



2MM

Motor Protector/Thermal Cut-Out

KEY BENEFITS

Field proven reliable and repeatable snap-action bimetal actuation.

Low profile shape for close coupling to on- or in-winding application.

On customers request additional sleeve available.

Competitive performance-price ratio



Sensata Technologies builds the 2MM motor protector to meet almost any requirement of protection in a wide range of small motors, small transformers, solenoids, etc..

This compact motor protector is the best solution to protect the wide variety of motors used in industrial and domestic appliances against locked rotor and overload situations.

Design and operating principles

The motor protector 2MM consists of a metal housing that holds and protects the inner components against infiltration as well as mechanical deformation.

The can contains the calibrated Klixon® disc carrying a silver contact. The fixed contact is placed on the opposite side, separated from the terminal by an insulator. The 2MM is available in two versions: with epoxy insulation and with additional sleeve.

The operating principle of the 2MM is both simple and effective. A current flows through the resistive Klixon® bimetal disc. When a fault condition occurs, the increased current and ambient temperature make the bimetal disc snap open the contacts. The contacts close again automatically as the device cools down to a safe running temperature.

Applications

The 2MM operates as a sensitive safety cut-out for applications like:

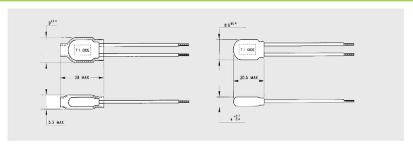
- · Small motors
- · Coils
- Solenoid valves
- · Transformers

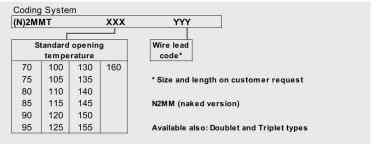
In single phase motors it can be mounted directly in the main circuit to serve as on- or in-winding protector. It's compact size provides ease of installation, even in small spaces. At this time there is practically no small motor the 2MM cannot protect against overheating and overloading. Sensata Technologies 2MM provides you with a cost effective solution in terms of maximum quality and reliability.











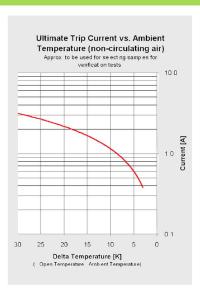
Specifications		
Standard operating temperature range	from 70°C - 160°C	
	in 5K steps	
Tolerance on open temperature	± 10K	
Max. Ambient temperature	175°C	
Differential	20K minimum	

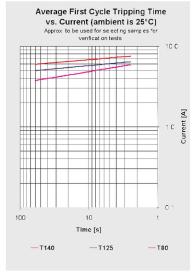
Maximum Contact rating

7.0 (2.0) A 250 Vac (3.000 cycles)

Certifications					
Agency	File number	Standard	Note		
UL / C-UL	E 15962	UL2111 / CSA C22.2 No. 77	Motor protecting device		
ENEC	2014531.06	EN60730-2-9	Thermal Cut-Out		
ENEC	2014531.06	EN60730-2-2	Thermal Motor Protector		

Declarations to EN60730-2-9		Declarations to EN60730-2-2		
Purpose of the control	Thermal Cut-Out	Purpose of the control	Thermal Motorprotector	
Construction	Incorporated, non-electronic			
Degree of protection	IP00			
Terminals for ext. conductors	For internal conductors only			
Temperature limits of the				
sw itchhead	175°C			
PTI of insulation materials	Int: PTI 175 Ext: PTI 250	PTI of insulation materials	Int: PTI 175 Ext: PTI 250	
Method of mounting	On-winding or by special means	Method of mounting	On-winding or by special	
	in the appliance		means in the appliance	
Operating time	For continuous operation			
Type of action	Type 2B	Type of action	Type 3C	
Reset characteristic	Automatic	Reset characteristic	Automatic	
Extent of sensing element	Whole control			
Control pollution degree	Epoxy version: Degree 3	Control pollution degree	Epoxy version: Degree 3	
	Naked version: Degree 2		Naked version: Degree 2	







Important Notice: The products and services of Sensata Technologies and its subsidiaries described herein are sold subject to Sensata's standard terms and conditions of sale. Customers are advised to obtain the most current and complete information about Sensata products and services before placing orders. Sensata assumes no liability for applications assistance, customer's applications or product designs, software performance, or infringement of patents. The publication of information regarding any other company's products or services does not constitute Sensata's approval, warranty or endorsement thereof.

