INT369 KA® Motor protector

dual voltage

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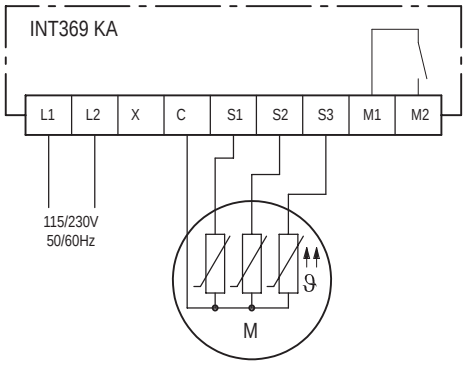
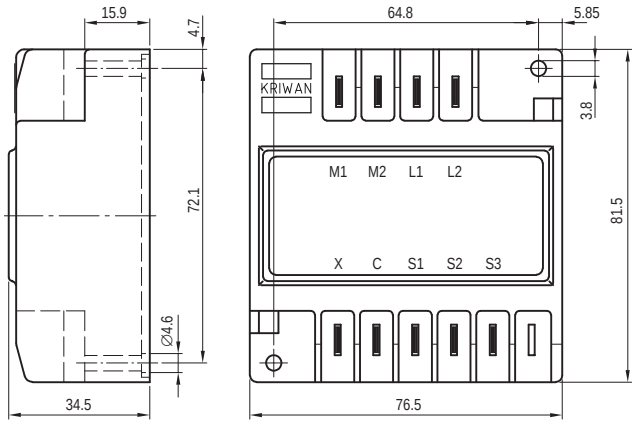


Wiring diagram (suggestion)



Dimensions in mm

Application

The INT369 KA 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.
- low voltage operation.

The supply circuit operates on either 115V or 230V, 50/60Hz automatically - no external preselection is necessary. A wide ambient temperature range as well as high availability are further positive aspects.

Functional description

As the winding temperature approaches the design response temperature of the PTC thermistors, the increase in thermistor resistance is sensed by the INT369 KA. 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 reenergised and the motor maybe restarted.
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 activated when the supply voltage recovers, thus preventing contactor chatter under low voltage conditions. This delay is also activated after disconnecting supply voltage. The minimum off time can be bypassed by connecting terminal "X" and "C", provided that the fault condition has been corrected. Sensor and mains circuit are galvanically insulated.

⚠ The unit must be connected by trained electrical personnel. All valid european and national standards for connecting electrical equipment must be observed.

Technical specifications

Supply - dual voltage - AC 24V	 AC 50/60Hz 115/230V ±15% 3VA AC 50/60Hz 24V ±15% 3VA
Permitted ambient temperature	-40...+70°C
Temperature sensor	PTC
Number of sensors	3 (parallel)
R_{trip}	13kΩ ±3kΩ
R_{reset}	3.25kΩ ±0.5kΩ
Time delay (min. off time)	240s ±60s
Low voltage limits - dual voltage - AC 24V	 AC 85V (115V) / 170V (230V) AC 16.5V
Relay	AC 240V, 2.5A, C300
Mechanical service life	Approx. 1 million switching cycles
Housing material	PA66/PA6, glass-fibre-reinforced
Protection class acc. to EN 60529	IP00
Approval	UL File No. E75899
Connection type	6.3mm flat connection
Mounting	Screw-mounted
Dimensions [mm]	76.5x81.5x34.5
Weight	Approx. 200g

Order data

Dual voltage	**22 A 440**
AC 24V	**31 A 440**

Product group A

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Technical changes reserved

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