



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 | Hz | 25  |
| max | Hz | 400 |

|                                                    |   |    |
|----------------------------------------------------|---|----|
| IEC Conventional free air thermal current $I_{th}$ | 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 | 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<br>allowable | Vertical plan<br>±30° |
|---------------------|-----------------------|

|        |                          |
|--------|--------------------------|
| Fixing | Screw / DIN rail<br>35mm |
|--------|--------------------------|

|        |   |     |
|--------|---|-----|
| Weight | g | 220 |
|--------|---|-----|

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 609474-4-1      |  | YES             |                 |
| EMC compatibility                                  |  | yes             |                 |
| DC coil operating                                  |  |                 |                 |
| DC rated control voltage                           |  | V               | 110             |
| DC operating voltage                               |  |                 |                 |
| pick-up                                            |  | min             | %Us 75          |
|                                                    |  | max             | %Us 115         |
| drop-out                                           |  | min             | %Us 10          |
|                                                    |  | max             | %Us 20          |
| 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

##### 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

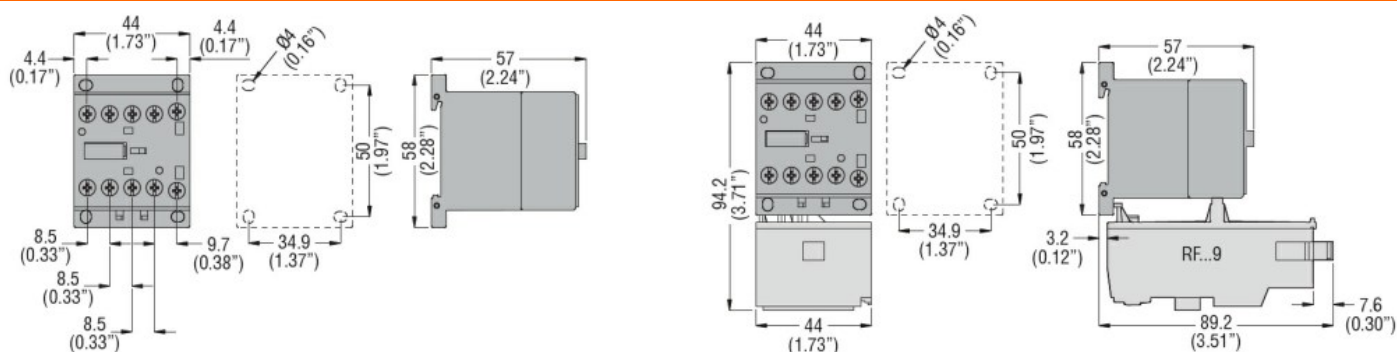
m 3000

#### Resistance & Protection

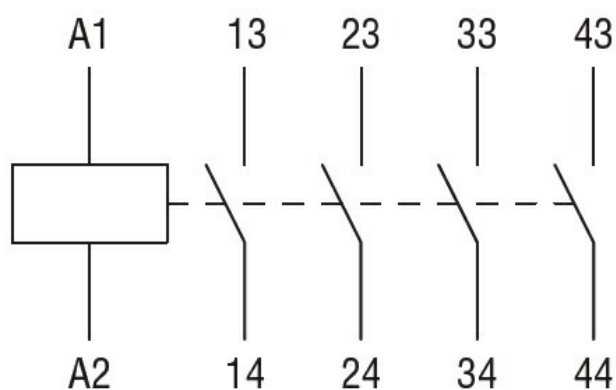
##### Pollution degree

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

cULus

EAC

## ETIM classification

ETIM 8.0

EC000196 -  
Contactor relay