



| | |
|--------------------------|------------------------|
| 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) | A 4 |
| | aM (IEC) | A 2 |
| | RK5 (UL) | A 6 |
| Phase failure detection | | yes |
| Reset mode | | Manual |

Power circuit characteristics

| | | |
|---|-------------------------|--------|
| Rated insulation voltage U_i IEC/EN | V | 690 |
| Rated impulse withstand voltage U_{imp} | kV | 8 |
| Rated operational voltage | V | 690 |
| Operational frequency | | |
| | min | Hz 0 |
| | max | Hz 400 |
| Operational current I_e | | |
| | Operational current min | A 0.9 |
| | Operational current max | A 1.5 |
| Tripping class | | 10A |
| Test Button | | yes |
| Trip indicator | | yes |

| | | | |
|-----------|-------|----|------------------|
| Terminals | | | |
| | type | | screw and washer |
| | screw | | M4 |
| | width | mm | 9.8 |
| | tool | | Phillips 2 |

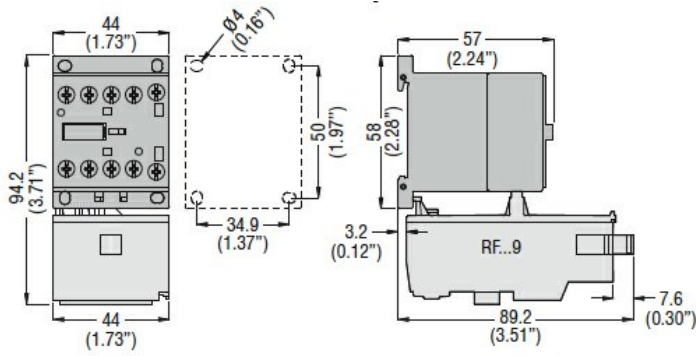
| | | | |
|---------------------------------|-----|------|-----|
| Tightening torque for terminals | | | |
| | min | Nm | 2.3 |
| | max | Nm | 2.3 |
| | min | lbin | 1.7 |
| | max | lbin | 1.7 |

| | | |
|-------------------|---------------|----|
| Conductor section | | |
| | AWG/kcmil max | 10 |

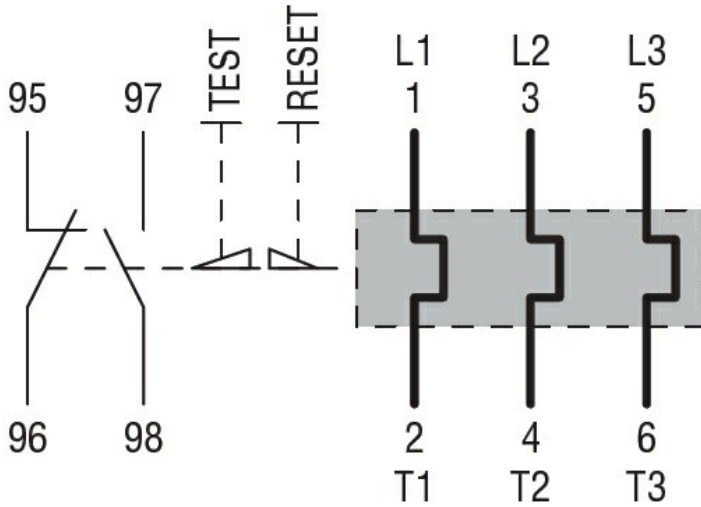
Auxiliary circuit characteristics

| | | | |
|--------------------|----|-----|---|
| Auxiliary contacts | | | |
| | NO | Nr. | 1 |
| | NC | Nr. | 1 |

| | | |
|---|--|--|
| Auxiliary Rated insulation voltage U_i IEC/EN | V | 690 |
| Auxiliary Rated impulse withstand voltage U_{imp} | kV | 6 |
| Auxiliary Rated operational voltage | V | 690 |
| Operating current AC15 | | |
| | 24V | A 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 | | |
| | 125V | A 0.11 |
| | 600V | A 0.22 |
| IEC Conventional free air thermal current I_{th} | A | 10 |
| Terminals | | |
| | Auxiliary circuit type | screw and washer |
| | Auxiliary circuit screw | M3,5 |
| | Auxiliary circuit width | mm 8 |
| | Auxiliary circuit tool | Phillips 1 |
| Conductor section | | |
| | Auxiliary circuit Flexible w/o lug max | mm ² 2.5 |
| | Auxiliary circuit Flexible c/w lug max | mm ² 2.5 |
| Tightening torque for terminals | | |
| | 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 allowable | Vertical plan ±30° |
| Fixing | | Direct mounting on BG06... BG09... BG12... |
| Weight | g | 116 |
| UL technical data | | |
| Full-load current (FLA) for three-phase AC motor | | |
| | at 480V | A 1.5 |
| | at 600V | A 1.5 |
| Dimensions | | |



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