



Product designation

Product type designation

Auxiliary  
contactor  
BF00

### 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                |
| Operational current $I_e$                            | AC-1 ( $\leq 55^\circ\text{C}$ ) | A 0               |
| Short-time allowable current for 10s (IEC/EN60947-1) | A                                | 0                 |
| Protection fuse                                      | gG (IEC)                         | A 25              |
| Tightening torque for terminals                      | min                              | Nm 1.5            |
|                                                      | max                              | Nm 1.8            |
|                                                      | min                              | lbin 1.1          |
|                                                      | max                              | lbin 1.5          |
| Tightening torque for coil terminal                  | min                              | Nm 0.8            |
|                                                      | max                              | Nm 1              |
|                                                      | min                              | lbin 0.8          |
|                                                      | max                              | lbin 0.74         |
| Max number of wires simultaneously connectable       | Nr.                              | 2                 |
| Conductor section                                    | AWG/Kcmil                        |                   |
|                                                      | max                              | 10                |
| Flexible w/o lug conductor section                   | min                              | mm <sup>2</sup> 1 |
|                                                      | max                              | mm <sup>2</sup> 6 |
| Flexible c/w lug conductor section                   | min                              | mm <sup>2</sup> 1 |
|                                                      | max                              | mm <sup>2</sup> 4 |
| Flexible with insulated spade lug conductor section  | min                              | mm <sup>2</sup> 1 |
|                                                      | max                              | mm <sup>2</sup> 4 |
| Power terminal protection according to IEC/EN 60529  |                                  | IP20 when wired   |

### Mechanical features

Operating position

normal  
allowable

Vertical plan  
 $\pm 30^\circ$

|                                                    |                              |          |          |
|----------------------------------------------------|------------------------------|----------|----------|
| Fixing                                             | Screw / DIN rail<br>35mm     |          |          |
| Weight                                             | g                            | 367      |          |
| Conductor section                                  | AWG/kcmil conductor section  |          |          |
|                                                    | max                          | 10       |          |
| Auxiliary contact characteristics                  |                              |          |          |
| Thermal current I <sub>th</sub>                    | A                            | 10       |          |
| IEC/EN 60947-5-1 designation                       | A600 - P600                  |          |          |
| Operating current AC15                             | 230V                         | A        | 3        |
|                                                    | 400V                         | A        | 1.9      |
|                                                    | 500V                         | A        | 1.4      |
| Operating current DC12                             | 110V                         | A        | 5.7      |
| Operating current DC13                             | 24V                          | A        | 5.7      |
|                                                    | 48V                          | A        | 2.9      |
|                                                    | 60V                          | A        | 2.3      |
|                                                    | 110V                         | A        | 1.25     |
|                                                    | 125V                         | A        | 1.1      |
|                                                    | 220V                         | A        | 0.55     |
|                                                    | 600V                         | A        | 0.2      |
| 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 60947-4-1       | YES                          |          |          |
| EMC compatibility                                  | yes                          |          |          |
| AC coil operating                                  |                              |          |          |
| Rated AC voltage at 60Hz                           | V                            | 48       |          |
| AC operating voltage                               | of 60Hz coil powered at 60Hz |          |          |
|                                                    | pick-up                      |          |          |
|                                                    | min                          | %Us      | 80       |
|                                                    | max                          | %Us      | 110      |
|                                                    | drop-out                     |          |          |
|                                                    | min                          | %Us      | 20       |
|                                                    | max                          | %Us      | 55       |
| AC average coil consumption at 20°C                | of 60Hz coil powered at 60Hz |          |          |
|                                                    | in-rush                      | VA       | 75       |
|                                                    | holding                      | VA       | 9        |
| Dissipation at holding ≤20°C 50Hz                  | W                            | 2.5      |          |
| Max cycles frequency                               |                              |          |          |
| Mechanical operation                               | cycles/h                     | 3600     |          |
| Operating times                                    |                              |          |          |
| Average time for U <sub>s</sub> control            | in AC                        |          |          |
|                                                    | Closing NO                   |          |          |
|                                                    | min                          | ms       | 8        |
|                                                    | max                          | ms       | 24       |

Opening NO

|     |    |    |
|-----|----|----|
| min | ms | 10 |
| max | ms | 20 |

Closing NC

|     |    |    |
|-----|----|----|
| min | ms | 17 |
| max | ms | 30 |

Opening NC

|     |    |    |
|-----|----|----|
| min | ms | 7  |
| max | ms | 18 |

#### UL technical data

General USE

Auxiliary contacts

AC current A 10

Contact rating of auxiliary contacts according to UL

A600 - P600

#### Ambient conditions

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -50 |
| max | °C | 70  |

Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | 80  |

Max altitude

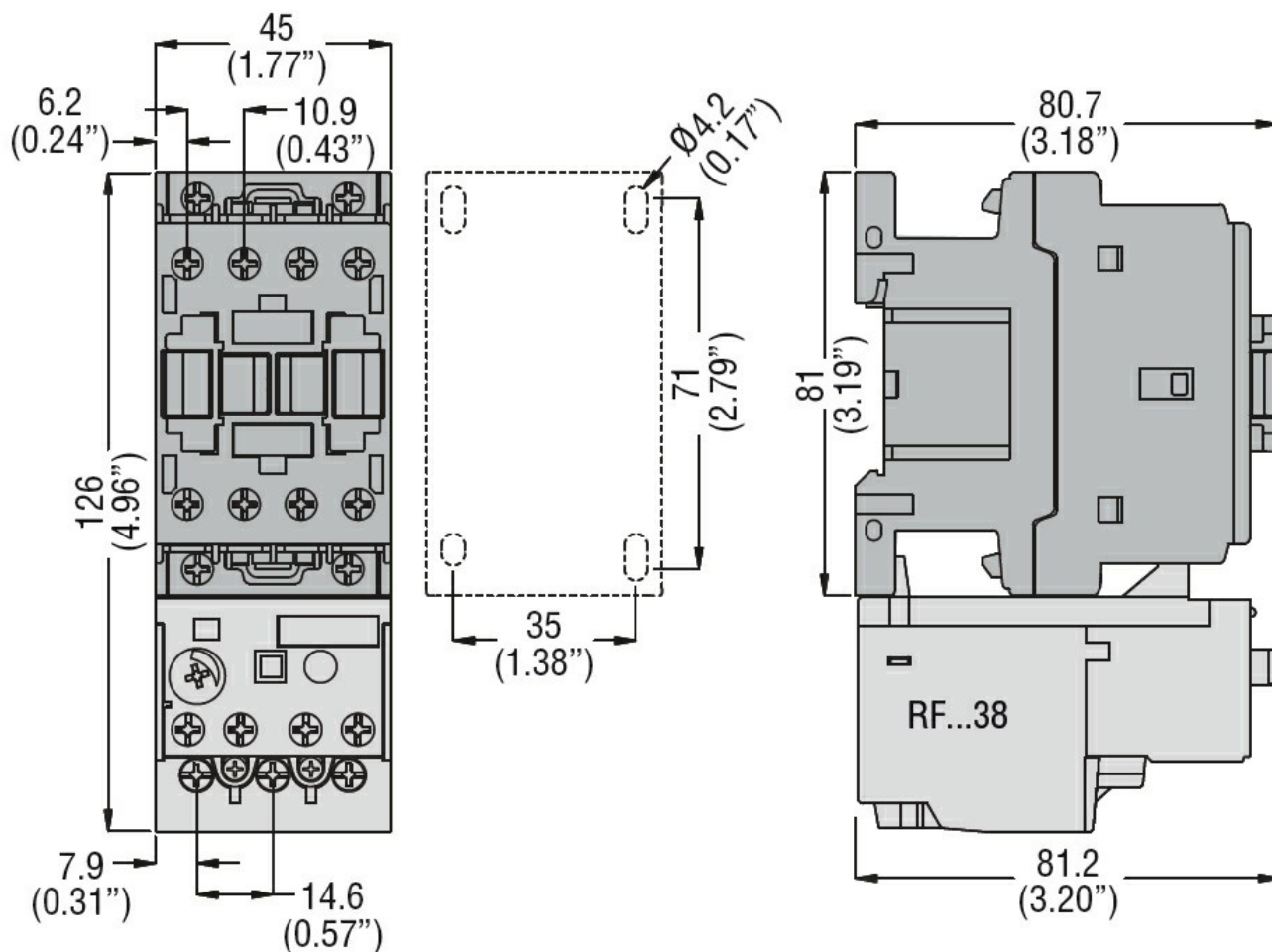
m 3000

#### Resistance & Protection

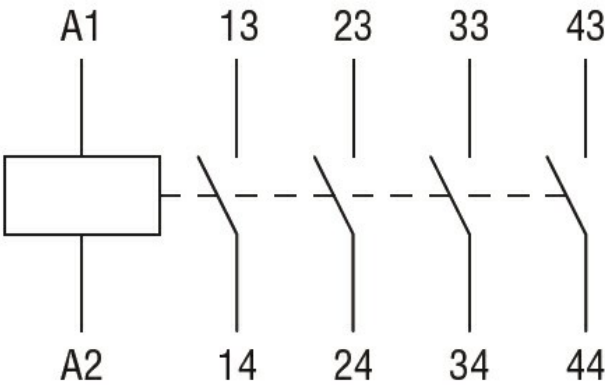
Pollution degree

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 -<br>Contactor relay |
|----------|-------------------------------|