INT69 E1 Motor protector

KRIWAN

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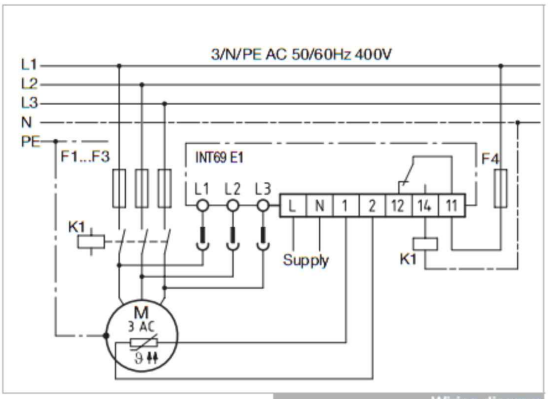
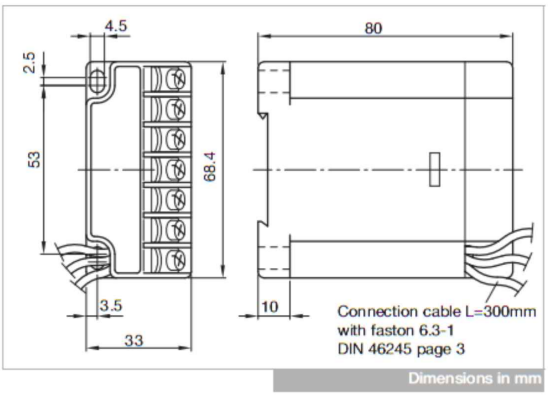


Wiring diagram



Dimensions in mm

⚠ The unit must be connected by trained electrical personnel. All valid European and national standards for connecting electrical equipment and cooling installations must be observed.

Order data

INT69 E1 Motor protector	**22 A 613**

Application

Monitoring of motor temperature, phase sequence and phase failure of motors in refrigerant compressors.

Functional description

- The INT69 E1 can monitor up to nine PTC thermistors even with differing rated shut-off temperatures. If one or more PTC thermistors become highly resistive, the motor protector switches off and locks.
- The monitoring of the phase sequence becomes active 1 second after the motor has started, for a time window of 5 seconds. In case of a wrong phase sequence the relay switches off and locks.
- The phase failure detection is active for about 1 second after themotor start until the motor stop. In case of a detected phase failure, the motor is shut-off and a restart commences after about 10 seconds. After the third shut-off, caused by a phase failure, within 12 minutes or at the 10th shut-off within 24 hours, there is a locked shut-off.
- After the motor is shut off, the phase monitoring is inactive for 10 seconds to avoid an unintended shut off by a motor that possibly may be rotating in reverse.
- The lock-out can be removed by a mains reset (>5s).
- The sensor and supply circuits are galvanically isolated from each other.
- The relay output is designed as a potential-free change-over contact in closed-circuit principle.
- The INT69 E1 is not suitable for use with frequency converters.

Technical specifications

Supply voltage	AC/DC 50/60Hz 115-230V -15...+10% 3VA
Permitted ambient temperature	-30...+70°C
Temperature measuring circuits	
- Type	PTC, accord. to DIN 44081/082
- Number of sensors	1-9 in series
- $R_{25,total}$	<1.8kΩ
- R_{trip}	11.4kΩ ±20%
- R_{reset}	2.95kΩ ±20%
- Max. length	<30m
Phase monitoring	3AC 50-60Hz 200-632V ±10%
- Phase sequence	Active about 1 second after motor start for about 5 seconds Lock-out shut-off
- Phase failure	Active about 1 second after the motor start until the motor stop Automatic restart after 6min ±1min 3 shut-offs within 12min or 10 shut-offs within 24h leads to a lokked shut-off
- Monitoring inactiv	10 seconds after the motor stop.
Reset of lock-out	Power off >5s
Relay	Max. AC 240V 2.5A C300 Min. AC/DC >24V, >20mA
Mechanical service life	Approx. 1 million switching cycles
Protection class acc. to EN 60529	IP00
Connection type	6.3mm flat plug sleeves and screw terminals
Housing material	PA66, glass-fibre-reinforced
Mounting	To snap open to 35mm standard rail as under EN 60715 or screw mounting
Dimensions [mm]	68.4x33x80 (LxWxH)
Weight	Approx. 200g
Check base	EN 61000-6-2, EN 61000-6-3 EN 61010-1
Approvals	UL File No. E75899

Technical changes reserved

Product group A

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