

ENERGY AND AUTOMATION

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE electric (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 20...25A



| Product designation | | | RF38 |
|---|-------------------------|----------|------------------------|
| Product type designation | | | Motor protection relay |
| General characteristics | | | |
| Number of poles | | Nr. | 3 |
| Overvoltage category | | | 111 |
| Pollution degree | | | 3 |
| Frontal IP degree | | | IP20 |
| Type of release | | | Thermal |
| Protection fuse | | | |
| | gG (IEC) | Α | 50 |
| | aM (IEC) | Α | 32 |
| | RK5 (UL) | Α | 100 |
| Phase failure detection | | | Yes |
| 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 | 20 |
| | Operational current max | Α | 25 |
| Tripping class | | | 10A |
| Test Button | | | yes |
| Trip indicator | | | yes |
| Terminals | | | |
| | type | | screw and |
| | | | washer |
| | SCrew | | M4 |
| | width tool | mm | 12.6 |
| Tightoning torque for terminals | 1001 | | Phillips 2 |
| Tightening torque for terminals | min | Nlm | 2 |
| | min | Nm Nm | 2 2.5 |
| | max min | Ibin | 2.5 1.5 |
| | max | Ibin | 1.8 |
| Conductor section | IIIdX | ווטו | 1.0 |
| Conductor Section | AWG/kcmil max | | 8 |
| Auxiliary circuit characteristics | AVVG/RCITIII IIIdX | | |
| Auxiliary circuit characteristics Auxiliary contacts | | | |
| Administry Contacts | NO | Nr. | 1 |
| | 140 | 1 11. | 1 |



MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE electric (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 20...25A

ENERGY AND AUTOMATION

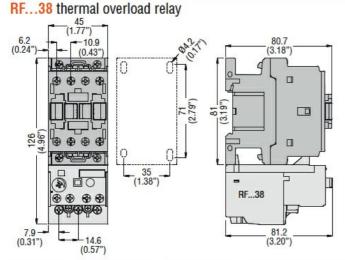
| | NC | Nr. | |
|--|--|-------|-----------------------|
| Auxiliary Rated insulation voltage Ui IEC/EN | | V | 690 |
| Auxiliary Rated impulse withstand voltage Uimp | | kV | 6 |
| Auxiliary Rated operational voltage | | V | 690 |
| Operating current AC15 | | | |
| | 24V | Α | 3 |
| | 120V | Α | 3 |
| | 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 | | | |
| | | | 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 | rianiary energy remains on ring man | | |
| rightoning torquo for terminate | Auxiliary circuit min | Nm | 0.8 |
| | Auxiliary circuit max | Nm | 1 |
| | Auxiliary circuit max Auxiliary circuit min | Ibin | 0.59 |
| | Auxiliary circuit max | Ibin | 0.74 |
| UL/CSA and IEC/EN 60947-5-1 designation | raxilary circuit max | 10111 | B600-R300 |
| Ambient conditions | | | B000 11000 |
| Operating temperature | | | |
| Operating temperature | min | °C | -25 |
| | max | °C | 60 |
| Storage temperature | max | | |
| Storage temperature | min | °C | -50 |
| | max | °C | -50 70 |
| Compensation temperature | illax | | 10 |
| Compensation temperature | min | °C | -20 |
| | max | °C | 60 |
| Max altitude | illax | | 3000 |
| Mechanical features | | m | 3000 |
| Operating position | | | |
| Operating position | normal | | Vertical plan |
| | allowable | | Vertical plan ±30° |
| | allowable | | Direct mounting |
| Fixing | | | on BF09 |
| i Mily | | | BF38 |
| Weight | | g | 160 |
| UL technical data | | 9 | |
| Full-load current (FLA) for three-phase AC motor | | | |
| . a load outlone (i Ex) for tilloo pridoo no filotol | at 480V | Α | 25 |
| | at 400V | A | 25 |
| | at 500 V | , , | |

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE **electric** (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 20...25A

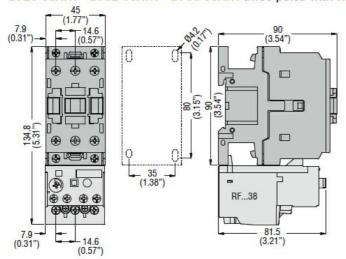
ENERGY AND AUTOMATION

Dimensions

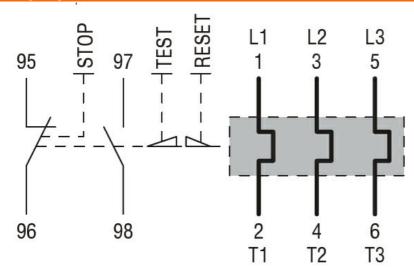
BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A... three poles with



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



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

RF382500



ENERGY AND AUTOMATION

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE electric (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING. DIRECT MOUNTING ON BF09 - BF38 CONTACTORS, 20...25A

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

ETIM classification

ETIM 8.0

EC000106 -Thermal overload relay