



| Product designation                           |   |            |                 | Auxiliary contactor |
|---|---|------------|-----------------|---------------------|
| Product type designat                         |   |            |                 | BG00                |
| Contact characteristics                       | S   |            |                 | ,                   |
| Number of poles                               | 111150/51   |            | Nr.             | 4                   |
| Rated insulation voltage                      |   | V          | 690             |                     |
| Rated impulse withsta                         |   | kV         | 6               |                     |
| Operational frequency                         |   |            |                 |                     |
|   |   | min        | Hz              | 25                  |
| IEO O   | 25 (1 1 1 ))  | max        | Hz              | 400                 |
| IEC Conventional free air thermal current Ith |   |            | Α               | 10                  |
| Protection fuse                               |   | ~O (IEO)   | ۸               | 4.0                 |
| <del></del>                                   |   | gG (IEC)   | A               | 16                  |
| Tightening torque for t                       | erminals  |            | N. 1            | 0.0                 |
|   |   | min        | Nm              | 0.8                 |
|   |   | max        | Nm              | 1                   |
|   |   | min        | lbin            | 9                   |
| Tightonia a torque for a                      | sail to making al                                   | max        | Ibin            | 9                   |
| Tightening torque for o                       | con terminal  | min        | Nim             | 0.0                 |
|   |   | min        | Nm<br>Nm        | 0.8                 |
|   |   | max        | Nm<br>Ibin      | 1<br>9              |
|   |   | min<br>max | lbin            | 9                   |
| Max number of wires                           | simultaneously connectable                          | Пах        | Nr.             | 2                   |
| Conductor section                             | Simulaneously connectable                           |            | INI.            |                     |
| Conductor Section                             | AWG/Kcmil   |            |                 |                     |
|   | AWG/Raniii  | max        |                 | 12                  |
|   | Flexible w/o lug conductor section                  | IIIdx      |                 | 12                  |
|   | r lexible w/o lag corradetor section                | min        | mm²             | 0.75                |
|   |   | max        | mm <sup>2</sup> | 2.5                 |
|   | Flexible c/w lug conductor section                  | тих        |                 | 2.0                 |
|   | Tioxibio 6, Wilay contactor cocaon                  | min        | mm²             | 1.5                 |
|   |   | max        | mm²             | 2.5                 |
|   | Flexible with insulated spade lug conductor section |            |                 |                     |
|   |   | min        | mm²             | 1.5                 |
|   |   | max        | mm²             | 2.5                 |
| Power terminal protect                        | tion according to IEC/EN 60529                      |            |                 | IP20 when wired     |
| Mechanical features                           |   |            |                 |                     |
| Operating position                            |   |            |                 |                     |
| · • •   |   | normal     |                 | Vertical plan       |
|   |   | allowable  |                 | ±30°                |
| Eiving  |   |            |                 | Screw / DIN rail    |
| Fixing  |   |            |                 | 35mm                |
| Weight  |   |            | g               | 178                 |
| Conductor section                             |   |            |                 |                     |



## AWG/kcmil conductor section

| AWG/kcmii conductor section                        | max             |                                       | 12          |
|--|-----------------|---------------------------------------|-------------|
| Auxiliary contact characteristics                  | IIIdA           |                                       | 12          |
| Thermal current Ith                                |                 | Α                                     | 10          |
| IEC/EN 60947-5-1 designation                       |                 | , , , , , , , , , , , , , , , , , , , | A600 - Q600 |
| Operating current AC15                             |                 |                                       | 71000 0000  |
| operating outlier to to                            | 230V            | Α                                     | 3           |
|  | 400V            | A                                     | 1.9         |
|  | 500V            | A                                     | 1.4         |
| Operating current DC12                             |                 |                                       |             |
| operating outrom 2012                              | 110V            | Α                                     | 2.9         |
| Operating current DC13                             |                 |                                       |             |
| operating outrom 2010                              | 24V             | Α                                     | 2.9         |
|  | 48V             | Α                                     | 1.4         |
|  | 60V             | Α                                     | 1.2         |
|  | 110V            | Α                                     | 0.6         |
|  | 125V            | Α                                     | 0.55        |
|  | 220V            | Α                                     | 0.3         |
|  | 600V            | Α                                     | 0.1         |
| Operations   |                 |                                       |             |
| Mechanical life                                    |                 | cycles                                | 20000000    |
| Safety related data                                |                 |                                       |             |
| Performance level B10d according to EN/ISO 13489-1 |                 |                                       |             |
|  | mechanical load | cycles                                | 20000000    |
| Mirror contats according to IEC/EN 609474-4-1      |                 |                                       | YES         |
| EMC compatibility                                  |                 |                                       | yes         |
| AC coil operating                                  |                 |                                       |             |
| Rated AC voltage at 60Hz                           |                 | V                                     | 460         |
| AC operating voltage                               |                 |                                       |             |
| of 60Hz coil powered at 60Hz                       |                 |                                       |             |
| pick-up  |                 |                                       |             |
|  | min             | %Us                                   | 75          |
|  | max             | %Us                                   | 115         |
| drop-out   |                 |                                       |             |
|  | min             | %Us                                   | 20          |
|  | max             | %Us                                   | 55          |
| AC average coil consumption at 20°C                |                 |                                       |             |
| of 50/60Hz coil powered at 50Hz                    |                 |                                       |             |
|  | in-rush         | VA                                    | 30          |
|  | holding         | VA                                    | 4           |
| of 50/60Hz coil powered at 60Hz                    |                 |                                       |             |
|  | in-rush         | VA                                    | 25          |
| (0011 " 1 1 0011                                   | holding         | VA                                    | 3           |
| of 60Hz coil powered at 60Hz                       |                 | \                                     | 00          |
|  | in-rush         | VA                                    | 30          |
| D: :   | holding         | VA                                    | 4           |
| Dissipation at holding =20°C 50Hz                  |                 | W                                     | 0.95        |
| Max cycles frequency                               |                 |                                       | 2000        |
| Mechanical operation                               |                 | cycles/h                              | 3600        |
| Operating times                                    |                 |                                       |             |
| Average time for Us control                        |                 |                                       |             |

Closing NO

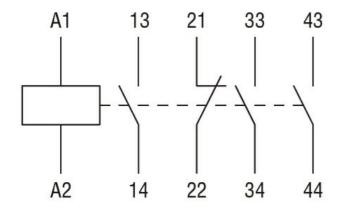
in AC



|  |                           |             | 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                              |
|  | · DO                      |             | max                               | ms             | 17                             |
|  | in DC                     | Olasia a NO |                                   |                |                                |
|  |                           | Closing NO  | min                               | <b></b> .      | 10                             |
|  |                           |             | min                               | ms             | 18<br>25                       |
|  |                           | Opening NO  | max                               | ms             | 25                             |
|  |                           | Opening NO  | min                               | ms             | 2                              |
|  |                           |             | max                               | ms             | 3                              |
|  |                           | Closing NC  | Παλ                               | 1113           | 3                              |
|  |                           | Closing 140 | min                               | ms             | 3                              |
|  |                           |             | max                               | ms             | 5                              |
|  |                           | Opening NC  |                                   |                | -                              |
|  |                           | -1- 5       | min                               | ms             | 11                             |
|  |                           |             | max                               | ms             | 17                             |
| UL technical data  |                           |             |                                   |                |                                |
| General USE  |                           |             |                                   |                |                                |
|  | Contactor                 |             |                                   |                |                                |
|  |                           |             | AC current                        | Α              | 10                             |
|  | ary contacts according to | UL          |                                   |                | A600 - Q600                    |
| Ambient conditions   |                           |             |                                   |                |                                |
| Temperature  |                           |             |                                   |                |                                |
|  | Operating temperature     |             |                                   |                |                                |
|  | Operating temperature     |             |                                   |                |                                |
|  | Operating temperature     |             | min                               | °C             | -50                            |
|  |                           |             | min<br>max                        | °C<br>°C       | -50<br>+70                     |
|  | Storage temperature       |             | max                               | °C             | +70                            |
|  |                           |             | max                               | °C             | +70<br>-60                     |
| Movalituda   |                           |             | max                               | °C<br>°C<br>°C | +70<br>-60<br>+80              |
| Max altitude   | Storage temperature       |             | max                               | °C             | +70<br>-60                     |
| Resistance & Protection  | Storage temperature       |             | max                               | °C<br>°C<br>°C | +70<br>-60<br>+80<br>3000      |
| Resistance & Protection Pollution degree   | Storage temperature       |             | max                               | °C<br>°C<br>°C | +70<br>-60<br>+80              |
| Resistance & Protection Pollution degree Dimensions  | Storage temperature       |             | max<br>min<br>max                 | °C<br>°C<br>°C | +70<br>-60<br>+80<br>3000      |
| Resistance & Protection Pollution degree Dimensions  4.4 (0.17")  (0.17")  (0.33")  (0.33")  (0.33") | Storage temperature       | 94.2        | min max  (1.73")  (0.12)  (1.37") | °C °C °C m     | +70<br>-60<br>+80<br>3000<br>3 |
| Resistance & Protection Pollution degree Dimensions  4.4 (0.17")  (0.17")  (0.38")                   | Storage temperature       |             | min max  (1.73")  (0.12)  (0.12)  | °C °C °C m     | +70<br>-60<br>+80<br>3000<br>3 |
| Resistance & Protection Pollution degree Dimensions  4.4 (0.17")  (0.17")  (0.33")  (0.38")          | Storage temperature       |             | min max  (1.73")  (0.12)  (1.37") | °C °C °C m     | +70<br>-60<br>+80<br>3000<br>3 |



**ENERGY AND AUTOMATION** 



## Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-5-1

IEC/EN 60947-1

IEC/EN 60947-5-1

UL 60947-1

UL 60947-5-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000196 -Contactor relay