INT69 SU® Motor protector

KRIWAN

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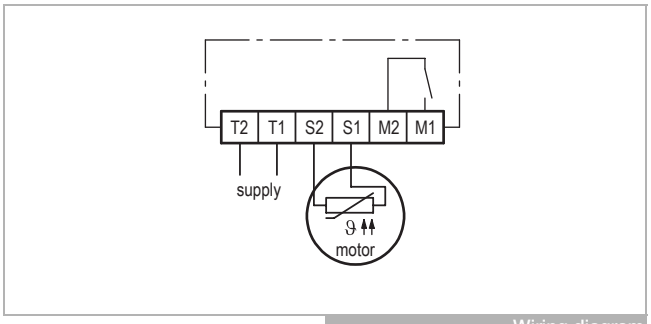
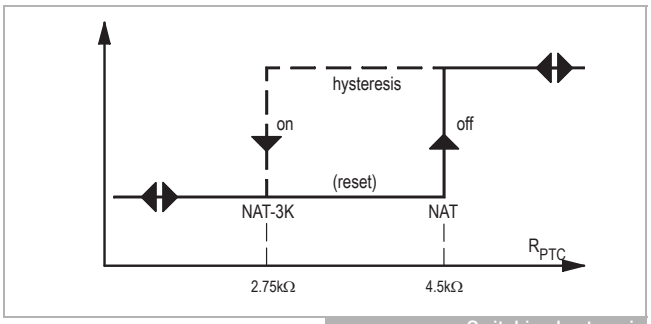
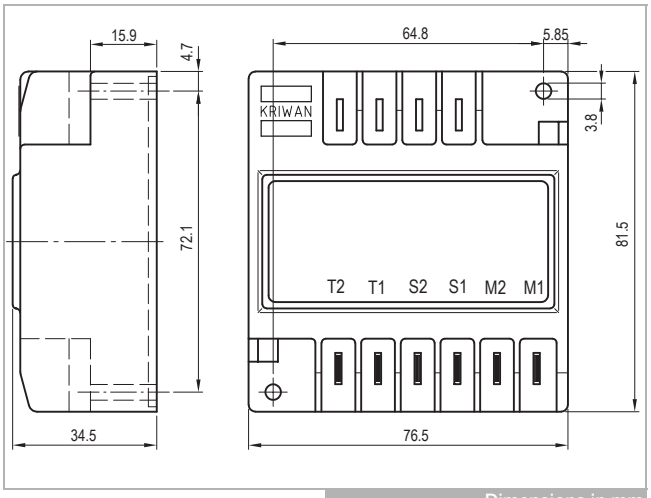


Wiring diagram



Switching hysteresis



Dimensions in mm

Application

The INT69 SU motor protector has been especially developed for scroll refrigeration compressors.

Functional description

Up to 9 PTC-sensors acc. to DIN 44081/082 with different nominal response temperatures can be connected in series to the measuring circuit input. If the temperature in one of the areas monitored exceeds the nominal response temperature of the respective PTC-sensor, the sensor resistance increases and the INT69 SU motor protector switches off. A timer with a running time of 30min. is started. During this period, the relay remains locked out. When this period has elapsed or when power supply has been interrupted for approx. 5s (time reset) the relay pulls in, provided the reset resistance value has been reached. Otherwise the relay remains deenergised until the PTC resistance has dropped below the reset value. True galvanic isolation is present between sensor, relay and supply circuits (for AC modules). The module also incorporates an additional function, which provides early detection of a locked rotor condition and correspondingly early compressor tripping.

⚠ 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 or - AC 24V	 AC 50/60Hz 115/120V –15...+10% 3VA AC 50/60Hz 230/240V –15...+10% 3VA AC 50/60Hz 24V –15...+10% 3VA
Permitted ambient temperature	-30...+70°C
Temperature measuring circuits - Type - Number of sensors - $R_{25,total}$ - $R_{trip,\ static}$ - R_{reset} - Dynamic resistance response	 PTC, accord. to DIN 44081/082 1...9 in series <1.8kΩ 4.50kΩ ±20% 2.75kΩ ±20% Dynamic locked rotor protection
Time delay	30min ±5min
Reset	Mains interrupt for approx. 5s
Relay contact (NOC) - AgNi 90/10 (dual voltage) - AgNi 90/10 gold-plated (AC 24V)	 Max. AC 240V, 2.5A, C300 Min. >24V AC/DC, >20mA Min. >100mV >0.5mA At AC/DC >36V or >50mA resistive load, the AgNi 90/10 relay values apply
Mechanical service life	Approx. 1 million switching cycles
Protection class acc. to EN 60529	IP00
Approval	UL File No. E75899
Connection type	6.3mm flat connection
Housing material	PA66/PA6, glass-fibre-reinforced
Mounting	Screw-mounted
Dimensions [mm]	76.5x81.5x34.5
Weight	Approx. 200g

Order data

Dual voltage	**22 A 601**
AC 24V	**31 A 601**

Product group A

Edition: 710.00253.0

Technical changes reserved

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