



|                                                     |                                    |      |                                              |
|-----------------------------------------------------|------------------------------------|------|----------------------------------------------|
| 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<br>allowable<br>Vertical plan<br>±30° |
| Fixing                                              |                                    |      | Screw / DIN rail<br>35mm                     |
| Weight                                              |                                    |      | g<br>185                                     |
| 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               | 220             |
| 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

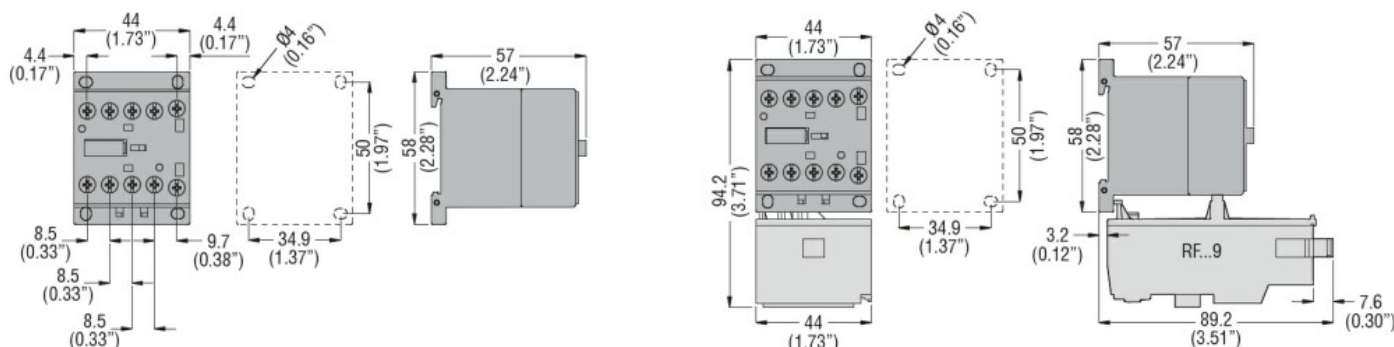
m 3000

#### Resistance & Protection

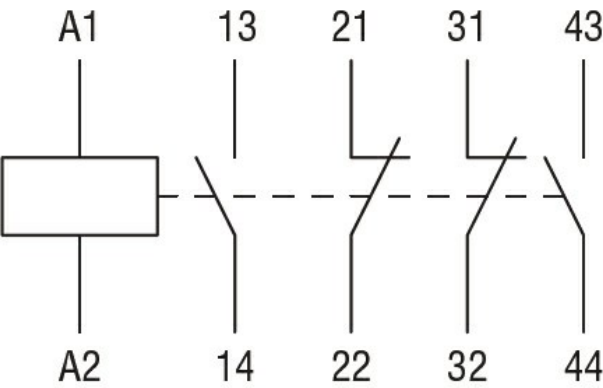
Pollution degree

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 |
|----------|-------------------------------|