INT69 SCY® Motor protector

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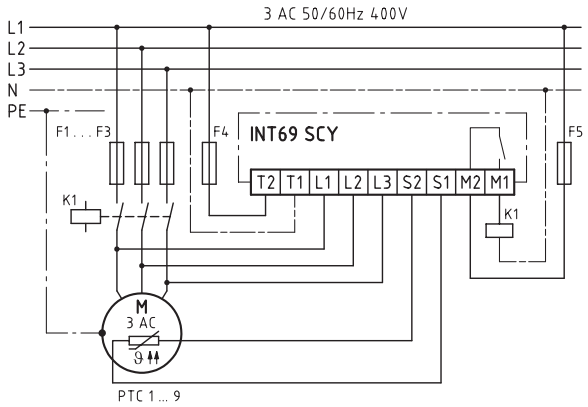
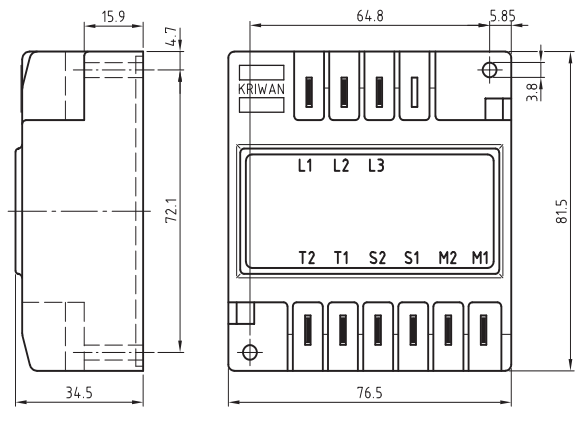


connection diagram (suggested)



Dimensions in mm

Application:

The microprocessor-based INT69 SCY motor protector has been specially developed to monitor motor winding temperature, phase sequence and phase failure on scroll compressors.

Funcional description:

- When supply voltage is applied, the output relay pulls in after an initialisation period of approx. 3 seconds, provided all thermistors lie below their rated response temperature.
- 1 to 9 PTC thermistors with varied rated response temperatures can be connected in series to the input terminals.
- If any thermistor resistance increases above trip level, the output relay drops out. At the same time a 30 minute time delay is activated, during which the relay remains dropped out. After this period has elapsed and the thermistor resistance has dropped below the reset level, the relay pulls in again.
- The phase monitoring function is active 1 second after motor start during a 5 second window. Incorrect phase sequence results in lockout trip. Phase loss results in trip and a subsequent 5 minute reset delay.
- A maximum of 9 automatic resets following phase loss trip are permitted during a rolling 24 hour period. A tenth trip results in lockout.
- Lockout and time delay can be cancelled by mains reset of approx. 5 seconds.
- To avoid nuisance tripping due to reverse running after shutdown (pressure equalisation), the phase monitoring function is only re-enabled approx. 5 seconds after motor stop.
- The relay is fed out as a N/O dry contact, which is closed under good conditions.

Technical data

Supply voltage	
- dual volage	AC 50/60Hz 115/120V –15...+10% 3VA
or	AC 50/60Hz 230/240V –15...+10% 3VA
- AC 24V	AC 50/60Hz 24V –15...+10% 3VA
Ambient temperature range	-30...+70°C
Temperature monitoring	PTC, to DIN 44081/082
- Number of sensors	1...9 in Serie
- $R_{25,\ total}$	<1.8kΩ
- R_{trip}	4.50kΩ ±20%
- R_{reset}	2.75kΩ ±20%
- max. lead length	<30m
After thermal trip	
- Time delay	30min ±5min
Phase monitor	3 AC 50/60Hz 200...575V ±10% aktive window t_0 + 1s...t_0 + 6s
Phase sequence	Lockout
Phase loss	Time delay 5min ± 1min, after 10 failures within 24h - lockout.
Relay	
- AgNi 90/10 (dual voltage)	AC 240V, max. 2.5A, C300 min. 24V AC/DC, >20mA
- AgNi 90/10 gold-plated (AC 24V)	min. >100mV >0.5mA After a single operation at AC/DC >36V or >50mA resistive load, the 240V AC relay values apply
Mechanical service life	approx. 1 mio. switching cycles
Protection class acc. to EN 60529	IP00
Approval	UL File Nr. E75899
Connection	6.3mm connectors (Faston)
Housing Material	PA66 GF25
Mounting	Screw mounted or latching
Dimensions	76.5x81.5x34.5mm
Weigth	approx. 200g

Part-No.

- dual voltage	**22 A 406**
- dual voltage /gold-plated contacts	**22 A 406 S22**
- AC 24V	**31 A 406**

⚠ The unit must be connected by trained electrical personnel. All valid standards for connecting electrical equipment must be observed. Limit values for the supply voltage of the unit may not be exceeded.

Subject to technical modification without notice

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