Excellent Integrated System Limited

Stocking Distributor

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Cantherm MQT8K000XBARB

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of Cantherm: Excellent Integrated System Limited

Datasheet of MQT8K000XBARB - THERMOSTAT CTRL 0 DEG C NC 2A

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Tab terminal series

A #110 tab comes out from the thermostat main body, and a double pole receptacle is prepared as the corresponding connection. Because the conventional type with a lead could not adapt itself to lead length cases different from the standard lead length (150mm), we changed it so that the customer can freely select the lead length.



*It is expected that the customer will make the connection of the lead, with the length required by the customer, and the female housing.

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MQTRXI model thermostal (with #10 tab). Declicated double pole female housing No.110 tab: in connector.

External diameter of coated were 2.1 to 2.8mm)

Please do the caulining of this section by the customer.

Mortal on the housing the foundation of the cauling of this section by the customer.

NOTE: Because No.110 tab: in connector comes in a reel, connection by an automated machine is possible.

Cross bar contacts

For ordinary contacts, the maximum current is indicated as 2 or 5 A max. etc. What is the minimum current? This is generally around 50~100 mA. Currents below this range are covered by special contacts for micro current.

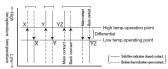
The minimum current for ordinary contacts of our 2 Amp./5 Amp. series is also 50 mA. For currents below 50 mA, Crossbar contacts, called K contacts, are applied. Since the current range covered by cross contacts is 1-100 mA, 50-100 mA is covered both by ordinary contacts and micro capacity contacts. As this range is a recommended standard, ordinary contacts can be used for 20 mA as well, however, the possibility of contacts failure will increase. Though the rating is indicated as 1-100 mA for crossbar contacts, these contacts may also be used in any amperage out of this range. 1-100 mA is the range that 100% conduction is ensured. The structure of crossbar contacts is that of two noble metal contacts in trapezoidal shape, contacting with each other crosswise. The benefit of this structure is that there will be smaller possibility for contact failure because it can assure the large contact pressure per unit area.

Contact type indication •

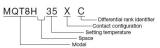
Contacts which open when the temperature rises are designated as X, and those which close when the temperature rises are designated as Y. Shown in the diagram is the temperature at which the contacts operate when the temperature rises (the high temperature side).

- X [Xbar] and Y [Ybar] are used for contacts that operate when the temperature falls (the low temperature side). X [Xbar] inclines the contact that does when the temperature falls. 2 Indicates transfer contact that operate when the temperature falls. 2 Indicates transfer contacts and to preserve the temperature falls. 2 Indicates transfer contacts that operate when the temperature falls.
2 (Xbar Z) is the main contact that operate when the temperature falls.

• C is the standard rank designation for X contacts and B is standard for Y contacts. Please consider X is C ranked and Y is B ranked, unless otherwise indicated.



Model designation method •



MQT8H K35XC represents a thermostat with crossbar contacts (K means cros contact). For 5 Amp. Series with a back contact, a model name will be, for example, M3 70XZB, where Z means contact with the back contact.



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Website: www.cantherm.com | Division of Microtherm



CONTROL THERMOSTATS (MQT) 2 AMP SERIES





Distributor of Cantherm: Excellent Integrated System Limited

Datasheet of MQT8K000XBARB - THERMOSTAT CTRL 0 DEG C NC 2A

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Ratings for Standard Temperatures. (AC125V/2A, AC250V/1.3A, DC12V/2A, DC24V/1.3A) -10°C~110°C All models are available with double sealed construction

. drawing										
type	photo	dimensions (mm)	features							
MQT8K With a mounting tab Two lead wires		5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Nepresentative model of the 2 Amp. series. Unong life and small differential thermostat. It can be mounted with only one screw. It is most suitable for outside air temperature detection.							
MQT8H No mounting tab Two lead wires		34 150	It is suitable for insertion into heater pads, etc. The internal structure is the same as MQTaK.							
MQT8KT MQT8K with tab terminals. With a mounting hole. Tab size:#110		January John The terminal is #110, Faston	1.) MQT8K with a tab terminal. 2.) install a lead of your desired length into the receptacle and use it by inserting the thermostat. 3.) We have the receptacle available.							
MQT8HT MQT8K with tab terminals. No mounting hole. Tab size:#110		34 , 35, 35 (40,000 T)	The usage is the same as MQT8KT. The only difference is that it has no mounting hole.							
MQT11K Fuse installed. Two lead wires. With a mounting hole. MQT11H Fuse installed. No mounting hole. Two lead wires		49.5 150 MGT11K	1.) Cases of MQT8K and 8H are wid- ened and temperature fuse is connected in series inside the case for dual safety. 2.) Standard specifications for the fuse temperature is 76°(108°C/115°C/133°C/145°C. 3.3 °C/145°C. 3.3 °C/145°C. 3.3 °C/145°C. 3.3 °C/145°C. 4.3 °C/145°C. 4.3 °C/145°C. 4.3 °C/145°C. 4.4 °C/145°C. 4.4 °C/145°C. 4.5 °C/14							
MQT8H (DS) Double sealed construction		* 20 00	While a near complete sealing is achieved by double sealing (DS), moisture intrusion by capillary action at the tip of the lead cannot be avoided. Be careful not to have water splash on the lead tip.							

■ 2 Amp. Series for ordinary temperature (AC125V/2A, AC250V/1.3A) [-10°~110°C] ■

Ratings and Characteristics:

tolerance of Set Temperature and Differential vs. Set Temperature													
Setting Temperature		-10°C1°C		0°C-50°C		51°C-59°C		60°C-65°C		66°C-75°C		76°C-110°C	
Diff.	Contact configuration	X	Y	Х	Y	Х	Y	Х	Y	X	Y	Х	Y
Α	(2°C~5°C)			±3	±3			$\overline{}$					
В	(3°C~6°C)	±4	±4	±3	±3	±4	±4	±4					
С	(5°C~8°C)	±4	±4	±3	±3	±4	±4	±4		±5			
D	(8°C~12°C)	±4	±4	±4	±4	±4	±4	±4	±4	±5	±5	±5	±5

Note: 1. Above list shows the standard tolerance. 2. Special tolerance such as ±1.5 or ±2 will be available.

Table of contact capacity by voltage used and by DIFF. ranking (100,000 cycle life is standard)

	Current	Stand	Crossbar contact (For micro current)							
Voltage		Differential rank	Current(unit	powe	r factor 1)	Differential rank	С	Current(un	it po	ower factor 1)
_	DC48V	A	50mA	~	0.3A	A	١	_		
		В	50mA			В	Ц	1mA		100mA
		С	50mA	~		С	П	IIIIA		IOOIIIA
		D	50mA		0.6A	D	1			
		A	50mA	~		A	1)	1mA	~	
AC250V	DC24V	В	50mA	~		В	Ш			100mA
	502.1	С	50mA		1.3A	С	ш			
		D A	50mA		1.3A 1A	D A	1			
	DC12V	B	50mA	-	1.5A	B	1)		~	100mA
AC125V		C	50mA	~	2A	C	и	1mA		
		D	50mA	~	2A 2A	D	П			
1/5 of the current at unit power factor by 0.4 power factor. 3. Spark suppression wilb er equired for a load in DC. Maximum operating voltage : AC250V max., DC48V max.										
Temperature setting range: -10°C-110°C (tolerance/differential will change in the higher temp.) (see the above table) Differential: rank A3.5±1.5(2-5)°C rank B										
Contact configuration : 1b(X) N Closed, or 1a(Y) N Open Operating temperature : -30°C-85°Cstandard), -30°C-125°C(special)(no icing, non condensing) range (use within 60°C above the set temperature.)										
Insulation resistance: 100MΩ or more										

range (use within 60° C above the set temperature.) Insulation resistance: $100M\Omega$ or more Contact resistance: $100M\Omega$ or more Contact resistance: $170m\Omega$ or less (including lead wire resistance)

Withstanding voltage: $170m\Omega$ or less (including lead wire resistance)

Withstanding voltage: $170m\Omega$ or less (including lead wire resistance)

Withstanding voltage: $170m\Omega$ or less (including lead wire resistance)

Vibration resistance: $170m\Omega$ or less (including lead wire resistance)

Withstands 2 hour each in directions $170m\Omega$ or less (including lead voltage)

No damage when dropped three times from the height of 40cm onto a concrete floor (about 70G). No damage for double seaded three times from the height of 1m onto a concrete floor (about 240G). Withstands substantial impact after being put in a package or mounted in equipment. Life: $170m\Omega$ or less thanks of the simple voltage in the legistration of 1m onto a concrete floor (about 240G). Withstands substantial impact after being put in a package or mounted in equipment.

Handling precautions: The thermostat withstands vibration and impact applied along Y and Z axis, but does not tolerate impact from X direction. It is recommended that the thermostats be installed to minimize stresses applied along the X axis.



