



TK24 1/2"Disc Thermostat

Operating Temperature Range (-45°C to +250°C)

This is a cyclic operating temperature sensitive device, which is intended to control the temperature between two particular values under normal operating conditions, automatically switching on or off the electrical circuit.

This thermostat can be built to either open or close its electrical contacts as the temperature increases. Once the temperature of the bimetal disc has returned to the specified reset temperature, the contacts will automatically return to their original state.

Besides its variety of standard configurations the thermostat can also be customized to the specific technical needs of the customer, assuring maximum design flexibility and usage in broad range of temperature control applications for consumer, industrial and commercial products.

Contact Type: Normally Closed; Normally Open

BASIC TECHNICAL DATA FOR TK24 (10 °C - 175 °C)

Parameter	Value		
Rated voltage, V, not more	~250		
Rated current, A, at power coeff. 0,95, not more	16		
Rated current, A, at power coeff. 0,6, not more	10		
Number of automatic cycles, at rated current 16 A and power coeff. 0,95, not less than	30 000		
Number of automatic cycles, at rated current 10 A and power coeff. 0,95, not less than	100 000		
Operating temperature, ^o C	10 to 175		
Tolerance of operating temperature, %, but not less than °C	±1; ±3		
Reset temperature, lower than operating temperature, ^o C, on	5±3; 15±5; 40±10		
Transient resistance, Ω , not more	0,005; 0,01; 0,05		
Contact operating time, ms, not more	3		
Electric strength of insulation, V, not less than	1500		
Insulation resistance, M Ω , not less than	50		
Heating speed, K/min	minimum-0,1, maximum-1,0		
Degrees of protection provided by enclosure	IP4X; IP64		

BASIC TECHNICAL DATA FOR TK24 (175 °C - 250 °C)

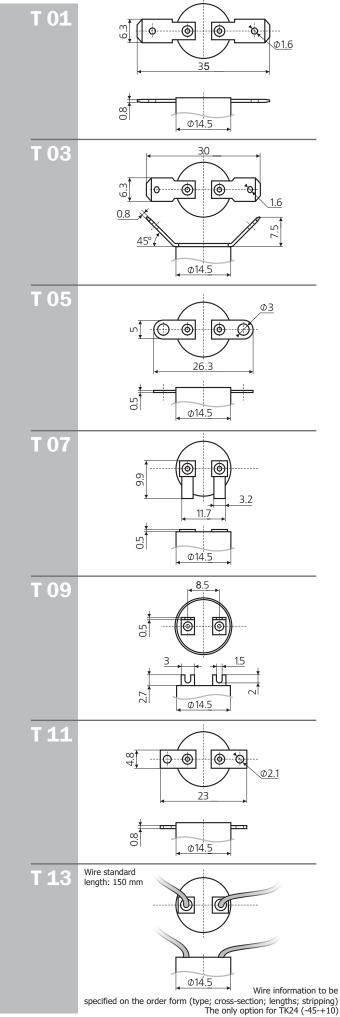
Parameter	Value
Rated voltage, V, not more	~250
Rated current, A, at power coeff. 0,95, not more	16
Rated current, A, at power coeff. 0,6, not more	10
Number of automatic cycles, at rated current 16 A and power coeff. 0,95, not less than	30 000
Number of automatic cycles, at rated current 10 A and power coeff. 0,95, not less than	100 000
Operating temperature, ^o C	175 to 250
Tolerance of operating temperature, %	±3;±6
Reset temperature, lower than operating temperature, ^O C, on	$30 \pm 10; 50 \pm 10$
Transient resistance, Ω , not more	0,05
Contact operating time, ms, not more	3
Electric strength of insulation, V, not less than	1500
Insulation resistance, M Ω , not less than	50
Heating speed, K/min	minimum-0,1, maximum-1,0
Degrees of protection provided by enclosure	IP4X; IP64

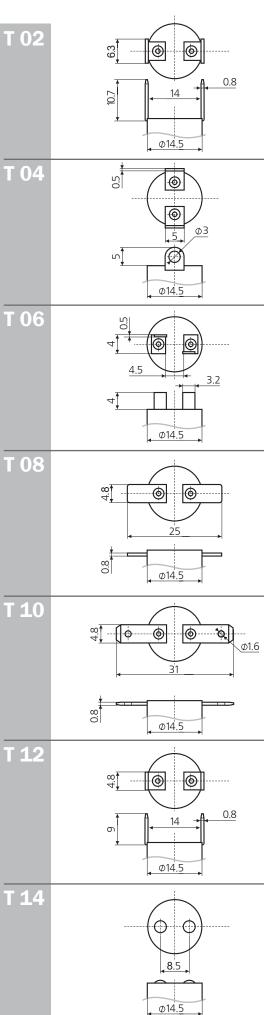
BASIC TECHNICAL DATA FOR TK24 (-45 °C - +10 °C)

Parameter	Value		
Rated voltage, V, not more	~250		
Rated current, A, at power coeff. 0,95, not more	16		
Rated current, A, at power coeff. 0,6, not more	10		
Number of automatic cycles, at rated current 16 A and power coeff. 0,95, not less than	30 000		
Number of automatic cycles, at rated current 10 A and power coeff. 0,95, not less than	100 000		
Operating temperature, ^o C	- 45 to 10		
Tolerance of operating temperature, °C	±3		
Reset temperature, lower than operating temperature, ^O C, on	10±3; 15±5		
Transient resistance, Ω , not more	0,05*		
Contact operating time, ms, not more	3		
Electric strength of insulation, V, not less than	1500		
Insulation resistance, M Ω , not less than	50		
Heating speed, K/min	minimum-0,1, maximum-1,0		
Degrees of protection provided by enclosure	IP64		

*May differ depending on the wire type and length

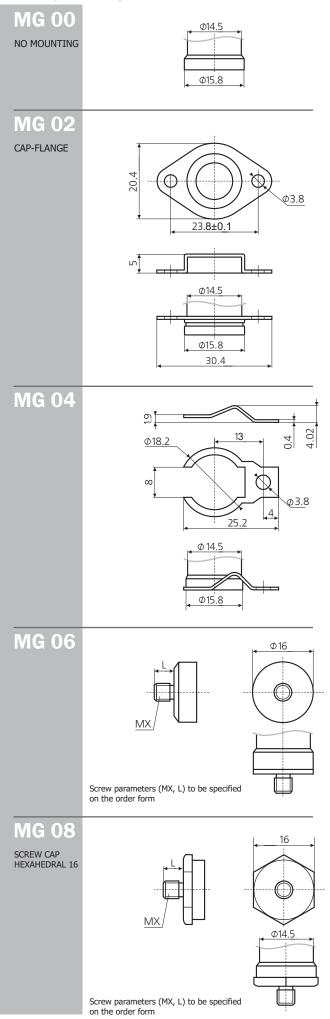
Table 1.1 (TERMINALS)

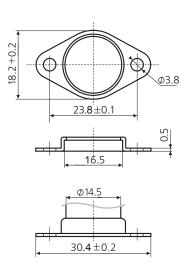




Soldering balls

Table 1.2 (MOUNTING)



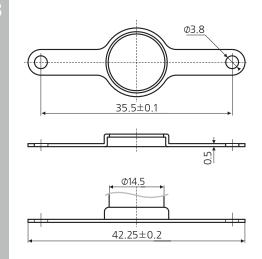


MG 03 ROTATION

CLIP

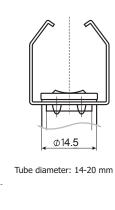
MG 01

ROTATION OR FIXED CLIP



MG 05

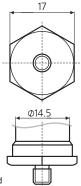
TUBE MOUNTING



MG 07

SCREW CAP HEXAHEDRAL 17





Screw parameters (MX, L) to be specified on the order form

Table 1.2 (MOUNTING)

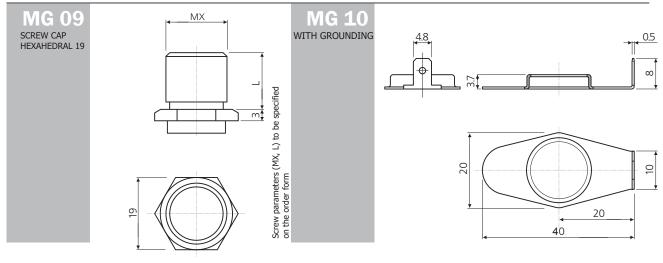


Table 1.3 (BODY and/or CASE)

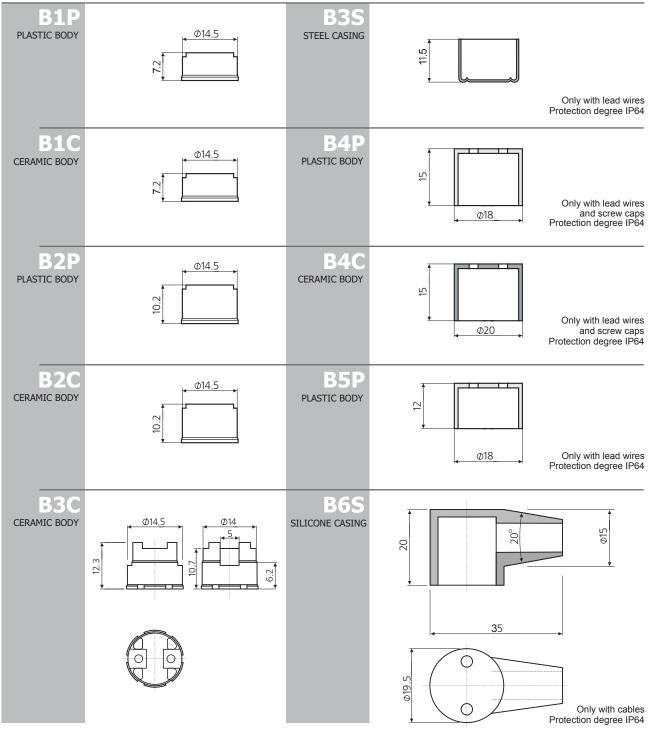


Table 1.4 (CONTACT TYPE AND CONTACT TRANSIENT RESISTANCE VALUE)

CODE	CONTACT TYPE	CONTACT TRANSIENT RESISTANCE, mOhm
1	Normally closed (NC)	≤50
2	Normally open (NO)	≤50
3	Normally closed (NC)	≤10
4	Normally open (NO)	≤10
5	Normally closed (NC)	≤5
6	Normally open (NO)	≤5

PART ORDERING SYSTEM

TK24	TX*	MGX**	BXX	X	X±X***	X±X***	
1	2	3	4	5	6	7	
1	Thermostat model						
2	Terminals version (select from Table 1.1)						
3	Mounting version (select from Table 1.2)						
4	Body version (select from Table 1.3)						
5 Contact type and contact transient resistance value (select from Table 1.4)							
6	6 Operating temperature value in °C and tolerance in ± %***						
7	Reset temperature	value in ^o C and toleran	ce in ± %***				
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Example: TK24-T01-MG04-B2C-2-60±3%-20±5%

*For wire terminals, lead wire parameters must be specified when placing an order: insulation type, cross-section area; ends type; lenght; etc.

**For screw cap mountings, screw parameters must be specified when placing an order.

***Tolerance in % or o C, whichever numerical value is bigger.



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