

DTA71CM24



Motor thermistor relay



Benefits

- **High operating safety.** The thresholds are determined by the Motor internal PTC. Beyond the specified temperature the output stops the motor/s.
- **Save time and costs.** There is no need to connect other additional and expensive controllers.
- **Ensure continuous production process in your plant.** This type of controller allows limitation of false alarms which may be the cause of useless interruptions of production systems when comparing with other electrical measures (i.e. current or power).
- **Bi-colour front LED.** It provides indications about alarm status and alarm discrimination.

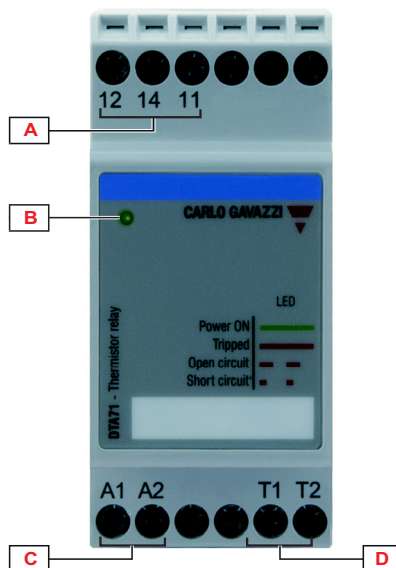
Description

DTA71 is a motor thermistor monitoring relay. Through the motor internal PTC or PTCs the DTA detects when one or more motor windings are exceeding the maximum operating winding temperature. The PTC type installed in the motor is different according to the motor insulation temperature. The temperature triggering threshold is determined by the PTC Type. The relay is equipped with 1 SPDT relay output and AUTO reset.

Applications

This product is extremely suitable for pumps temperature monitoring. It can be useful in all applications where motors are used especially where overloads are frequent and may cause motor damages: pumping stations, water treatment, conveyors, material handling, HVAC, chillers. etc.

Structure



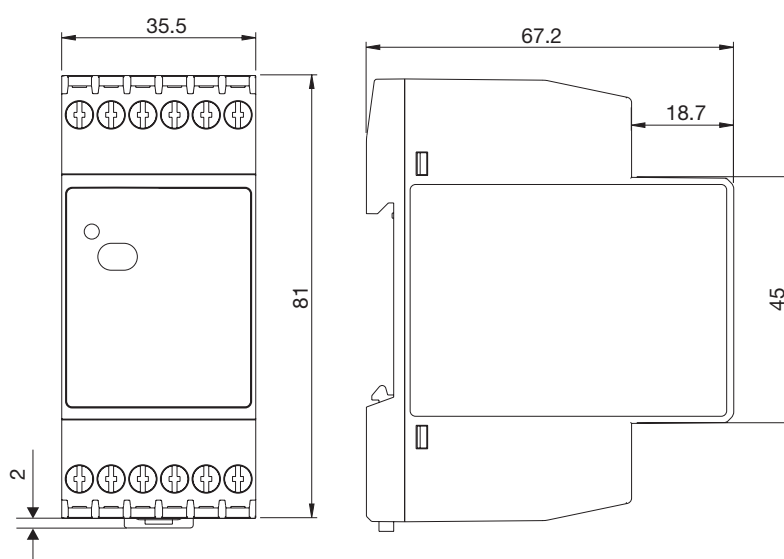
| Element | Component | Function |
|---------|------------------------|---|
| A | Output terminals | SPDT electromechanical relay contacts output |
| B | Information LED | Green ON steady: no alarm Red ON steady: over-temperature alarm Fast Red blinking: open circuit PTC Slow Red blinking: short-circuit |
| C | Power Supply terminals | A1 (+ or L) A2 (- or N) |
| D | PTC input | Up to 6 PTCs in series can be connected |



Features

General

| | |
|--------------------------|--|
| Material | PA66 or Noryl |
| Assembly | DIN rail mounting (According to EN 50022) |
| Protection degree | IP20 |
| Weight | 150 g |
| Terminals | Screw terminals. AWG30 to AWG12 (0.06 mm ² to 3.3 mm ²) stranded or solid |



Power supply

| | |
|---------------------|--|
| Power supply | 24 to 240 VAC/DC (18 to 265 VAC/DC), 50 to 60 Hz (45 to 65 Hz) or DC |
| Consumption | 3 VA (AC supply) / 1.5W (DC supply) |

Environmental

| | |
|-------------------------------|------------------------------------|
| Working temperature | -25° C to 60° C (-13° F to 140° F) |
| Storage temperature | -40° C to 80° C (-40° F to 176° F) |
| Relative humidity | 5-95% non condensing |
| Pollution degree | 2 |
| Operating max altitude | 2000 m amsl (6560ft) |
| Salinity | No saline environment |
| UV resistance | No UV exposure |