

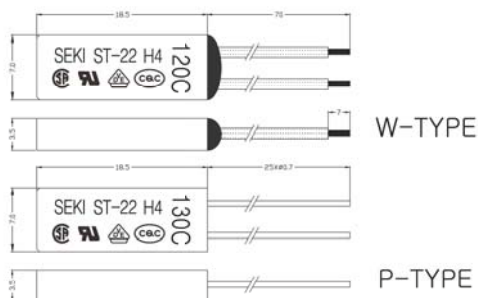


Preventing hazards due to overheating worldwide.
SEKI is always by your side.



SINCE 1980 ISO 9001/14001

THERMAL PROTECTOR



• FEATURE

- Snap Action
- Automatic Reset Bimetal
- Moisture/ Dust-Proof
- Superior Heat Response
- PBT Resin Case with Epoxy Seal
- Customization upon Request

• APPLICATION

Overheat protection for Electric Motors, Battery Chargers, Transformers, Power Supplies, Heating Pads, Fluorescent Ballasts, OA-Machines, Solenoids, LED Lighting, etc.

• TEMPERATURE SETTING RANGE (at no load)

50°C to 150°C in increments of 5°C

• TOLERANCE

Indicated temp. $\pm 5^\circ\text{C}$

• ON-OFF DIFFERENTIAL TEMP. (general)

$30 \pm 15\text{K}$

• HEAT ENDURANCE

Open temp. $+50^\circ\text{C}$ /continuity, $200^\circ\text{C}/1\text{min}$

• CYCLE LIFE(Resistive Load)

10A/125V AC 10,000 cycles, 7A/250V AC 10,000cycles
3A/48V DC 6,000 cycles, 2.2A/48V DC 10,000cycles

• CONTACT CAPACITY

Min. Current 50mA/ repeatedly,
Max. Current 30A/5 cycles

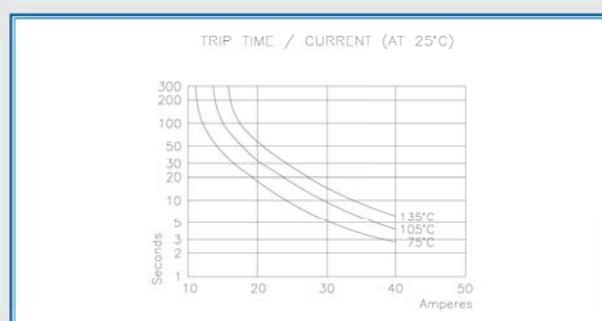
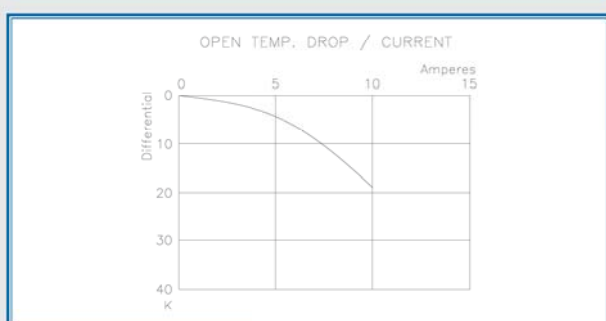
• CONTACT SYSTEM

Normally closed



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• APPROVAL/RATINGS

Agency	Standard	Category	Electrical Ratings	Max Temp	File NO.
UL	UL 2111	Thermal Protector	AC 125V/250V, 1/2 HP	150°C	E162232
		DC (Thermal Protective Device)	DC 48V/2.2A 10,000 cycles		
			DC 48V/3A 6,000 cycles		
		Resistive	AC 125V/10A, 250V/7A 10,000 cycles	130°C	E162183
		Incandescent Lamp	AC 125V/4A, 250V/2A 10,000 cycles		
CSA	CSA C22.2 No.77	Fluorescent Lamp/Ballast	AC 250V/1A 10,000 cycles		
	CSA C22.2 No.24	Motor Protectors	AC 250V, 1/2HP	150°C	203758
VDE	EN-60730-2-2	Appliance Type	AC 250V, 1/2HP, 6,000 cycles		
	EN-60730-2-9	Thermal Motor Protector	AC 250V	150°C	1916600-4510-0003
	EN-60730-2-3	Thermal Cut-Out	AC 250V/7A(4A) Resistive(Inductive) 10,000Cycles	130°C	
CQC	GB14536.1-2008	Thermal Ballast Protector	AC 250V/1A		
	GB14536.3-2008	Thermal Protector	Motor Protector AC 125V/250V, 1/2HP	150°C	CQC08002022430
	GB14536.10-2008		Resistive AC 125V/10A, 250V/7A 10,000 cycles		
KC	K60730-1	Thermal Protector	Inductive AC 125V/4A, 250V/2.5A 10,000 cycles		
	K60730-2-9		AC 250V/5A	150°C	ZH02003-10001B

• LEAD WIRE SPECIFICATION

- W-Type : UL3266 AWG22 Stranded. Standard Length: 70mm long with 7mm stripped
 - P-Type : ϕ 0.7 Tinned Lead. Standard Length: 25mm
- * The length can be adjustable on demand.

• WARNING

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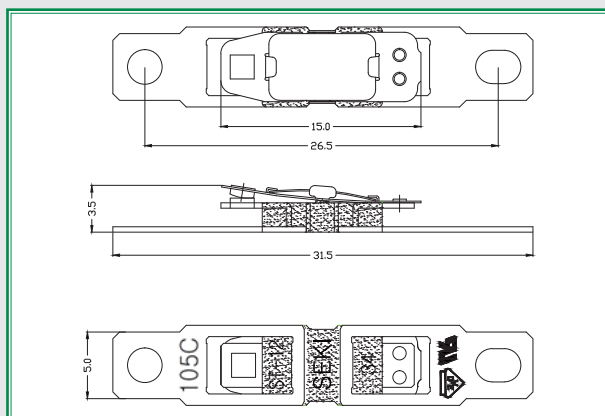
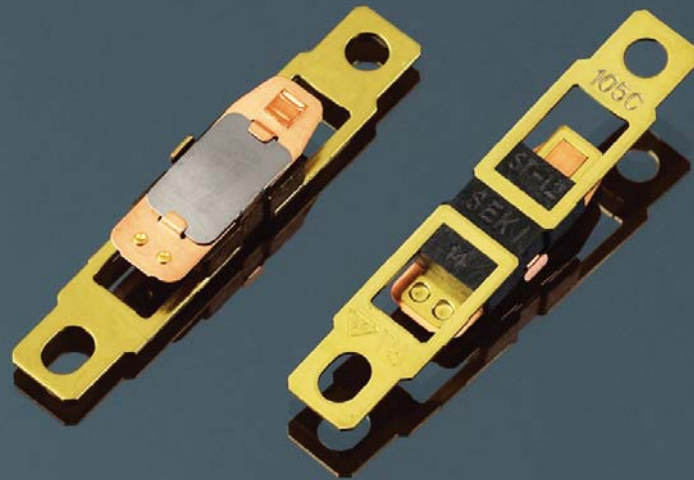
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SINCE 1980 ISO 9001/14001

THERMAL PROTECTOR

ST-12



• FEATURE

- Snap Action
- Automatic Reset Bimetal
- Superior Heat Response
- Non-Phenolic Insulation

• APPLICATION

Overheat protection for Hair Dryer, Electric Fan Heaters, Popcorn Machines, Electric Ovens, Dish Dryers etc.

• TEMPERATURE SETTING RANGE (at no load)

60°C to 150°C in increments of 5°C

• TOLERANCE

Indicated temp. $\pm 5^\circ\text{C}$

• ON-OFF DIFFERENTIAL TEMP. (general)

$30 \pm 15\text{K}$

• HEAT ENDURANCE

Open temp. $+50^\circ\text{C}$ /continuity, $200^\circ\text{C}/1\text{min}$

• CYCLE LIFE(Resistive Load)

15A/125V AC 10,000cycles,
10A/250V AC 10,000cycles,
13A/250V AC 6,000cycles

• CONTACT CAPACITY

Min. Current 100mA/ repeatedly,
Max. Current 30A/5 cycles

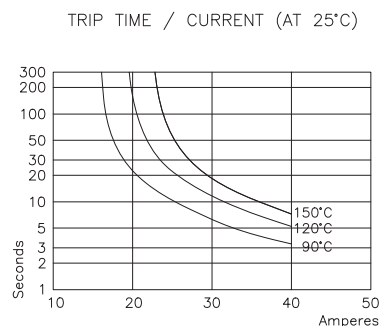
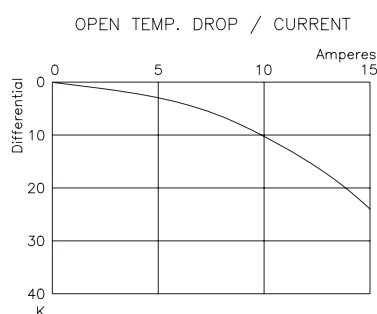
• CONTACT SYSTEM

Normally closed



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• APPROVAL/RATINGS

Agency	Standard	Category	Electrical Ratings	Max Temp	File NO.
c-ULus	UL873 CSA C22.2 No.24-93	Regulating Thermostat	AC 125V/15A, 250V/10A 10,000 cycles	150°C	E162183
VDE	EN60730-2-9	Thermal Cut-Out	AC 250V/13A(5A) Resistive(Inductive) 6,000 cycles	150°C	1916600-4510 -0004
CQC	GB14536.1-2008 GB14536.10-2008	Thermal Cut-Out	Resistive AC 250V/13A 6,000 cycles Inductive AC 250V/5A 6,000 cycles	150°C	CQC08002022429 CQC14002118209
KC	K60730-1 K60730-2-9	Thermal Protector	AC 250V/13A	150°C	ZH02003-10002A
CMJ		Thermal Cut-Out	Resistive AC 125V/15A 10,000 cycles	150°C	J-198

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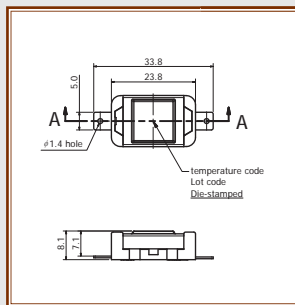
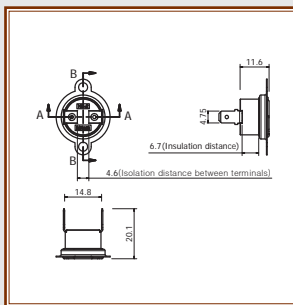


SINCE 1980 ISO 9001/14001

THERMOSTAT



HB-2 & HB-5



• FEATURE

- Snap Action
- Safety Design according to IEC Standard
- Manual and Automatic Resettable
- Single Operation Fuse Disc Available Contacts: Open on temperature rise, no closure unless the temperature 0° C or below -35° C
- Horizontal and Vertical Terminal Available
- Customized Wire Connection and Bracket Type Available

• APPLICATION

Automatic coffeemakers, Water heaters, Sandwich toasters, Dishwashers, Boilers, Dryers, Electric heaters, Washing machines, Refrigerators, Microwave ovens, Water purifiers, Bidet, etc.

• TEMPERATURE SETTING RANGE (at no load)

-20°C to 180°C

• TOLERANCE

Indicated temp. $\pm 3^{\circ}\text{C}$, $\pm 5^{\circ}\text{C}$

• ON-OFF DIFFERENTIAL TEMP. (general)

Min 7~10K

• CYCLE LIFE(Resistive Load)

15A/125V AC 100,000 cycles
7.5A/250V AC 100,000cycles

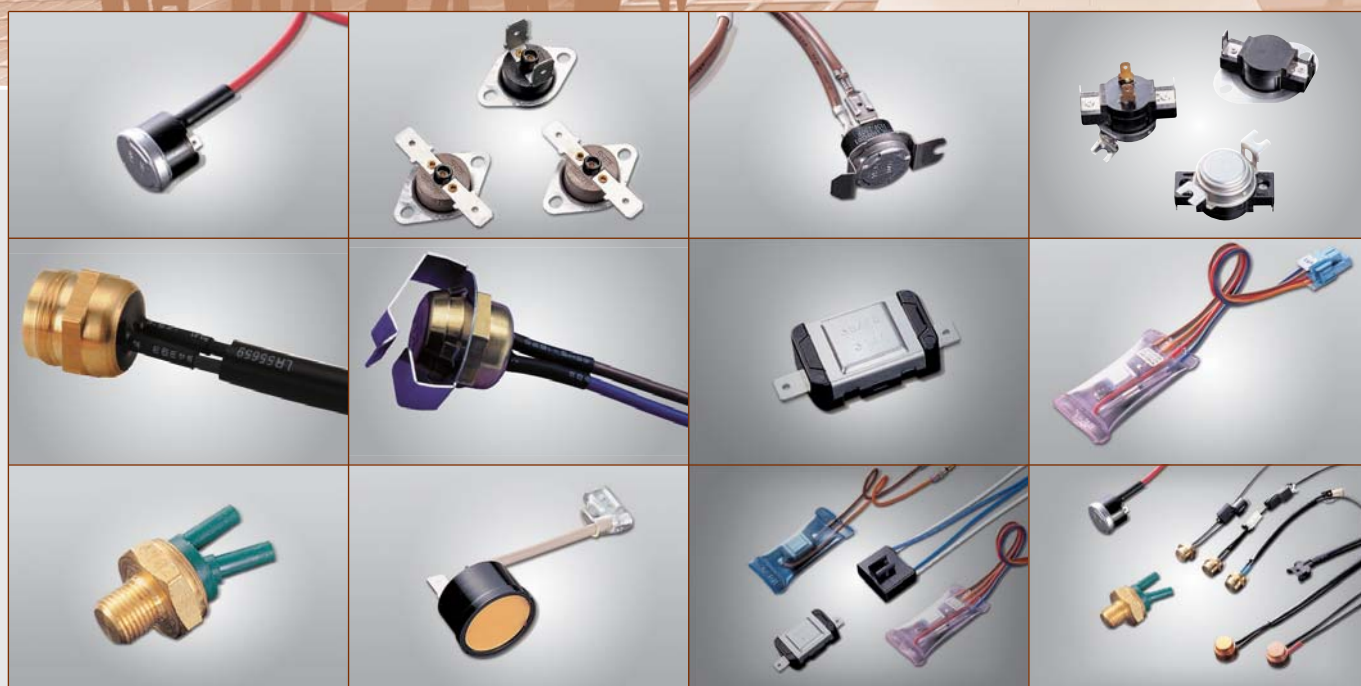
• CONTACT SYSTEM

Normally Closed / Normally Open



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• APPROVAL/RATINGS

Agency	Standard	Category	Electrical Ratings	Max Temp	File NO.
UL	UL 873	Temperature Regulating	AC 125V15A, 240V/15A, 250V/7.5A 100,000 cycles	150°C	E179705 (HB-2, HB-5)
		Temperature Regulating	AC 125V15A, 250V/7.5A 100,000 cycles		
TUV	EN-60730-1	Temperature Controller	AC 125/15A, 250V/7.5A 100,000 cycles	150°C	B 14 12 56203 011 (HB-2, HB-5)
	EN-60730-2-9				
	EN-607300-1	Temperature Controller	AC 125/15A, 250V/7.5A 100,000 cycles	90°C	B 14 12 56203 013 (HB-51, HB-52)
	EN-60730-2-9 EN-60335-2 EN-60079-15				
CQC	GB14536.1-2008 GB14536.10-2008	Thermostat	AC 125/15A, 250V/7.5A 100,000 cycles	160°C	CQC11002061867 (HB-2)
	GB14536.1-2008 GB14536.10-2008	Thermostat	AC 125/15A, 250V/7.5A 100,000 cycles	160°C	CQC11002061866 (HB-5)
KC	K607300-1 K60730-2-9	Thermostat	AC 250V/7.5A	150°C	to be updated (HB-2, HB-5)
	K607300-1 K607300-2 K60730-2-9	Thermostat	AC 250V/15A	150°C	YH02008-11001 (HB-2P)
	K60730-2-9	Thermal Protector	AC 250V/15A	180°C	to be updated (HB-21P)

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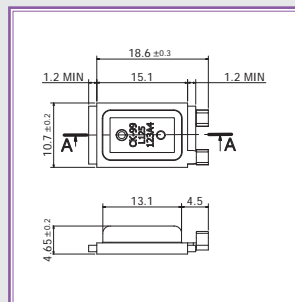
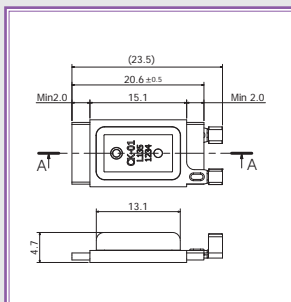
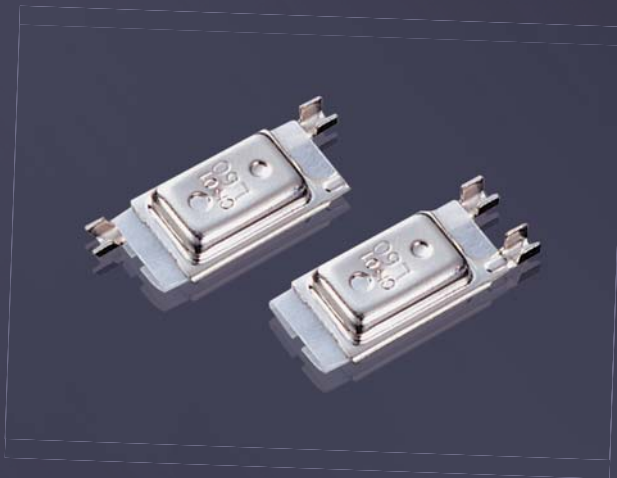


SINCE 1980 ISO 9001/14001

THERMAL PROTECTOR



CK-01 & CK-99



• FEATURE

- Snap Action
- Available with Both of Same(A Type)/ Opposite (B Type) Terminals
- Wide Selection of Leads and Insulating Sleeves
- Plastic Case and Epoxy Molding Available in Any Specific Applications
- Customization upon Request

• APPLICATION

Overheat protection for AC motors of home appliances, Pumps, Transformers, Fluorescent ballasts, HID ballasts, Recessed lighting

fixtures, Battery packs, Vacuum cleaners, Automotive accessories motors, Solenoid valves, etc.

• TEMPERATURE SETTING RANGE (at no load)

60°C to 180°C in increments of 5°C

• TOLERANCE

Indicated temp. $\pm 5^\circ\text{C}$

• ON-OFF DIFFERENTIAL TEMP. (general)

$40 \pm 15\text{K}$

• CYCLE LIFE

22A/125V AC 6,000 cycles
8A/250V AC 6,000 cycles

• CIRCUIT RESISTANCE

To be under 100m Ω at checking between terminals with DC 6V/1A m Ω meter.

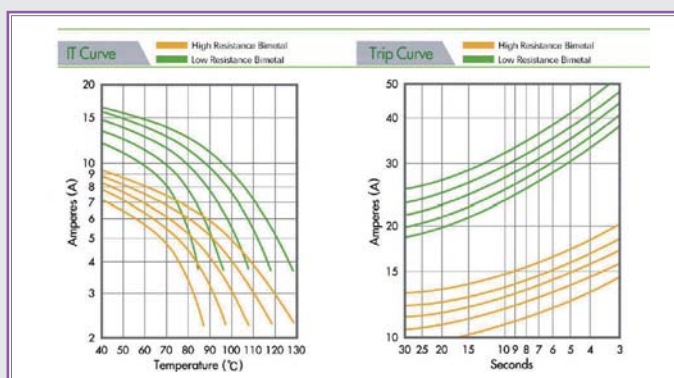
• CONTACT SYSTEM

Normally closed / Normally open



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• APPROVAL/RATINGS

Agency	Standard	Category	Electrical Ratings	Max Temp	File NO.
UL	UL 2111	Motor Protector	AC 125V/22A, 250V/8A	150°C	E215753 (CK-99, CK-01)
	UL 873	Fluorescent Lamp – Ballast	AC 250/1.5A AC 10,000 Cycle	150°C	E179705 (CK-99, CK-01)
		Regulating	AC 125V/18A, 250V/9A (resistive) 6,000 cycles	180°C	
TUV	EN-60730-1 EN-60730-2-2 EN-60335-2-24 EN-60079-15	Thermal Motor Protector	AC 125V/22A, 230V/8A	150°C	B 14 12 56203 010 (CK-99, CK-01)
		Temperature Controller	AC 125V/22A, 250V/22A 10,000 cycles	90°C	B 14 12 56203 012 (CK-011, CK-012)
		Temperature Controller	AC 125V/22A, 230V/8A	150°C	B 14 12 56203 008 (CK-011, CK-991, CK-993, CK-994)
CQC	GB14536.1-2008 GB14536.3-2008	Thermal Protector	AC 125V/22A, 250C/8A	150°C	CQC11002061868 (CK-99, CK-01)
KC	K60730-1 K60730-2-2	Thermal Protector	AC 250V/8A	165°C	to be updated

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