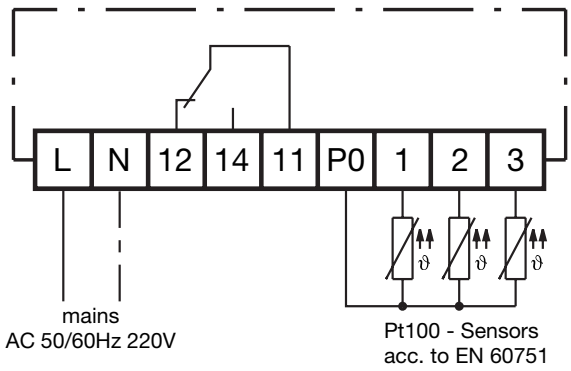
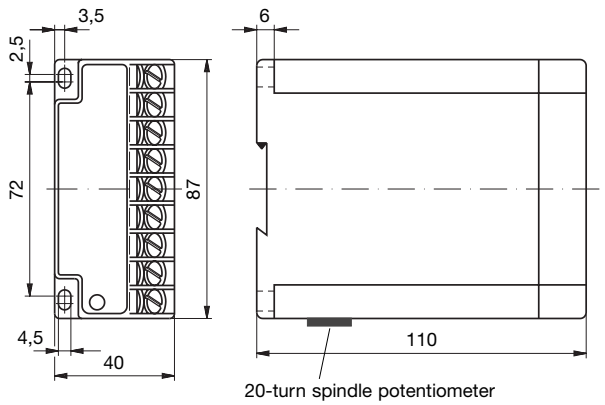
INT300® Protection Module
for Pt100 Sensors acc. to EN 60751

INT300 Protection Module



Connection Diagram



Dimensions in mm

Application:

For motors and refrigeration compressors, as well as for motors with high short-circuit current densities.

Functional description:

The 20-turn spindle potentiometer mounted in the unit is set to the middle position at our works, which corresponds to a trip point of approx. 120°C. With a screwdriver, the trip point of the potentiometer can be lowered to approx. 60°C by turning anti-clockwise or increased to about 180°C by turning clockwise. In case of a lowresistive measuring circuit, i.e. below the trip point, the internal relay is energized. When the set temperature limit is exceeded or when one or several sensors in the measuring circuit are interrupted the relay drops out and the red LED fault display lights up. The resistance determined by the length of the wire affects the trip point. A wire resistance of 1Ω lowers the trip point by approx. 3K. The unused inputs must be connected to the common terminal PO.

⚠ 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 220V -15...+10%
Power consumption	5VA
Amb. temperature range	-30...+60°C
Measuring circuit	3
- Type of sensor	Pt100 acc. to EN 60751
- Number of sensors	1 each (measuring circuit)
Measuring circuit o/c	DC 15V
Measuring circuit s/c	DC 3,5mA
Relay output	AC 250V, max. 5A, 300VA ind.
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
Dimenions	87 x 40 x 113mm
Weight	approx. 350g

Ordering information

+60°C to 180°C	**52 A 221**
+60°C to 180°C with lockout function	**52 A 221 S21**
+90°C to 250°C with lockout function	**52 A 221 S24**

Other trip points and voltages on request

Subject to technical modifications without notice

Product group A

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