



|                                                     |                          |               |                        |
|-----------------------------------------------------|--------------------------|---------------|------------------------|
| Product designation                                 |                          |               | Auxiliary<br>contactor |
| Product type designation                            |                          |               | BG00                   |
| Contact characteristics                             |                          |               |                        |
| Number of poles                                     | Nr.                      | 4             |                        |
| 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       | 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                      | 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 | min                      | mm²           | 1.5                    |
|                                                     | max                      | mm²           | 2.5                    |
| Power terminal protection according to IEC/EN 60529 |                          |               | IP20 when wired        |
| Mechanical features                                 |                          |               |                        |
| Operating position                                  | normal                   | Vertical plan |                        |
|                                                     | allowable                | ±30°          |                        |
| Fixing                                              | Screw / DIN rail<br>35mm |               |                        |
| Weight                                              | g                        | 187           |                        |
| Conductor section                                   |                          |               |                        |

AWG/kcmil conductor section

|                                                    |  |                 |                 |
|----------------------------------------------------|--|-----------------|-----------------|
|                                                    |  | max             | 12              |
| Auxiliary contact characteristics                  |  |                 |                 |
| 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           |
| 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               | 575             |
| 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            |
| Max cycles frequency                               |  |                 |                 |
| Mechanical operation                               |  | cycles/h        | 3600            |
| Operating times                                    |  |                 |                 |
| Average time for U <sub>s</sub> control            |  |                 |                 |
| in AC                                              |  |                 |                 |
| Closing NO                                         |  |                 |                 |

|            |            |     |    |    |
|------------|------------|-----|----|----|
| in DC      | Opening NO | min | ms | 12 |
|            |            | max | ms | 21 |
|            | Closing NC | min | ms | 9  |
|            |            | max | ms | 18 |
|            | Opening NC | min | ms | 17 |
|            |            | max | ms | 26 |
|            |            | min | ms | 7  |
|            |            | max | ms | 17 |
|            | 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 160

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

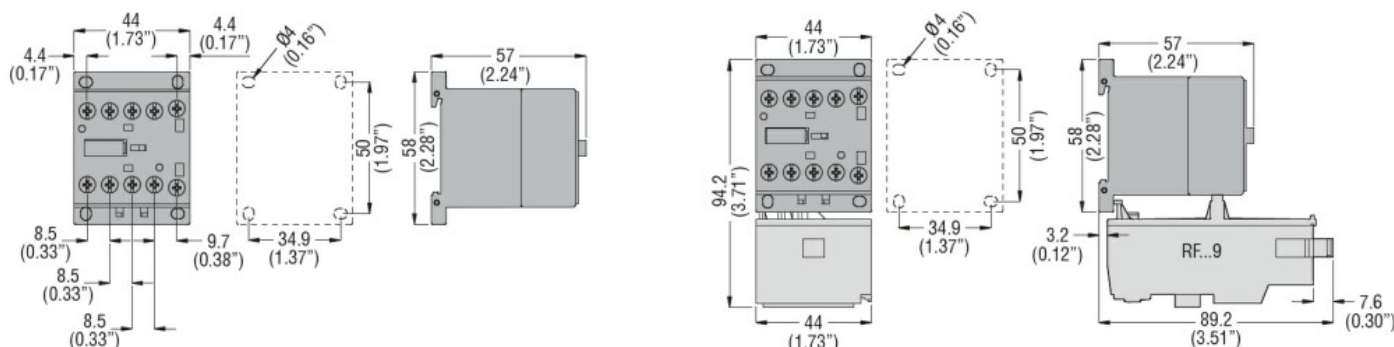
m 3000

#### Resistance & Protection

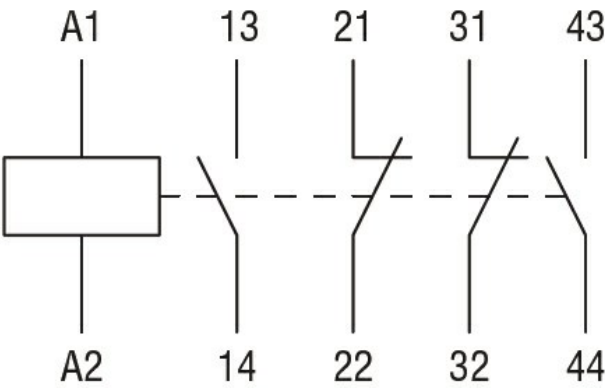
Pollution degree

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 -<br>Contactor relay |
|----------|-------------------------------|