



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 |
|----------------------------------------------------|---|----|

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  
properly wired

### Mechanical features

Operating position

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

Fixing

Screw / DIN rail  
35mm

Weight

|   |     |
|---|-----|
| g | 364 |
|---|-----|

### 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           |
| <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 |
| EMC compatibility                                  |                 | yes             |
| <b>AC coil operating</b>                           |                 |                 |
| Rated AC voltage at 50/60Hz                        | V               | 24              |
| AC operating voltage                               |                 |                 |
| of 50/60Hz coil powered at 50Hz                    |                 |                 |
| pick-up                                            | min %Us         | 80              |
|                                                    | max %Us         | 110             |
| drop-out                                           | min %Us         | 20              |
|                                                    | max %Us         | 55              |
| of 50/60Hz 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 50/60Hz coil powered at 50Hz                    | in-rush         | VA 75           |
|                                                    | holding         | VA 9            |
| of 50/60Hz coil powered at 60Hz                    | in-rush         | VA 70           |
|                                                    | holding         | VA 6.5          |
| of 60Hz coil powered at 60Hz                       | in-rush         | VA 75           |
|                                                    | holding         | VA 9            |
| Dissipation at holding ≤20°C 50Hz                  | W               | 2.5             |
| <b>Max cycles frequency</b>                        |                 |                 |
| Mechanical operation                               | cycles/h        | 3600            |
| <b>Operating times</b>                             |                 |                 |

Average time for Us control  
in AC

|            |     |    |    |
|------------|-----|----|----|
| Closing NO | min | ms | 8  |
|            | max | ms | 24 |
| Opening NO | min | ms | 10 |
|            | max | ms | 20 |
| Closing NC | min | ms | 9  |
|            | max | ms | 25 |
| Opening NC | min | ms | 9  |
|            | max | ms | 15 |

#### UL technical data

Rated operational voltage AC (UL) V 600

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

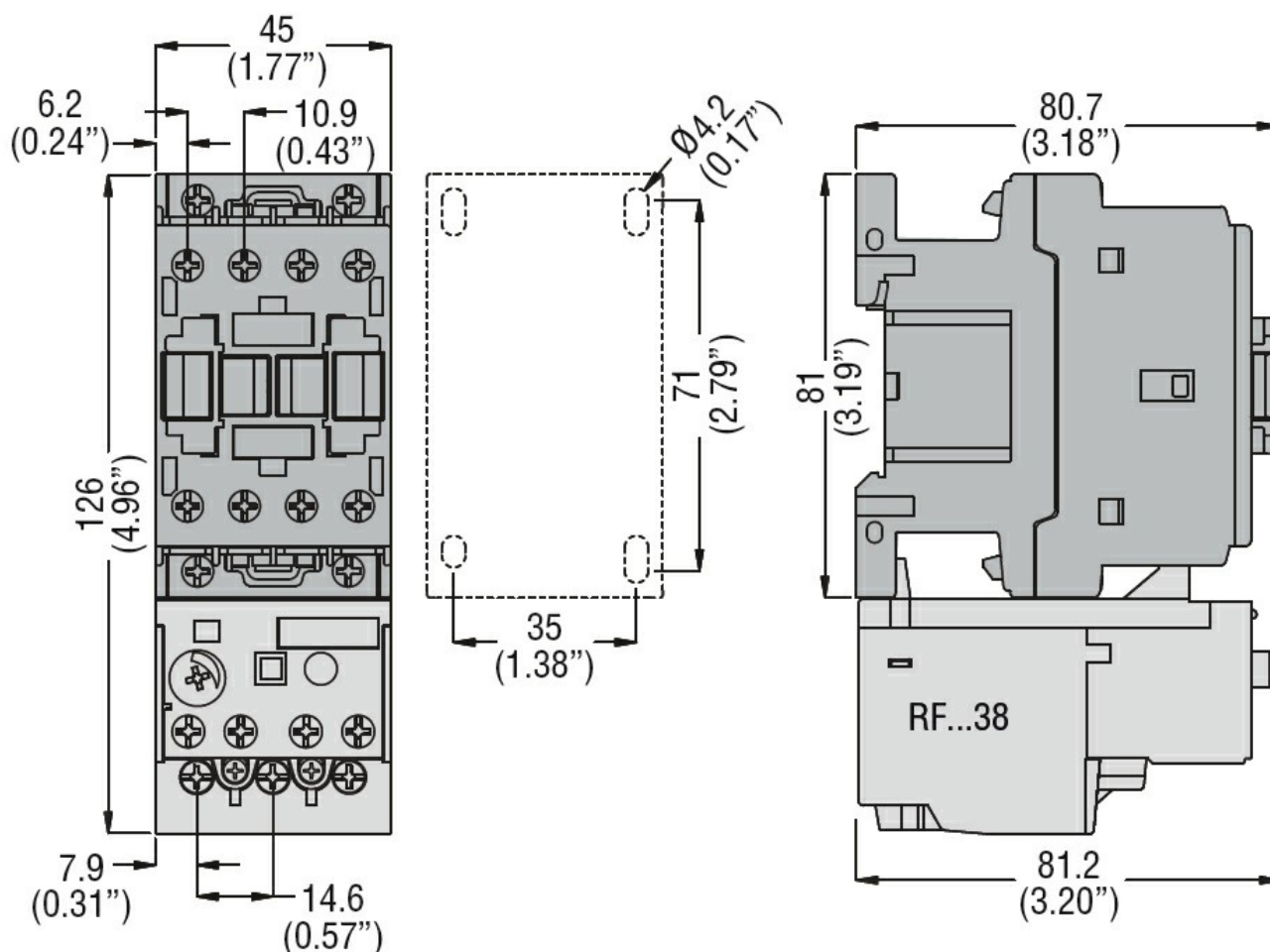
min °C -60  
max °C 80

Max altitude m 3000

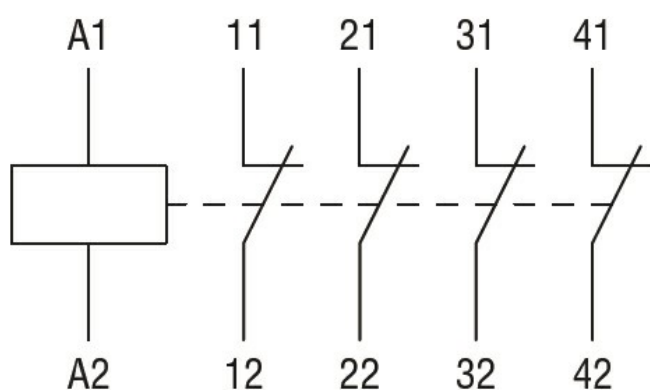
#### Resistance & Protection

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 -  
Contactor relay