



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 | 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 | 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 wired

**Mechanical features**

Operating position

normal  
allowable  
Vertical plan  
±30°

Fixing

Screw / DIN rail  
35mm

Weight

g 225

## 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

## DC coil operating

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> | 25 |

## Average coil consumption ≤20°C

|         |   |     |
|---------|---|-----|
| in-rush | W | 3.2 |
| holding | W | 3.2 |

## Max cycles frequency

Mechanical operation cycles/h 3600

## Operating times

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

|       |            |     |    |    |
|-------|------------|-----|----|----|
| in DC |            | 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

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

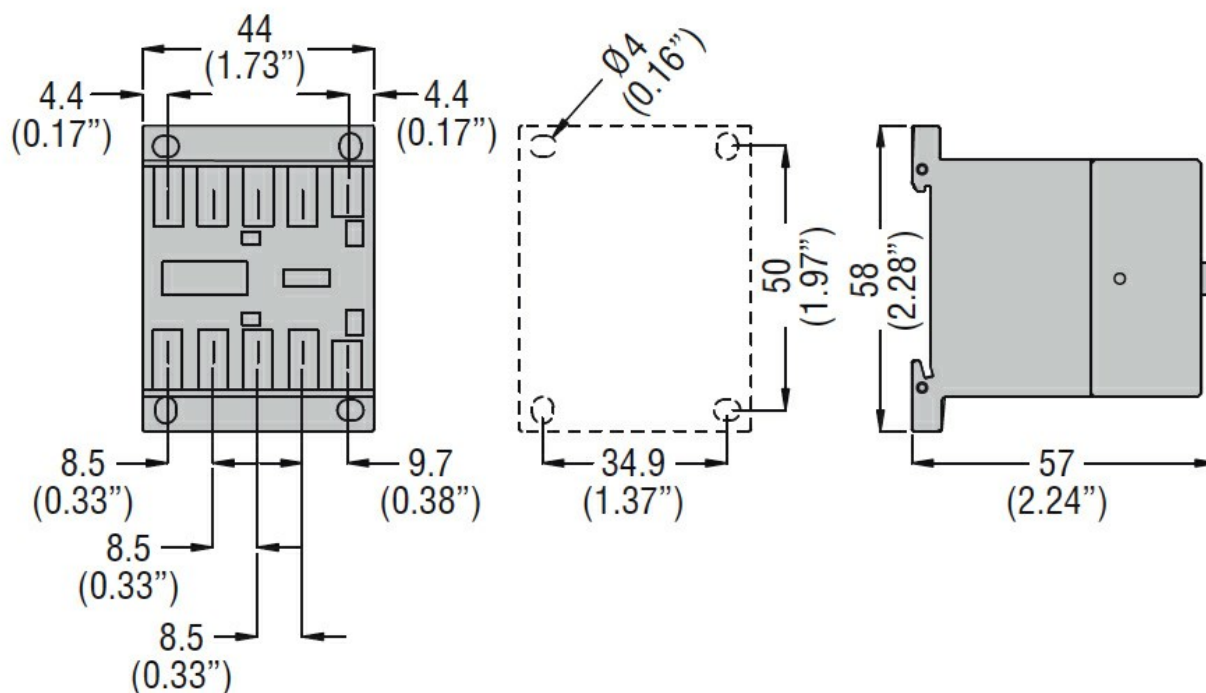
m 3000

#### Resistance & Protection

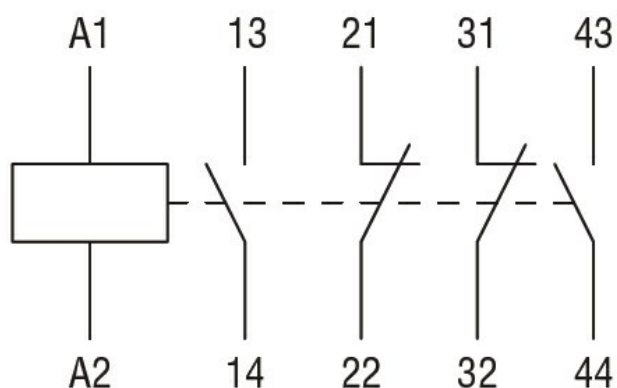
Pollution degree

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