

INT369® Diagnose

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Application

The motor protector INT369 Diagnose is a further development of the reliable KRIWAN motor protectors.

The INT369 Diagnose saves operating and error data in a non-volatile memory. This data can be read and evaluated for diagnosis.

This motor protector is mainly employed on compressors of which the PTC sensors in the motor winding are led out individually.

Functional description

The temperature monitoring in the motor winding is done according to the static evaluation process; the motor is switched off immediately if the nominal response temperature of the built-in PTC sensors is reached.

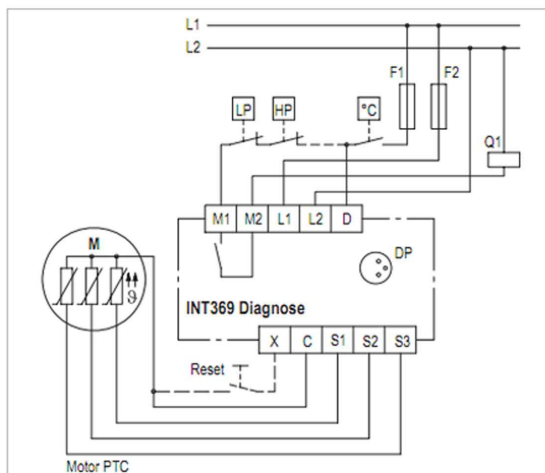
The built-in LED signals the current status of the motor protector (see flash code).

⚠ 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.

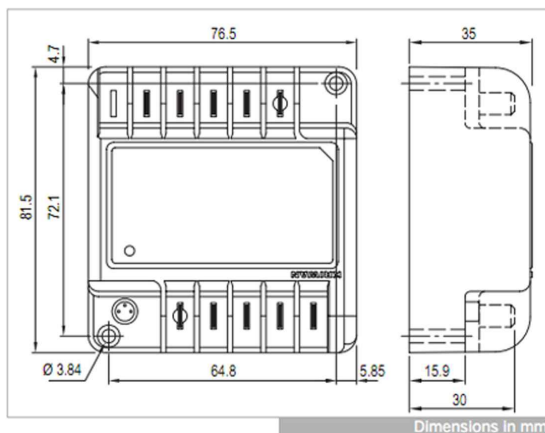
Connected sensors and connection lines that extend from the terminal box have to feature at least a basic insulation.

⚠ To determine the compressor running times, the INT369 Diagnose has to be the last protection unit before the compressor contactor (see wiring diagram). For that, the INT369 Diagnose and the safety circuit have to be connected to the same phase of the same supply network.

See back side for further specifications



Wiring diagram



Dimensions in mm

Technical changes reserved

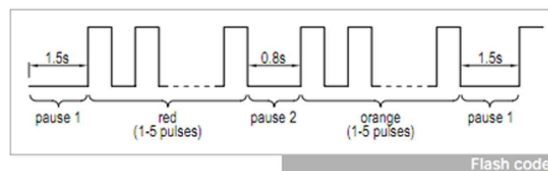
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Flash code

The KRIWAN flash code allows for a quick and easy status display and troubleshooting.

The flash code consists of a cyclical red and orange flash sequence. The current status can be determined from the number of pulsing flashes.



Overview flash code

| | |
|---------------------|--|
| Green lit | Compressor operational |
| Green flashing | Compressor running |
| Red/Orange flashing | Error, compressor is switched off; for description see table below |

| 1st flashing sequence (LED red) | 2nd flashing sequence (LED orange) | Description |
|---------------------------------|------------------------------------|--|
| 1 | 1 | Motor temperature: Static switch-off, Permissible winding temperature exceeded |
| | 4 | Motor temperature: Sensor input detected open circuit or short circuit |
| 3 | 1 | General: Supply voltage too low |

Technical specifications

| | |
|---------------------------------------|--|
| Supply voltage | AC 50/60Hz 120/240V -20...+10% 3VA |
| Undervoltage limits | 85V (120V mains) / 170V (240V mains) |
| Permissible ambient temperature T_A | -40...+70°C |
| Temperature measuring circuits | |
| - Type | 3 separate inputs for PTC sensors acc. to DIN 44081, DIN 44082 |
| - $R_{trip, static}$ | 13k Ω \pm 3k Ω |
| - R_{reset} | 3.25k Ω \pm 0.5k Ω |
| - Max. length connection line | 30m |
| Relay | |
| - Connection | Refer to wiring diagram Max. 2.5A C300 |
| - Mechanical service life | Approx. 1 million switching cycles |
| Interface | Diagnose port (DP) |
| Protection class acc. to EN 60529 | IP00 |
| Connection type | 6.3mm flat plugs |
| Housing material | PA glass-fibre-reinforced |
| Mounting | Screw mounted |
| Dimensions | Refer to dimensions in mm |
| Weight | Approx. 200g |
| Check base | EN 61000-6-2, EN 61000-6-3 EN 61010-1 Overvoltage category II Pollution level 2 |
| Approval | UL File No. E75899 eURus |

Order data

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|---|--|
| INT369 Diagnose | 22 A 278 S26 |
| Accessories and application information | see www.kriwan.com |