin   | 1<br>9  |
| max                                    | Nm   | 1   |
| max<br>min<br>max                      | Nm<br>Ibin<br>Ibin   | 1<br>9<br>9   |
| max<br>min<br>max<br>min               | Nm<br>Ibin<br>Ibin<br>Nm   | 1<br>9<br>9<br>0.8  |
| max<br>min<br>max<br>min<br>max        | Nm<br>Ibin<br>Ibin<br>Nm<br>Nm   | 1<br>9<br>9<br>0.8<br>1   |
| max<br>min<br>max<br>min<br>max<br>min | Nm<br>Ibin<br>Ibin<br>Nm<br>Nm<br>Ibin   | 1<br>9<br>9<br>0.8<br>1<br>9  |
| max<br>min<br>max<br>min<br>max        | Nm<br>Ibin<br>Ibin<br>Nm<br>Nm   | 1<br>9<br>9<br>0.8<br>1   |
|  | 48V<br>75V<br>110V<br>220V<br>=24V<br>48V<br>75V<br>110V<br>220V<br>=24V<br>48V<br>75V<br>110V<br>220V<br>=24V<br>48V<br>75V<br>110V<br>220V<br>=24V<br>48V<br>75V<br>110V<br>220V<br>=24V<br>48V<br>75V<br>110V<br>220V | 48V       A         75V       A         110V       A         220V       A         =24V       A         48V       A         75V       A         110V       A         220V       A         110V       A         220V       A         =24V       A         48V       A         75V       A         110V       A         220V       A         =24V       A         48V       A         75V       A         110V       A         220V       A         =24V       A         48V       A         75V       A         110V       A         220V       A         =24V       A         48V       A         75V       A         110V       A         220V       A         48V       A         75V       A         110V       A         220V       A         A       A         300(IEC) |



Conductor section

| 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 | l               |        |                  |
|                         |   | min             | mm²    | 1.5              |
|                         |   | max             | mm²    | 2.5              |
| Power terminal protect  | ction according to IEC/EN 60529                     |                 |        | IP20 when wired  |
| Mechanical features     |   |                 |        |                  |
| Operating position      |   |                 |        |                  |
|                         |   | normal          |        | Vertical plan    |
|                         |   | allowable       |        | ±30°             |
|                         |   |                 |        | Screw / DIN rail |
| Fixing                  |   |                 |        | 35mm             |
| Weight                  |   |                 | g      | 180              |
| Conductor section       |   |                 | 3      |                  |
|                         | AWG/kcmil conductor section                         |                 |        |                  |
|                         |   | max             |        | 12               |
| Auxiliary contact chara | acteristics   | max             |        | 12               |
| Thermal current Ith     |   |                 | А      | 10               |
| IEC/EN 60947-5-1 de     | scienction  |                 | ~      | A600 - Q600      |
|                         |   |                 |        | A000 - Q000      |
| Operating current AC    | 15  | 2201/           | ^      | 0                |
|                         |   | 230V            | A      | 3                |
|                         |   | 400V            | A      | 1.9              |
|                         | 40  | 500V            | A      | 1.4              |
| Operating current DC    | 12  |                 | _      |                  |
|                         |   | 110V            | A      | 2.9              |
| Operating current DC    | 13  |                 |        |                  |
|                         |   | 24V             | A      | 2.9              |
|                         |   | 48V             | A      | 1.4              |
|                         |   | 60V             | A      | 1.2              |
|                         |   | 110V            | А      | 0.6              |
|                         |   | 125V            | А      | 0.55             |
|                         |   | 220V            | А      | 0.3              |
|                         |   | 600V            | А      | 0.1              |
| Operations              |   |                 |        |                  |
| Mechanical life         |   |                 | cycles | 2000000          |
| Electrical life         |   |                 | cycles | 500000           |
| Safety related data     |   |                 |        |                  |
| Performance level B1    | 0d according to EN/ISO 13489-1                      |                 |        |                  |
|                         |   | rated load      | cycles | 500000           |
|                         | r   | nechanical load | cycles | 2000000          |
| Mirror contats accordi  | ing to IEC/EN 609474-4-1                            |                 | •      | yes              |
| EMC compatibility       | ~   |                 |        | yes              |
| AC coil operating       |   |                 |        | ,                |
| Rated AC voltage at 6   | 60Hz  |                 | V      | 24               |
| AC operating voltage    |   |                 | v      | <b>—</b> T       |
| no operating voltage    | of COLLE and new area at COLLE                      |                 |        |                  |

## of 60Hz coil powered at 60Hz

11BG0901A02460



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 24VAC, 1NC AUXILIARY CONTACT

| min         %Us         75           drop-out         max         %Us         50           AC average coil consumption at 20°C         of 50/60Hz coil powered at 50Hz  |                          |                   | pick-up        |           |          |      |
|---|--------------------------|-------------------|----------------|-----------|----------|------|
| diop-out         min         %Us         20           AC average coil consumption at 20°C           of 50/60Hz coil powered at 60Hz         in-rush         VA         30           of 50/60Hz coil powered at 60Hz         in-rush         VA         30           of 60Hz coil powered at 60Hz         in-rush         VA         30           of 60Hz coil powered at 60Hz         in-rush         VA         30           Dissipation at holding =20°C 50Hz         W         0.96           Machanical operation         cyclesh         3600           Opening NO         min         ms         21           Opening NO         min         ms         21           Opening NO         min         ms         21           Opening NC         min         ms         25           Opening NC         min         ms         25 <th< td=""><td></td><td></td><td></td><td>min</td><td>%Us</td><td>75</td></th<>   |                          |                   |                | min       | %Us      | 75   |
| min         % Us         20<br>max           AC average coil consumption at 20°C<br>of 50/60Hz coil powered at 50Hz         in-rush<br>holding         VA         30<br>holding           4   |                          |                   |                | max       | %Us      | 115  |
| max         %Us         55           AC average coil consumption at 20°C<br>of 50/60Hz coil powered at 60Hz   |                          |                   | drop-out       |           |          |      |
| AC average coil consumption at 20°C<br>of 50/60Hz coil powered at 50Hz<br>of 50/60Hz coil powered at 60Hz<br>in-rush VA 25<br>holding VA 3<br>of 60Hz coil powered at 60Hz<br>in-rush VA 30<br>holding VA 3<br>of 60Hz coil powered at 60Hz<br>in-rush VA 30<br>holding VA 3<br>Dissipation at holding =20°C 50Hz<br>W 0.95<br>Max cycles frequency<br>W 0.95<br>Max cycles frequency<br>W 0.95<br>Max cycles frequency<br>Closing NO<br>min ms 12<br>max ms 21<br>Opening NO<br>min ms 17<br>max ms 26<br>Opening NC<br>min ms 17<br>max ms 26<br>Opening NC<br>min ms 17<br>max ms 25<br>Opening NO<br>min ms 18<br>max ms 25<br>Opening NO<br>min ms 3<br>T<br>in DC<br>Closing NO<br>min ms 18<br>max ms 25<br>Opening NO<br>min ms 3<br>T<br>in DC<br>Closing NC<br>min ms 18<br>max ms 3<br>Closing NC<br>min ms 17<br>max ms 25<br>Opening NC<br>min ms 18<br>max ms 3<br>T<br>U_technical data<br>Full-load current (FLA) for three-phase AC motor<br>T<br>Vielded mechanical performance<br>for single-phase AC motor  |                          |                   |                | min       |          |      |
| of 50/60Hz coil powered at 50Hz   |                          |                   |                | max       | %Us      | 55   |
| in-rush VA 30<br>holding VA 4<br>of 50/60Hz coil powered at 60Hz<br>in-rush VA 30<br>holding VA 30<br>holding VA 30<br>holding VA 30<br>holding VA 4<br>Dissipation at holding =20°C 50Hz<br>We 0.95<br>Max cycles frequency<br>Mechanical operation cycles/h 3600<br>Operating times<br>Average time for Us control<br>in AC<br>Closing NO<br>min ms 12<br>max ms 21<br>Opening NO<br>min ms 9<br>max ms 21<br>Opening NO<br>min ms 7<br>max ms 26<br>Opening NC<br>min ms 7<br>max ms 26<br>Opening NC<br>min ms 17<br>max ms 26<br>Opening NC<br>min ms 18<br>max ms 25<br>Opening NO<br>min ms 25<br>Opening NO<br>min ms 25<br>Opening NC<br>min ms 3<br>T<br>Closing NC<br>min ms 18<br>max ms 3<br>Closing NC<br>min ms 18<br>max ms 3<br>T<br>Closing NC<br>min ms 17<br>max ms 3<br>T<br>Closing NC<br>min ms 18<br>max ms 3<br>T<br>Closing NC<br>min ms 17<br>max ms 3<br>T<br>Closing NC<br>min ms 17<br>max ms 3<br>T<br>Closing NC<br>min ms 18<br>max ms 3<br>T<br>Closing NC<br>min ms 18<br>max ms 3<br>T<br>Closing NC<br>min ms 17<br>max ms 3<br>T<br>Closing NC<br>min ms 18<br>max ms 3<br>T<br>Closing NC<br>min ms 11<br>max ms 17<br>T<br>T<br>Ut technical data   | AC average coil consu    |                   |                |           |          |      |
| holding         VA         4           of 50/60Hz coil powered at 60Hz         in-rush<br>holding         VA         25<br>NA           of 60Hz coil powered at 60Hz         in-rush<br>holding         VA         30<br>NA           Dissipation at holding =20°C 50Hz         in-rush<br>holding         VA         30<br>NA           Dissipation at holding =20°C 50Hz         w         0.95           Max cycles frequency         v         0.95           Mechanical operation         cycles/h         3600           Operating turns         v         21           Average time for Us control<br>in AC         min         ms         12           Opening NO         min         ms         12           Opening NO         min         ms         17           Opening NC         min         ms         17           Opening NO         min         ms         17           In DC         Closing NO         min         ms         18           Opening NO         min         ms         3  |                          | of 50/60Hz coil p | owered at 50Hz |           |          |      |
| of 50/60Hz coil powered at 60Hz in-rush VA 25 holding VA 3  of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 4  Dissipation at holding =20°C 50Hz Max cycles frequency Mechanical operation cycles/h 3600 Operating times  Average time for Us control in AC Closing NO  min ms 12 max ms 21 Opening NO min ms 17 max ms 26 Opening NC min ms 17 max ms 26 Opening NO min ms 17 max ms 27 Opening NC min ms 17 max ms 26 Opening NC min ms 17 max ms 27 Opening NC min ms 17 max ms 26 Opening NO min ms 17 max ms 26 Opening NO min ms 17 max ms 27 Opening NO min ms 17 max ms 26 Opening NO min ms 17 max ms 3 T U technical data Full-load current (FLA) for three-phase AC motor Tylelded mechanical performance for single-phase AC motor  |                          |                   |                |           |          |      |
| in-rush VA 25<br>holding VA 3<br>of 60Hz coil powered at 60Hz<br>in-rush VA 30<br>holding VA 4<br>Dissipation at holding =20°C 50Hz<br>We 0.95<br>Max cycles frequency<br>Max cycles frequency<br>Max cycles frequency<br>Max cycles frequency<br>Max cycles frequency<br>Cosing NO<br>min ms 12<br>max ms 21<br>Opening NO<br>min ms 17<br>max ms 18<br>Closing NC<br>min ms 17<br>max ms 26<br>Opening NC<br>min ms 18<br>Closing NC<br>min ms 26<br>Opening NC<br>min ms 26<br>Opening NC<br>min ms 26<br>Opening NC<br>min ms 3<br>max ms 25<br>Opening NC<br>min ms 3<br>max ms 3<br>Closing NC<br>min ms 18<br>max ms 18<br>T<br>Dec<br>Closing NC<br>min ms 18<br>max ms 18<br>max ms 17<br>min ms 17<br>max ms 18<br>T<br>Dec<br>Closing NC<br>min ms 18<br>max ms 3<br>T<br>Dec<br>Closing NC<br>min ms 18<br>max ms 18<br>T<br>T<br>Mut echnical data<br>Full-load current (FLA) for three-phase AC motor   |                          |                   |                | noiding   | VA       | 4    |
| holding         VA         3           of 60Hz coil powered at 60Hz         in-rush holding         VA         30           holding         VA         4         0           Dissipation at holding =20°C 50Hz         W         0.95           Max cycles frequency         W         0.95           Mechanical operation         cycles/h         3600           Operating times         Closing NO         min         ms         12           Average time for US control         in AC         min         ms         21           Opening NO         min         ms         9         max         ms         21           Opening NO         min         ms         17         max         ms         18           Opening NC         min         ms         17         max         ms         17           in DC         Closing NO         min         ms         17         max         ms         18           Opening NO         min         ms         18         max         ms         15           Opening NO         min         ms         3         16         16           Opening NC         min         ms         3   |                          |                   |                | in ruch   | ١/٨      | 25   |
| of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 4 Dissipation at holding =20°C 50Hz W 0.95 Max cycles frequency Mechanical operation cycles/h 3600 Cperating times Average time for Us control 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 26 Opening NO min ms 17 max ms 25 Opening NO min ms 2 Closing NO min ms 3 max ms 3 Closing NC min ms 3 max ms 3 Closing NC min ms 11 max ms 5 Opening NC min ms 11 max ms 5 Closing NC min ms 11 max ms 17 max ms 17 max ms 17 Mu technical data Full-load current (FLA) for three-phase AC motor Teleded mechanical performance for single-phase AC motor  |                          |                   |                |           |          |      |
| in-rush VA 30<br>holding VA 4<br>Dissipation at holding =20°C 50Hz<br>Max cycles frequency<br>Mechanical operation cycles/h 3600<br>Operating times<br>Average time for Us control<br>in AC<br>Closing NO<br>Closing NO<br>Min ms 9<br>max ms 21<br>Opening NC<br>Min ms 17<br>max ms 26<br>Opening NC<br>Min ms 18<br>Closing NC<br>Min ms 7<br>max ms 26<br>Opening NC<br>Min ms 18<br>Closing NC<br>Min ms 18<br>Min ms 3<br>Closing NC<br>Min ms 3<br>Closing NC<br>Min ms 3<br>Closing NC<br>Min ms 3<br>Closing NC<br>Min ms 3<br>Min ms 3<br>Closing NC<br>Min ms 3<br>Min ms 3<br>Closing NC<br>Min ms 3<br>Min ms 4<br>Min ms 3<br>Closing NC<br>Min ms 3<br>Min ms 4<br>Min ms 4<br>Min ms 4<br>Min ms 4<br>Min ms 4<br>Min ms 7<br>Min ms 4<br>Min |                          | of 60Hz coil powe | ared at 60Hz   | Totaling  | ٧A       | 5    |
| holding VA 4<br>Dissipation at holding =20°C 50Hz W 0.95<br>Mechanical operation cycles/h 3600<br>Operating times<br>Average time for Us control<br>in AC<br>Closing NO<br>min ms 12<br>max ms 21<br>Opening NO<br>min ms 9<br>max ms 18<br>Closing NC<br>min ms 7<br>max ms 17<br>max ms 26<br>Opening NC<br>min ms 77<br>max ms 17<br>max ms 26<br>Opening NC<br>min ms 77<br>max ms 25<br>Opening NO<br>min ms 25<br>Opening NO<br>min ms 3<br>Closing NC<br>min ms 18<br>max ms 17<br>Tell-Ledad current (FLA) for three-phase AC motor  |                          |                   |                | in-rush   | \/Δ      | 30   |
| Dissipation at holding =20°C 50Hz W 0.95<br>Max cycles frequency<br>Mechanical operation cycles/h 3600<br>Operating times<br>Average time for Us control<br>in AC<br>Closing NO<br>min ms 12<br>max ms 21<br>Opening NO<br>min ms 9<br>max ms 18<br>Closing NC<br>min ms 7<br>max ms 26<br>Opening NC<br>min ms 7<br>max ms 25<br>Opening NO<br>min ms 2<br>max ms 33<br>Closing NC<br>min ms 3<br>max ms 33<br>Closing NC<br>min ms 3<br>max ms 33<br>Closing NC<br>min ms 18<br>max ms 17<br>max ms 18<br>max ms 17<br>Max ms 18<br>max ms 17<br>Max ms 17<br>max ms 18<br>max ms 17<br>Max ms 18<br>max ms 17<br>Max ms 18<br>max ms 17<br>Max ms 17<br>Max ms 18<br>max ms 17<br>Max ms 18<br>max ms 17<br>Max ms 10<br>max ms 11<br>max ms 17<br>Max Max 10<br>Max 10  |                          |                   |                |           |          |      |
| Max cycles frequency<br>Mechanical operating times<br>Average time for Us control<br>in AC<br>Closing NO<br>min ms 12<br>max ms 21<br>Opening NO<br>min ms 9<br>max ms 18<br>Closing NC<br>min ms 17<br>max ms 26<br>Opening NC<br>min ms 7<br>max ms 17<br>max ms 26<br>Opening NC<br>min ms 7<br>max ms 17<br>max ms 26<br>Opening NC<br>min ms 18<br>max ms 25<br>Opening NO<br>min ms 2<br>max ms 3<br>Closing NC<br>min ms 18<br>max ms 25<br>Opening NO<br>min ms 18<br>max ms 3<br>Closing NC<br>min ms 11<br>max ms 17<br>VI technical data<br>Full-load current (FLA) for three-phase AC motor<br>Full-load current of FLA for three-phase AC motor  | Dissipation at holding : | =20°C 50Hz        |                |           |          |      |
| Mechanical operation cycles/h 3600  Perating times  Average time for Us control 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 26  Opening NC min ms 7 max ms 17  in DC  Closing NO  min ms 18 max ms 25  Opening NO min ms 25  Opening NO min ms 25  Opening NO min ms 3 max ms 3  Closing NC min ms 18 max ms 3  Closing NC min ms 11 max ms 17  U technical data  Full-load current (FLA) for three-phase AC motor  Yielded mechanical performance for single-phase AC motor  |                          |                   |                |           |          |      |
| Operating times         Average time for Us control<br>in AC         Closing NO         Max       ms       12<br>max         Opening NO         min       ms       9<br>max         Closing NC       min       ms       17<br>max         Opening NC       min       ms       17<br>max         Opening NC       min       ms       17<br>max         In DC       min       ms       17<br>max         Opening NC       min       ms       17         In DC       Closing NO       min       ms       17         In DC       Closing NO       max       ms       18         Opening NO       min       ms       2       18         Opening NO       min       ms       18       18         Opening NO       min       ms       2       18         Opening NO       min       ms       2       18         Opening NC       min       ms       3       15         Opening NC       min       ms       3       18         Opening NC       min       ms       3       17         UL technical data       max       ms       17   |                          |                   |                |           | cycles/h | 3600 |
| Average time for Us control<br>in AC         Closing NO         min         ms         12           Opening NO         min         ms         21           Opening NO         min         ms         12           max         ms         12         max         ms         21           Opening NO         min         ms         18         max         ms         18           Closing NC         min         ms         17         max         ms         16           Opening NC         min         ms         7         max         ms         17           in DC         Closing NO         min         ms         17         max         ms         12           Opening NO         min         ms         18         max         ms         25           Opening NO         min         ms         25         max         ms         3           Closing NC         min         ms         3         3         1           Closing NC         min         ms         3         1           Opening NC         min         ms         3         1           Opening NC         min         ms         1   |                          |                   |                |           |          |      |
| Closing NO         min         ms         12           Opening NO         min         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         17           in DC         Closing NO         min         ms         12           Opening NO         min         ms         12           Max         ms         13         17           Opening NO         min         ms         25           Opening NO         min         ms         3           Max         ms         3         3           Closing NC         min         ms         3           Opening NC         min         ms         11           Max         ms         11         max         ms           Opening NC         min         ms         11           Max         <   |                          | ontrol            |                |           |          |      |
| Min       ms       12         Opening NO       min       ms       21         min       ms       9       max       ms       18         Closing NC       min       ms       26         Opening NC       min       ms       7         max       ms       26         Opening NC       min       ms       7         in DC       Closing NO       min       ms       17         in DC       Closing NO       min       ms       25         Opening NO       min       ms       25         Opening NO       min       ms       3         Closing NO       min       ms       3         Opening NO       min       ms       3         Opening NC       min       ms       3         Opening NC       min       ms       5         Opening NC       min       ms       5         Opening NC       min       ms       11         max       ms       5       1         Opening NC       min       ms       17         U       technical data       technical performance       teta600V       A  |                          |                   |                |           |          |      |
| Max         ms         21           Min         ms         9           Max         ms         18           Closing NC         min         ms         17           Opening NC         min         ms         7           Max         ms         17           Opening NC         min         ms         7           Max         ms         17           In DC         Closing NO         min         ms         12           Opening NO         max         ms         25           Opening NO         max         ms         25           Opening NO         min         ms         2           Opening NO         max         ms         2           Opening NC         min         ms         2           Opening NC         min         ms         3           Max         ms         5         1           Opening NC         min         ms         11           Max         ms         17         1           Ut technical data         ms         17         1           Full-load current (FLA) for three-phase AC motor         ms         16.1   |                          |                   | Closing NO     |           |          |      |
| 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         max         ms         17           in DC         Closing NO         max         ms         17           Opening NO         max         ms         17           Opening NO         max         ms         25           Opening NO         min         ms         2           Closing NO         min         ms         2           Opening NC         min         ms         3           Opening NC         min         ms         3           Opening NC         min         ms         3           Opening NC         min         ms         11           max         ms         17         11           UL technical data         ms         17         11           Full-load current (FLA) for three-phase AC motor         at 480V         A         7.6 <td></td> <td></td> <td></td> <td>min</td> <td>ms</td> <td>12</td>   |                          |                   |                | min       | ms       | 12   |
| min       ms       9         max       ms       18         Closing NC       min       ms       17         max       ms       7       18         Opening NC       min       ms       7         max       ms       17       17         in DC       Closing NO       min       ms       18         Opening NO       min       ms       18         Max       ms       25       18         Opening NO       min       ms       25         Opening NO       min       ms       3         Closing NC       min       ms       3         Opening NC       min       ms       11         Max       ms       17       17         UL technical data       min       ms       17         Full-load current (FLA) for three-phase AC motor       at 480V       A       7.6         at 600V       A       6.1       1         Yielded mechanical performance  |                          |                   |                | max       | ms       | 21   |
| Image: Closing NC         min         ms         18           Opening NC         min         ms         26           Opening NC         min         ms         26           in DC         Closing NO         min         ms         7           in DC         Closing NO         min         ms         17           Opening NO         min         ms         18           Opening NO         min         ms         25           Opening NO         min         ms         3           Closing NO         min         ms         3           Opening NC         min         ms         11           Max         ms         17         11           UL technical data         min         ms         11           Full-load current (FLA) for three-phase AC motor         at 480V         A         6.1           Yielded mechanical performance         for single-phase AC motor         at 480V         A         6.1  |                          |                   | Opening NO     |           |          |      |
| Closing NC         min         ms         17           Opening NC         max         ms         26           min         ms         7           max         ms         17           in DC         Closing NO         min         ms         17           DC         Closing NO         min         ms         18           Max         ms         25         0         max         ms         25           Opening NO         min         ms         2         max         ms         3           Closing NO         min         ms         2         max         ms         3           Opening NC         min         ms         3         max         ms         5           Opening NC         min         ms         3         max         ms         5           Opening NC         min         ms         11         max         ms         17           UL technical data         min         ms         11         max         ms         17           Full-load current (FLA) for three-phase AC motor         at 480V         A         7.6         at 600V         A         6.1           Y   |                          |                   |                |           |          |      |
| minms17<br>maxOpening NCminms7<br>maxin DCClosing NOminms18<br>maxClosing NOminms25<br>max25<br>maxOpening NOminms2<br>max3<br>maxClosing NCminms3<br>max3<br>maxOpening NCminms3<br>max3<br>maxUL technical dataminms11<br>max17VL technical datatat 480VA7.6<br>at 600VA6.1Yielded mechanical performance<br>for single-phase AC motorTielded mechanical performanceTielded mechanical performanceTielded mechanical performance  |                          |                   | aa             | max       | ms       | 18   |
| Max     ms     26       min     ms     7       max     ms     17       in DC     Closing NO     18       Min     ms     18       Max     ms     25       Opening NO     min     ms     25       Opening NO     min     ms     2       Max     ms     2       Opening NO     min     ms     3       Closing NC     min     ms     3       Opening NC     min     ms     3       Opening NC     min     ms     11       Max     ms     17       UL technical data     min     ms     17       Full-load current (FLA) for three-phase AC motor     at 480V     A     7.6       At 480V     A     7.6     6.1       Yielded mechanical performance     for single-phase AC motor     at 600V   |                          |                   | Closing NC     |           |          |      |
| Opening NCminms7maxms17in DCClosing NOminms18Closing NOminms25Opening NOminms2Maxms32Closing NCminms3Closing NCminms3Closing NCminms3Closing NCminms3Maxms50Opening NCminms11Maxms1711UL technical dataminms11Full-load current (FLA) for three-phase AC motorat 480VA7.6Yielded mechanical performance<br>for single-phase AC motorat 480VA7.6Yielded mechanical performance<br>for single-phase AC motorat 480VA7.6   |                          |                   |                |           |          |      |
| minms7<br>max7<br>msin DCClosing NOClosing NOminmsmaxms25<br>maxOpening NOminms0minms0minms0minms0minms0minms0minms0minms0minms0minms0minms17minms1711<br>maxms1711<br>maxms1711<br>maxms1711<br>maxms1711<br>maxms18<br>1911<br>maxms1911<br>maxms1011<br>maxms11<br>maxms11<br>max11<br>maxms11<br>max11<br>maxms11<br>max11<br>maxms11<br>max11<br>maxms11<br>max11<br>maxms11<br>max1211<br>max11<br>max1314<br>max11<br>max14140VA<br>m7.6<br>max141600VA<br>m6.1141600VA<br>m6.1  |                          |                   |                | max       | ms       | 26   |
| max         ms         17           in DC         Closing NO         min         ms         18           max         ms         25         0         max         ms         25           Opening NO         min         ms         2         max         ms         3           Closing NC         min         ms         3         10         max         ms         3           Opening NC         min         ms         3         11         max         ms         11           Max         ms         11         max         ms         17         11           UL technical data         min         ms         11         max         ms         17           VL technical data         max         ms         17         11         max         ms         17           VL technical data         max         ms         17         11         max         17           VL technical data         max         ms         17         11         max         13           Yielded mechanical performance         at 480V         A         7.6         1600V         A         6.1   |                          |                   | Opening NC     | min       | me       | 7    |
| in DC<br>Closing NO<br>min ms 18<br>max ms 25<br>Opening NO<br>min ms 2<br>max ms 3<br>Closing NC<br>min ms 3<br>max ms 5<br>Opening NC<br>min ms 11<br>max ms 17<br>UL technical data<br>Full-load current (FLA) for three-phase AC motor<br>Tielded mechanical performance<br>for single-phase AC motor   |                          |                   |                |           |          |      |
| Closing NO<br>min ms 18<br>max ms 25<br>Opening NO<br>min ms 2<br>max ms 3<br>Closing NC<br>Min ms 3<br>max ms 5<br>Opening NC<br>min ms 11<br>max ms 17<br><u>UL technical data</u><br>Full-load current (FLA) for three-phase AC motor<br>Full-load current (FLA) for three-phase AC motor<br>Yielded mechanical performance<br>for single-phase AC motor   |                          | in DC             |                | Шах       | 1113     | 17   |
| min ms 18<br>max ms 25<br>Opening NO<br>min ms 2<br>max ms 3<br>Closing NC<br>min ms 3<br>max ms 5<br>Opening NC<br>min ms 11<br>max ms 17<br>UL technical data<br>Full-load current (FLA) for three-phase AC motor<br>Tielded mechanical performance<br>for single-phase AC motor  |                          |                   | Closing NO     |           |          |      |
| maxms25Opening NOminms2maxms3Closing NCminms3maxms50Opening NCminms11maxms1717UL technical dataFull-load current (FLA) for three-phase AC motorat 480VA7.6Yielded mechanical performance<br>for single-phase AC motor   |                          |                   |                | min       | ms       | 18   |
| Opening NO<br>min ms 2<br>max ms 3<br>Closing NC<br>min ms 3<br>max ms 5<br>Opening NC<br>min ms 11<br>max ms 17<br>UL technical data<br>Full-load current (FLA) for three-phase AC motor<br>Full-load current (FLA) for three-phase AC motor<br>at 480V A 7.6<br>at 600V A 6.1<br>Yielded mechanical performance<br>for single-phase AC motor  |                          |                   |                |           |          |      |
| minms2<br>maxmaxms3<br>maxClosing NCminms3<br>maxminms3<br>max5<br>maxOpening NCminms11<br>maxminms11<br>max17UL technical dataFull-load current (FLA) for three-phase AC motorat 480VA7.6<br>at 600VYielded mechanical performance<br>for single-phase AC motor  |                          |                   | Opening NO     |           |          |      |
| Closing NC<br>Min Ms 3<br>max ms 5<br>Opening NC<br>Min Ms 11<br>max ms 11<br>max ms 17<br>UL technical data<br>Full-load current (FLA) for three-phase AC motor<br>Full-load current (FLA) for three-phase AC motor<br>At 480V A 7.6<br>at 600V A 6.1<br>Yielded mechanical performance<br>for single-phase AC motor   |                          |                   |                | min       | ms       | 2    |
| minms3<br>maxMinms5Opening NCminms11<br>maxminms11<br>max17UL technical dataFull-load current (FLA) for three-phase AC motorat 480VA7.6<br>at 600Vat 600VA6.1Yielded mechanical performance<br>for single-phase AC motor  |                          |                   |                | max       | ms       |      |
| Opening NC $max ms 5$ $min ms 11$ $max ms 17$ UL technical data Full-load current (FLA) for three-phase AC motor $at 480V = A 7.6$ $at 600V = A 6.1$ Yielded mechanical performance for single-phase AC motor   |                          |                   | Closing NC     |           |          |      |
| Opening NC       min       ms       11         max       ms       17         UL technical data         Full-load current (FLA) for three-phase AC motor         at 480V       A       7.6         at 600V       A       6.1         Yielded mechanical performance       for single-phase AC motor  |                          |                   |                |           |          |      |
| min ms 11<br>max ms 17<br>UL technical data<br>Full-load current (FLA) for three-phase AC motor<br>at 480V A 7.6<br>at 600V A 6.1<br>Yielded mechanical performance<br>for single-phase AC motor  |                          |                   |                | max       | ms       | 5    |
| max       ms       17         UL technical data   |                          |                   | Opening NC     |           |          |      |
| UL technical data<br>Full-load current (FLA) for three-phase AC motor<br>at 480V A 7.6<br>at 600V A 6.1<br>Yielded mechanical performance<br>for single-phase AC motor  |                          |                   |                |           |          |      |
| Full-load current (FLA) for three-phase AC motor       at 480V       A       7.6         at 600V       A       6.1         Yielded mechanical performance       for single-phase AC motor   | III to obvice late       |                   |                | max       | ms       | 1/   |
| at 480V     A     7.6       at 600V     A     6.1       Yielded mechanical performance     for single-phase AC motor  |                          | for three stars A | 2 motor        |           |          |      |
| at 600V     A     6.1       Yielded mechanical performance     for single-phase AC motor  | Full-load current (FLA)  | nor three-phase A |                | of 4001/  | ٨        | 7.6  |
| Yielded mechanical performance<br>for single-phase AC motor   |                          |                   |                |           |          |      |
| for single-phase AC motor   | Vielded mechanical pa    | rformanco         |                | al 000V   | А        | 0.1  |
|   | neided mechanical pe     |                   | AC motor       |           |          |      |
|   |                          | ior single-phase  |                | 110/120\/ | HÞ       | 0.5  |
|   |                          |                   |                | 110/1201  |          |      |

11BG0901A02460 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

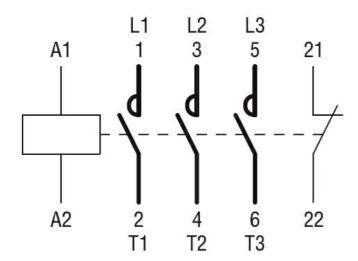


11BG0901A02460 THREE-POLE CONTACTOR, IEC OPERATING C

| URRENT IE (AC3) = 9A, AC COIL 60HZ, |
|-------------------------------------|
| 24VAC, 1NC AUXILIARY CONTACT        |

|  |  | 230V   | HP         | 1.5  |
|--|--|--|------------|--|
|  | for three-phase AC motor   | 230 V  | 111        | 1.5  |
|  |  | 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 protection   |  |  |            |  |
|  | High fault   |  |            | 100  |
|  |  | Short circuit current                        | kA         | 100  |
|  |  | Fuse rating                                  | A          | 30   |
|  | Standard fault   | Fuse class                                   |            | J  |
|  | Siandard lault   | Short circuit current                        | kA         | 5  |
|  |  | Fuse rating                                  | A          | 30   |
| Contact rating of auxi   | liary contacts according to UL   | i use raing                                  | ~          | A600 - Q600  |
| Ambient conditions   |  |  |            | A000 Q000  |
| Temperature  |  |  |            |  |
|  | Operating temperature  |  |            |  |
|  |  | min  | °C         | -50  |
|  |  | max  | °C         | +70  |
|  | Storage temperature  |  |            |  |
|  |  | min  | °C         | -60  |
|  |  | max  | °C         | +80  |
| Max altitude   |  |  | m          | 3000   |
| Resistance & Protect   | ion  |  |            |  |
| Pollution degree   |  |  |            | 3  |
| Dimensions   |  |  |            |  |
| 4.4<br>(0.17")<br>(0.17")<br>(0.33")<br>(0.33")<br>(0.33")<br>(0.33")<br>(0.33")<br>(0.33")<br>(0.33")<br>(0.33")<br>(0.33")<br>(0.33")<br>(0.33") | 57<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2.24")<br>(2. | 44<br>(1.73")<br>(1.73")<br>(0.12"<br>(0.12" | (2 28") 50 | 57<br>.24")<br>RF9<br>9<br>9<br>9<br>9<br>9<br>9<br> |





## Certifications and compliance

| oompnanoo | Comp | liance |
|-----------|------|--------|
|-----------|------|--------|

| 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