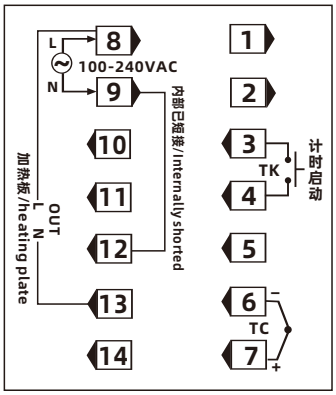
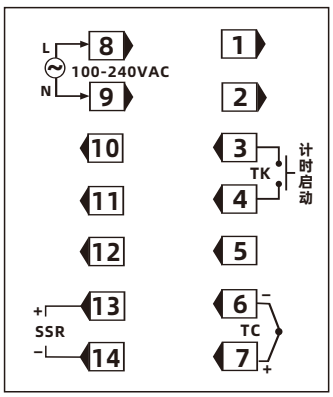
BEM-TCT-7B-KR

主控输出 master output	V	固态输出 （DC电源型） Solid state output (DC power type)
	R	继电器输出 （AC电源型） Relay output (AC power type)
输入信号 input signal	K	K型热电偶 Type K thermocouple
	E	E型热电偶 Type E thermocouple
	PT	PT型热电阻 PT type thermal resistance
显示位数 Display digits	B	999（3位）/ 999 (3 digits)
外形尺寸 External dimensions	1	DIN W48XH48mm
	4	DIN W48XH96mm
	7	DIN W72XH72mm
定时 timing	T	时间定时功能 Time timing function
设置方式 Setting method	C	2段显示型，按钮设置型 2-segment display type, button setting type
系列 series	T	温度控制器 Temperature Controller
		品牌型号 Brand model number

接线图 Wiring diagram



BEM-TCT-140B-KR
BEM-TCT-4B-KR
BEM-TCT-7B-KR



BEM-TCT-140B-KV
BEM-TCT-4B-KV
BEM-TCT-7B-KV

主要技术参数/The main technical parameters

系列 series		TCT-1B	TCT-4B	TCT-7B
电源电压 power supply Voltage	AC 电源型 AC power supply type	100-240VAC 50/60Hz		
	AC/DC 电源型 AC/DC power supply type	24VAC 50/60Hz 24-48VDC		
允许电压范围 Allowable voltage range		额定电压的90%~110% 90%~110% of rated voltage		
消耗功率 Power consumption		5VA以下(100-240VAC 50/60Hz,24VAC 50/60Hz) Below 5VA (100-240VAC 50/60Hz, 24VAC 50/60Hz)		
		3W以下(24-48VDC) Below 3W (24-48VDC)		
显示方式 Display method		7段LED(℃:红色，Time:绿色) 7-segment LED (PV: red, SV: green)		
输入类型 Input type	热电阻 Thermal resistance	Dpt100Ω, Cu50 (允许单根电线阻抗5Ω 以下) Dpt100Ω, Cu50 (allowing a single wire impedance below 5Ω)		
	热电偶 Thermocouple	K(CA)，J(IC)，L(IC)，T(CC)，R(PR)，S(PR)		
显示精度 display Precision	热电阻 Thermal resistance	(※1) 常温(23℃±5℃)时:(PV±0.5%或±1℃较大者)±1位 Normal temperature (23℃±5℃): (PV±0.5% or ±1℃ whichever is greater) ±1 digit		
	热电偶 Thermocouple	常温以外:(PV±0.5%或±2℃较大者)±1位 Outside room temperature: (PV±0.5% or ±2℃ whichever is greater) ±1 digit		
控制输出 Control Output	继电器 Relay	250VAC 10A Ia		
	SSR	12VDC ±2V 20mA 以下 12VDC ±2V 20mA or less		
报警输出 Alarm Output		AL1,AL2继电器：250VAC 3A Ia Al1, AL2 relay: 250VAC 3A Ia		
控制方式 way to control		ON/OFF,P,PI,PD,PID控制 ON/OFF, P, PI, PD, PID control		
控制精度 Control accuracy		1~100℃ / 0.1~50.0℃		

(※1): ◎常温（23℃±5℃）
·热电偶R,S在200℃以下时(PV±0.5%或±3℃中较大者)土1位
200℃以上时(PV±0.5%或±2℃中较大者)±1位
·热电偶L(IC), 热电阻Cu50Ω (PV±0.5%或±2℃中较大者)±1位

◎常温以外
·热电偶R, S在200℃以下时(PV±1.0%或±6℃中较大者)±1位
200℃以上时(PV±0.5%或±5℃中较大者)±1位
·热电阻Cu50Ω(PV±0.5%或±3℃中较大者)±1位

(※1): ◎Room temperature (23℃±5℃)
·When the thermocouple R, S is below 200℃ (PV±0.5% or ±3℃, whichever is greater) ±1 digit
Above 200°C (PV±0.5% or ±2°C, whichever is greater) ±1 digit
·Thermocouple L(IC), thermal resistance Cu50Ω (PV±0.5% or ±2°C whichever is greater) ±1 digit

◎Other than normal temperature
·When the thermocouple R, S is below 200℃ (PV±1.0% or ±6℃, whichever is greater) ±1 digit
Above 200°C (PV±0.5% or ±5°C, whichever is greater) ±1 digit
·Thermal resistance Cu50Ω (PV±0.5% or ±3°C whichever is greater) ±1 digit

比例带(P) Proportional band		0.1~999℃
积分时间(I) Integration time(I)		0~999秒
微分时间(D) Differential time(D)		0~999秒
控制周期(T) Control cycle(T)		0.5~120秒
手动复位 Manual reset		0.0~100%
采样周期 Sampling period		100ms
耐电压 Withstand voltage	AC 电源型 AC power supply type	2000VAC 50/60Hz1分钟(输入端子与电源端子之间) 2000VAC 50/60Hz for 1 minute (between input terminal and power terminal)
	AC/DC 电源型 AC/DC power supply type	1000VAC 50/60Hz1分钟(输入端子与电源端子之间) 1000VAC 50/60Hz for 1 minute (between input terminal and power terminal)
耐振动 Vibration resistant		5~55Hz(周期1分钟)振幅0.75mm X,Y,Z各方向2小时 5~55Hz (period: 1 minute), amplitude of 0.75mm in X, Y, and Z directions for 2 hours each
继电器寿命 Relay Life span	机械 Machinery	OUT:500万次以上,AL1/2:500万次以上 OUT: more than 5 million times, AL1/2: more than 5 million times
	电气 Electrical	OUT:20万次以上(250VAC 3A 阻性负载),AL1/2:30万次以上(250VAC 1A 阻性负载) OUT: 200,000 times or more (250VAC 3A resistive load), AL1/2: 300,000 times or more (250VAC 1A resistive load)
绝缘阻抗 Insulation resistance		100mΩ以下(500VDC为基准) Below 100mΩ (500VDC as the benchmark)
抗干扰 Anti-interference		干扰模拟器方波干扰(脉冲宽度1 μ s)±2kV R相,S相 Interference simulator square wave interference (pulse width 1 μ s) ± 2kV R phase, S phase
记忆保存 Memory preservation		约10年(使用非易失性半导体存储方式) About 10 years (using non-volatile semiconductor storage method)
环境温度 Ambient temperature		-10~50℃(未结冰状态) -10~50°C (non-icing state)
储存温度 Storage temperature		-20~60℃(未结冰状态) -20~60°C (non-icing state)
环境湿度 Environmental humidity		35~85%RH, 存储:35~85%RH 35~85%RH, storage: 35~85%RH
绝缘类型 Insulation type		双重绝缘或强化绝缘(标识:回，检测输入部分与电源部分之间的介电强度AC电源型:2kV,AC/DC 电源型:1kV) Double insulation or reinforced insulation (marking: return, detecting the dielectric strength between the input part and the power supply, AC power supply type: 2kV, AC/DC power supply type: 1kV)

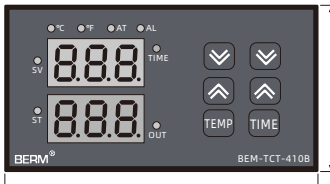
烫印参数说明 / Hot stamping parameter description

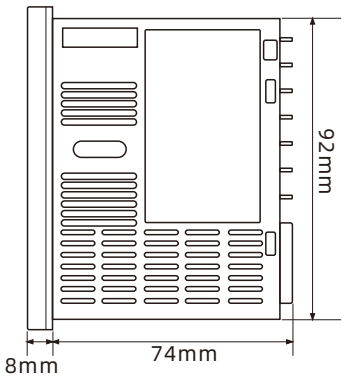
代号 code	意义 significance	其他说明 other instructions	范围 scope	默认值 Defaults
OTC	提前报警时间 advance alarm time	当减一倒计时时间等于OTC时间时内置蜂鸣器响OTC时间 When the countdown time minus one is equal to the OTC time, the built-in buzzer sounds the OTC time	0—250秒（SEC）	0
SCT	下排数码显示方式 Lower row digital display mode	=0 正常状态下显示设定时间或倒计时时间，设置参数时显示参数数值。 =0 Display the set time or countdown time in normal state, and display theparameter value when setting parameters =其他 正常状态下显示SV温度设定值，启动计时后显示倒计时时间，设置参数时显示参数数值。 =Other Displays the SV temperature setting value in normal state, displays the countdown time after starting the timer, and displays the parameter value when setting parameters.	0 - - 3	0
TOF	时间输出类型 Time output type	当倒计时结束后时间继电器（蜂鸣器）吸合输出时该功能有效，延时TOF时间后断开 This function is valid when the time relay (buzzer) picks up the output after the countdown ends, and disconnects after delaying the TOF time =00 时则吸合直到启动开关断开 =00, it will pull in until the start switch is off =100 时则一直以0.5秒间隔输出直到启动开关断开 =100, it will be output at 0.5 second intervals until the start switch is turned off =104 时则以0.5秒断续输出4秒既4声后断开 =104, it will be output intermittently for 4 seconds in 0.5 seconds,that is,it will be disconnected after 4 sounds =003 时则一直输出4秒后断开 =003, it will always output for 4 seconds and then disconnect	0—199秒（SEC）	00
M-S	时间单位 time unit	=0 时减一时间单位为秒钟 =0, minus one time unit is seconds =1 时减一时间单位为0.1秒钟 =1, minus one time unit is 0.1 seconds =2/3 时减一时间单位为分钟 = 2/3, minus one time unit is minutes	0-3	0
OTS	烫印类型 Hot Stamp Type	=0：开关闭合，显示倒计时，倒计时为0，时间继电器吸合，内部蜂鸣器响，一直等到开关断开，继电器才释放，蜂鸣器才不响，一次操作完成； =0: The switch is closed, the countdown is displayed, the countdown is 0, the time relay is closed, the internal buzzer sounds, wait until the switch is disconnected,The relay is released, the buzzer does not sound, and one operation is completed; =1：开关闭合，显示倒计时，时间继电器吸合，倒计时为0，继电器释放，蜂鸣器响，一直等到开关断开，蜂鸣器才不响，一次操作完成； =1: The switch is closed, the countdown is displayed, the time relay is closed,the countdown is 0, the relay is released, the buzzer sounds,Wait until the switch is turned off, the buzzer does not sound, and one operation is completed; =7：头上电判断测量值大于等于设置值后开关闭合有效：开关闭合，显示倒计时，时间继电器吸合，倒计时为0，继电器释放，蜂鸣器响，一直等到开关断开，蜂鸣器才不响，一次操作完成。开关再次闭合启动倒计时不再判断温度值 =7: When the head is powered on to determine that the measured value is greater than or equal to the set value, the switch is closed and the switch is closed: the switch is closed, the countdown is displayed, the time relay is closed,When the countdown is 0, the relay is released, the buzzer will sound, and the buzzer will not sound until the switch is turned off, and one operation is completed. switch again Closed start countdown no longer judges the temperature value =3:点动开关输入启动倒计时，倒计时为0，继电器吸合，同时蜂鸣器响，等到再次点动开关输入继电器释放和蜂鸣器不响，一次操作完成； =3: The jog switch input starts the countdown, the countdown is 0, the relay is closed, and thebuzzer sounds at the same time, wait until the jog switch is pressed again The input relay is released and the buzzer does not sound, and one operation is completed; =4：点动开关输入启动倒计时，继电器吸合，倒计时为0，继电器释放，同时蜂鸣器响，等到再次点动开关输入蜂鸣器不响，一次操作完成； =4: The jog switch input starts the countdown, the relay is closed, the countdown is 0, the relay is released, and the buzzer sounds at the same time. When the jog switch input buzzer does not sound again, one operation is completed; =5:点动开关输入启动倒计时，倒计时为0，继电器吸合，同时蜂鸣器响，一次操作完成，等到下次点动开关输入启动时，继电器才释放和蜂鸣器不响； =5: The jog switch input starts the countdown, the countdown is 0, the relay is closed, and the buzzer sounds at the same time, one operation is completed,The relay will be released and the buzzer will not sound until the next time the jog switch input is activated;	0---17	0

		=6:点动开关输入启动倒计时，继电器吸合，倒计时为0，继电器释放，蜂鸣器响，一次操作完成，等到下次点动开关输入启动时，继电器又再次吸合和蜂鸣器不响； =6: The jog switch input starts the countdown, the relay is closed, the countdown is 0, the relay is released, the buzzer sounds, one operation is completed,Wait until the next time the jog switch input is activated, the relay will pull in again and the buzzer will not sound; =15：高低温控制，当温度小于设定低温有输出，升到设定低温无输出，开关闭合温小于高温设定值，有输出，升到高温设定值无输出，开始倒计时； =15: High and low temperature control, when the temperature is lower than the set low temperature, there is output, when the temperature rises to the set low temperature, there is no output, and the switch closing temperature is less than the high temperature set value,There is output, when it reaches the high temperature set value, there is no output, and the countdown starts; =16：点动按键启动，点动时间加键，显示倒计时，倒计时为0，时间继电器吸合，内部蜂鸣器响，等到再次点动按键，继电器才释放，蜂鸣器才不响，一次操作完成。 =16: Press the button to start, press the time plus button, display the countdown, the countdown is 0, the time relay is closed, the internal buzzer sounds,When the button is pressed again, the relay is released, the buzzer does not sound, and one operation is completed. =17：点动按键启动，点动时间加键，显示倒计时，时间继电器吸合，倒计时为0，继电器释放，蜂鸣器响，等到再次启动按键，蜂鸣器才不响，一次操作完成； =17: Press the button to start, press the time plus button, display the countdown, the time relay is closed, the countdown is 0, the relay is released, the buzzer sounds,Wait until the button is activated again, the buzzer will not sound, and one operation is completed; =其他 无用 = other useless		
OSH	高温计时 High temperature timing	OTS=15时有用，当测量温度达到OSH时开始计时 Useful when OTS=15, start timing when the measured temperature reaches OSH	00---SCH	200
OSL	低温启动 low temperature start	OTS=15时有用，当测量温度达到OSL时启动开关有效 Useful when OTS=15, when the measured temperature reaches OSL, the start switch is effective	00---SCH	50
OTM	低温启动 low temperature start	OTM*10MS,当=30时，则倒计时结束蜂鸣器以0.3秒为频率通断，需要时建议设置为60。=0则长响 OTM*10MS, when = 30, the buzzer will be turned on and off at a frequency of 0.3 seconds at the end of the countdown. It is recommended to set it to 60 if necessary. =0 long beep	00---100	00
OTA	温度提示时间 temperature prompt time	通电后当PV > =SV时间蜂鸣器响OTA时间 为0无此功能 After power-on, when PV>=SV time buzzer sounds OTA time is 0, no such function	00---30S/秒	00

产品规格选型 / Product specification selection

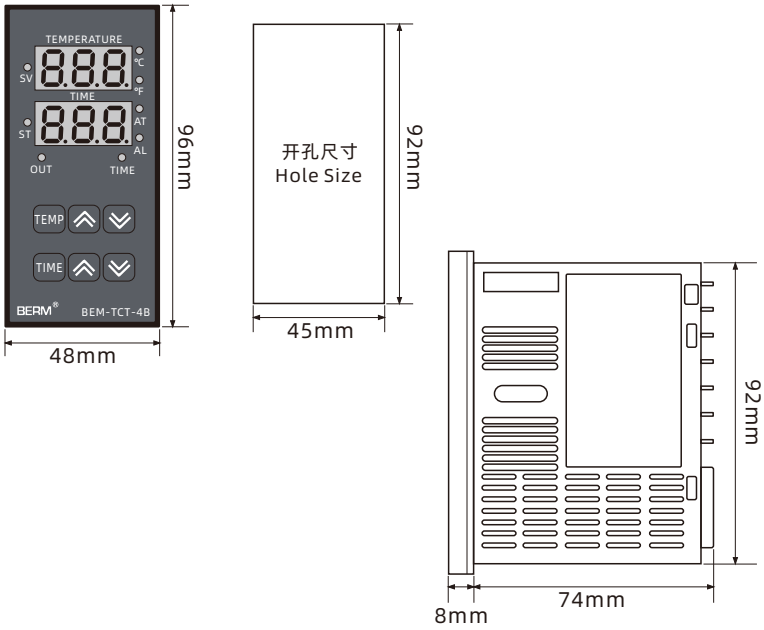
外形尺寸 External dimensions





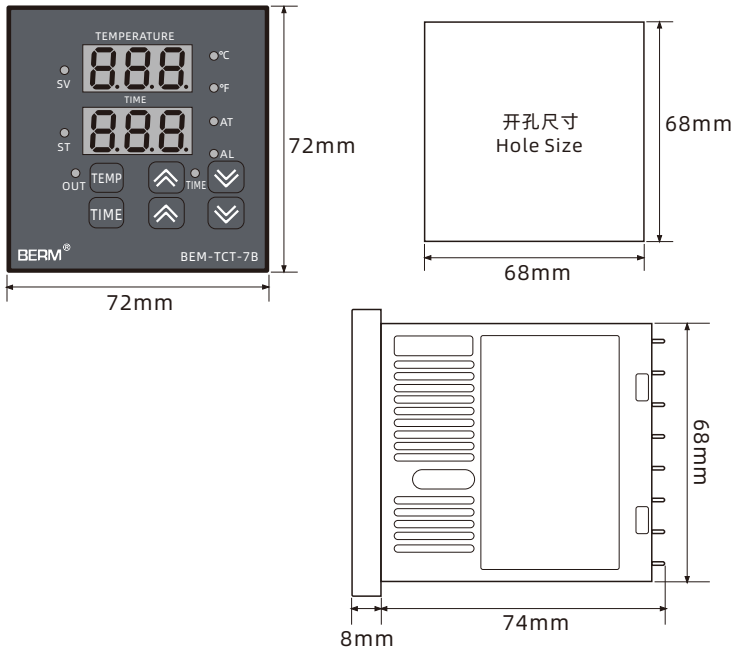
工作电压 Operating Voltage	100-240VAC				产品尺寸 Product Size	96X48X82MM		开孔尺寸 Hole Size	92X45MM
产品型号 Product model	主控输出 Main control output	时间范围 time range	最高温度 Maximum temperature	单价 unit price	产品型号 Product model	主控输出 Main control output	时间范围 time range	最高温度 Maximum temperature	单价 unit price
BEM-TCT-410B-KR	RELAY	0-999	0-999℃		BEM-TCT-410B-KV	SSR	0-999	0-999℃	
产品重量 product weight	（RELAY）1pcs/0.207KG （SSR）1pcs/0.182KG 50pcs/1箱(box)								

外形尺寸 External dimensions



工作电压 Operating Voltage	100-240VAC				产品尺寸 Product Size	48X96X82MM		开孔尺寸 Hole Size	45X92MM
产品型号 Product model	主控输出 Main control output	时间范围 time range	最高温度 Maximum temperature	单价 unit price	产品型号 Product model	主控输出 Main control output	时间范围 time range	最高温度 Maximum temperature	单价 unit price
BEM-TCT-4B-KR	RELAY	0-999	0-999℃		BEM-TCT-4B-KV	SSR	0-999	0-999℃	
产品重量 product weight	(RELAY) 1pcs/0.207KG (SSR) 1pcs/0.182KG 50pcs/1箱(box)								

外形尺寸 External dimensions



工作电压 Operating Voltage	100-240VAC				产品尺寸 Product Size	72X72X82MM		开孔尺寸 Hole Size	68X68MM
产品型号 Product model	主控输出 Main control output	时间范围 time range	最高温度 Maximum temperature	单价 unit price	产品型号 Product model	主控输出 Main control output	时间范围 time range	最高温度 Maximum temperature	单价 unit price
BEM-TCT-7B-KR	RELAY	0-999	0-999℃		BEM-TCT-7B-KV	SSR	0-999	0-999℃	
产品重量 product weight	(RELAY) 1pcs/0.207KG (SSR) 1pcs/0.185KG 50pcs/1箱(box)								