



MOTOR PROTECTION RELAY, NON PHASE FAILURE/NON SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 13...18A



| Product designation | | 1000 | RFN38 |
|--------------------------------------|-------------------------|------|------------------|
| • | | | Motor protection |
| Product type designation | | | relay |
| General characteristics | | | |
| Number of poles | | Nr. | 3 |
| Overvoltage category | | | <u> </u> |
| Pollution degree | | | 3 |
| Frontal IP degree | | | IP20 |
| Type of release | | | Thermal |
| Protection fuse | | | |
| | gG (IEC) | Α | 40 |
| | aM (IEC) | Α | 25 |
| | RK5 (UL) | Α | 70 |
| Phase failure detection | | | no |
| Reset mode | | | Manual or |
| | | | 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 | | | |
| | Operational current min | Α | 13 |
| | Operational current max | Α | 18 |
| Tripping class | | | 10A |
| Test Button | | | yes |
| Trip indicator | | | yes |
| Terminals | | | |
| | type | | screw and |
| | туро | | washer |
| | screw | | M4 |
| | width | mm | 12.6 |
| | tool | | Phillips 2 |
| Tightening torque for terminals | | | |
| | min | Nm | 2 |
| | max | Nm | 2.5 |
| | min | Ibin | 1.5 |
| | max | Ibin | 1.8 |
| Conductor section | | | |
| | AWG/kcmil max | | 8 |
| Auxiliary circuit characteristics | | | |
| Auxiliary contacts | | | |
| | NO | Nr. | 1 |
| | | | |





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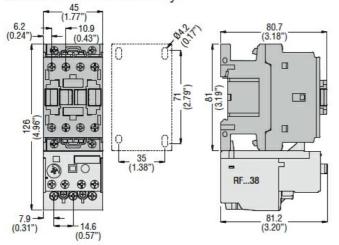
| | NC | Nr. | 1 |
|-----------------------------------------------------|----------------------------------------|----------|-------------------------|
| Auxiliary Rated insulation voltage Ui IEC/EN | INC | V | 690 |
| Auxiliary Rated impulse withstand voltage Uimp | | kV | 6 |
| Auxiliary Rated operational voltage | | V | 690 |
| Operating current AC15 | | <u> </u> | |
| operating carretines of | 24V | Α | 3 |
| | 120V | Α | 3 |
| | 240V | Α | 1.5 |
| | 380V | Α | 0.95 |
| | 480V | Α | 0.75 |
| | 500V | Α | 0.72 |
| | 600V | Α | 0.6 |
| Operating current DC13 | | | |
| | 125V | Α | 0.11 |
| | 600V | Α | 0.22 |
| IEC Conventional free air thermal current Ith | | Α | 10 |
| Terminals | | | |
| | Auxiliary circuit type | | screw and |
| | Auxiliary circuit type | | 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 | mm² | 2.5 |
| | Auxiliary circut Flexible c/w lug max | mm² | 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 |
| Ambient conditions | | | |
| Operating temperature | | | |
| | min | °C | -25 |
| | max | °C | 60 |
| Storage temperature | _ | 2.5 | |
| | min | °C | -50 -70 |
| Occurred the form to the second second | max | °C | 70 |
| Compensation temperature | _ | 0.0 | 00 |
| | min | °C | -20 |
| NA altituda | max | °C | 60 |
| Max altitude | | m | 3000 |
| Mechanical features | | | |
| Operating position | | | \/ortical mla- |
| | normal | | Vertical plan ±30° |
| | allowable | | |
| Fixing | | | Direct mounting on BF09 |
| LIMING | | | BF38 |
| Weight | | | 160 |
| UL technical data | | g | 100 |
| Full-load current (FLA) for three-phase AC motor | | | |
| Tall load dulient (i LA) for three-phase Ao filotol | at 480V | Α | 18 |
| | at 600V | A | 18 |
| | at 000 V | | 10 |

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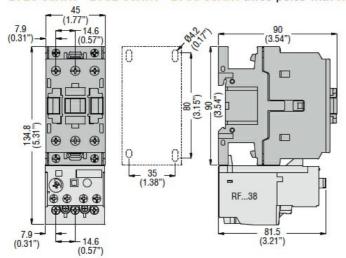
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Dimensions

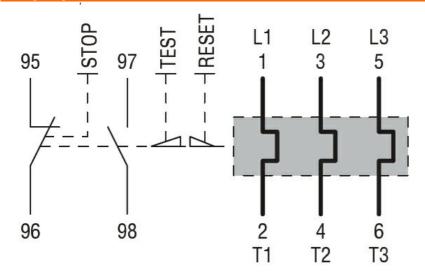
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with RF...38 thermal overload relay



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



ENERGY AND AUTOMATION

RFN381800

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| | IEC/EN 60947-4-1 UL508 | |
|---------------------|---------------------------|--|
| | | |
| Certifications | | |
| | CCC | |
| | cULus | |
| | EAC | |
| ETIM classification | | |

ETIM classification

ETIM 8.0

EC000106 -Thermal overload relay