## **RFN381000**



MOTOR PROTECTION RELAY, NON PHASE FAILURE / NON SINGLE PHASE SENSITIVE. THREE POLE (THREE PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 6.3...10A



|                                      |                         |              | 11.00            |
|--------------------------------------|-------------------------|--------------|------------------|
| Product designation                  |                         |              | RFN38            |
| Droduct type designation             |                         |              | Motor protection |
| Product type designation             |                         |              | relay            |
| General characteristics              |                         |              |                  |
| Number of poles                      |                         | nr.          | 3                |
| Overvoltage category                 |                         |              |                  |
| Pollution degree                     |                         |              | 3                |
| Frontal IP degree                    |                         |              | IP20             |
| Type of release                      |                         |              | Thermal          |
| Protection fuse                      |                         |              |                  |
|                                      | gG (IEC)                | А            | 20               |
|                                      | aM (IEC)                | A            | 10               |
|                                      | RK5 (UL)                | A            | 40               |
| Phase failure detection              |                         | 71           | No               |
|                                      |                         |              | Manual or        |
| Reset mode                           |                         |              | automatic        |
| Power circuit characteristics        |                         |              |                  |
| Rated insulation voltage Ui IEC/EN   |                         | V            | 690              |
| Rated impulse withstand voltage Uimp |                         | kV           | 6                |
| Rated operational voltage            |                         | V            | 690              |
| Operational frequency                |                         | •            |                  |
|                                      | min                     | Hz           | 0                |
|                                      | max                     | Hz           | 400              |
| Operational current le               | Пах                     | 1 12         | +00              |
|                                      | Operational current min | А            | 6.3              |
|                                      | Operational current max | A            | 10               |
| Tripping class                       | Operational current max | Λ            | 10A              |
| Test Button                          |                         |              | Yes              |
|                                      |                         |              | Yes              |
| Trip indicator                       |                         |              | res              |
| Terminals                            |                         |              | 0                |
|                                      | type                    |              | Screw and washer |
|                                      | oorow                   |              | M4               |
|                                      | screw<br>width          | mm           | 12.6             |
|                                      | tool                    | mm           | Phillips 2       |
| Tightening torque for terminals      | 1001                    |              |                  |
|                                      | min                     | Nm           | 2                |
|                                      | min                     | Nm<br>Nm     | 2<br>2.5         |
|                                      | max                     |              |                  |
|                                      | min                     | lbin<br>Ibin | 1.5<br>1.8       |
| Conductor section                    | max                     | חומו         | 1.0              |
|                                      | AWG/kcmil max           |              | 0                |
|                                      |                         |              | 8                |
| Auxiliary circuit characteristics    |                         |              |                  |
| Auxiliary contacts                   | NO                      | Dr.          | 1                |
|                                      | INU                     | nr.          | 1                |

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|  | NC   | or         | 1                     |
|--|--|------------|-----------------------|
| Auxiliary Rated insulation voltage Ui IEC/EN     | INC.   | nr.<br>V   | 690                   |
| Auxiliary Rated impulse withstand voltage Uimp   |  | kV         | 6                     |
| Auxiliary Rated operational voltage              |  | V          | 690                   |
| Operating current AC15                           |  | v          | 090                   |
| Operating current AC 15                          | 24V  | А          | 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                           | 0001   | 7          | 0.0                   |
| Operating current DO 15                          | 125V   | А          | 0.11                  |
|  | 600V   | A          | 0.22                  |
| IEC Conventional free air thermal current Ith    | 8007   | A          | 10                    |
| Terminals  |  | A          | 10                    |
| Terriniais                                       |  |            | Screw and             |
|  | Auxiliary circuit type                         |            | washer                |
|  | Auxiliary circuit screw                        |            | M3,5                  |
|  | Auxiliary circuit width                        | mm         | 8                     |
|  | Auxiliary circuit tool                         |            | Phillips 2            |
| Conductor section                                | Advillary circuit tool                         |            |                       |
|  | Auxiliary circuit Flexible w/o lug max         | mm²        | 2.5                   |
|  | Auxiliary circut Flexible c/w lug max          | mm²        | 2.5                   |
| Tightoning torque for terminals                  | Auxiliary circut Flexible C/w lug max          | 111111     | 2.0                   |
| Tightening torque for terminals                  |  | Nimo       | 0.0                   |
|  | Auxiliary circuit min                          | Nm         | 0.8                   |
|  | Auxiliary circuit max<br>Auxiliary circuit min | Nm<br>Ibin | 1<br>0.59             |
|  | Auxiliary circuit max                          | Ibin       | 0.74                  |
| UL/CSA and IEC/EN 60947-5-1 designation          | Auxiliary circuit max                          |            | B600-R300             |
| Ambient conditions                               |  |            | D000-K300             |
|  |  |            |                       |
| Operating temperature                            | min  | °C         | 25                    |
|  | min  | ℃<br>℃     | -25<br>60             |
| Storage temperature                              | max  | U          | 00                    |
| Siorage lemperature                              |  | °C         | 50                    |
|  | min  | °C<br>O°   | -50<br>70             |
| Compensation temperature                         | max  | C          | 10                    |
|  | min  | °C         | -20                   |
|  | max  | °C         | -20<br>60             |
| Max altitude                                     | IIIdX  |            | 3000                  |
| Mechanical features                              |  | m          | 5000                  |
| Operating position                               |  |            |                       |
|  |  |            | Vortical plan         |
|  | normal<br>allowable                            |            | Vertical plan<br>±30° |
| Weight   | allowable                                      | ~          |                       |
| Weight   |  | g          | 160                   |
| UL technical data                                |  |            |                       |
| Full-load current (FLA) for three-phase AC motor | - 1001   | ^          | 10                    |
|  | at 480V  | A          | 10                    |
| Dimensions                                       | at 600V  | A          | 10                    |
| Dimensions                                       |  |            |                       |

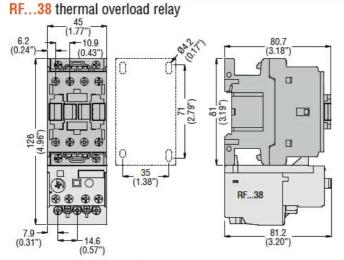
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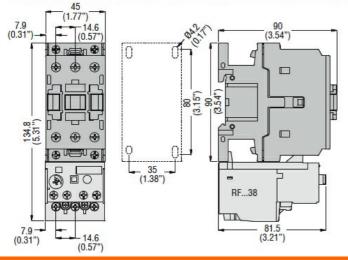
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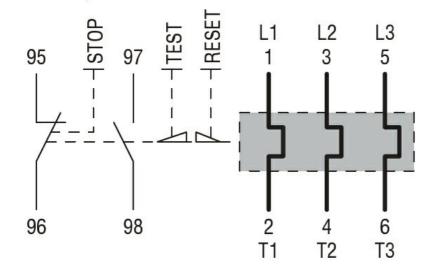
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with



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 |
|----------------|-------|
| Certifications |       |
|                | CCC   |
|                | cULus |
|                | EAC   |