



Product designation

Product type designation

Auxiliary  
contactor  
BGF00

### 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      | Hz 25  |
|                                                      | max      | Hz 400 |
| IEC Conventional free air thermal current $I_{th}$   | A        | 10     |
| Short-time allowable current for 10s (IEC/EN60947-1) | A        | 0      |
| Protection fuse                                      | gG (IEC) | A 16   |
|                                                      |          |        |
| Tightening torque for terminals                      | min      | Nm 0.8 |
|                                                      | max      | Nm 1   |
|                                                      | min      | Ibin 9 |
|                                                      | max      | Ibin 9 |
| Tightening torque for coil terminal                  | min      | Nm 0.8 |
|                                                      | max      | Nm 1   |
|                                                      | min      | Ibin 9 |
|                                                      | max      | Ibin 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               | 225             |
| <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 1.1           |
|                                                    | 125V            | A 0.3           |
|                                                    | 220V            | A 0.1           |
|                                                    | 600V            | A 0.6           |
| <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               | 110             |
| DC operating voltage                               |                 |                 |
| pick-up                                            | min             | %Us 75          |
|                                                    | max             | %Us 115         |
| drop-out                                           | min             | %Us 10          |
|                                                    | max             | %Us 25          |
| 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 |
|            | 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

|                                                      |   |             |
|------------------------------------------------------|---|-------------|
| Rated operational voltage AC (UL)                    | V | 600         |
| Contact rating of auxiliary contacts according to UL |   | A600 - Q600 |

#### Ambient conditions

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -50 |
| max | °C | +70 |

Storage temperature

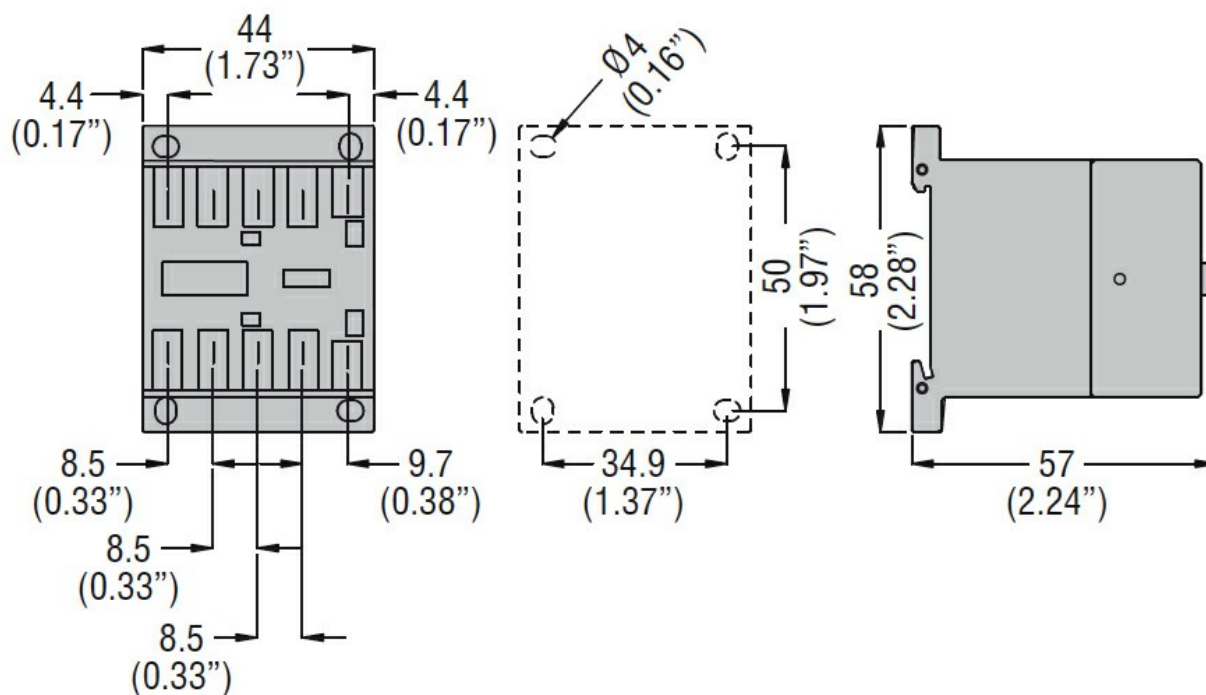
|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | +80 |

|              |   |      |
|--------------|---|------|
| Max altitude | m | 3000 |
|--------------|---|------|

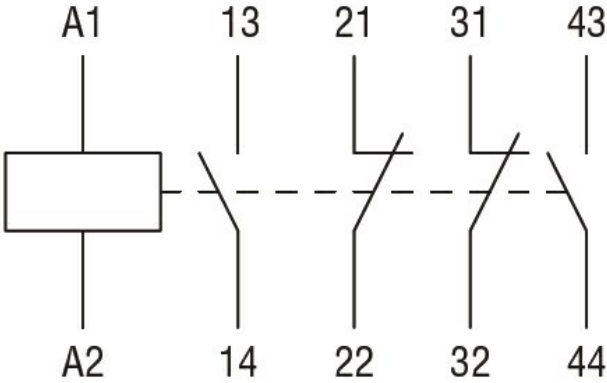
#### Resistance & Protection

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