



Auxiliary  
contactor  
BGF00

Product designation

Product type designation

### 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                                             |
| Short-time allowable current for 10s (IEC/EN60947-1) | A                        | 0                                              |
| Protection fuse                                      | gG (IEC)                 | A<br>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<br>max | mm <sup>2</sup><br>mm <sup>2</sup><br>0.75<br>2.5 |
| Flexible c/w lug conductor section                  | min<br>max | mm <sup>2</sup><br>mm <sup>2</sup><br>1.5<br>2.5  |
| Flexible with insulated spade lug conductor section | min<br>max | mm <sup>2</sup><br>mm <sup>2</sup><br>1.5<br>2.5  |

Power terminal protection according to IEC/EN 60529 IP20 when wired

### Mechanical features

Operating position

|        |                     |                                 |
|--------|---------------------|---------------------------------|
|        | normal<br>allowable | Vertical plan<br>$\pm 30^\circ$ |
| Fixing |                     | Screw / DIN rail<br>35mm        |
| Weight | g                   | 179                             |

## 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 1.1  
125V A 0.3  
220V A 0.1  
600V A 0.6

## Operations

Mechanical life cycles 20000000

## Safety related data

Performance level B10d according to EN/ISO 13489-1

mechanical load cycles 20000000

Mirror contacts according to IEC/EN 60947-4-1 YES

EMC compatibility yes

## AC coil operating

Rated AC voltage at 50/60Hz V 24

## AC operating voltage

of 50/60Hz coil powered at 50Hz  
pick-up

min %U<sub>s</sub> 75  
max %U<sub>s</sub> 115

drop-out

min %U<sub>s</sub> 20  
max %U<sub>s</sub> 55

of 50/60Hz coil powered at 60Hz  
pick-up

min %U<sub>s</sub> 80  
max %U<sub>s</sub> 115

drop-out

min %U<sub>s</sub> 20  
max %U<sub>s</sub> 55

## AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

in-rush VA 30  
holding VA 4

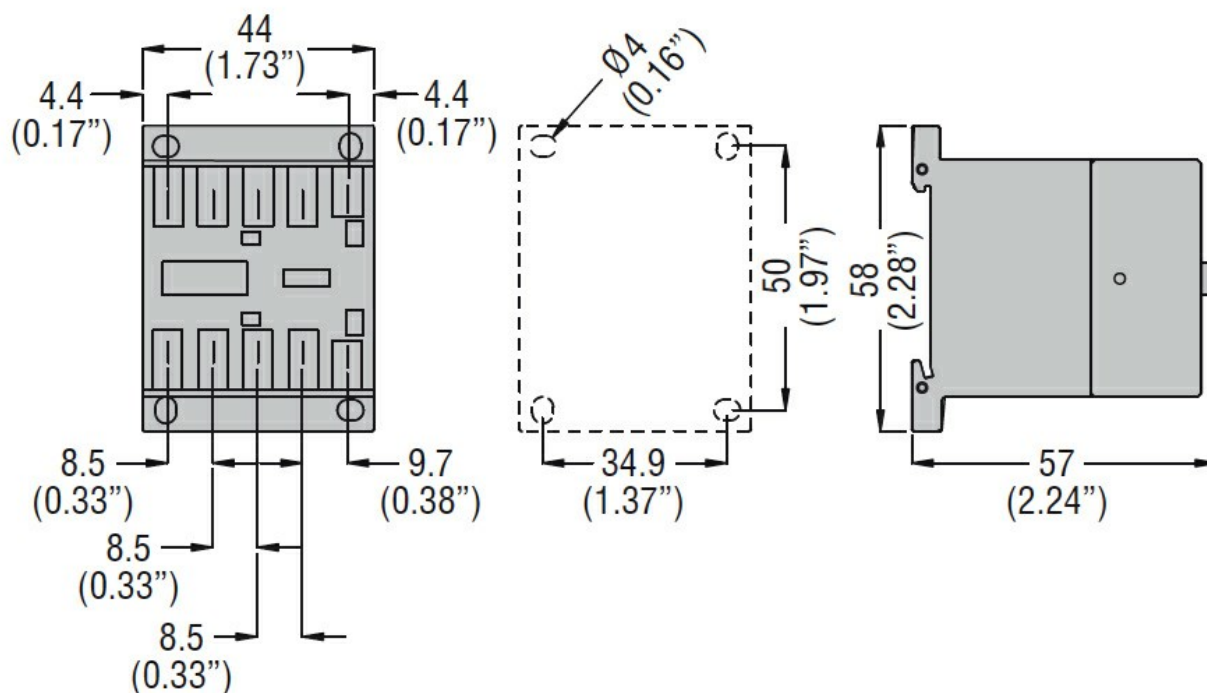
of 50/60Hz coil powered at 60Hz

in-rush VA 25  
holding VA 3

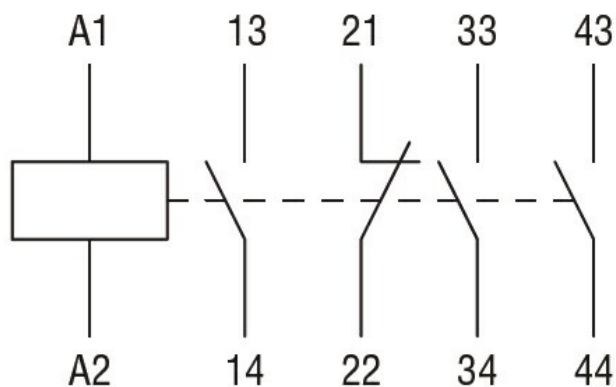
of 60Hz coil powered at 60Hz

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 Us 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                                    |  |  |          |             |
| 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