



|   |          |                          |                        |
|---|----------|--------------------------|------------------------|
| 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      | Vertical plan<br>±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 60947-4-1       |  | 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

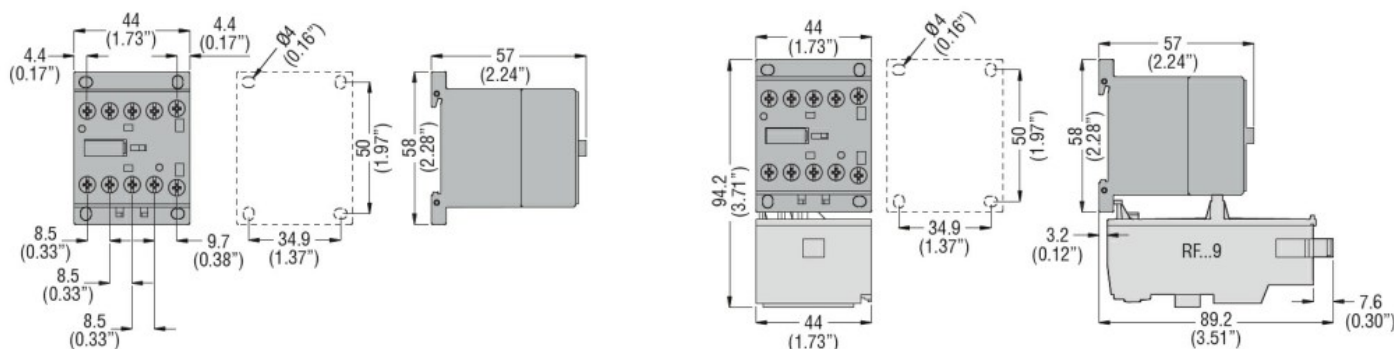
m 3000

#### Resistance & Protection

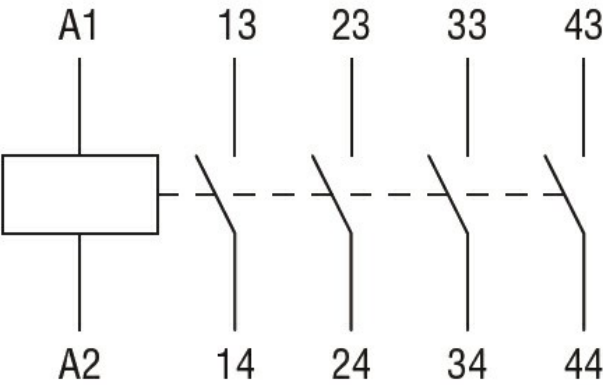
Pollution degree

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

|       |
|-------|
| CCC   |
| cULus |
| EAC   |

ETIM classification

ETIM 8.0

EC000196 -  
Contactor relay