

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.6...1A



| 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 | 4 |
| | aM (IEC) | Α | 2 |
| | RK5 (UL) | Α | 3 |
| 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 outrons to | On a rational accuracy rain | ۸ | 0.0 |
| | Operational current min | Α. | () h |
| | Operational current max | A A | 0.6 1 |
| Tripping class | Operational current max | A | 1 |
| Tripping class Test Button | - | | 1 10A |
| Test Button | - | | 1 10A yes |
| Test Button Trip indicator | - | | 1 10A |
| Test Button | - | | 1 10A yes yes |
| Test Button Trip indicator | - | | 1 10A yes yes screw and |
| Test Button Trip indicator | Operational current max | | 1 10A yes yes screw and washer |
| Test Button Trip indicator | Operational current max type screw | A | 1 10A yes yes screw and washer M4 |
| Test Button Trip indicator | Operational current max type screw width | | 1 10A yes yes screw and washer M4 9.8 |
| Test Button Trip indicator Terminals | Operational current max type screw | A | 1 10A yes yes screw and washer M4 |
| Test Button Trip indicator | Operational current max type screw width tool | mm | 1 10A yes yes screw and washer M4 9.8 Phillips 2 |
| Test Button Trip indicator Terminals | type screw width tool min | mm Nm | 1 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 | 1 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 | 1 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 |
| Trip indicator Terminals Tightening torque for terminals | type screw width tool min max | mm Nm Nm | 1 10A yes yes screw and washer M4 9.8 Phillips 2 |
| Test Button Trip indicator Terminals | type screw width tool min max min max min max | mm Nm Nm Ibin | 1 10A yes 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 | mm Nm Nm Ibin | 1 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 | 1 10A yes 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 | 1 10A yes 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 AWG/kcmil max | mm Nm Ibin Ibin | 1 10A yes 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 AWG/kcmil max | mm Nm Nm Ibin Ibin | 1 10A yes yes yes screw and washer M4 9.8 Phillips 2 2.3 2.3 1.7 1.7 |



ENERGY AND AUTOMATION

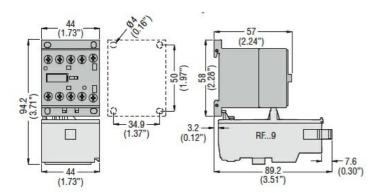
MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.6...1A

| 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 | A | 0.72 |
| O | 600V | A | 0.6 |
| Operating current DC13 | 405)/ | Δ. | 0.44 |
| | 125V | A | 0.11 |
| IFO Commention of force of the arms of the | 600V | A | 0.22 |
| IEC Conventional free air thermal current Ith | | Α | 10 |
| Terminals | | | oorow end |
| | Auxiliary circuit type | | screw and washer |
| | Auxiliary circuit screw | | M3,5 |
| | Auxiliary circuit screw | mm | 8 |
| | Auxiliary circuit tool | ******* | Phillips 1 |
| Conductor section | Adamary official tool | | 1 11111p3 1 |
| Conductor Cocion | Auxiliary circuit Flexible w/o lug max | mm² | 2.5 |
| | Auxiliary circut Flexible c/w lug max | mm² | 2.5 |
| Tightening torque for terminals | . termier, eneut i termete e, ii tag men | | |
| riginesining to que les terminale | Auxiliary circuit min | Nm | 1 |
| | Auxiliary circuit max | Nm | 1 |
| | Auxiliary circuit min | lbin | 0.74 |
| | Auxiliary circuit max | lbin | 0.74 |
| UL/CSA and IEC/EN 60947-5-1 designation | • | | B600-P600 |
| Ambient conditions | | | |
| Operating temperature | | | |
| | min | °C | -20 |
| | max | °C | 55 |
| Storage temperature | | | |
| | min | °C | -55 |
| | max | °C | 70 |
| Compensation temperature | | | |
| | min | °C | -15 |
| | max | °C | 55 |
| Max altitude | | m | 3000 |
| Mechanical features | | | |
| Operating position | | | |
| | normal | | Vertical plan |
| | allowable | | ±30° |
| | | | Direct mounting |
| Fixing | | | on BG06 |
| Woight | | ~ | BG09 BG12 |
| Weight UL technical data | | g | 116 |
| | | | |
| Full-load current (FLA) for three-phase AC motor | at 480V | ٨ | 1 |
| | at 480V at 600V | A A | 1 1 |
| Dimensions [mm (in)] | at 000 V | | ' |
| | | | |

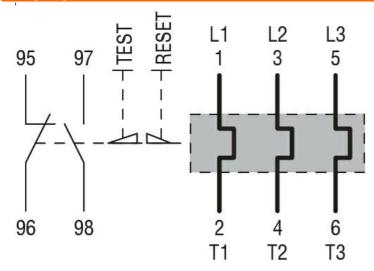


ENERGY AND AUTOMATION

MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL RESETTING. DIRECT MOUNTING ON BG06, BG09, BG12 MINI-CONTACTORS, 0.6...1A



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