

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.2...0.33A



| Product designation | | | 11RF9 |
|---|---|------------------------|---|
| Product type designation | | | Motor protection relay |
| 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) | Α | 1 |
| | aM (IEC) | Α | 0.5 |
| | RK5 (UL) | Α | 1 |
| Phase failure detection | | | yes |
| Reset mode | | | Manual |
| Power circuit characteristics | | | |
| Rated insulation voltage Ui IEC/EN | | V | 690 |
| Rated impulse withstand voltage Uimp | | kV | 8 |
| Rated operational voltage | | V | 690 |
| Operational frequency | | | |
| | min | Hz | 0 |
| | max | Hz | 400 |
| Operational current le | | | |
| • | | | |
| | Operational current min | Α | 0.2 |
| | Operational current min Operational current max | A A | 0.2 0.33 |
| Tripping class | Operational current min Operational current max | A A | 0.33 |
| Tripping class Test Button | | | 0.33 10A |
| Test Button | | | 0.33 10A yes |
| Test Button Trip indicator | | | 0.33 10A |
| Test Button | Operational current max | | 0.33 10A yes yes |
| Test Button Trip indicator | | | 0.33 10A yes yes screw and |
| Test Button Trip indicator | Operational current max | | 0.33 10A yes yes |
| Test Button Trip indicator | Operational current max type screw | | 0.33 10A yes yes screw and washer M4 |
| Test Button Trip indicator | Operational current max type | A | 0.33 10A yes yes screw and washer M4 9.8 |
| Test Button Trip indicator Terminals | Operational current max type screw width | A | 0.33 10A yes yes screw and washer M4 |
| Test Button Trip indicator | Operational current max type screw width | A | 0.33 10A yes yes screw and washer M4 9.8 Phillips 2 |
| Test Button Trip indicator Terminals | type screw width tool min | Mm Nm | 0.33 10A yes yes screw and washer M4 9.8 Phillips 2 |
| Test Button Trip indicator Terminals | type screw width tool min max | mm Nm Nm | 0.33 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 |
| Test Button Trip indicator Terminals | type screw width tool min | Mm Nm | 0.33 10A yes yes screw and washer M4 9.8 Phillips 2 |
| Test Button Trip indicator Terminals | type screw width tool min max min | mm Nm Nm Ibin | 0.33 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 |
| Test Button Trip indicator Terminals Tightening torque for terminals | type screw width tool min max min | mm Nm Nm Ibin | 0.33 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7 |
| Test Button Trip indicator Terminals Tightening torque for terminals Conductor section | type screw width tool min max min max min max | mm Nm Nm Ibin | 0.33 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 |
| Test Button Trip indicator Terminals Tightening torque for terminals Conductor section Auxiliary circuit characteristics | type screw width tool min max min max min max | mm Nm Nm Ibin | 0.33 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7 |
| Test Button Trip indicator Terminals Tightening torque for terminals Conductor section | type screw width tool min max min max AWG/kcmil max | mm Nm Nm Ibin Ibin | 0.33 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7 |
| Test Button Trip indicator Terminals Tightening torque for terminals Conductor section Auxiliary circuit characteristics | type screw width tool min max min max min max | mm Nm Nm Ibin | 0.33 10A yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7 |

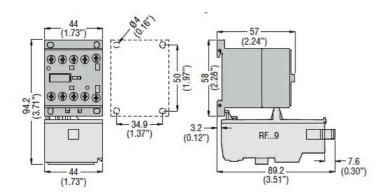


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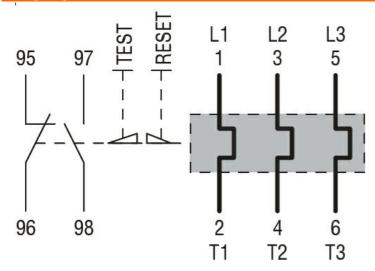
| Auxiliary Rated insulation voltage Ui IEC/EN | | V | 690 |
|--|--|--------|-----------------------|
| Auxiliary Rated insulation voltage of IEC/EN Auxiliary Rated impulse withstand voltage Uimp | | kV | 6 |
| Auxiliary Rated impulse withstand voltage oimp | | V | 690 |
| Operating current AC15 | | V | 090 |
| Operating current AC15 | 241/ | ۸ | 0 |
| | 24V 120V | A | 3 3 |
| | 240V | A | |
| | 380V | A A | 1.5 0.95 |
| | 480V | A | 0.75 |
| | 500V | | 0.73 |
| | 600V | A A | 0.6 |
| Operating current DC12 | 800 V | Α | 0.0 |
| Operating current DC13 | 125V | Α | 0.11 |
| | 600V | A | 0.11 |
| IEC Conventional free air thermal current Ith | 800 V | A | 10 |
| Terminals | | A | 10 |
| remillals | | | oorou: and |
| | Auxiliary circuit type | | screw and washer |
| | Auxiliary circuit screw | | M3,5 |
| | Auxiliary circuit screw Auxiliary circuit width | mm | 1VI3,5 8 |
| | Auxiliary circuit widin | 111111 | Phillips 1 |
| Conductor section | Advillary circuit tool | | т піпірэ т |
| Conductor Section | Auxiliary circuit Flexible w/o lug max | mm² | 2.5 |
| | Auxiliary circuit Flexible c/w lug max | mm² | 2.5 |
| Tightening torque for terminals | Addition of the control of the contr | 111111 | 2.5 |
| rightering torque for terminals | Auxiliary circuit min | Nm | 1 |
| | Auxiliary circuit max | Nm | 1 |
| | Auxiliary circuit max Auxiliary circuit min | Ibin | 0.74 |
| | Auxiliary circuit max | Ibin | 0.74 |
| UL/CSA and IEC/EN 60947-5-1 designation | Addition y circuit max | 10111 | B600-P600 |
| Ambient conditions | | | D000-1 000 |
| Operating temperature | | | |
| Operating temperature | min | °C | -20 |
| | max | °C | 55 |
| Storage temperature | IIIdA | | |
| Otorago temperature | min | °C | -55 |
| | | °C | 70 |
| Compensation temperature | max | | 10 |
| Compensation temperature | min | °C | -15 |
| | max | °C | - 15 55 |
| Max altitude | ilidx | m | 3000 |
| Mechanical features | | 111 | 3000 |
| Operating position | | | |
| Operating position | normal | | Vertical plan |
| | allowable | | Vertical plan ±30° |
| | allowable | | Direct mounting |
| Fixing | | | on BG06 |
| | | | BG09 BG12 |
| Weight | | g | 116 |
| UL technical data | | | |
| Full-load current (FLA) for three-phase AC motor | | | |
| | at 480V | Α | 0.33 |
| | at 600V | Α | 0.33 |
| Dimensions | | | |
| | | | |

ENERGY AND AUTOMATION

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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

Certifications

CCC

CSA

cULus

EAC

ETIM classification

ETIM 8.0

EC000106 -

Thermal overload

relay