



Product designation

RF82

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 200 |
| | aM (IEC) | A 100 |
| | K5 (UL) | A 250 |
| 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 max | Hz Hz 0 400 |
| Operational current I_e | | |
| | Operational current min | A 60 |
| | Operational current max | A 82 |
| Tripping class | | 10A |
| Test Button | | yes |
| Trip indicator | | yes |

Terminals

| | |
|-------|------------|
| type | Yoke clamp |
| screw | M5 |
| width | 9 |
| tool | Phillips 2 |

Tightening torque for terminals

| | | |
|-----|------|------|
| min | Nm | 3.9 |
| max | Nm | 3.9 |
| min | lbin | 2.88 |
| max | lbin | 2.88 |

Conductor section

| | |
|---------------|---|
| AWG/kcmil max | 2 |
|---------------|---|

Auxiliary circuit characteristics

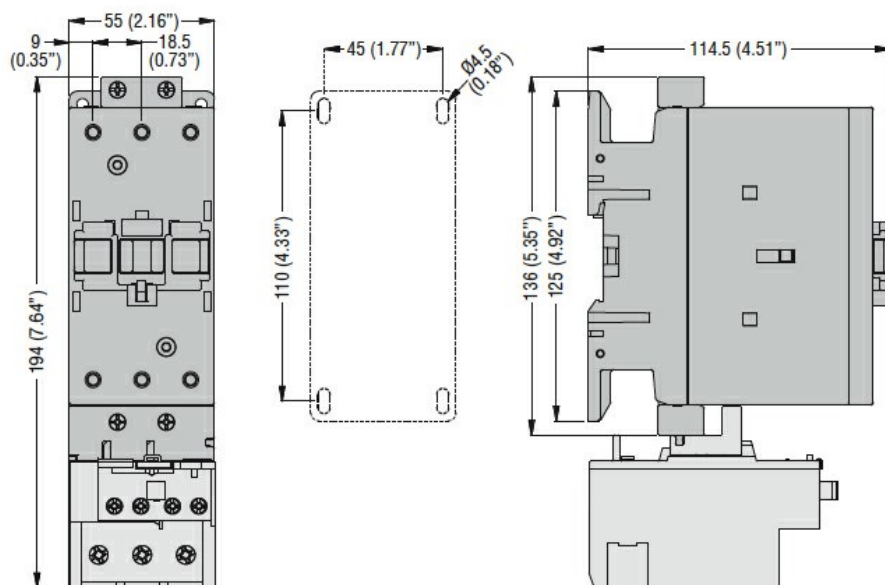
Auxiliary contacts

| | | |
|----|-----|---|
| NO | Nr. | 1 |
| NC | Nr. | 1 |

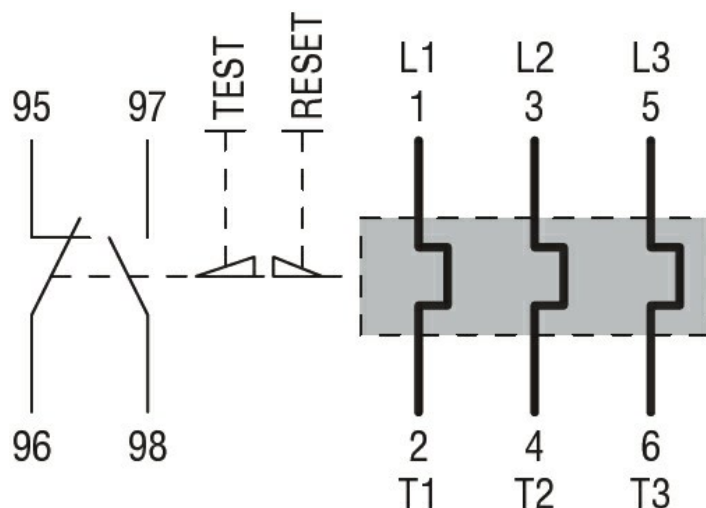
Auxiliary Rated insulation voltage U_i IEC/EN

| | |
|---|-----|
| V | 690 |
|---|-----|

| | | |
|--|--|---------------------|
| Auxiliary Rated impulse withstand voltage Uimp | 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 Ith | 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 80 |
| Compensation temperature | min | °C -15 |
| | max | °C 55 |
| Max altitude | m | 3000 |
| Mechanical features | | |
| Operating position | normal allowable | Vertical plan ±30° |
| Weight | g | 365 |
| UL technical data | | |
| Full-load current (FLA) for three-phase AC motor | at 480V | A 82 |
| | at 600V | A 82 |
| Dimensions | | |



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

Certifications

cULus

ETIM classification

ETIM 8.0

EC000106 -
Thermal overload
relay