



Auxiliary  
contactor  
BG00

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 | 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 | I <sub>bin</sub> | 0.59 |
| max | I <sub>bin</sub> | 0.74 |

Tightening torque for coil terminal

|     |                  |      |
|-----|------------------|------|
| min | Nm               | 0.8  |
| max | Nm               | 1    |
| min | I <sub>bft</sub> | 0.8  |
| max | I <sub>bft</sub> | 0.74 |

Max number of wires simultaneously connectable

|     |   |
|-----|---|
| nr. | 2 |
|-----|---|

Conductor section

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  
35mm

Weight

|   |     |
|---|-----|
| g | 179 |
|---|-----|

**Auxiliary contact characteristics**

Type of contact

2 NO + 2 NC

|  |         |                 |                 |
|--|---------|-----------------|-----------------|
| Thermal current Ith                                |         | 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             |
| <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 |
| Mirror contacts according to IEC/EN 60947-4-1      |         |                 | true            |
| EMC compatibility                                  |         |                 | Yes             |
| <b>AC coil operating</b>                           |         |                 |                 |
| Rated AC voltage at 50/60Hz, 60Hz                  | min     | V               | 12              |
|  | max     | V               | 575             |
| 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 operating voltage 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            |

**DC coil operating**

DC rated control voltage

|     |   |     |
|-----|---|-----|
| min | V | 6   |
| max | V | 250 |

Average coil consumption  $\leq 20^{\circ}\text{C}$

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

**Max cycles frequency**

Mechanical operations

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 | $^{\circ}\text{C}$ | -40 |
| max | $^{\circ}\text{C}$ | 60  |

Storage temperature

|     |                    |     |
|-----|--------------------|-----|
| min | $^{\circ}\text{C}$ | -55 |
| max | $^{\circ}\text{C}$ | 70  |

Max altitude

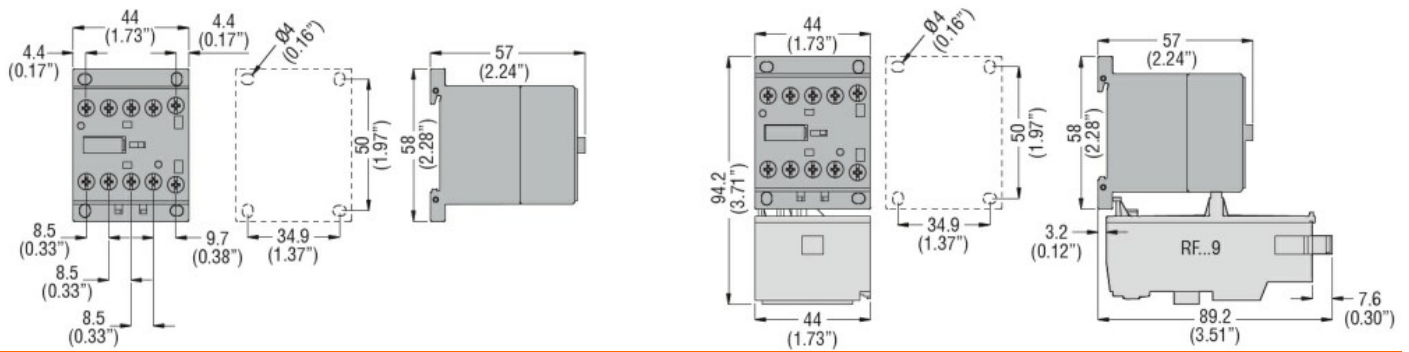
m 3000

**Resistance & Protection**

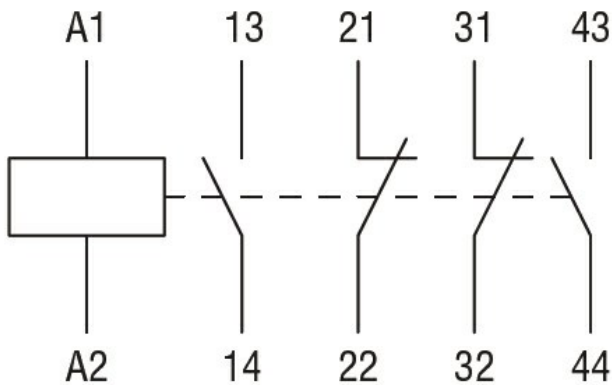
Pollution degree

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 6 classification**

EC000066 - Power contactor, AC switching