

MK1 Type Super Temperature Protection Thermoswitch

Patent number: 02210543.3

CE File No:TCCE01085

1. SUMMARIZATION

MK1 type super temperature protection thermoswitch is specially applied to the use of super temperature protection of some spot.If the thermoswitch is embedded in electric motor coils,when the temperature reaches some temperature ,the movable contact of the thermoswitch leaves the stationary contact to switch off the power source of the controller,and further switch off the main circuit of the electric motor to protect the electric motor.

2. CHARACTERISTIC

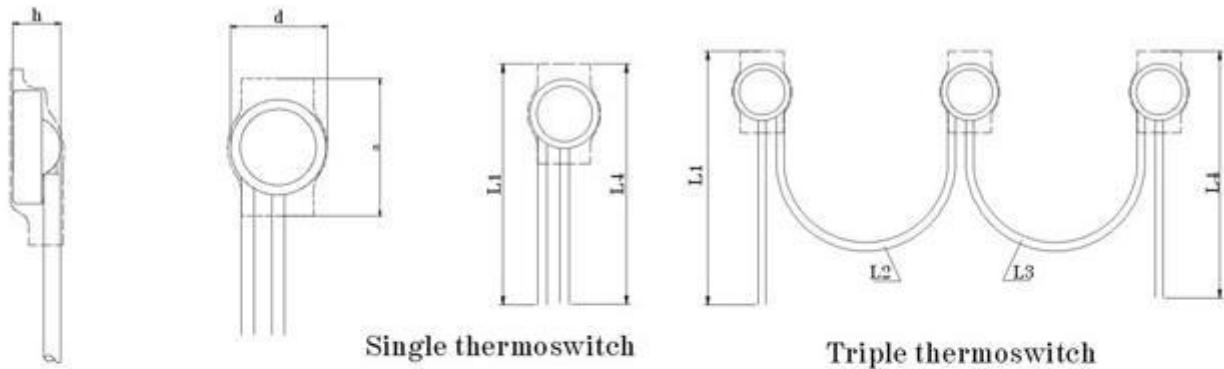
MK1 type super temperature protection thermoswitch has many excellences of small volume,sensitive action and reliable performance .The thermoswitch can be applied to the middle process control ,especially it can endure some mechanical pressure ,and can work stably for a long time .its all performances have reached the international advanced level .

3. TECHNICAL PARAMETER

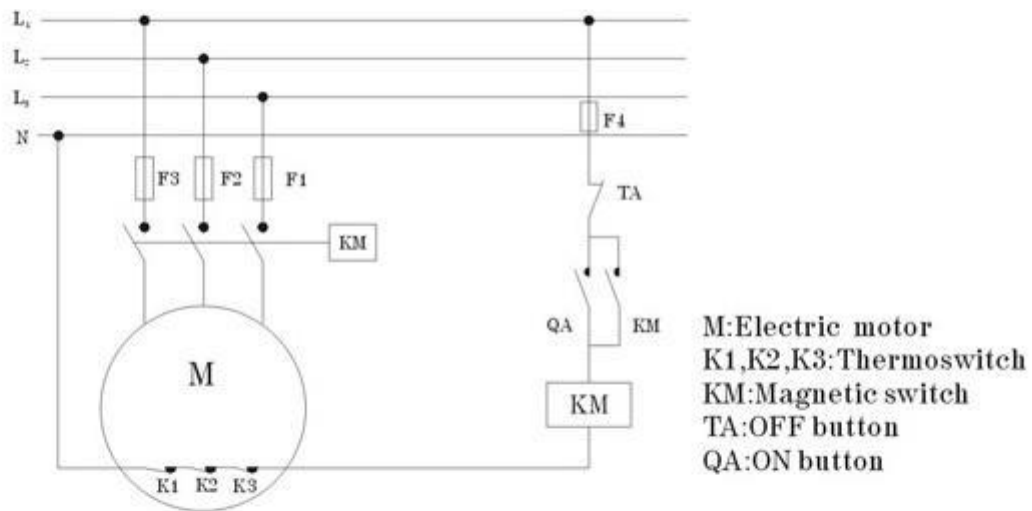
Contact variety	Switch on normally	
The Rated switch temperature each 5℃ span in series (TK)	60 ~ 200℃	
Standard tolerance	± 5K	
Reset temperature range (under rated switch temperature)	30K ± 15K	
Maximum operating voltage	500VAC	
Rated current (AC: COS ϕ = 1.0)	250VAC 2.50A	500VAC 0.75A
Rated current (AC: COS ϕ = 0.6)	250VAC 1.60A	500VAC 0.5A
Switch on and off times at rated current	10000	
Sensitivity of switch on and off times at maximum switch current 250V AC/5.0	2000	
Contact resistance	< 50m Ω	
Antiseismic capacity	100m/s ²	
Stability of outer shell pressure	450N(45kg)	
Insulation voltage	2KV	
Length of insulating sleeve a	> 16mm	
Diameter	< 9.4mm	
Highly	< 4.8mm	
Sectional area of lead-out wire	0.35mm ²	
Standard length of lead-out wire	L ₁ = L ₂ = 520 ± 10mm L ₃ = L ₄ = 200 ± 5mm	

Note: K expresses the change of temperature (unit is K).

4. OUTER DIMENSION OF THERMOSWITCH



5. WIRING REFERENCE DIAGRAM



6. TYPE EXPLANATION

The different insulation rank electric motor selects switch of different temperature Tk, as following table shows (only reference).

Electric motor insulation rank	Thermoswitch Tk
Y	75~80℃
A	90~95℃
E	105~110℃
B	115~120℃
F	140~145℃
H	165~170℃

7. ORDERING DEMONSTRATION

	MK1	<input type="checkbox"/>	D	K	—	<input type="checkbox"/>	—	<input type="checkbox"/>	—	<input type="checkbox"/>	—	<input type="checkbox"/>
						1		2		3		4
M-Sensitive component												
K-Switch model												
1-1 model												
150- switch temperature												
E-Single thermoswitch												
Z-Diploid thermoswitch in series												
D-Triple thermoswitches in series												
V-Quadruple thermoswitches in series												
S-Sextuple thermoswitches in series												
S- Standard lead wire length												
K-Special lead wire length requested by user												

If user has special requirement(k)

1~4 corresponding to L1~L4 respectively,unit cm,or omitted

