



**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 4                 |
|                         | aM (IEC) | A 2                 |
|                         | RK5 (UL) | A 3                 |
| 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 0.63             |
|   | Operational current max | A 1                |
| Tripping class                            |                         | 10A                |
| Test Button                               |                         | Yes                |
| Trip indicator                            |                         | yes                |
| Terminals                                 |                         |                    |
|   | type                    | screw and washer   |
|   | screw                   | M4                 |
|   | width                   | mm 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 circuit characteristics**

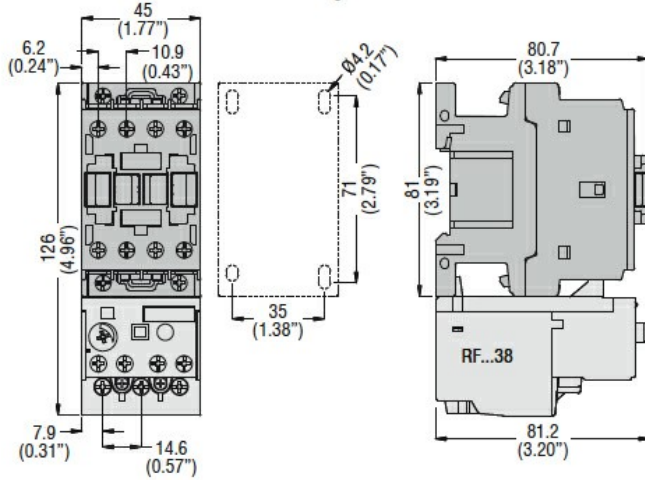
|                    |    |       |
|--------------------|----|-------|
| Auxiliary contacts |    |       |
|                    | NO | Nr. 1 |
|                    | NC | Nr. 1 |

**Auxiliary circuit characteristics**

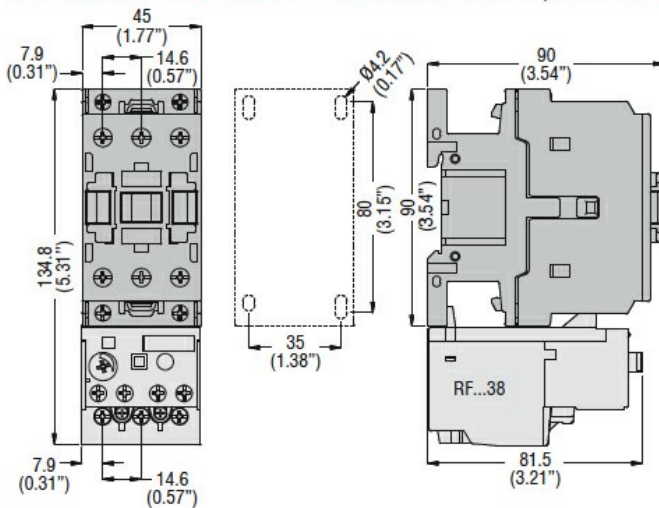
|                    |    |       |
|--------------------|----|-------|
| Auxiliary contacts |    |       |
|                    | NO | Nr. 1 |
|                    | NC | Nr. 1 |

|  |  |                                    |
|--|--|------------------------------------|
| 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                  | Ibin 0.59                          |
|  | Auxiliary circuit max                  | Ibin 0.74                          |
| UL/CSA and IEC/EN 60947-5-1 designation                                  |  | B600-R300                          |
| <b>Ambient conditions</b>  |  |                                    |
| Operating temperature  |  |                                    |
|  | min                                    | °C -25                             |
|  | max                                    | °C 60                              |
| Storage temperature  |  |                                    |
|  | min                                    | °C -50                             |
|  | max                                    | °C 70                              |
| Compensation temperature   |  |                                    |
|  | min                                    | °C -20                             |
|  | max                                    | °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 1                                |
|  | at 600V                                | A 1                                |
| <b>Dimensions</b>  |  |                                    |

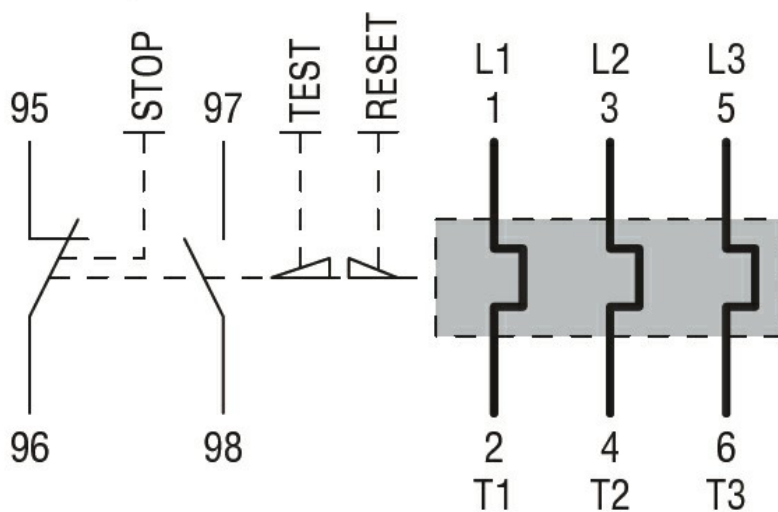
**BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A...** three poles with **RF...38** thermal overload relay



**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