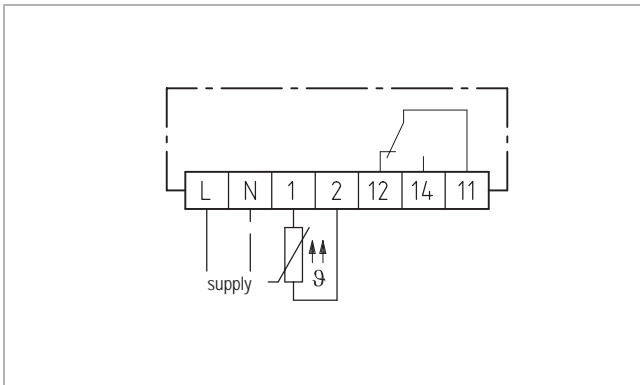


INT69[®] Motor protector

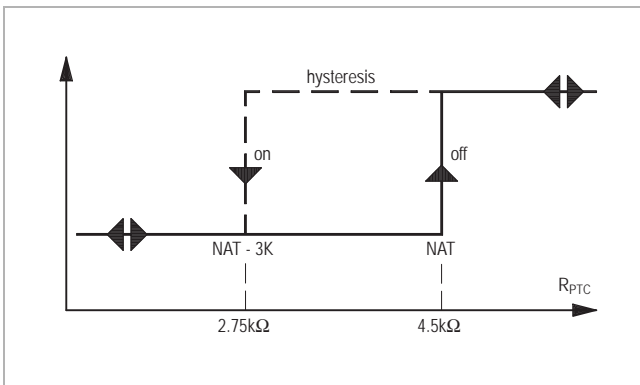
INT69[®]



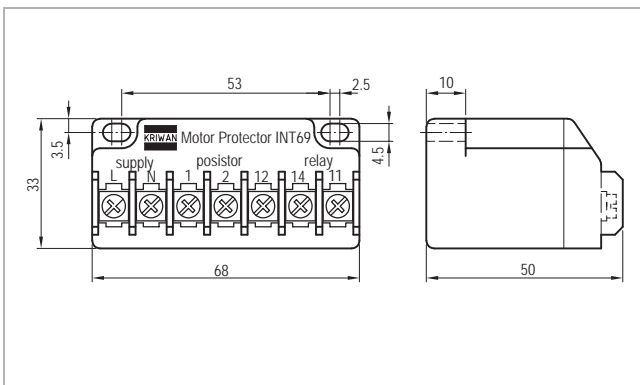
INT69



Wiring diagram (suggestion)



Switching hysteresis



Dimensions in mm

Application

Because of the compact dimensions, the robust construction and the high ambient temperature resistance the motor protector INT69 is suitable for the mounting into the terminal box of an electric motor. It is characterized by high reliability and availability.

Functional description

Up to 9 PTC-sensors according to DIN 44081/082 with different nominal response temperatures can be connected in series to the measuring circuit input of INT69. Hence it is possible to monitor one or several motor drive units (e.g. motor windings, gear drives, shaft bearings) for thermal overload with only one INT69 motor protector.

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 motor protector switches the motor contactor off. After fall below back switch-point the modul resets.

The relay switch output is designed as a potential free change-over contact. This switching circuit function according to the closed-circuit principle, i.e. the relay drops back to the reset position also in case of sensor or cable failure and shuts off.

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

Maximum values for supply voltage of this unit may not be exceeded.

No galvanic isolation between sensor and supply circuits for direct current units.

Technical specifications

Supply voltage	
- dual voltage	115-230V ~ 50Hz -15...+10% 3VA 120-240V ~ 60Hz -15...+10% 3VA
- or	24V ~ 50-60Hz -15...+10% 3VA
- or	24V === ±20% 2W
Permitted ambient temperature	-30...+70°C
Measuring circuit	
- Type	PTC, accord. to DIN 44081/082
- Number of sensors	1...9 in series
- R _{25,total}	<1.8kΩ
- R _{trip}	4.50kΩ ±20%
- R _{reset}	2.75kΩ ±20%
Output relay	
Dual voltage AgNi 90/10	Max. 240V ~ 2.5A, C300 Min. >24V ~/=== >20mA
24V ~/=== AgNi 90/10	Min. >100mV >0.5mA
+ hard gold-plated	After being used once at >36V ~/=== or >50mA resistive load, the dual voltage relay data apply
Mechanical service life	Approx. 1 million switching cycles
Protection class acc. to EN 60529	IP00
Connection type	Screw type terminal
Housing material	PA66/PA6, glass-fibre-reinforced
Mounting	Screw-mounted
Dimensions [mm]	68 x 33 x 50
Weight	Approx. 150g
Approval	UL File No. E75899
Order data	
Dual voltage	22 A 460
24V ~	31 A 460
24V ===	13 A 460

Technical changes reserved