INT69/69F® Protection Module

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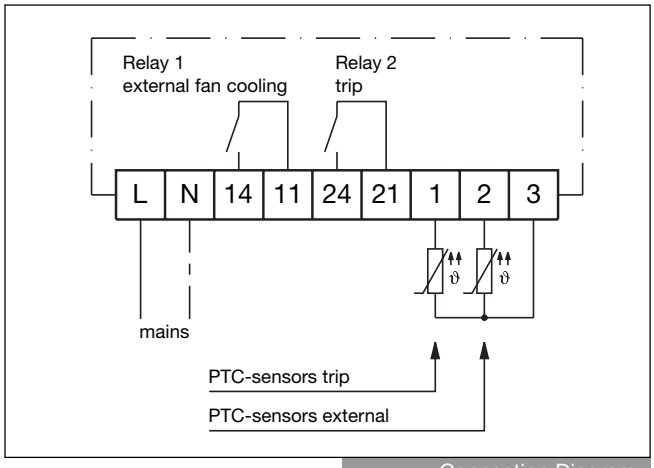
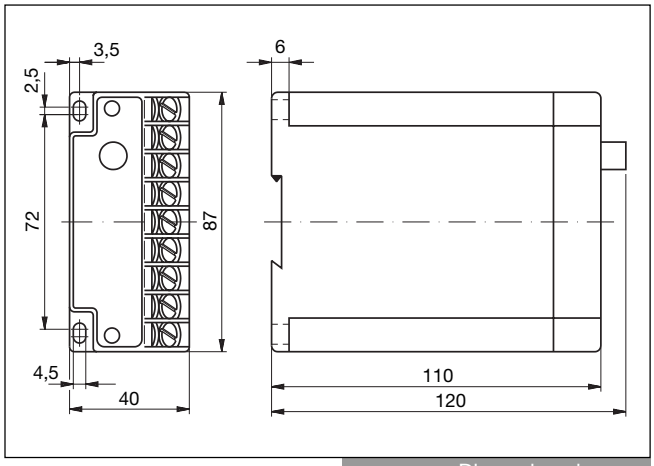


Connection Diagram



Dimensions in mm

Application:

The INT 69/69F is specially designed for monitoring drives with supplementary external cooling. Typical applications are elevator drives and other motors with a high switching frequency.

Functional description:

Two PTC measuring circuits (to DIN 44 081/082) are connected to the protection module. The first measuring circuit activates an output relay (1) with 10 A-contacts, which is usually used to bring in an external cooling fan. Single-phase fan motors can be connected directly to terminal 11/14, providing the switching capacity of the output relay is not exceeded. The hysteresis of the measuring circuit is set at approx. 10K to provide sufficent running time of the external cooling before reset. The second measuring circuit monitors the upper limit temperature of the motor windings. Relay (2) trips when this temperature is exceeded.

Function of the 3-colored-indication lamp:

indication lamp:	green	→	o.k.
	yellow	→	advance warning (external fan cooling)
	red	→	fault (trip)
glow lamp:	on	→	mains on

Test button:

Pressing the test button checks the function of the switching circuits, the relays and the 3-coloured-indication lamp.

⚠ 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.

Technical data

Supply voltage	AC 50/60Hz 230V ± 10%
Power consumption	5VA
Amb. temperature range	-20...+60°C
Measuring circuit	two
- Type of sensors	PTC acc. to DIN 44081/082
- Number of sensors	1...9 in series, $R_{25\,tot}$ < 1,8kΩ
Relay 1 (external fan cooling)	energized as long as the limit temperature is exceeded
- PTC-sensor	terminal 2-3
- Switching points	relay on: approx. 35kΩ relay off: approx. 2,3kΩ
- Relay output (11/14)	AC 250V, max. 10A, 900VA ind.
Relay 2 (thermal trip)	energized as long as the limit temperature is not exceeded
- PTC-sensor	terminal 1-3
- Switching points	relay on: approx. 2,75kΩ relay off: approx. 4,5kΩ
- Relay output (21/24)	AC 250V, max. 5A, 300VA ind.
Mech. service life	approx. 1 mio. switching cycles
Housing	PA6 GF30
Protection class acc. to EN 60529	with terminal cover: IP20 without terminal cover: IP00
Mounting	35mm standard rail, acc. to DIN EN 50022 or screw-mounted
Dimensions	87 x 40 x 120mm
Weight	approx. 345g
Part-No.	**52 A 173**

Subject to technical modifications without notice

Product group A

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KRIWAN Industrie-Elektronik GmbH • Allmand 11 • D-74670 Forchtenberg • phone ++49-7947-822-0 • fax ++49-7947-1288 • e-mail: info@kriwan.com • home: www.kriwan.com