



#### General characteristics

|                         |          |                     |
|-------------------------|----------|---------------------|
| Number of poles         | Nr.      | 3                   |
| Overvoltage category    |          | III                 |
| Pollution degree        |          | 3                   |
| Frontal IP degree       |          | IP20                |
| Type of release         |          | Thermal             |
| Protection fuse         |          |                     |
|                         | gG (IEC) | A 63                |
|                         | aM (IEC) | A 40                |
|                         | RK5 (UL) | A 150               |
| Phase failure detection |          | yes                 |
| Reset mode              |          | Manual or automatic |

#### Power circuit characteristics

|                                           |                         |        |
|-------------------------------------------|-------------------------|--------|
| Rated insulation voltage $U_i$ IEC/EN     | V                       | 690    |
| Rated impulse withstand voltage $U_{imp}$ | kV                      | 6      |
| Rated operational voltage                 | V                       | 690    |
| Operational frequency                     |                         |        |
|                                           | min                     | Hz 0   |
|                                           | max                     | Hz 400 |
| Operational current $I_e$                 |                         |        |
|                                           | Operational current min | A 32   |
|                                           | Operational current max | A 38   |
| Tripping class                            |                         | 10A    |
| Test Button                               |                         | Yes    |
| Trip indicator                            |                         | yes    |
| Terminals                                 |                         |        |

|       |                  |
|-------|------------------|
| type  | screw and washer |
| screw | M4               |
| width | 12.6             |
| tool  | Phillips 2       |

#### Tightening torque for terminals

|     |      |     |
|-----|------|-----|
| min | Nm   | 2   |
| max | Nm   | 2.5 |
| min | lbin | 1.5 |
| max | lbin | 1.8 |

#### Conductor section

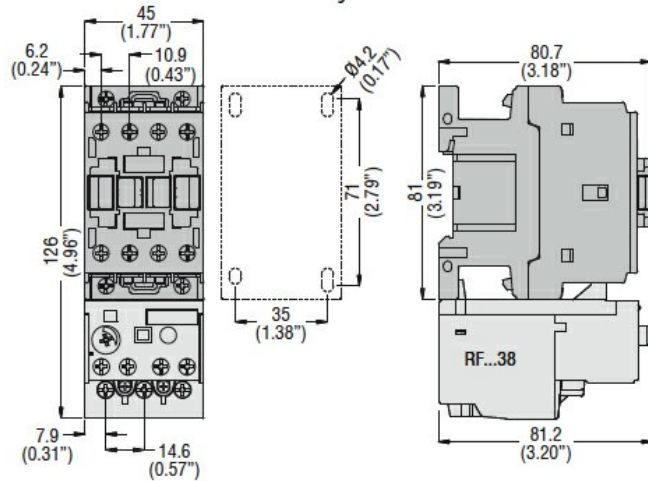
|                      |                 |    |
|----------------------|-----------------|----|
| Flexible w/o lug max | mm <sup>2</sup> | 10 |
| Flexible c/w lug max | mm <sup>2</sup> | 6  |
| AWG/kcmil max        |                 | 8  |

#### Auxiliary circuit characteristics

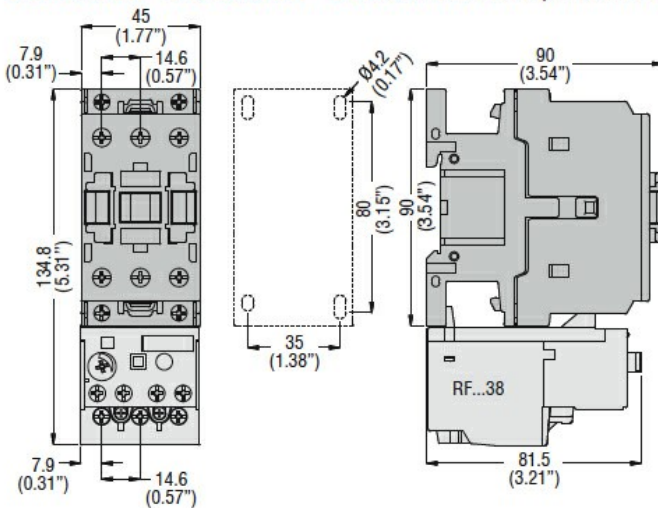
|                    |    |     |   |
|--------------------|----|-----|---|
| Auxiliary contacts |    |     |   |
|                    | NO | Nr. | 1 |
|                    | NC | Nr. | 1 |

|                                                                          |                                        |                                    |
|--------------------------------------------------------------------------|----------------------------------------|------------------------------------|
| Auxiliary Rated insulation voltage $U_i$ IEC/EN                          | V                                      | 690                                |
| Auxiliary Rated impulse withstand voltage $U_{imp}$                      | kV                                     | 6                                  |
| Auxiliary Rated operational voltage                                      | V                                      | 690                                |
| Operating current AC15                                                   |                                        |                                    |
|                                                                          | 24V                                    | A 3                                |
|                                                                          | 120V                                   | A 3                                |
|                                                                          | 240V                                   | A 1.5                              |
|                                                                          | 380V                                   | A 0.95                             |
|                                                                          | 480V                                   | A 0.75                             |
|                                                                          | 500V                                   | A 0.72                             |
|                                                                          | 600V                                   | A 0.6                              |
| Operating current DC13                                                   |                                        |                                    |
|                                                                          | 125V                                   | A 0.11                             |
|                                                                          | 600V                                   | A 0.22                             |
| IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$ | A                                      | 10                                 |
| Terminals                                                                |                                        |                                    |
|                                                                          | Auxiliary circuit type                 | screw and washer                   |
|                                                                          | Auxiliary circuit screw                | M3.5                               |
|                                                                          | Auxiliary circuit width                | mm 8                               |
|                                                                          | Auxiliary circuit tool                 | Phillips 2                         |
| Conductor section                                                        |                                        |                                    |
|                                                                          | Auxiliary circuit Flexible w/o lug max | mm <sup>2</sup> 2.5                |
|                                                                          | Auxiliary circuit Flexible c/w lug max | mm <sup>2</sup> 2.5                |
| Tightening torque for terminals                                          |                                        |                                    |
|                                                                          | Auxiliary circuit min                  | Nm 0.8                             |
|                                                                          | Auxiliary circuit max                  | Nm 1                               |
|                                                                          | Auxiliary circuit min                  | lbin 0.59                          |
|                                                                          | Auxiliary circuit max                  | lbin 0.74                          |
| UL/CSA and IEC/EN 60947-5-1 designation                                  |                                        | B600-R300                          |
| <b>Ambient conditions</b>                                                |                                        |                                    |
| Operating temperature                                                    |                                        |                                    |
|                                                                          | min                                    | $^\circ\text{C}$ -25               |
|                                                                          | max                                    | $^\circ\text{C}$ 60                |
| Storage temperature                                                      |                                        |                                    |
|                                                                          | min                                    | $^\circ\text{C}$ -50               |
|                                                                          | max                                    | $^\circ\text{C}$ 70                |
| Compensation temperature                                                 |                                        |                                    |
|                                                                          | min                                    | $^\circ\text{C}$ -20               |
|                                                                          | max                                    | $^\circ\text{C}$ 60                |
| Max altitude                                                             | m                                      | 3000                               |
| <b>Mechanical features</b>                                               |                                        |                                    |
| Operating position                                                       |                                        |                                    |
|                                                                          | normal allowable                       | Vertical plan $\pm 30^\circ$       |
| Fixing                                                                   |                                        | Direct mounting on BF09... BF38... |
| Weight                                                                   | g                                      | 160                                |
| <b>UL technical data</b>                                                 |                                        |                                    |
| Full-load current (FLA) for three-phase AC motor                         |                                        |                                    |
|                                                                          | at 480V                                | A 38                               |
|                                                                          | at 600V                                | A 38                               |
| <b>Dimensions</b>                                                        |                                        |                                    |

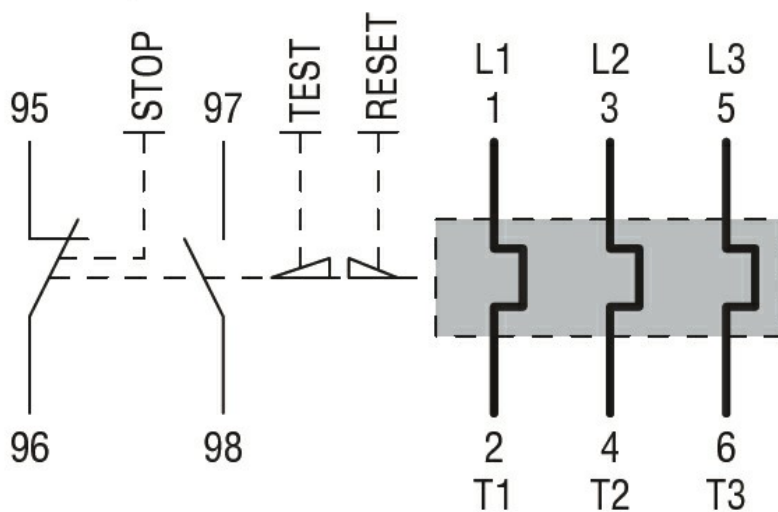
**BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A...** three poles with **RF...38** thermal overload relay



**BF26 00A... - BF32 00A... - BF38 00A...** three poles with **RF...38** thermal overload relay



**Wiring diagrams**



**Certifications and compliance**

**Compliance**

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

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UL508

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Certifications

CCC

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cULus

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EAC

ETIM classification

ETIM 8.0

EC000106 -  
Thermal overload  
relay