INT369 KA® Diagnose



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Application

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

The INT369 KA Diagnose automatically saves operational and error data in a non-volatile memory. This data can be retrieved on a PC and analysed 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 of the motor winding is done with two evaluation processes:

- Static: Switch-off is immediate if the nominal response temperature of the built-in PTC sensors is reached.
- Dynamic: If the temperature increases unusually quickly, the motor is switched off immediately even if the temperature is still far below the nominal response temperature. This prevents excess temperatures from occurring.

The INT369 KA Diagnose monitors the applied module supply voltage and switches off as soon as it drops below a fixed specified limit value. After expiration of the reset delay and elimination of the error, the compressor can be restarted. An active reset delay can be reset only by briefly connecting the terminals "X" and "C".

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



To determine the compressor running times, the

INT369 KA Diagnose has to be the last protection unit before the compressor contacter (see wiring diagram). For that, the INT369 KA Diagnose and the safety circuit have to be connected to the same phase of the same supply network.

See back side for further specifications

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 |
| | 2 | Motor temperature: Dynamic switch-off, Temperature rise in the motor winding unusually fast |
| | 3 | Motor temperature: Reset delay after static switch- off |
| | 4 | Motor temperature: Sensor input detected open circuit or short circuit |
| | 5 | Motor temperature: Reset delay after dynamic switch-off |
| 3 | 1 | General: Supply voltage too low |
| | 5 | General: Reset delay after "General" error |

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Technical specifications

| Supply voltage | AC 50/60Hz 120/240V -20+10% 3VA |
|--|--|
| Undervoltage limits | 85V (120V mains) / 170V (240V mains) |
| Permitted ambient temperature | -40+70°C |
| Temperature measuring circuits | |
| - Туре | 3 separate inputs for PTC sensors acc. to DIN 44081, DIN 44082 |
| - R _{trip, static} | 13kΩ ±3kΩ |
| - Rreset | 3.25kΩ ±0.5kΩ |
| - Max. length connection line | 30m |
| Reset delay | 2min ±20s |
| Reset of reset delay | Activation of the reset input only possible if there is no error current |
| 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 cURus |
| Order data | |
| INT369 KA Diagnose | 22 A 278 S30 |
| Accessories and application information | see www.kriwan.com |
| | |

Product group A

