

RF420420 MOTOR PROTECTION RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING, 250...420A



| Product designation | | | RF420 Motor protection |
|--|-------------------------|------|---------------------------|
| Product type designation | | | 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) | А | 630 |
| | aM (IEC) | А | 500 |
| | K5 (UL) | А | 800 |
| Phase failure detection | | | yes |
| Reset mode | | | Manual or |
| | | | automatic |
| Power circuit characteristics | | | |
| Rated insulation voltage Ui IEC/EN | | V | 1000 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Rated operational voltage | | V | 690 |
| Operational frequency | | | |
| | min | Hz | 50 |
| | max | Hz | 60 |
| Operational current le | | | |
| | Operational current min | А | 250 |
| | Operational current max | А | 420 |
| Tripping class | | | 10A |
| Test Button | | | yes |
| Trip indicator | | | yes |
| Terminals | | | - |
| | | | screw and flat |
| | type | | washer |
| | screw | | M10 |
| | width | mm | 25 |
| | tool | | Bar 18mm |
| Tightening torque for terminals | | | |
| | min | Nm | 35 |
| | max | Nm | 35 |
| | min | Ibin | 25.9 |
| | max | Ibin | 25.9 |
| Auxiliary circuit characteristics | | | |
| Auxiliary contacts | | | |
| | NO | Nr. | 1 |
| | NC | Nr. | 1 |
| Auxiliary Rated insulation voltage Ui IEC/EN | | V | 690 |

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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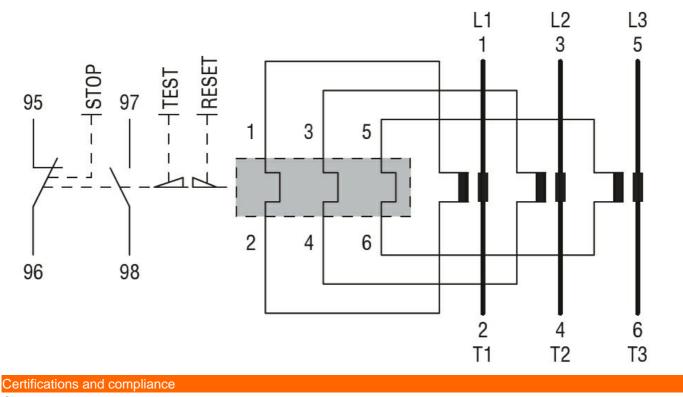
| Auxiliary Rated impulse withstand voltage Uimp | kV | 6 |
|--|------------|---------------------|
| Auxiliary Rated operational voltage | V | 690 |
| Operating current AC15 | v | 000 |
| 24V | А | 3 |
| 120V | A | 3 |
| 240V | A | 1.5 |
| 380V | А | 0.95 |
| 480V | А | 0.75 |
| 500V | А | 0.72 |
| 600V | Α | 0.6 |
| Operating current DC13 | | |
| 125V | А | 0.11 |
| 600V | Α | 0.22 |
| IEC Conventional free air thermal current Ith | Α | 10 |
| Terminals | | |
| Auxiliary circuit type | | screw and 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 | | |
| Auxiliary circuit min | Nm | 0.8 |
| Auxiliary circuit max | Nm | 1 |
| Auxiliary circuit min | Ibin | 0.59 |
| Auxiliary circuit max | Ibin | 0.74 |
| UL/CSA and IEC/EN 60947-5-1 designation | | B600-R300 |
| Ambient conditions | | |
| Operating temperature | ° ^ | 25 |
| min | °C ℃ | -25 60 |
| Storage temperature max | U | 00 |
| min | °C | -50 |
| max | °C | 70 |
| Compensation temperature | 0 | 10 |
| min | °C | -20 |
| max | °C | 60 |
| Max altitude | m | 3000 |
| Mechanical features | | |
| Operating position | | |
| normal | | Vertical plan |
| allowable | | ±30° |
| Fixing | | Screw |
| Weight | g | 2460 |
| UL technical data | | |
| Full-load current (FLA) for three-phase AC motor | | |
| at 480V | А | 420 |
| at 600V | А | 420 |
| Dimensions | | |
| Wiring diagrams | | |

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| Compliance | | |
|---------------------|------------------|-----------------|
| - | CSA C22.2 n° 14 | |
| | IEC/EN 60947-1 | |
| | IEC/EN 60947-4-1 | |
| | UL508 | |
| Certifications | | |
| | cULus | |
| | EAC | |
| ETIM classification | | |
| | | = 0 0 0 0 1 0 0 |

ETIM 8.0

EC000106 -Thermal overload relay