



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> | 0.8 |
| 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

### Mechanical features

Operating position

|                     |                       |
|---------------------|-----------------------|
| normal<br>allowable | Vertical plan<br>±30° |
|---------------------|-----------------------|

Fixing

Screw / DIN rail  
35mm

Weight

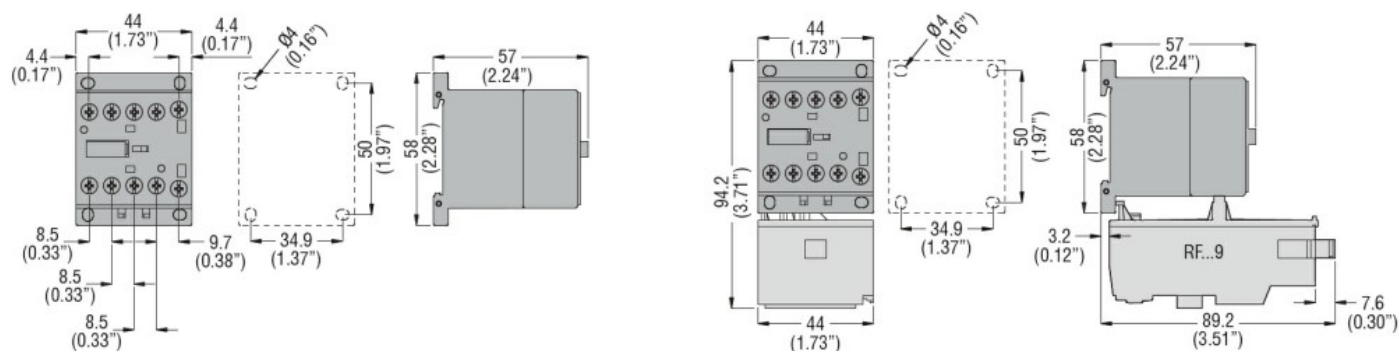
|   |     |
|---|-----|
| g | 200 |
|---|-----|

Conductor section

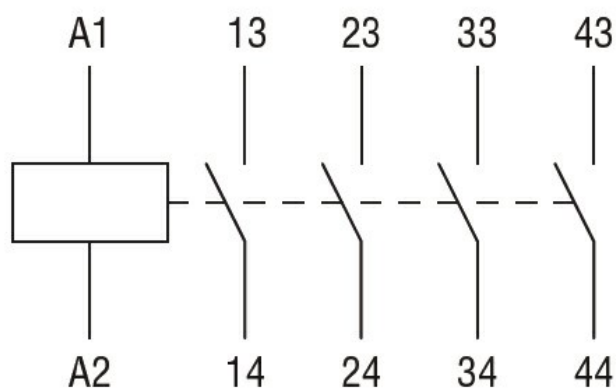
AWG/kcmil conductor section

|                                                    |  |                 |                 |
|----------------------------------------------------|--|-----------------|-----------------|
|                                                    |  | 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             |                 |
| AC coil operating                                  |  |                 |                 |
| Rated AC voltage at 50/60Hz                        |  | V               | 230             |
| AC operating voltage                               |  |                 |                 |
| of 50/60Hz coil powered at 50Hz pick-up            |  | min             | %Us 75          |
|                                                    |  | max             | %Us 115         |
| drop-out                                           |  | min             | %Us 20          |
|                                                    |  | max             | %Us 55          |
| of 50/60Hz coil powered at 60Hz pick-up            |  | min             | %Us 80          |
|                                                    |  | max             | %Us 115         |
| drop-out                                           |  | min             | %Us 20          |
|                                                    |  | max             | %Us 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          | 0.9         |
| 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                                    |  |            |             |
| 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

CCC  
cULus  
EAC

## ETIM classification

ETIM 8.0

EC000196 -  
Contactor relay