

INT69® EX2 trigger unit



Application

The motor protector based on PTC sensors provides one of the most effective and reliable protective measures against thermal overload of electrical machines.

The protective device consists of the INT69 EX2 trigger unit, the PTC sensors and a suitable safety barrier in the building, see the Manufacturer's Declaration.

The INT69 EX2 trigger unit is installed in a switch cabinet outside the EX zone.

Functional description

At the measuring circuit input of the INT69 EX2, it is possible to connect up to nine DIN 44081, DIN 44082 conform PTC sensors. Sensors with different nominal response temperatures may be used. Thus it is possible to monitor several measuring points with only one INT69 EX2 motor protector.

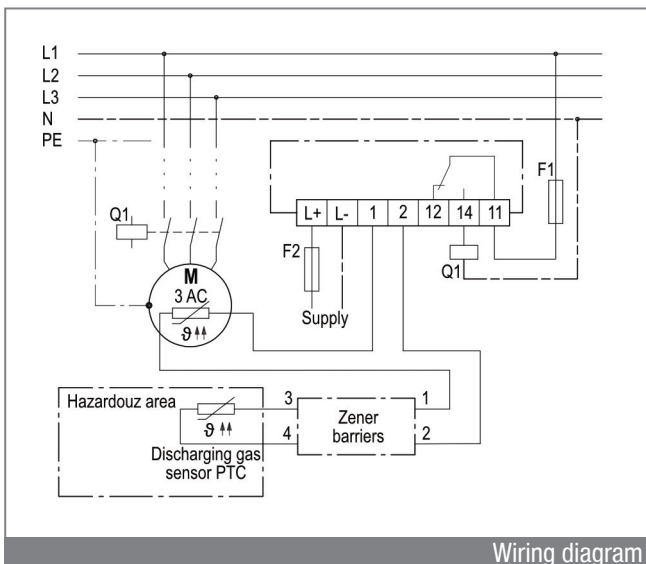
If the temperature in one of the monitored parts or sections reaches the nominal response temperature of the respective PTC sensor, the sensor becomes highly resistive and the motor protector switches off.

After it has cooled down or a fault has been eliminated, the locked shutdown of the unit can only be overridden by a reset.

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 sensor, relay and supply circuits are galvanically isolated from each other.



Safety instructions



The mounting, maintenance and operation are to be carried out by an electrician.

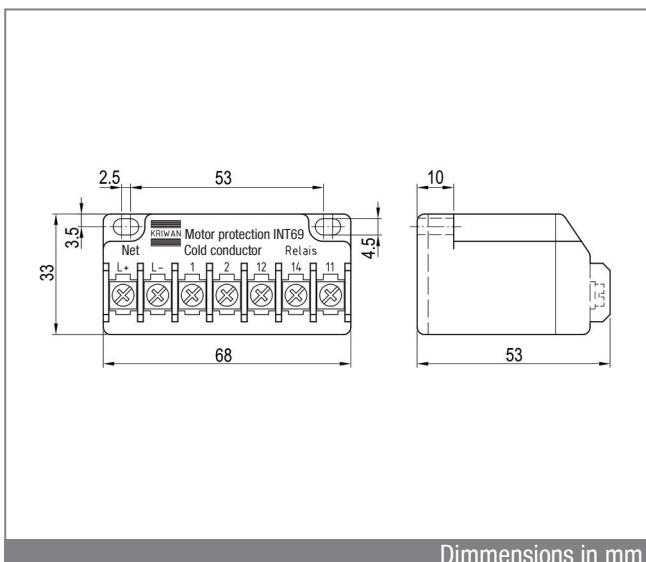
The valid European and national standards for connecting electrical equipment and cooling installations have to be observed.

Connected sensors and connection lines that extend from the terminal box have to feature at least a basic insulation.



The INT69 EX2 series of trigger units is considered as being not accessible by the user. The low voltages of these units in conjunction with the motor winding PTCs are not safety extra-low voltages (SELV).

Suitable measures must therefore be taken against electric shocks in the end-use applications.



Order data

INT69 EX2 trigger unit	097B51679*
Further product information	see www.kriwan.com

*Please note that the legacy BOCK codes are without 097B

INT69® EX2 trigger unit

Technical data

Supply voltage	AC 50/60 Hz 115-230 V ±10 % 3 VA
Permitted ambient temperature	-30...+70 °C
Temperature measuring circuits - Type	1-9 PTC PTC acc. to DIN 44081, DIN 44082 in series <1,8 kΩ
- R _{25, total}	4,5 kΩ ±10%
- R _{trip}	2,75 kΩ ±10%
- R _{reset}	30 m
- Max. length connection line	Typically <30 Ω
Short circuit monitoring system PTC (PTC input)	
Resetting the lock	Main reset >5 s only possible if there is no error current
Relay - Contact	- AC 240 V 2,5 A C300 at least AC/DC 24 V 20 mA
- Mechanical service life	- Approx. 1 mio. switching cycles
Protection class acc. to EN 60529	IP20 (with terminal cover) IP00 (without terminal cover)
Connection type	Screw terminals
Housing material	PA glass-fibre-reinforced
Mounting	Can be snapped onto 35mm standard rail as per EN 60715 or screw mounted
Dimensions	Refer to dimensions in mm
Weight	Approx. 150 g
Check base	EN 61000-6-2, EN 61000-6-3 EN 61010-1 EN ISO 80079-37:2016, IPL1, ⊕ II (2) G [Ex h Gb] Overvoltage category III Pollution level 2

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