



|   |                                    |                 |                              |                          |
|---|------------------------------------|-----------------|------------------------------|--------------------------|
| Product designation                                 |                                    |                 |                              | Auxiliary contactor      |
| Product type designation                            |                                    |                 |                              | BG00                     |
| <b>Contact characteristics</b>                      |                                    |                 |                              |                          |
| Number of poles                                     | Nr.                                |                 |                              | 4                        |
| Rated insulation voltage $U_i$ IEC/EN               | V                                  |                 |                              | 690                      |
| Rated impulse withstand voltage $U_{imp}$           | kV                                 |                 |                              | 6                        |
| Operational frequency                               | min                                | Hz              | 25                           |                          |
|   | max                                | Hz              | 400                          |                          |
| IEC Conventional free air thermal current $I_{th}$  | A                                  |                 |                              | 10                       |
| Protection fuse                                     | gG (IEC)                           |                 | A                            | 16                       |
|   | Tightening torque for terminals    |                 |                              |                          |
|   | min                                | Nm              | 0.8                          |                          |
|   | max                                | Nm              | 1                            |                          |
|   | min                                | lbin            | 9                            |                          |
|   | max                                | lbin            | 9                            |                          |
| Tightening torque for coil terminal                 |                                    |                 |                              |                          |
|   | min                                | Nm              | 0.8                          |                          |
|   | max                                | Nm              | 1                            |                          |
|   | min                                | lbin            | 9                            |                          |
|   | max                                | lbin            | 9                            |                          |
| Max number of wires simultaneously connectable      | Nr.                                |                 |                              | 2                        |
| Conductor section                                   |                                    |                 |                              |                          |
| AWG/Kcmil   | max                                |                 | 12                           |                          |
|   | Flexible w/o lug conductor section |                 |                              |                          |
|   | min                                | mm <sup>2</sup> | 0.75                         |                          |
|   | max                                | mm <sup>2</sup> | 2.5                          |                          |
| Flexible c/w lug conductor section                  |                                    |                 |                              |                          |
|   | min                                | mm <sup>2</sup> | 1.5                          |                          |
|   | max                                | mm <sup>2</sup> | 2.5                          |                          |
| Flexible with insulated spade lug conductor section |                                    |                 |                              |                          |
|   | min                                | mm <sup>2</sup> | 1.5                          |                          |
|   | max                                | mm <sup>2</sup> | 2.5                          |                          |
| Power terminal protection according to IEC/EN 60529 |                                    |                 |                              | IP20 when properly wired |
| <b>Mechanical features</b>                          |                                    |                 |                              |                          |
| Operating position                                  |                                    |                 |                              |                          |
|   | normal allowable                   |                 | Vertical plan $\pm 30^\circ$ |                          |
| Fixing  |                                    |                 |                              | Screw / DIN rail 35mm    |
| Weight  |                                    |                 | g                            | 180                      |

|  |                                 |  |  |                 |                 |
|--|---------------------------------|--|--|-----------------|-----------------|
| Conductor section                                  | AWG/kcmil conductor section     |  |  | max             | 12              |
| <b>Auxiliary contact characteristics</b>           |                                 |  |  |                 |                 |
| Thermal current I <sub>th</sub>                    |                                 |  |  | A               | 10              |
| IEC/EN 60947-5-1 designation                       |                                 |  |  | A600 - Q600     |                 |
| Operating current AC15                             |                                 |  |  | 230V            | A 3             |
|  |                                 |  |  | 400V            | A 1.9           |
|  |                                 |  |  | 500V            | A 1.4           |
| Operating current DC12                             |                                 |  |  | 110V            | A 2.9           |
| Operating current DC13                             |                                 |  |  | 24V             | A 2.9           |
|  |                                 |  |  | 48V             | A 1.4           |
|  |                                 |  |  | 60V             | A 1.2           |
|  |                                 |  |  | 110V            | A 0.6           |
|  |                                 |  |  | 125V            | A 0.55          |
|  |                                 |  |  | 220V            | A 0.3           |
|  |                                 |  |  | 600V            | A 0.1           |
| <b>Operations</b>                                  |                                 |  |  |                 |                 |
| Mechanical life                                    |                                 |  |  | cycles          | 20000000        |
| <b>Safety related data</b>                         |                                 |  |  |                 |                 |
| Performance level B10d according to EN/ISO 13489-1 |                                 |  |  | mechanical load | cycles 20000000 |
| Mirror contacts according to IEC/EN 60947-4-1      |                                 |  |  | YES             |                 |
| EMC compatibility                                  |                                 |  |  | yes             |                 |
| <b>AC coil operating</b>                           |                                 |  |  |                 |                 |
| Rated AC voltage at 60Hz                           |                                 |  |  | V               | 48              |
| 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           |
|  |                                 |  |  | holding         | VA 3            |
|  | of 60Hz coil powered at 60Hz    |  |  | in-rush         | VA 30           |
|  |                                 |  |  | holding         | VA 4            |
| Dissipation at holding ≤20°C 50Hz                  |                                 |  |  | W               | 0.95            |
| <b>Max cycles frequency</b>                        |                                 |  |  |                 |                 |
| Mechanical operation                               |                                 |  |  | cycles/h        | 3600            |
| <b>Operating times</b>                             |                                 |  |  |                 |                 |
| Average time for U <sub>s</sub> 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 | 17 |
| <hr/>      |     |    |    |
| in DC      |     |    |    |
| Closing NO | min | ms | 18 |
|            | max | ms | 25 |
| Opening NO | min | ms | 2  |
|            | max | ms | 3  |
| Closing NC | min | ms | 3  |
|            | max | ms | 5  |
| Opening NC | min | ms | 11 |
|            | max | ms | 17 |

**UL technical data**

General USE

Contactor

AC current A 10

Contact rating of auxiliary contacts according to UL

A600 - Q600

**Ambient conditions**

Temperature

Operating temperature

min °C -50  
max °C +70

Storage temperature

min °C -60  
max °C +80

Max altitude

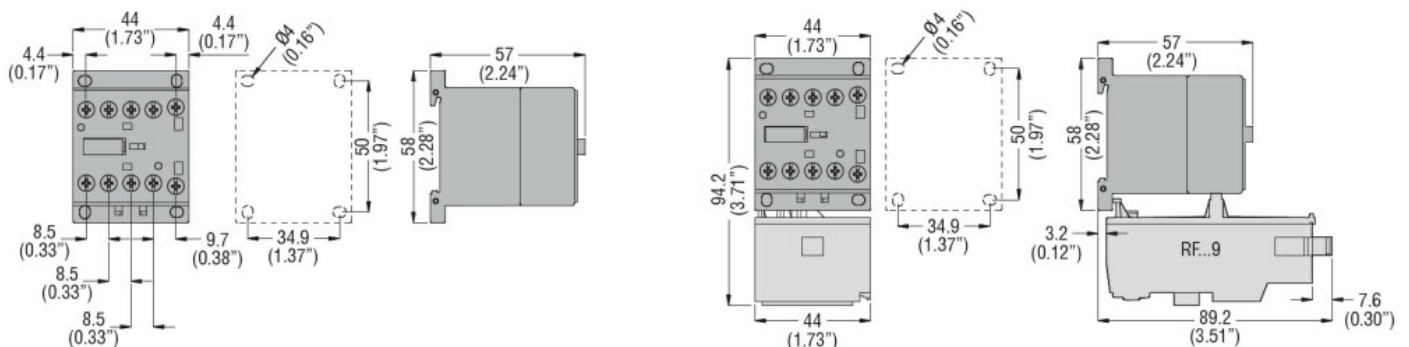
m 3000

**Resistance & Protection**

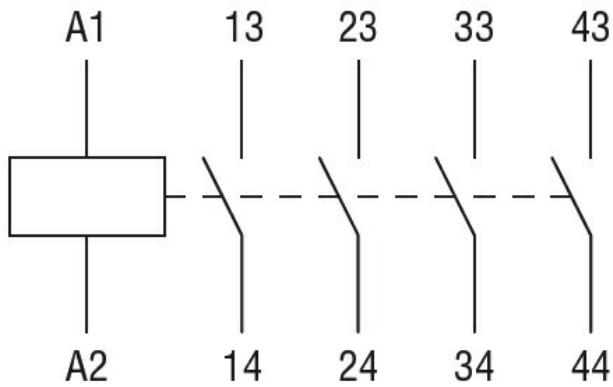
Pollution degree

3

**Dimensions**



**Wiring diagrams**



### 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

cULus

EAC

### ETIM classification

ETIM 8.0

EC000196 -  
Contactor relay