



Product designation

Product type designation

Auxiliary  
contactor  
BG00

### Contact characteristics

|                                                    |                          |                                                |
|----------------------------------------------------|--------------------------|------------------------------------------------|
| 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<br>max               | Hz<br>Hz<br>25<br>400                          |
| IEC Conventional free air thermal current $I_{th}$ | A                        | 10                                             |
| Protection fuse                                    | gG (IEC)                 | A 16                                           |
| Tightening torque for terminals                    | min<br>max<br>min<br>max | Nm<br>Nm<br>lbin<br>lbin<br>0.8<br>1<br>9<br>9 |
| Tightening torque for coil terminal                | min<br>max<br>min<br>max | Nm<br>Nm<br>lbin<br>lbin<br>0.8<br>1<br>9<br>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

### Mechanical features

Operating position

normal  
allowable  
Vertical plan  
±30°

Fixing

Screw / DIN rail  
35mm

Weight

g 222

### 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         |
| <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    |
| EMC compatibility                                  |                 |                 | yes         |
| <b>DC coil operating</b>                           |                 |                 |             |
| DC rated control voltage                           |                 | V               | 60          |
| DC operating voltage                               |                 |                 |             |
| pick-up                                            |                 |                 |             |
|                                                    | min             | %U <sub>s</sub> | 75          |
|                                                    | max             | %U <sub>s</sub> | 115         |
| drop-out                                           |                 |                 |             |
|                                                    | min             | %U <sub>s</sub> | 10          |
|                                                    | max             | %U <sub>s</sub> | 20          |
| Average coil consumption ≤20°C                     |                 |                 |             |
|                                                    | in-rush         | W               | 3.2         |
|                                                    | holding         | W               | 3.2         |
| <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          |
| in DC                                              |                 |                 |             |
| Closing NO                                         |                 |                 |             |
|                                                    | min             | ms              | 18          |

|            |     |    |    |
|------------|-----|----|----|
| Opening NO | max | ms | 25 |
|            | min | ms | 2  |
| Closing NC | max | ms | 3  |
|            | min | ms | 3  |
| Opening NC | max | ms | 5  |
|            | min | ms | 11 |
|            | max | ms | 17 |

#### UL technical data

Rated operational voltage AC (UL) V 600

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

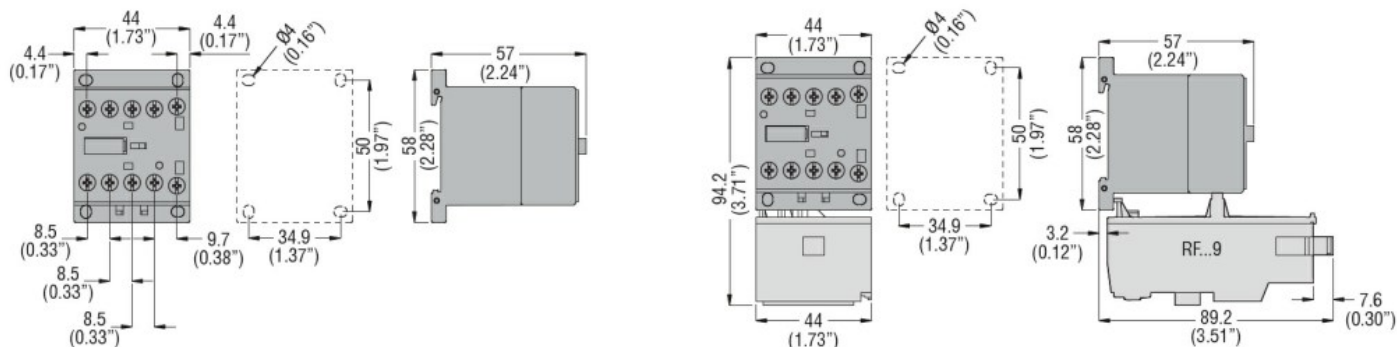
m 3000

#### Resistance & Protection

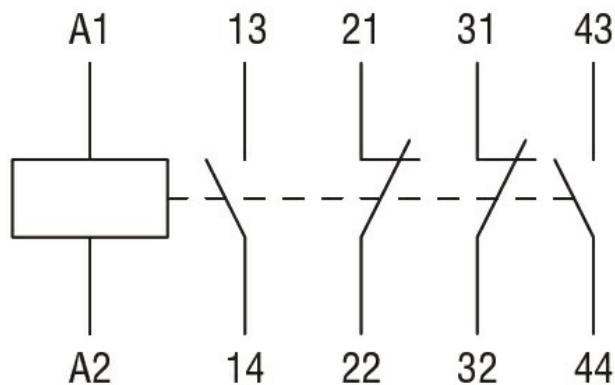
Pollution degree

3

#### Dimensions



#### Wiring diagrams



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

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CSA C22.2 n° 60947-5-1

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IEC/EN 60947-1

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IEC/EN 60947-5-1

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UL 60947-1

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UL 60947-5-1

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Certificates

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cULus

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EAC

**ETIM classification**

ETIM 8.0

EC000196 -  
Contactor relay