

Motor Protector Relay - MPR69 series

压缩机电机保护模块 - MPR69 系列



APPLICATION:

With the benefit of compact dimensions, MPR69 is suitable for mounting into the terminal box of an electric motor. It is characterized by high reliability and availability. It can be used for compressors such as FUSHENG, Copeland and Refcomp, etc.

FUNCTIONAL DESCRIPTION:

* MPR69 motor protector matches with PTC sensor and is available for all kinds of motors with need protection, preventing overheating of the electrical machines.

* Up to 9 PTC-sensors according to DIN 44081/082 with different nominal response temperatures can be connected in series to the measuring circuit input of MPR69. Hence it is possible to monitor several motor driver units (e.g. motor windings, gear drives, shaft bearings) for thermal overload with only one MPR69 motor protector, if the temperature in one of the areas monitored exceeds the nominal response temperature of the respective PTC-sensor, the sensor resistance increases and the MPR69 motor protector switches the motor contactor off. After cooling down below the reset threshold, the module automatically starts to monitor again. The relay switch output is designed as a potential-free change-over contact.

SPECIFICATIONS:

Item	Description
Supply voltage	AC 50/60Hz 200...240±10% 3VA
Ambient temp.	-30°C ... +70°C
Temperature measuring circuits	Type: PTC, according to DIN 44081/082 No. of sensors: 1...9 serial $R_{25, total} < 1.8 \text{ k}\Omega$ $R_{trip} : 4.5 \text{ k}\Omega \pm 20\%$ $R_{reset} : 2.75 \text{ k}\Omega \pm 20\%$ $R_{off} < 20 \Omega$ Measurement voltage $\leq 2.5\text{V}$ (according to IEC 60034-1)
Output relay AgNi 90/10	Max. AC 240 2.5A C300 Min. AC/DC $> 24\text{V}$, $> 20\text{mA}$
Mechanical service life	Approx. 1 million switching cycles
Housing material	PA66, glass-fiber-reinforced
Connection type	Screw type terminal
Mounting	To snap open to 35mm standard rail as under EN 60715 or screw mounting
Protection class	IP00 (EN 60529) without cover; IP20 with cover
Dimensions	53 x 33 x 68mm
Weight	Approx. 160gr.

