

The supply circuit operates on

either 120V or 240V, 50/60Hz automatically - no external

preselection is necessary.

A wide ambient temperature

are further positive aspects.

range as well as high availability

reenergised and the motor may

The device also trips out if the

voltage drops below a preset

level or if a phase is lost. The

same 4 minute time delay is ac-

tivated when the supply voltage

recovers, thus preventing con-

corrected. Sensor and mains

for connecting electrical equip-

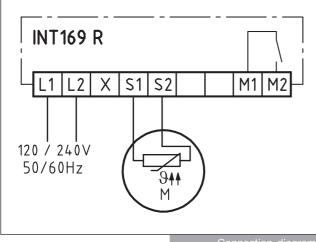
ment must be observed.

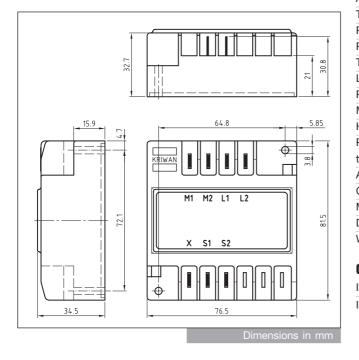
be restarted.

INT169 R[®] Motor protector dual voltage



NT169 F





Application:

The INT369 R protection module

- is designed to protect against: • excessive motor winding temperatures by monitoring the resistance of positive temperature coefficient (PTC) thermistors embedded in the windings.
- operation at low voltage

Functional description:

As the winding temperature approaches the design response temperature of the PTC thermistors, the increase in thermistor resistance is sensed by the INT169 R. The output relay drops out immediately and a time delay of 4 minutes (minimum off time) is activated when the response threshold is exceeded or a too fast temperature increase is detected (caused by locked rotor conditions). After these 4 minutes have elapsed and the resistance has dropped below the reset threshold, the output relay is

The unit must be connected by trained electrical personnel. All valid standards

Technical data

AC 50/60Hz 120/240V Supply -20...+10% 3VA Ambient temperature range -40...+70°C Temperature sensor PTC to DIN 44081/082 $\mathsf{R}_{\mathsf{trip}}$ $30k\Omega + 4k\Omega$ R_{reset} $10.5k\Omega \pm 1.5k\Omega$ Time delay (min. off time) 240s ± 40s 85V (120V) / 170V (240V) Low voltage limits AC 240V, max. 2.5A, C300 Relav Mechanical service life approx. 1 mio. switching cycles Housina PA66 GF25 Protection class acc. to EN 60529 IP00 Approval UL File No. E75899 Connection 6.3mm connectors Mounting screw-mounted Dimensions 76.5 x 81.5 x 34.5mm Weight approx. 200g

Ordering information

INT169 R with 4min min. off time	22 A 277
INT169 R without min. off time	22 A 277 S21

Subject to technical modifications without notice

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