

INT69 DMY® Motor protector



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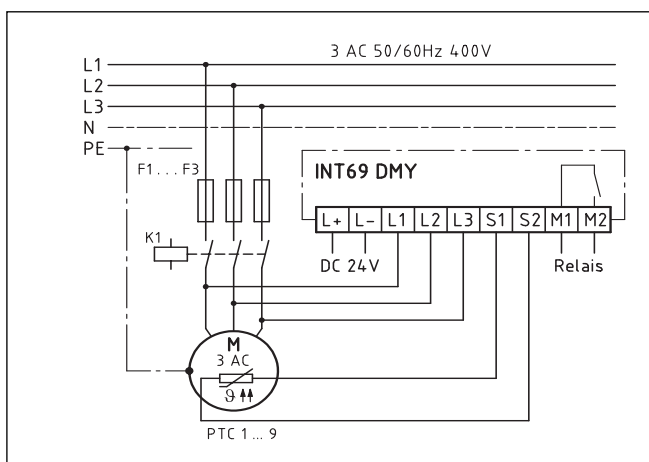
Application:

The microprocessor-based INT69 DMY motor protector has been specially developed to monitor motor winding temperature,

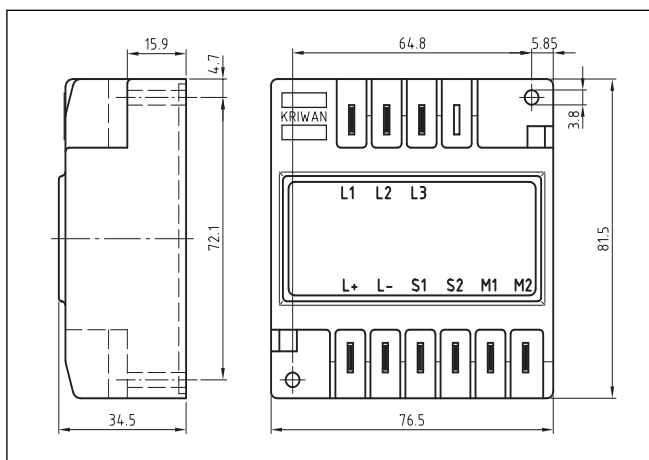
phase sequence and phase failure on scroll compressors.

Functional 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. After cooling down, a 5 minute time delay is activated, during which the relay remains dropped out. After this period has elapsed the relay pulls in again.
- The phase monitoring function is active 1 second after motor start during a 5 second window. Incorrect phase sequence and phase loss results in lockout trip.
- 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. 20 seconds after motor stop.
- The relay is fed out as a N/O dry contact, which is closed under good conditions.
- The INT69 DMY is not suitable for use with frequency converters.



Connection Diagram
(Suggestion)



Dimensions in mm



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 modifications without notice

Technical Data

Supply	DC 24V $\pm 20\%$, 2W
Ambient temperature range	-30...+70°C
Temperature monitoring	PTC to DIN 44081/082
- Number of sensors	1...9 in series
- $R_{25, total}$	<1.8k Ω
- R_{trip}	4.50k $\Omega \pm 20\%$
- R_{reset}	2.75k $\Omega \pm 20\%$
- max. length	<30m
After cool down	
- Time delay	5min ± 1 min
Phase monitoring	3 AC 50/60Hz 200...575V $\pm 10\%$ active window $t_0 + 1s...t_0 + 6s$
Phase sequence	lockout
Phase loss	lockout
Relay (N/O)	
- AgNi 90/10 gold plated	min. >100mV >0.5mA After a single operation at AC/DC >36V or >50mA ohmic, the 240V AC relay values apply (see data sheet A407)
Mechanical service life	approx. 1 mio. switching cycles
Protection class to EN 60529	IP00
Approval	UL File No. E75899
Connection	6.3mm connectors
Housing	PA66 GF25
Mounting	screw-mounted or clamped
Dimensions	76.5x81.5x34.5mm
Weight	approx. 200g

Art.No.

- DC 24V

13 A 407