





| Contact characteristics           Number of poles         Nr. 3         3           Rated insulation voltage Ui IEC/EN         V 690         690           Rated insulation voltage Uimp         kV 6         6           Operational frequency         min Hz 25         25           max Hz 400         Max Hz 400         400           IEC Conventional free air thermal current lth         A 20         AC-1 (\$40°C) A 15           AC-1 (\$40°C) A 15         AC-3 (\$440V \$55°C) A 18         AC-4 (\$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 5.7           415V kW 5.7         415V kW 6.2           440V kW 5.5         500V kW 5.5           500V kW 5.5         500V kW 5.5           500V kW 5.5         500V kW 16           690V kW 22         EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         \$24V A 12           48V A 10         75V A 4         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         8           220V A -         15           48V A 14   | Product designation Product type designation                    |              |     | Power contactor<br>BG12 |
|---|---|--------------|-----|-------------------------|
| Rated insulation voltage U IEC/EN         V         690           Rated impulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           IEC Conventional free air thermal current lth         A         20           Operational current le         AC-1 (≤40°C)         A         20           AC-1 (≤55°C)         A         18         AC-1 (≤70°C)         A         15           AC-3 (≤4400 ≤55°C)         A         12         AC-4 (400V)         A         4.8           Rated operational power AC-3 (T≤55°C)         230V         kW         5.7         415V         kW         5.7           415V         kW         5.7         415V         kW         5.5         500V         kW         5.5         500V         kW         5.5         500V         kW         5.5         500V         kW         5.6         690V         kW         2.2         2.2         2.2         2.2         2.2         2.2   |   |              |     |                         |
| Rated impulse withstand voltage Ulimp   | Number of poles   |              | Nr. | 3                       |
| Rated impulse withstand voltage Ulimp   |   |              | V   | 690                     |
| Min   | Rated impulse withstand voltage Uimp                            |              | kV  | 6                       |
| Min   | Operational frequency   |              |     |                         |
| EC Conventional free air thermal current lth  |   | 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 5.7 (415V kW 5.5 (500V kW 14 (500V kW 16 (600V kW 22 (500V kW 16 (600V kW 22 (500V kW 16 (600V kW 16 (600   |   | max          | Hz  | 400                     |
| AC-1 (≤40°C)  | IEC Conventional free air thermal current Ith                   |              | Α   | 20                      |
| AC-1 (≤55°C)   A   18   AC-1 (≤70°C)   A   15   AC-3 (≤440V ≤55°C)   A   15   AC-3 (≤440V ≤55°C)   A   12   AC-4 (400V)   A   4.8   | Operational current le  |              |     |                         |
| AC-1 (≤55°C)   A   18   AC-1 (≤70°C)   A   15   AC-3 (≤440V ≤55°C)   A   15   AC-3 (≤440V ≤55°C)   A   12   AC-4 (400V)   A   4.8   |   | AC-1 (≤40°C) | Α   | 20                      |
| 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     440V   kW   5.5     500V   kW   5     690V   kW   5     690V   kW   5     690V   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     524V   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     524V   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     524V   A   15     48V   A   16     75V   A   10   |   | ` ,          |     |                         |
| AC-3 (≤440V ≤55°C)  |   | ` ,          | Α   | 15                      |
| Rated operational power AC-3 (T≤55°C)  230V kW 5.7 415V kW 6.2 440V kW 5.5 500V kW 5.5 500V kW 5.7 690V kW 5.8 8400V 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 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 16 75V A 9 110V A 8 220V A −  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   |   |              | Α   | 12                      |
| 230V   kW   3.2   400V   kW   5.7   415V   kW   6.2   440V   kW   5.5   500V   kW   5   500V   kW   14   500V   kW   14   500V   kW   16   690V   kW   22   500V   kW   22   500V   kW   22   500V   500 |   | •            | Α   | 4.8                     |
| 400V   kW   5.7   415V   kW   6.2   440V   kW   5.5   500V   kW   5.5   500V   kW   5   690V   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   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   −    IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   ≤24V   A   16   48V   A   10   48V   A   16   48V   A   10   48V   A  | Rated operational power AC-3 (T≤55°C)                           | ,            |     |                         |
| 400V   kW   5.7   415V   kW   6.2   440V   kW   5.5   500V   kW   5   500V   kW   14   500V   kW   14   500V   kW   16   690V   kW   22   500V   kW   23   500V   kW   24   500V   kW   24   500V   kW   25   500V   kW   26   500V   k | , , , ,   | 230V         | kW  | 3.2                     |
| 415V  |   | 400V         |     |                         |
| A40V   kW   5.5     500V   kW   5     690V   kW   5     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  |   | 415V         |     |                         |
| 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 -  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   |   | 440V         | kW  |                         |
| 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  |                         |
| EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   S24V   A   12  |   | 690V         | kW  | 5                       |
| EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   S24V   A   12  | 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                      |
| Section   Sec |   | 500V         | kW  | 16                      |
|   |   | 690V         | kW  | 22                      |
|   | IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series |              |     |                         |
| T5V   A   4   110V   A   3   220V   A   -   | ·   | ≤24V         | Α   | 12                      |
| 110V   A   3   220V   A   -   |   | 48V          | Α   | 10                      |
| EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   ≤24V   |   | 75V          | Α   | 4                       |
| 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 16 48V A 16 75V A 10   |   | 110V         | Α   | 3                       |
|   |   | 220V         | Α   | _                       |
| 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 16 48V A 16 75V A 10  | IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series |              |     |                         |
| 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 16 48V A 16 75V A 10  | ·   | ≤24V         | Α   | 15                      |
|   |   |              |     |                         |
|   |   | 75V          | Α   | 9                       |
| 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   |                         |
| ≤24V A 16<br>48V A 16<br>75V A 10   |   | 220V         | Α   | _                       |
| ≤24V A 16<br>48V A 16<br>75V A 10   | IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series |              |     |                         |
| 48V A 16<br>75V A 10  | ·   | ≤24V         | Α   | 16                      |
| 75V A 10  |   |              |     |                         |
|   |   |              | Α   |                         |
|   |   |              |     |                         |





|  | 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 canoncio in 200 200 mai 2/10 = 10mb mai i poloci 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-DC3 with L/R \( \) 13ms with 2 poles in series | <b>~24)</b> / | ۸            | 0            |
|  | ≤24V          | A            | 8            |
|  | 48V           | A            | 8            |
|  | 75V           | A            | 5            |
|  | 110V          | A            | 4            |
|  | 220V          | Α            | <del>-</del> |
| 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   |               |              | <del>-</del> |
|  | 440V          | Α            | 96           |
|  | 500V          | A            | 72           |
|  | 690V          | Α            | 72           |
| Resistance per pole (average value)                                      | 0001          | mΩ           | 10           |
| Power dissipation per pole (average value)                               |               | 11122        | 10           |
| i owei dissipation per pole (average value)                              | Ith           | W            | 4            |
|  |               |              |              |
| Tightoning targue for terminals  | AC-3          | W            | 1.44         |
| Tightening torque for terminals  |               | <b>N</b> 1 . | 0.0          |
|  | min           | Nm           | 0.8          |
|  | max           | Nm           | 1            |
|  | min           | lbin<br>     | 9            |
|  | max           | lbin         | 9            |
| Tightening torque for coil terminal                                      |               |              |              |
|  | min           | Nm           | 0.8          |
|  | max           | Nm           | 1            |
|  | min           | lbin         | 9            |
|  |               |              |              |





|  |  | max   | Ibin                            | 9   |
|--|--|---|---------------------------------|---|
|  | simultaneously connectable                           |   | Nr.                             | 2   |
| Conductor section  | A1410 (16 )  |   |                                 |   |
|  | AWG/Kcmil  |   |                                 | 4.0   |
|  | Florible w/o lug conductor costion                   | max   |                                 | 12  |
|  | Flexible w/o lug conductor section                   | min   | mm²                             | 0.75  |
|  |  | min   | mm²<br>mm²                      | 0.75<br>2.5   |
|  | Flexible c/w lug conductor section                   | max   | 111111                          | 2.0   |
|  | r lexible 6/w rug conductor section                  | min   | mm²                             | 1.5   |
|  |  | max   | mm²                             | 2.5   |
|  | Flexible with insulated spade lug conductor section  |   | 111111                          | 2.0   |
|  | r lexible with insulated space lag conductor section | min   | mm²                             | 1.5   |
|  |  | max   | mm²                             | 2.5   |
|  |  | max   |                                 | IP20 when   |
| Power terminal prote   | ction according to IEC/EN 60529                      |   |                                 | properly wired  |
| Mechanical features  |  |   |                                 |   |
| Operating position   |  |   |                                 |   |
|  |  | normal  |                                 | Vertical plan   |
|  |  | allowable   |                                 | ±30°  |
| Eiving   |  |   |                                 | Screw / DIN rail  |
| Fixing   |  |   |                                 | 35mm  |
| Weight   |  |   | g                               | 175   |
| Conductor section  |  |   |                                 |   |
|  | AWG/kcmil conductor section                          |   |                                 |   |
|  |  | max   |                                 | 12  |
| Auxiliary contact char   | acteristics  |   |                                 |   |
| Thermal current Ith  |  |   | A                               | 10  |
| IEC/EN 60947-5-1 de  | •  |   |                                 | A600 - Q600   |
| Operating current AC   | 315  |   |                                 |   |
| . •  |  |   | _                               |   |
|  |  | 230V  | A                               | 3   |
|  |  | 400V  | Α                               | 1.9   |
| 0  |  |   |                                 |   |
| Operating current DC   |  | 400V<br>500V  | A<br>A                          | 1.9<br>1.4  |
|  | 312  | 400V  | Α                               | 1.9   |
| Operating current DC   | 312  | 400V<br>500V<br>110V  | A<br>A                          | 1.9<br>1.4<br>2.9   |
|  | 312  | 400V<br>500V<br>110V<br>24V   | A<br>A<br>A                     | 1.9<br>1.4<br>2.9<br>2.9  |
|  | 312  | 400V<br>500V<br>110V<br>24V<br>48V  | A<br>A<br>A<br>A                | 1.9<br>1.4<br>2.9<br>2.9<br>1.4   |
|  | 312  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V                                 | A<br>A<br>A<br>A                | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2  |
|  | 312  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V                         | A<br>A<br>A<br>A<br>A           | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6   |
|  | 312  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V                 | A A A A A                       | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55                                     |
|  | 312  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V<br>220V         | A A A A A A A                   | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55<br>0.3                              |
| Operating current DC   | 312  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V                 | A A A A A                       | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55                                     |
|  | 312  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V<br>220V         | A<br>A<br>A<br>A<br>A<br>A<br>A | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55<br>0.3<br>0.1                       |
| Operating current DC  Operations  Mechanical life  | 312  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V<br>220V         | A A A A A A A A Cycles          | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55<br>0.3<br>0.1                       |
| Operating current DC  Operations  Mechanical life  Electrical life   | 312  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V<br>220V         | A<br>A<br>A<br>A<br>A<br>A<br>A | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55<br>0.3<br>0.1                       |
| Operating current DC  Operations  Mechanical life  Electrical life  Safety related data                      | 212  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V<br>220V         | A A A A A A A A Cycles          | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55<br>0.3<br>0.1                       |
| Operating current DC  Operations  Mechanical life  Electrical life  Safety related data                      | 312  | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V<br>220V<br>600V | A A A A A A A Cycles cycles     | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55<br>0.3<br>0.1<br>20000000           |
| Operating current DC  Operations  Mechanical life  Electrical life  Safety related data                      | 212<br>213<br>10d according to EN/ISO 13489-1        | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V<br>220V<br>600V | A A A A A A A Cycles cycles     | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55<br>0.3<br>0.1<br>20000000<br>500000 |
| Operating current DC  Operations  Mechanical life  Electrical life  Safety related data  Performance level B | 212<br>213<br>10d according to EN/ISO 13489-1        | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V<br>220V<br>600V | A A A A A A A Cycles cycles     | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55<br>0.3<br>0.1<br>20000000<br>500000 |
| Operating current DC  Operations  Mechanical life  Electrical life  Safety related data  Performance level B | 212<br>213<br>10d according to EN/ISO 13489-1        | 400V<br>500V<br>110V<br>24V<br>48V<br>60V<br>110V<br>125V<br>220V<br>600V | A A A A A A A Cycles cycles     | 1.9<br>1.4<br>2.9<br>2.9<br>1.4<br>1.2<br>0.6<br>0.55<br>0.3<br>0.1<br>20000000<br>500000 |





| Rated AC voltage at 5                                     | 0/60Hz                                |  |   | V  | 48  |
|---|---------------------------------------|--|---|--|---|
| C operating voltage                                       |                                       |  |   |  |   |
|   | of 50/60Hz coil pow                   |  |   |  |   |
|   |                                       | pick-up  |   | 0/116  | 7.5   |
|   |                                       |  | min   | %Us<br>%Us                                     | 75<br>115   |
|   |                                       | drop-out   | max   | %US  | 110   |
|   |                                       | arop out   | min   | %Us  | 20  |
|   |                                       |  | max   | %Us  | 55  |
|   | of 50/60Hz coil pow                   | vered at 60Hz  |   | 7000   |   |
|   | , , , , , , , , , , , , , , , , , , , | pick-up  |   |  |   |
|   |                                       |  | min   | %Us  | 80  |
|   |                                       |  | max   | %Us  | 115   |
|   |                                       | drop-out   |   |  |   |
|   |                                       |  | min   | %Us  | 20  |
|   |                                       |  | max   | %Us  | 55  |
| C average coil consu                                      |                                       |  |   |  |   |
|   | of 50/60Hz coil pow                   | ered at 50Hz   |   |  |   |
|   |                                       |  | in-rush   | VA   | 30  |
|   |                                       |  | holding   | VA   | 4   |
|   | of 50/60Hz coil pow                   | ered at 60Hz   |   |  | 0.5   |
|   |                                       |  | in-rush   | VA   | 25  |
|   | -f 001  !                             | -1 -4 001  | holding   | VA   | 3   |
|   | of 60Hz coil powere                   | ed at 60Hz   |   |  |   |
|   |                                       |  | ماميسيدا  | ١/٨  | 20  |
|   |                                       |  | in-rush   | VA<br>VA                                       | 30  |
| Dissination at holding                                    | <20°C 50Hz                            |  | in-rush<br>holding  | VA   | 4   |
| Dissipation at holding                                    | ≤20°C 50Hz                            |  |   |  |   |
| Max cycles frequency                                      | ≤20°C 50Hz                            |  |   | VA<br>W  | 0.95  |
| Max cycles frequency Mechanical operation                 | ≤20°C 50Hz                            |  |   | VA   | 0.95  |
| Max cycles frequency Mechanical operation Operating times |                                       |  |   | VA<br>W  | 0.95  |
| Max cycles frequency Mechanical operation                 |                                       |  |   | VA<br>W  | 0.95  |
| Max cycles frequency Mechanical operation Operating times | ontrol                                | Closing NO   |   | VA<br>W  | 0.95  |
| Max cycles frequency Mechanical operation Operating times | ontrol                                | Closing NO   |   | VA<br>W  | 0.95  |
| Max cycles frequency Mechanical operation Operating times | ontrol                                |  | holding   | VA<br>W<br>cycles/h                            | 4<br>0.95<br>3600   |
| Max cycles frequency Mechanical operation Operating times | ontrol                                | Closing NO Opening NO                                  | holding   | VA<br>W<br>cycles/h                            | 4<br>0.95<br>3600<br>12<br>21                                   |
| Max cycles frequency Mechanical operation Operating times | ontrol                                |  | holding  min  max  min  | VA<br>W<br>cycles/h<br>ms<br>ms                | 12<br>21<br>9   |
| Max cycles frequency Mechanical operation Operating times | ontrol                                | Opening NO   | holding<br>min<br>max   | VA<br>W<br>cycles/h<br>ms<br>ms                | 4<br>0.95<br>3600<br>12<br>21                                   |
| Max cycles frequency Mechanical operation Operating times | ontrol                                |  | min<br>max<br>min<br>max  | VA W cycles/h ms ms ms                         | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18                        |
| Max cycles frequency Mechanical operation Operating times | ontrol                                | Opening NO   | min max min max   | VA W cycles/h ms ms ms ms                      | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18                        |
| Max cycles frequency Mechanical operation Operating times | ontrol                                | Opening NO Closing NC                                  | min<br>max<br>min<br>max  | VA W cycles/h ms ms ms                         | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18                        |
| Max cycles frequency Mechanical operation Operating times | ontrol                                | Opening NO   | min max min max   | VA W cycles/h ms ms ms ms ms                   | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26            |
| Max cycles frequency Mechanical operation Operating times | ontrol                                | Opening NO Closing NC                                  | min max min max min max min max   | VA W cycles/h ms ms ms ms ms ms                | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26            |
| Max cycles frequency Mechanical operation Operating times | ontrol<br>in AC                       | Opening NO Closing NC                                  | min max min max   | VA W cycles/h ms ms ms ms ms                   | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26            |
| Max cycles frequency Mechanical operation Operating times | ontrol                                | Opening NO Closing NC Opening NC                       | min max min max min max min max   | VA W cycles/h ms ms ms ms ms ms                | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26            |
| Max cycles frequency Mechanical operation Operating times | ontrol<br>in AC                       | Opening NO Closing NC                                  | min max min max min max min max   | VA W cycles/h ms ms ms ms ms ms                | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26<br>7       |
| Max cycles frequency Mechanical operation Operating times | ontrol<br>in AC                       | Opening NO Closing NC Opening NC                       | min max min max min max min max min max   | VA W cycles/h ms    | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26<br>7<br>17 |
| Max cycles frequency Mechanical operation Operating times | ontrol<br>in AC                       | Opening NO Closing NC Opening NC Closing NO            | min max min max min max min max   | VA W cycles/h ms ms ms ms ms ms                | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26<br>7       |
| Max cycles frequency Mechanical operation Operating times | ontrol<br>in AC                       | Opening NO Closing NC Opening NC                       | min max min max min max min max   | VA W cycles/h ms    | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26<br>7<br>17 |
| Max cycles frequency Mechanical operation Operating times | ontrol<br>in AC                       | Opening NO Closing NC Opening NC Closing NO            | min max | VA W cycles/h ms | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26<br>7<br>17 |
| Max cycles frequency Mechanical operation Operating times | ontrol<br>in AC                       | Opening NO Closing NC Opening NC Closing NO Opening NO | min max min max min max min max   | VA W cycles/h ms    | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26<br>7<br>17 |
| Max cycles frequency Mechanical operation Operating times | ontrol<br>in AC                       | Opening NO Closing NC Opening NC Closing NO            | min max | VA W cycles/h ms | 4<br>0.95<br>3600<br>12<br>21<br>9<br>18<br>17<br>26<br>7<br>17 |

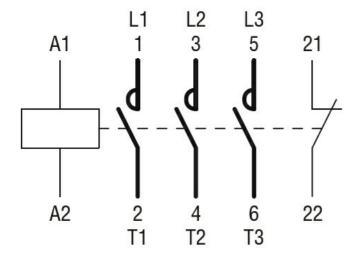


### Opening NC

|  | oponing it                              |   |         |                                 |
|--|---|---|---------|---------------------------------|
|  |   | min   | ms      | 11                              |
|  |   | max   | ms      | 17                              |
| UL technical data  |   |   |         |                                 |
|  | A) for three-phase AC motor             |   |         |                                 |
| Tuli load current (TE  | A) for three phase Ao motor             | -t 400\/  | ٨       | 44                              |
|  |   | at 480V   | Α       | 11                              |
|  |   | at 600V   | Α       | 11                              |
| Yielded mechanical   | performance                             |   |         |                                 |
|  | for single-phase AC motor               |   |         |                                 |
|  | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 110/120V  | HP      | 0.5                             |
|  |   | 230V  | HP      | 1.5                             |
|  |   | 230 V   | ПЕ      | 1.0                             |
|  | for three-phase AC motor                |   |         |                                 |
|  |   | 200/208V  | HP      | 3                               |
|  |   | 220/230V  | HP      | 3                               |
|  |   | 460/480V  | HP      | 7.5                             |
|  |   | 575/600V  | HP      | 10                              |
| General USE  |   | 37 3/000 V  | * * * * |                                 |
| General USE  |   |   |         |                                 |
|  | Contactor                               |   |         |                                 |
|  |   | AC current  | Α       | 20                              |
| Short-circuit protection   | on fuse, 600V                           |   |         |                                 |
| r  | High fault                              |   |         |                                 |
|  | . ngi i iaan                            | 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                             |
| 0 1 1 1 1  | 2P                                      | Fuse class  |         |                                 |
|  | ciliary contacts according to UL        |   |         | A600 - Q600                     |
| Ambient conditions   |   |   |         |                                 |
| Temperature  |   |   |         |                                 |
|  | Operating temperature                   |   |         |                                 |
|  | a paraming remiperature                 | min   | °C      | -50                             |
|  |   |   | °C      |                                 |
|  |   | max   |         | +70                             |
|  | Storage temperature                     |   |         |                                 |
|  |   | min   | °C      | -60                             |
|  |   | max   | °C      | +80                             |
| Max altitude   |   |   | m       | 3000                            |
| Resistance & Protect   | etion                                   |   |         |                                 |
|  | SIOH—                                   |   |         | 2                               |
| Pollution degree   |   |   |         | 3                               |
| Dimensions   |   |   |         |                                 |
| (1.73") 4.4  |   | 44 60.6   |         |                                 |
| 4.4 (1.73") (0.17  | 57                                      | (1.73") (1.73") (1.73")                               |         | 57<br>24")                      |
| (0.17")  | (2.24")                                 | 0 0 0   | 9 (2    | .24 )                           |
| $\bullet \bullet \bullet \bullet \bullet$  |   |   |         |                                 |
|  | 50<br>(1.97")<br>58<br>(2.28")          | 05.65   | (2.28") |                                 |
| *****  | 20<br>(1.97)<br>(2.28)                  | 2. (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | 9       |                                 |
| THE RESIDENCE CONTRACTOR CONTRACT |   | 4.5. O H H O G G                                      |         |                                 |
| 8.5  | 240                                     | 3.2 (0.12")   |         |                                 |
| 8.5<br>(0.33") 9.7<br>(0.38"   | - 34.9 - 1<br>(1.37")                   | (1.37") (0.12"  | ')      | RF9                             |
| 8.5<br>(0.33")   |   | 5   | L _     | 70                              |
| 8.5<br>(0.33")   |   | 44  |         | 89.2<br>(3.51") -7.6<br>(0.30") |
|  |   | (1.73")   |         | (3.51")                         |
| Wiring diagrams  |   |   |         |                                 |
|  |   |   |         |                                 |

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 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