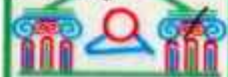




UCHIYA
THERMOSTAT

RECOGNIZED ELECTRICAL RATING LIST



ULTIMHEAT®

VIRTUAL MUSEUM

Type	MITI		UL		CSA		250Vac	
	125/250Vac	125/250Vac	125/250Vac		125/250Vac		250Vac	
	resistive	resistive	res'ive	motor	res'ive	motor	res've (ind've)	class I class II
	5000 cy	6000	100000		100000			
4 UP	2/1A							
" UPA, B	1.1/0.7	1.1/0.7						
5 UP3, 31	2/1						1(0.7)	
" 32, 33	"						"	
6 UP41, 42, 43	2/1							
7 UP51, 52, 53	2/1							
8 UP2, 21	3/2						2(1)	
9 JP8X5A	5/3	5						
" JPA	"	5						
10 UC4,	5/3		2		2			
" UC42	"		"					
9 JP8X5Y	4/2		4	1/2HP				
11 UC	12/8	12/8						
" UC2	"		6	1/2HP	6	OK		
11 UI	12/8							
" UI2	"		6		6	OK		
12 US, US2	16/10			1/2HP				
" US3, US4	"							
13 UC5	5/3		2					
" UC6	"							
13 UC5-50B	1/0.7							
14 UC55	5/3	2						
" UC66	"							
15 JP8X5B	5/3	5						
" JPB	"							
16 UD	12/8	12/8						
" UD2	"		6				8(5)	4(2.5)
" UDR	" man.		12/8man.		12/8man.		8(5)	8(5)man.
17 UB, UB2	12/8						8(5)	4(2.5)
18 DD3	12/8						8(5)	4(2.5)
" DR3	" man.		12/8man.		12/8man.		8(5)	8(5)man.
" D33, D33T	"							
19 UD3	12/8		12/8		12/8		16(10)	
" UD31	"						"	
" UR3	" man.							16(10)man
20 DD	12/8		12/8		12/8		16(10)	
" DDR	" man.		12/8man.				"	
" DDP	"							16(10)man
21 ZO, DO	4/2							
22 CO, YO	"							
23 ICO, IYO	"							
21 ZO2, DO2	1.5/0.7							
22 CO2, YO2	"							
23 ICO2, IYO2	"							
24 JA(3-6)	3-6							
" JR(3-6)	"							
" YJ(3-6)	"							
25 JR11	11							
26 F	15/8						16(10)	8(5)
27 DF	15/8							
" DFR	" man.							
28 K	15/8		15/8		15/8			
29 UE	1.5/1							
" UEC	"							
29 UE2	5/3							
" UEC2	"		5/3					
30 UH	1.5/1							
" UHC	"							
31 UH2	3/2							
" UHC2	"							



Capacity Ratio

The rated number of cycles may be determined when rated according to this chart. This data is subject to change by mixed load, capacitance load, or temperature rise at contact point, switching speed.

Load	Resistive Load (PF ≈ 0.9)		Inductive Load (PF ≈ 0.4)		Motor Load, Solenoid Load, Lamp Load (PF ≈ 0.25, Rush Current X 6)			
	Normally-Closed		Normally-Closed		Normally-Closed		Normally-Open	
Voltage	Current	% (1)	Current	% (2)	Current	% (2)	Current	% (2)
	(Example)		(Example)		(Example)		(Example)	
AC 125V	15 A	100	9 A	60	4.5A	30	2.2A	15
AC 250V	10 A	70	6 A	40	3 A	20	1.5A	10
DC 30V	1.5A	10	0.2 A	1.3	-	-	-	-
DC 115V	1 A	7	0.15A	1	-	-	-	-

Note: (1) - reduced to
(2) - reduced to present of rated load current.

Contact Material to Cycle Ratio

This chart represents the relation of contact material to the number of cycles based on resistive load, with PF=0.9 at 125 volts of AC.
M=1,000

Material	Movable Contact	Stationary Contact	Minimum Current	100M cy	10M cy	1M cy	100 cy	10 cy
PGS	0.25ϕ (Crossbar)	0.25ϕ	10 mA	1A	2A	3A	4A	5A
Ag	2ϕX0.5	0.3t clad	50 mA	2A	4A	6A	8A	10A
				3A	6A	9A	12A	15A
				4A	8A	12A	16A	20A
				5A	10A	15A	20A	25A
Ag-Ni	3ϕX0.5	0.3t clad	100 mA	6A	12A	18A	24A	30A
(Ag-Cdo)	3ϕX0.5	0.3t clad	200 mA	8A	16A	24A	32A	40A
Ag-Ni	3ϕX0.5	3ϕX0.5	100 mA	10A	20A	30A	40A	50A
(Ag-Cdo)	3ϕX0.5	3ϕX0.5	200 mA	12A	24A	36A	48A	60A
Ag-Ni	3.5X0.5	3.5X0.5	100 mA	15A	30A	45A	60A	75A



Features of 8X5 Series Thermostats

- A) High Reliability The 8X5 Series Thermostats, produced by Uchiya Thermostat Co., have numbered more than seventy million pieces since this series was introduced in 1971. Its reliability is recognized worldwide in a broad range of the applications.
- B) Flexibility Small-sized, lightweight and inexpensive. Large electrical rating and guaranteed long life.
- C) Compliance with Domestic and Overseas Standards The 8X5 Series Thermostat complies with the Standards of Japan (Electrical Appliances ∇), the United States (UL), Canada (CSA), West Germany (VDE) and others.
- D) Good Load Characteristics The bimetal is by-passed to the electrical circuit, preventing bimetallic self-heating and reducing variations in the operating temperature.
- E) Mechanism without Chattering The bimetal is snap-actioned without being fixed. No chattering and no deterioration with age.
- F) Large Electrical Rating The bimetal does not touch the contact arm until it is snapped. The contact pressure remains constant until the bimetal is snapped. Quick opening and closing of the contact provides larger rating capacity and guarantees long life.
- G) Good Heat Response The bimetal is 8 X 5 X 0.1 mm in size. The mass of the bimetal is so small that good heat response characteristics can be obtained.
- H) Construction Suitable for Mass Production Since the bimetals are assembled at the final manufacturing step, the quality control and the process control are easily performed.
- I) Easy Mounting Each terminal can be bent downwards up to 2 mm without influencing operating features.
- J) Perfect Packaging Each thermostat is packaged separately. This packaging protects against mishandling.
- K) Shipment Inspection Standards At the time of shipment, Uchiya Thermostats are subject to sampling inspection in accordance with JIS Z9015 or MIL 105D.
- L) Temperature Calibration Uchiya Thermostats are to be calibrated, at the time of the shipment inspection, for a temperature rise/or fall air blow in 1°C/minute at no load. Slight aberrations are unavoidable if static air or liquid or temperature rise/or fall speed or a difference of the load is more than 1°C/minute.

UCHIYA THERMOSTAT CO.

8X5A Series Snap-Action Overheat Protectors

Common Features

Fixed Operating Temperature, Normally-Closed Contacts,
Automatic Reset, With Resin Case, Dust Proof.

Typical Application: Fluorescent-Lamp Ballast, Miniature Transformer,
Miniature Relay, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 150°C.
Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 5 to 35 deg. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.(Max.180°C)
Overshooting Limit: 220°C for 1 minute.

Minimum Current: 50mA, Maximum Current 5A/10cycles.

Recognized Electrical Ratings.

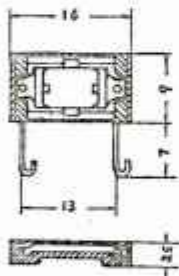
Type	MITI JAPAN	UL 873 File #E50124	UL547 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File#8921-451-1002	
	Resistive	Resistive Load	Res'tive	Res'tive	Res'tive(Ind'tive)	
	125V/250V	125/250V	125/250V	125/250V	250Vac 250Vac	
	5000cy	Reg'ting 6000cy	Limiting 100000cy	Motor 100000cy	Motor Class I 10000cy	Class II 100000cy
UP	2A/1A					
UPA	1.1A/0.7A	1.1A/0.7A				
UPB	1.1A/0.7A	1.1A/0.7A				

Dimensions, Approximate:

Type UP (Diallyl Phthalate Resin Case)



1/1

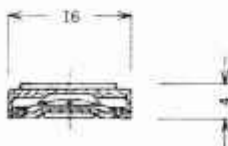


Width 6.0mm
Weight 1.0grm

Type UPA (Diallyl Phthalate Resin Case)



1/1

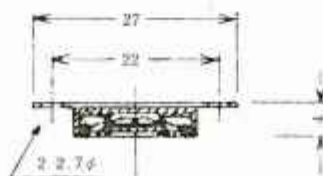


Width 6.6mm
Weight 1.5grm

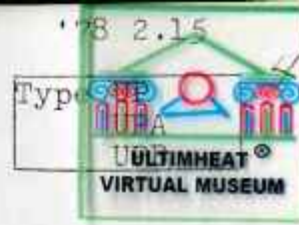
Type UPB (Diallyl Phthalate Resin Case, With Fixtures)



1/1



Width 6.6mm
Weight 1.7grm





Common Features

Fixed Operating Temperature, Normally-Closed Contacts, Automatic Reset, With Insulated Resin(Nylon 66) Case, Filled With Epoxy Resin Perfect Sealing.

Typical Application: Fluorescent-Lamp Ballast, Miniature Transformer, Miniature Relay, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 150°C.

Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 5 to 35 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.(Max.150°C)
Overshooting Limit: 180°C for 1 minute.

Minimum Current: 50mA, Maximum Current: 5A/10cycles.

Recognized Electrical Ratings.

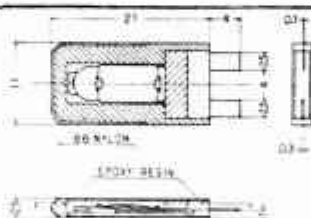
Type	MITI JAPAN	UL 873 File #E50124	UL547 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File#8921-451-1002	
	Resistive Load	Resistive Load	Resis've	Resis've	Resis've (Induc've)	
	125V/250V	125/250V	125/250V	125/250V	250Vac 250Vac	
	5000cy	Reg'ting 6000cy	Limiting 100000cy	Motor 100000cy	Class I 10000cy	Class II 100000cy
UP3	2A/1A				1A(0.7A)	
UP31	2A/1A				1A(0.7A)	
UP32	2A/1A				1A(0.7A)	
UP33	2A/1A				1A(0.7A)	

Dimensions, Approximate:

Type UP3 (With Two Terminals)



1/1

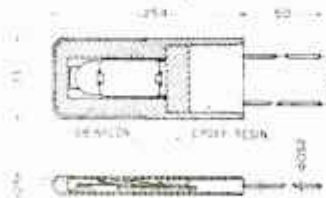


Weight 0.9grm

Type UP31 (With Bared Copper Lead Wires)



1/1

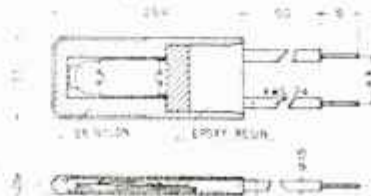


Weight 1.3grm

Type UP32 (With Insulated Lead Wires)



1/1



Weight 1.5grm

Type UP33 (With Insulated Single Lead Wires)

Same as Type UP32.



Common Features

Fixed Operating Temperature, Normally-Closed Contacts, Automatic Reset, With Insulated Resin(Nylon 66) Case, Filled With Epoxy Resin Perfect Sealing.

Typical Application: Flourescent-Lamp Ballast, Miniature Transformer, Miniature Relay, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 150°C.
Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 5 to 35 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.(Max.150°C)
Overshooting Limit: 180°C for 1 minute.

Minimum Current: 50mA, Maximum Current: 5A/10cycles.

Recognized Electrical Ratings.

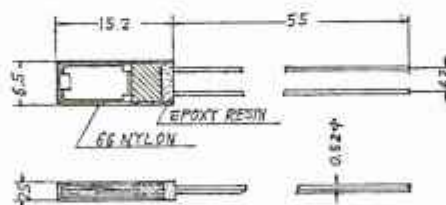
Type	MITI	UL 873	UL547	CSA22.4 No.24	VDE 0631	
	JAPAN	File #E50124	File #E52703	File #LR35080	File#8921-451-1002	
	Resistive	Resistive Load	Resis've	Resis've	Resis've(Induc've)	
	125V/250V	125/250V	125/250V	125/250V	250Vac 250Vac	
	5000cy	Reg'ting	Limiting	Motor Controls	Motor	Class I Class II
		6000cy	100000cy	100000cy	10000cy	100000cy
UP41	2A/1A					
UP42	2A/1A					
UP43	2A/1A					

Dimensions, Approximate:

Type UP41 (With Bared Copper Lead Wires)



1/1

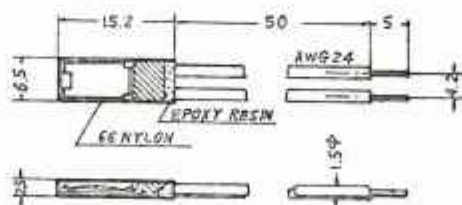


Weight 0.5grm

Type UP42 (With Insulated Stranded Lead Wires)



1/1



Weight 0.7grm

Type UP43 (With Insulated Single Lead Wires)

Same as Type UP42.

UCHIYA THERMOSTAT CO

8X5 Series Miniature Snap-Action Thermostats

'78 2.15



Common Features

Fixed Operating Temperature, Normally-Closed Contacts,
Automatic Reset, With Insulated Resin (Nylon 66) Case,
Filled With Epoxy Resin Perfect Sealing.

Typical Application: Fluorescent-Lamp Ballast, Miniature Transformer,
Miniature Relay, etc.

Standard Operating Temp. (OFF): Can be set 70°C to 150°C.
Tolerance (Plus, Minus): 5°C or 5% Minimum.

Standard Resetting Temp. (ON): 5 to 35 deg. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time. (Max. 150°C)
Overshooting Limit: 180°C for 1 minute.

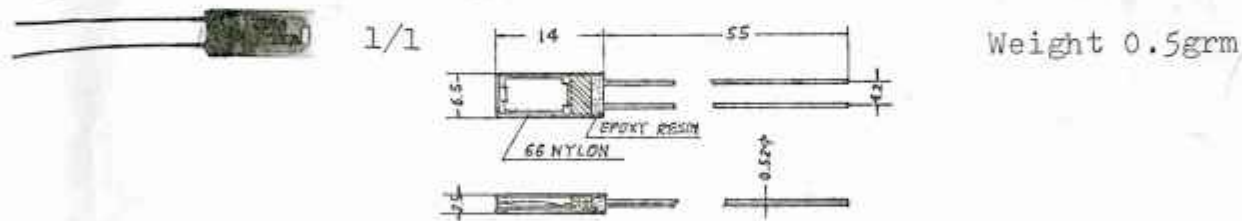
Minimum Current: 50mA, Maximum Current: 25A/10cycles.

Recognized Electrical Ratings.

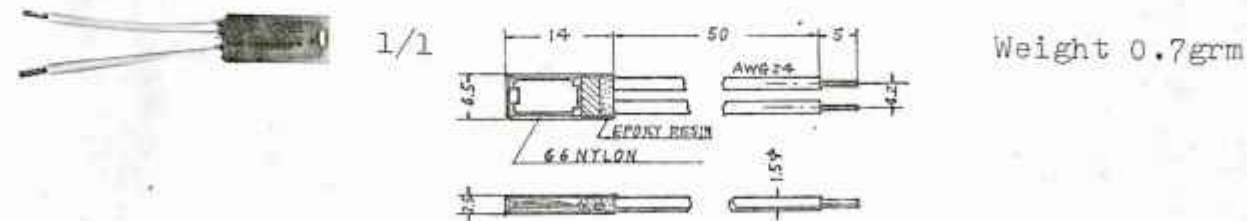
Type	MITI JAPAN	UL 873 File #E50124	UL547 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File #8921-451-1002
	Resistive 125V/250V	Resistive Load 125/250V	Resis've 125/250V	Resis've 125/250V	Resis've (Induc've) 250Vac
	5000cy	Reg'ting 6000cy	Limiting 100000cy	Motor 100000cy	Class I 10000cy
UP51	2A/1A				Class II 100000cy
UP52	2A/1A				
UP53	2A/1A				

Dimensions, Approximate:

Type UP51 (With Bared Copper Lead Wires)



Type UP52 (With Insulated Stranded Lead Wires)



Type UP53 (With Insulated Single Lead Wires)

Same as Type UP52.

UCHIYA THERMOSTAT CO

8X5 Series Miniature Snap-Action Thermostat

178 2.15



Common Features

Fixed Operating Temperature, Normally-Closed Contacts, Automatic Reset, With PBT (Poly-Butylene Terephthalate) Resin Case, Dust Proof or Open Construction.

Typical Application: Controls for Blanket, Heating Pad, Overheat Protector for Motor, Transformer, Solenoid, etc.

Standard Operating Temp. (OFF): Can be set 70°C to 150°C.
Tolerance (Plus, Minus): 5°C or 5% Minimum.

Standard Resetting Temp. (ON): 5 to 35 deg. Differential for Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time. (Max. 180°C)
Overshooting Limit: 200°C for 1 minute.

Minimum Current: 50mA, Maximum Current: 10A/10cycles.

Recognized Electrical Ratings.

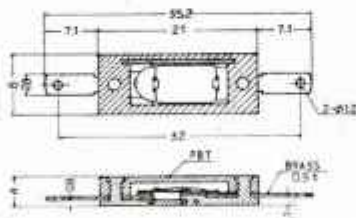
Type	MITI	UL 873	UL547	CSA22.4 No.24	VDE 0631
	JAPAN	File #E50124	File #E52703	File #LR35080	File #8921-451-1002
	Resistive	Resistive Load	Resis've	Resis've	Resis've (Induc'VE)
	125V/250V	125/250V	125/250V	125/250V	250Vac
	5000cy	Reg'ting	Limiting	Motor	Class I
		6000cy	100000cy	100000cy	Class II
UP2	3A/2A				2A(1A)
UP21	3A/2A				2A(1A)

Dimensions, Approximate:

Type UP2 (Dust Proof)



1/1



Weight 1.1grm

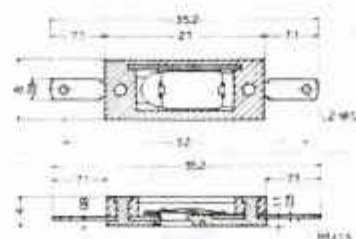
TOSHIBA
PBT

(Poly-Butylene Terephthalate)

Type UP21 (Open Construction)



1/1



Weight 1.0grm

8X5 Series Snap-Action Sealed Type Thermostat



Common Features

Fixed Operating Temperature, Normally-Closed Contacts,
Automatic Reset, With Brass Case, Filled with Epoxy Resin,
Silver Contacts, Ceramic Mold, Case Ground.

Typical Application: Controls for Heating Pad, Blanket etc.
Overheat Protector for Motor, Transformer, Solenoid etc.

Standard Operating Temp.(OFF): Can be set 50°C to 150°C.
Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 5 to 35 deg. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.(Max.180°C)
Overshooting Limit: 200°C for 1 minute.

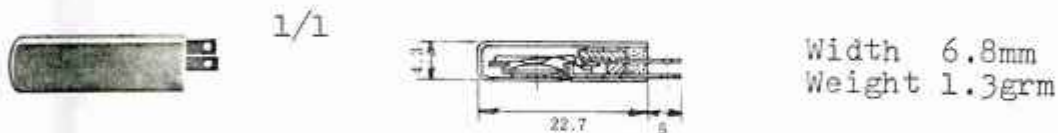
Minimum Current: 50mA, Maximum Current: 25A/10cycles.?

Recognized Electrical Ratings.

Type	MITI	UL873	UL547	CSA22.4 No.24	VDE 0631
	JAPAN	File #E50124	File #E52703	File #LR35080	File #8921-451-1002
	Resistive	Resistive Load	Resis've	Resis've	Resis've(Induc've)
	125V/250V	125/250V	125/250V	125/250V	250Vac
	5000cy	Reg'ting	Limiting	Motor	Class I
		6000cy	10000cy	10000cy	10000cy
JP8X5Y	4A/2A		4A/	1/2HP	
JP8X5A	5A/3A	5A/			
JPA	5A/3A	5A/			

Dimensions, Approximate:

Type JP8X5Y (Inversed Bimetal Type)



Type JP8X5A



Type JPA (With Lead Wires)



UCHIYA THERMOSTAT CO

118 2.15

8X5 Series Snap-Action Thermostat for Control.



Common Features

Fixed Operating Temperature, Normally-Closed Contacts, Automatic Reset, Silver Contact, With Brass Case, Ceramic Mold, Dust Proof by Silicone Rubber Seal, Case Ground.

Typical Application: Controls for Blanket, Heating Pad, etc.

Temperature can be set equivalent to the creep-action bimetal type by designing small temperature differential.

Standard Operating Temp.(OFF): Can be set 50°C to 150°C.

Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 5 to 35 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.(Max.180°C)
Overshooting Limit: 200°C for 1 minute.

Minimum Current: 50mA, Maximum Current: 25A/10cycles.

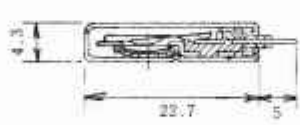
Recognized Electrical Ratings.

Type	MITI JAPAN	UL873 File #E50124	UL547 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File #8921-451-1002
	Resistive	Resistive Load	Resis've	Resis've	Resis've(Induc've)
	125V/250V	125/250V	125/250V	125/250V	250Vac 250Vac
	5000cy	Reg'ting 6000cy	Limiting 10000cy	Motor 10000cy	Controls 10000cy
UC4	5A/3A		2A/	2A	Class I 10000cy
UC42	5A/3A		2A/		Class II 10000cy

Max.160°C

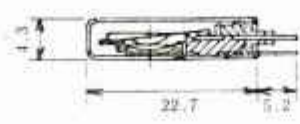
Dimensions, Approximate:

Type UC4 (One-Terminal)



Width 6.8mm
Weight 1.3grm

Type UC42 (Two-Terminals)



Width 6.8mm
Weight 1.3grm

* For control use, temperature can be set equivalent to the creep-action bimetal type by designing small temperature differential.

UCHIYA THERMOSTAT CO.

8X5 Series Snap-Action Sealed Type Thermostat



Common Features

Fixed Operating Temperature, Normally-Closed Contact, Automatic Reset, Filled with Epoxy Resin, Ceramic Mold, Silver Contacts, With Brass or PBT Resin Case.

Typical Application: Overheat Protector for Motor, Transformer, Solenoid, and Controls for Heating Pad, Blanket, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 150°C
Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 10 to 40 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous (Max.180°C)
Overshooting Limit: 200°C for 1 minute.

Minimum Current: 100mA, Maximum Current: 30A/10cycles.

0700L 12 AMP
9700H 18 "

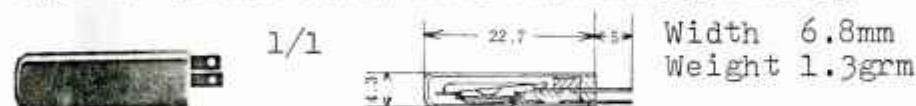
Recognized Electrical Ratings.

Type	MITI JAPAN	UL873 File #E50124	UL547 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File#8921-451-1002
	Resistive	Resistive Load	Res'tive	Res'tive	Res'tive (Ind'tive)
	125V/250V	125/250V	125/250V	125/250V	250Vac 250Vac
	5000cy	Reg'ting 6000cy	Limiting 10000cy	Motor 10000cy	Motor 10000cy
	Class I	Class II	Class I	Class II	Class I
UC	12A/8A	12A/8A			
UC2	12A/8A		6A/	1/2HP 6A/	OK
UI	12A/8A				
UI2	12A/8A		6A/	6A/	OK

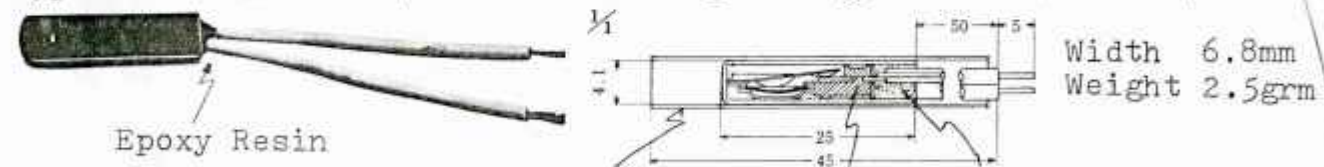
Max.145°C

Dimensions, Approximate:

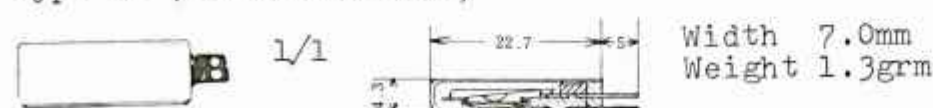
Type UC (Brass Case, With Insulating Tubing)



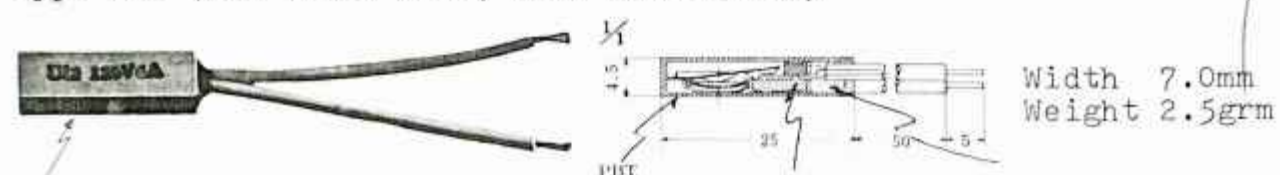
Type UC2 (Brass Case, With Insulating Tubing, With Lead Wires)



Type UI (PBT Resin Case)



Type UI2 (PBT Resin Case, With Lead Wires)



* TOSHIBA PBT
(Poly-Butylene Terephthalate)



Common Features

Fixed Operating Temperature, Automatic Reset,
With Brass Case, Normally-Closed or Normally-Open Contacts,
Filled with Epoxy Resin, Ceramic Mold, Silver Contacts.

Typical Application: Overheat Protector for Motor, Transformer,
Solenoid, and Controls for Heating Pad, Blanket, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 150°C.
Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 10 to 40 deg. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous (Max.180°C)
Overshooting Limit: 200°C for 1 minute.

Minimum Current: 100mA, Maximum Current: 75A/10cycles.

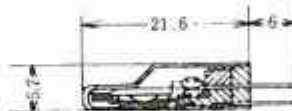
Recognized Electrical Ratings.

Type	MITI	UL873	UL547	CSA22.4 No.24	VDE 0631
	JAPAN	File #E50124	File #E52703	File #LR35080	File#8921-451-1002
	Resistive	Resistive Load	Res'tive	Res'tive	Res'tive(Ind'tive)
	125V/250V	125/250V	125/250V	125/250V	250Vac
	5000cy	Reg'ting	Motor	Controls	Motor
	6000cy	Limiting	100000cy	100000cy	100000cy
US	16A/10A		1/2HP		
US2	16A/10A		1/2HP		
US3	16A/10A				
US4	16A/10A				

Dimensions, Approximate:

Type US (Normally-Closed)

1/1



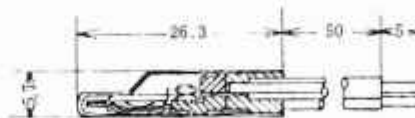
Width 7.0mm
Weight 2.6grm

Type US2 (Normally-Closed, With Lead Wires)

1/1



Epoxy Resin



Width 7.0mm
Weight 3.6grm

Type US3 (Normally-Open)

1/1



Width 7.0mm
Weight 2.6grm

Type US4 (Normally-Open, With Lead Wires)

1/1



Width 7.0mm
Weight 3.6grm

* With Optional Insulating Tubings.

UCHIYA THERMOSTAT CO.

8X5 Series Snap-Action Thermostat
for Stick-Heater Controls

178 2.15



Common Features

Fixed Operating Temperature, Normally-Closed Contacts,
Open-Type Construction, Frame Ground, Ceramic Mold,
Without Case, Optional Fuse Holder, Automatic Reset.

Typical Application:

Hair Curling Iron, Soldering Iron, for Stick Heater Controls, etc.

Standard Operating Temp.(OFF): Can be set 50°C to 170°C.
Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 5 to 35 deg. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit 280°C for 1 minute.

Minimum Current: 50mA, Maximum Current: 25A/10cycles.(Except UC5-50)

Recognized Electrical Ratings.

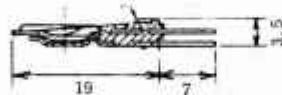
Type	MITI	UL873	UL547	CSA22.4 No.24	VDE 0631
	JAPAN	File #E50124	File #E52703	File #LR35080	File #8921-451-1002
	Resistive	Resistive Load	Resis've	Resis've	Resis've(Induc've)
	125V/250V	125/250V	125/250V	125/250V	250Vac
	5000cy	Reg'ting 6000cy	Limiting 10000cy	Motor 10000cy	Class I 10000cy
UC5	5A/3A		2A/		Class II 10000cy
UC6	5A/3A				
UC5-50	1A/0.7A				

Dimensions Approximate:

Type UC5 (Silver contact point) for UL
Type UC6 (Silver contact point) for VDE



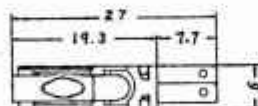
1/1



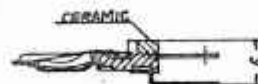
Width 6.0mm
Weight 0.8grm



1/1



Ceramic



Type UC5-50 (PGS contact points)
(Minimum Current: 10mA, Maximum Current: 3A/10cycles)

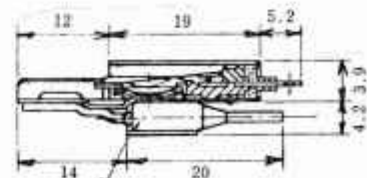
Fuse Holder

1/1



Thermo Fuse

Ceramic Heater



* Model UC5, UC6 is provided with a thermal fuse holder in addition to the 8X5 series feature. Easy-to-use by inserting in to a stick shaped ceramic heater such as of a Hair Curling Iron.

UCHIYA THERMOSTAT CO

8X5 Series Snap-Action Dual Thermostat
for Stick-Heater Controls

Type



Common Features

Two-Stage Fixed Temperature Setting, Normally-Closed Contacts,
Open-Type Construction, Frame Ground, Ceramic Mold
Without Case, Optional Fuse Holder, Automatic Reset.

Typical Application:

Primary thermostat for control use and secondary thermostat for protector use are provided.

Hair Curling Iron, Soldering Iron, for Stick Heater Controls, etc.

Standard Operating Temp.(OFF): Can be set 50°C to 170°C, independently.
Tolerance(Plus,Minus): 5°C or 5% Minimum, independently.

Standard Resetting Temp.(ON): 5 to 35 deg. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit 280°C for 1 minute.

Minimum Current: 50mA, Maximum Current: 25A/10cycles.

Recognized Electrical Ratings.

Type	MITI JAPAN	UL873 File #E50124	UL547 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File #8921-451-1002
	Resistive	Resistive Load	Resis'tive	Resis've	Resis've(Induc've)
	125V/250V	125/250V	125/250V	125/250V	250Vac 250Vac
	5000cy	Reg'ting 6000cy	Limiting 10000cy	Motor 10000cy	Motor 10000cy
UC55	5A/3A	2A/			Class I 10000cy
UC55L	5A/3A	2A/			Class II 10000cy
UC66	5A/3A				

Dimensions, Approximate:

Type UC55

UL Version.

UC55L:(With Tephlon Lead Wire)UL Version.

Optional Holder

Width 6.0mm

Weight 2.0grm

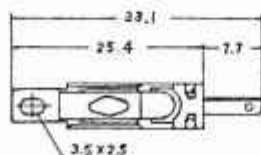


Thermo Fuse



Type UC66(for VDE-Version)

1/1



Width 6.0mm

Weight 2.0grm



* These thermostats have two bimetals and two sets of contacts mechanism independently, and the temperature can be set at two stages.

These protectors are of double safety, therefore, very high reliability can be obtained.

* Two thermostats can be used as mechanism in parallel.

UCHIYA THERMOSTAT CO.

8X5 Series Snap-Action Overheat Protectors

178 2.15



Common Features

Fixed Operating Temperature, Normally-Closed Contacts,
Open-Type Construction, Without Case, Frame Ground, Ceramic Mold.

Typical Application:

Hair Dryer, Hair Dresser, Fan Heater, Room Heater.

Standard Operating Temp.(OFF): Can be set 50°C to 170°C.

Tolerance(Plus,Minus): 5°C or 5% Minimum.

(Spring pressure of contact arm is so small that
lower temperature can be set compared to UD, UD2, UD3)

Standard Resetting Temp.(ON): 5 to 35 deg. Differential from Each
Operating Temperature.

Heat proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit 280°C for 1 minute.

Minimum Current: 50mA, Maximum Current: 25A/10cycles.

Recognized Electrical Ratings.

Type	MITI	UL873	UL547	CSA22.4 No.24	VDE 0631
	JAPAN	File #E50124	File #E52703	File #LR35080	File #8921-451-1002
	Resistive	Resistive Load	Resis've	Resis've	Resis've(Induc've)
	125V/250V	125/250V	125/250V	250Vac	250Vac
	5000cy	Reg'ting	Limiting	Motor	Controls
	6000cy	10000cy	10000cy	10000cy	10000cy
JP8X5B	5A/3A	5A/			
JPB	5A/3A				

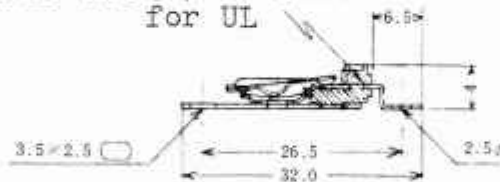
Dimensions, Approximate:

Type JP8X5B (Automatic Reset) Ceramic
for UL



1/1

Ceramic Mold



Width 6.0mm

Weight 1.0grm

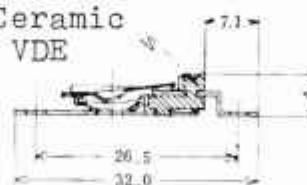
Type JPB (Automatic Reset)

Ceramic
for VDE



1/1

Ceramic Mold



Width 6.0mm

Weight 1.0grm

UCHIYA THERMOSTAT CO.

8X5 Series Snap-Action Overheat Protectors

'78 2.15



Common Features

Fixed Operating Temperature, Normally-Closed Contacts,
Open-Type Construction, Without Case, Frame Ground, Ceramic Mold.

Typical Application:

Hair Dryer, Hair Dresser, Fan Heater, Room Heater, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 170°C.

Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 10 to 40 deg. Differential from Each
Operating Temperature.

Heat proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit 300°C for 1 minute.

Minimum Current: 100mA, Maximum Current: 30A/10cycles.

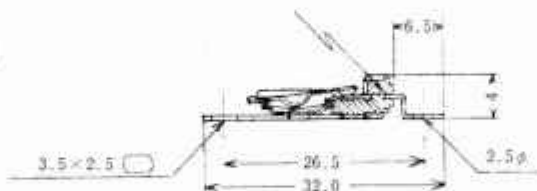
Recognized Electrical Ratings.

Type	MITI JAPAN	UL873 File #E50124	UL457 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File #8921-451-1002
	Resistive 125V/250V	Resistive Load 125/250V	Resis've 125/250V	Resis've 125/250V	Resis've(Induc've) 250Vac
	5000cy	Reg'ting 6000cy	Limiting 100000cy	Motor Controls 100000cy	Class I 10000cy
UD	12A/8A	12A/8A			Class II 100000cy
UD2	"		6A/		8A(5A)
UDR	Manual 12A/8A		Manual 12A/8A	Manual 12A/8A	Manual 8A(5A)

Max.160°C

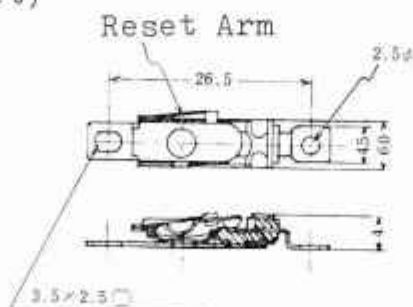
Dimensions, Approximate:

Type UD and UD2 (Automatic Reset)



Width 6.0mm
Weight 1.0grm

Type UDR (Manual Reset)



Width 8.0mm
Weight 1.2grm

(No Load 5000 cycles, Rated Load 1000 cycles, 150% Overload 50 cycles)
as Thermal Cut-Off for Backup Use. No Temperature Fuse required.

UCHIYA THERMOSTAT CO.

8X5 Series Snap-Action Overheat Protectors

'78 2.15



Common Features

Fixed Operating Temperature, Normally-Closed Contacts, Automatic Reset, Open-Type Construction, Without Case, Ceramic Mold.

Typical Application:

Hair Dryer, Hair Dresser, Fan Heater, Room Heater, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 150°C.

Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 5 to 35 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.

Overshooting Limit: 280°C for 1 minute.

Minimum Current: 50mA, Maximum Current: 25A/10cycles.

Recognized Electrical Ratings,

Type	MITI	UL873	UL547	CSA22.4 No.24	VDE 0631
	JAPAN	File #E50124	File #E52703	File #LR35080	File#8921-451-1002
	Resistive	Resistive Load	Res'tive	Res'tive	Res'tive(Ind'tive)
	125V/250V	125/250V	125/250V	125/250V	250Vac 250Vac
	5000cy	Reg'ting Limiting	Motor Controls	Motor	Class I Class II
		6000cy 10000cy	10000cy	10000cy	10000cy 10000cy
UB	12A/8A				8A(5A) 4A(2.5A)
UB2	12A/8A				8A(5A) 4A(2.5A)

Dimensions, Approximate:

Type UB (For Printed Circuit Board)



1/1



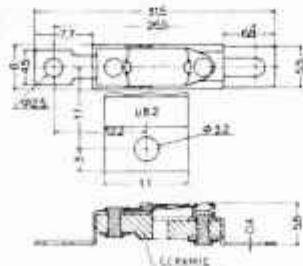
Width 5.5mm
Weight 1.4grm

Ceramic Mold

Type UB2 (With Ceramic Mounting Angle)



1/1



Weight 2.7grm

Ceramic Mold

UCHIYA THERMOSTAT CO

8X5 Series Snap-Action Dual Overheat Protectors



Common Features

Two-Stage Fixed Temperature Setting, Frame Ground, Normally-Closed Contacts, Open-Type Construction, Without Case, Ceramic Mold.

Typical Application:

Control and Overheat Protector for Hair Dryer, Fan Heater, Oven, Room Heater etc.

Standard Operating Temp.(OFF): Can be set 70°C to 170°C, independently.
Tolerance(Plus,Minus): 5°C or 5%Minimum, independently.

Standard Resetting Temp.(ON): 10 to 40 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit 300°C for 1 minute.

Minimum Current: 100mA, Maximum Current: 60A/10cycles.

Recognized Electrical Ratings

Type	MITI JAPAN	UL873 File #E50124	UL547 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File #8921-451-1002
	Resistive	Resistive Load	Resis've	Resis've(induc've)	
	125V/250V	125/250V	125/250V	250Vac	250Vac
	5000cy	Reg'ting 6000cy	Limiting 10000cy	Motor 10000cy	class I 10000cy
DD3	12A/8A				class II 10000cy
DR3	manual 12A/8A		manual 12A/8A	manual 12A/8A	8A(5A) 4A(2.5A) manual 8A(5A)
D33	12A/8A				
D33T	12A/8A				

Max.150/215°C

Max.150/215°C

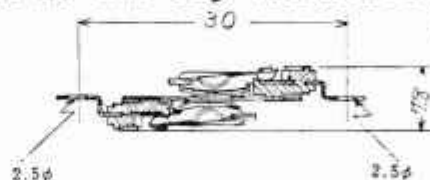
Dimensions, Approximate:

Type DD3 (Automatic Reset-Primary and Secondary)

Equivalent function as two UD3 thermostats assembled in series.



1/1



are

Width 6.0mm

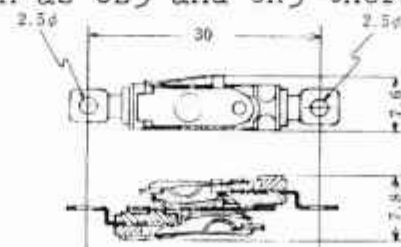
Weight 2.0grm

Type DR3 (Primary Automatic Reset, Secondary Manual Reset)

Equivalent function as UD3 and UR3 thermostats are assembled in series.



1/1



Width 8.0mm

Weight 2.2grm

* These thermostats have two bimetals and two sets of contact mechanism independently, and the temperature can be set at two stages. These protectors are of double safety, therefore, very high reliability can be obtained.

* Effective function as Thermal Cutoff for backup use in accordance with UL 859 Electric Personal Grooming Appliances. No temperature fuse required.

* Two thermostats can be used as a mechanism in parallel.(Type D33.D33T)

UCHIYA THERMOSTAT CO.

8X5 Series Snap-Action Overheat Protectors

'78 2.15



Common Features

Fixed Operating Temperature, Normally-Closed Contacts,
Open-Type Construction, With or Without Case, Frame Ground,
Ceramic Mold.

Typical Application:

Hair Dryer, Fan Heater, Heating Pad, Heating Blanket, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 170°C
Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 10 to 40 deg. Differential from Each
Operating Temperature.

Heat proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit 300°C for 1 minute. (except UD31)

Minimum Current: 100mA, Maximum Current: 60A/10cycles.

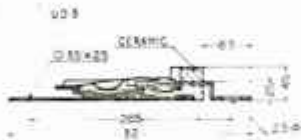
Recognized Electrical Ratings.

Type	MITI JAPAN	UL873 File #E50124	UL547 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File #8921-451-1002
	Resistive	Resistive Load	Resis've	Resis've	Resis've (Induc've)
	125V/250V	125/250V	125/250V	125/250V	250Vac
	5000cy	Reg'ting 6000cy	Limiting 10000cy	Motor 10000cy	Motor 10000cy
UD3	12A/8A		12A/8A	12A/8A	class I 16A(10A)
UD31	12A/8A				class II 10000cy 16A(10A)
UR3	Manual 12A/8A				manual 16A(10A)

Max.160°C

Dimensions, Approximate:

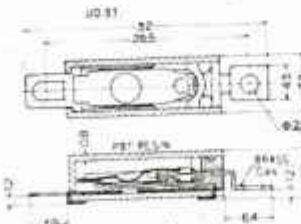
Type UD3 (Automatic Reset)



Ceramic Mold

Width 6.0mm
Weight 1.0grm

Type UD31 (Automatic Reset, With Insulation Case)

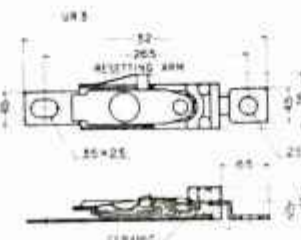


Resin.
TOSHIBA PBT Case.

Width 7.8mm
Weight 2.0grm

(Poly-Butylene Terephthalate)

Type UR3 (Manual Reset)



Ceramic Mold
Reset Arm

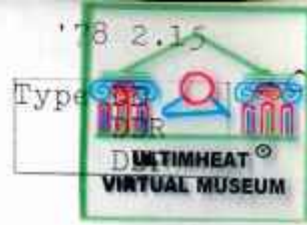
Width 8.0mm
Weight 1.2grm

Terminal Variation



UCHIYA THERMOSTAT CO

8X5 Series Snap-Action Dual Overheat Protectors



Common Features

Two-Stage Fixed Temperature Setting, Frame Ground, Normally-Closed Contacts, Open-Type Construction, Without Case, Ceramic Mold.

Typical Application:

Primary thermostat for control use and secondary thermostat for protector use are provided.
Fan Heater, Electric Oven, Room Heater etc.

Standard Operating Temp.(OFF): Can be set 70°C to 170°C, independently.
Tolerance(Plus,Minus): 5°C or 5% Minimum, independently.

Standard Resetting Temp.(ON): 10 to 40 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit 300°C for 1 minute.

Minimum Current: 100mA, Maximum Current: 60A/10cycles.

Recognized Electrical Ratings.

Type	MITI JAPAN	UL873 File #E50124	UL547 File #LR35080	CSA22.4 File #8921-451-1002	No.24VDE File #8921-451-1002
	Resistive	Resistive Load	E52703	Resis've	Resis've(Induc've)
	125V/250V	125/250V	125/250V	125/250V	250Vac 250Vac
	5000cy	Reg'ting 6000cy	Limiting 10000cy	Motor 10000cy	Controls class I class II 10000cy 10000cy
DD	12A/8A		12A/8A		16A(10A)
DDR	manual 12A/8A		manual 12A/8A	12A/8A	manual 16A(10A)
DDP	12A/8A				

Max.220°C

Dimentions, Approximate:

Type DD (Automatic Reset-Primary and Secondary)



1/1



Width 6.4mm

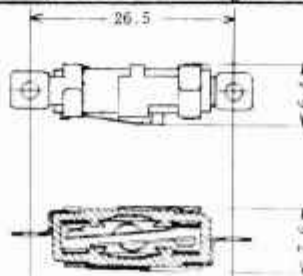
Weight 2.5grm

Ceramic Mold

Type DDR (Primary Automatic Reset, Secondary Manual Reset)



1/1



Width 8.4mm

Weight 2.7grm

Ceramic Mold
Reset Arm

- * These thermostats have two bimetals and two sets of contact mechanism independently, and the temperature can be set at two stages. These protectors are of double safety, therefore, very high reliability can be obtained.
- * Effective function as Thermal Cutoff for backup use in accordance with UL859 Electric Personal Grooming Appliances. No temperature fuse required.
- * Two thermostats can be used as mechnism in parallel.(Type DDP)

UCHIYA THERMOSTAT CO

8X5 Series Snap-Action OFF Type Thermostats

'78 2.15



Common Features

Fixed Operating Temperature, Normally-Open Contacts, Open-Type Construction, Without Case, Frame Ground, Automatic Reset, Ceramic Mold.

Typical Application: Alarm Buzzer, Alarm Lamp, Cooling Fan, etc.

Standard Operating Temp.(ON): Can be set 70°C to 170°C at Z0, or Z02
 Can be set 40°C to 120°C at D0, or D02
 Tolerance (Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(OFF): 10 to 40 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.
 Overshooting Limit 250°C for 1 minute.

Minimum Current: 100mA, Maximum Current 30A/10cycles, at Z0, or D0
 Minimum Current: 10mA, Maximum Current 3A/10cycles, at Z02, or D02

Contacts Material: Silver Alloy: Z0, or D0
 Contacts Material: PGS Alloy: X02, or D02

Electrical Ratings: 4A/125Vac, 2A/250Vac, 1A/30Vdc	at Z0 or D0
Electrical Ratings: 1.5A/125Vac, 0.7A/250Vac, 0.4A/30Vdc	at Z02 or D02

Dimensions, Approximate:

Type Z0 and Z02



Width 6.0mm
 Weight 1.2gram

Type D0 and D02



Width 6.0mm
 Weight 1.2gram

* Models Z02 and D02 are of the Cross-Bar Type at a precious metal (PGS) contact point. There is no variation of the contact resistance under such condition of long-period contact OFF.

* The Contact Arm of Models D0 and D02 are pushed by the Bimetal. Lower temperature can be set compared to the free mounting bimetal.

UCHIYA THERMOSTAT CO.

8X5 Series Snap-Action OFF Type Thermostat

78 2.15



Common Features

Fixed Operating Temperature, Normally-Open Contacts,
Metal Case, Perfect Moisture-Proof and Water-Proof.
Filled with Epoxy-Resin, Frame Ground, Ceramic Mold.

Typical Application: Alarm Buzzer, Alarm Lamp, Cooling Fan, etc.

Standard Operating Temp.(ON): Can be set 70°C to 150°C at Y0, or Y02
Can be set 40°C to 120°C at C0, or C02
Tolerance (Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(OFF): 10 to 40 deg. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous. (Max.150°C)
Overshooting Limit: 200°C for 1 minute.

Minimum Current: 100mA, Maximum Current 30A/10cycles, at Y0 or C0
Minimum Current: 10mA, Maximum Current 3A/10cycles, at Y02 or C02

Contacts Material: Silver Alloy: Y0 or C0
Contacts Material: PGS Alloy: Y02 or C02

Electrical Ratings: 4A/125Vac, 2A/250Vac, 1A/30Vdc at Y0 or D0.
Electrical Ratings: 1.5A/125Vac, 0.7A/250Vac, 0.4A/30Vdc at Y02 or C02

Dimensions, Approximate.

Type Y0 or Y02

1/1



Width 6.8mm

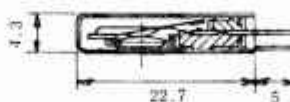
Weight 1.3grm

Ceramic Mold, Epoxy Resin Filled

Brass or Aluminum Case

Type C0 or C02

1/1



Width 6.8mm

Weight 1.3grm

Ceramic Mold, Epoxy Resin Filled

Brass or Aluminum Case

* Models Y0 and Y02 are the thermostat in which Z0 and Z02 types are sealed by Epoxy-Resin in metal case.

* Models Y02 and C02 are of the Cross-Bar type at a precious metal (PGS) contacts and have no trouble for non-operating for a long period.

UCHIYA THERMOSTAT CO.

8X5 Series Snap-Action OFF Type Thermostat



Common Features

Fixed Operating Temperature, Normally-Open Contacts,
Insulating Case, Perfect Water-Proof and Moisture-Proof,
Filled with Epoxy Resin, Ceramic Mold.

Typical Application: Alarm Buzzer, Alarm Lamp, Cooling Fan, etc.

Standard Operating Temp.(ON): Can be set 70°C to 150°C at IY0 or IY02.

Can be set 40°C to 120°C at IC0 or IC02.

Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(OFF): 10 to 40 deg. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous (Max.150°C)

Overshooting Limit: 200°C for 1 minute.

Minimum Current: 100mA, Maximum Current 30A/10cycles, at IY0 or IC0.

Minimum Current: 10mA, Maximum Current 3A/10cycles, at IY02 or IC02.

Contacts Material: Silver Alloy: IY0 or IC0

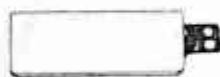
Contacts Material: PGS Alloy: IY02 or IC02

Electrical Ratings: 4A/125Vac, 2A/250Vac, 1A/30Vdc, at IY0 or IC0.

Electrical Ratings: 1.5A/125Vac, 0.7A/250Vac, 0.4A/30Vdc at IY02 or IC02.

Dimensions, Approximate:

Type IY0 or IY02 (PBT Resin Case)



1/1



Width 7.4mm

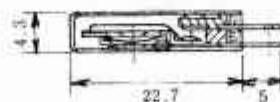
Weight 1.3grm

Ceramic Mold, Epoxy Resin Filled

Type IC0 or IC02 (PBT Resin Case)



1/1



Width 7.4mm

Weight 1.3grm

Ceramic Mold, Epoxy Resin Filled

* TOSHIBA PBT (Poly-Butylene Terephthalate)

* Models IY0 and IY02 are the thermostat in which Z0 and Z02 types are sealed by Epoxy-Resin in Insulating Case.

TOSHIBA PBT Resin: Poly-Butylene Terephthalate Resin

* Models IY02 and IC02 are of the Cross-Bar type at a precious metal (PGS) contacts and have no trouble for non-operating for a long period.

Miniture Snap-Action Overcurrent Protectors



Common Features

- 1) This mechanism has no Reactance Load inside, therefore, regardless of the Frequency and Wave Form, the Trip-Characteristics (Trip Current/Trip Time) is constant in DC or Commercial Frequency, provided that the RMS value is constant.
- 2) Voltage Withstand: Live Parts to Ground, 1500V for 1 minute.
- 3) Shock Proof: 1000 cycles/min. more than 2 hr. in 5mm wide.
- 4) Block System: Can be used by combination of more protectors.

Typical Application: Heat Sealer, Copy Machine, etc.
for Overcurrent Circuit Breaker.

Breaking Characteristic Ratings.

Rating Current			110%	175%	200%	300%	1000%	Voltage-Drop	
Type			Not Operated	Operated Within 2 minute	Operated Within 15 sec.	Operated Within 2 second	Operated Within 500msec.	Between Terminals	
JA1	JR1	YJ1	1A	1.1A	1.75A	2A	3A	10A	under 1V
2	"	"	2A	2.2A	3.5 A	4A	6A	20A	"
3	"	"	3A	3.3A	5.25A	6A	9A	30A	"
4	"	"	4A	4.4A	7.0 A	8A	12A	40A	"
5	"	"	5A	5.5A	8.75A	10A	15A	50A	"
6	"	"	6A	6.6A	10.5 A	12A	18A	60A	under 0.5V
7	"	"	7A	7.7A	12.25A	14A	21A	70A	"
8	"	"	8A	8.8A	14.0 A	16A	24A	80A	"
9	"	"	9A	9.9A	15.75A	18A	27A	90A	"
Endurance			5000cy		2000 cy	50 cycles	10 cycles		
			6 cy/min.			2 cy/min.			

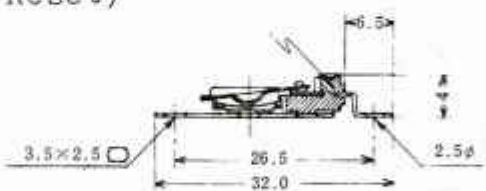
(At 25°C - 3°C Static Air)

Dimintions, Approximate.

Type JA1 to JA9 (Automatic Reset)



1/1

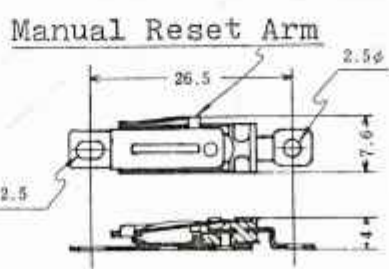


Width 6.0mm
Weight 1.0grm

Type JR1 to JR9 (Manual Reset)



1/1

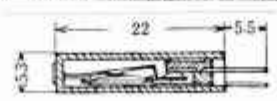


Width 8.0mm
Weight 1.2grm

Type YJ1 to YJ9 (Automatic Reset, Insulating Case)



1/1



Width 7.6mm
Weight 1.0grm

Epoxy Resin Sealed
TOSHIBA PBT Resin Case
(Poly-Butylene Terephthalate)

UCHIYA THERMOSTAT CO.

Over Current Protector

'78 2.15

Type



Construction

Passing Current Bimetal, Manual Reset, Trip Free, Dust Proof.

Typical Application:

Thermal Cutout Relay for protect against misconnection of Semiconductor Inverter for Refrigerator.
Input DC 12V, Output 40VA, 60VA.

Characteristics

Not Operated: DC12V/11A, at 25°C, 33 to 66 HZ, 4.4G.

Normal Breaking: DC12V/25A, Within 10sec, at 25°C.

Breaking at Abnormal State: DC12V/100A, Within 250ms. at 25°C.

Endurance

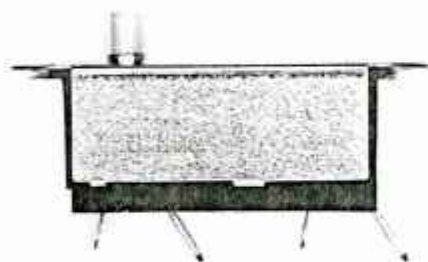
50 cycles, at Abnormality Breaking Test.

Reset

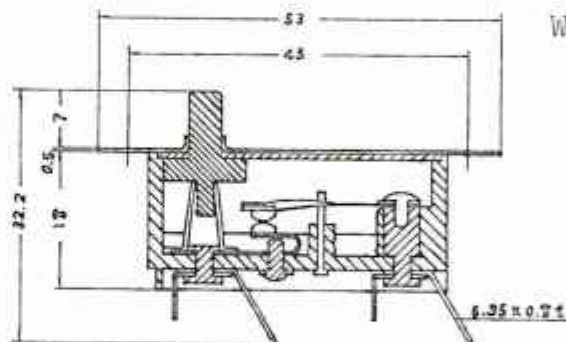
Within 3 minutes at manual.

Dimensions, Approximate:

Type JR11



1/1



Width 16mm

UCHIYA THERMOSTAT CO.

8mm Disk Series Snap-Action Thermostat "F"



Common Features

Fixed Operating Temperature, Normally-Closed Contacts, Automatic Reset, With Ceramic Case, Dust Proof.

Typical Application: Control for Electronic Range, Duplicator, Hot Plate for Hamburger, Coffee-Maker, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 170°C.
Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 10 to 40 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit: 300°C for 1 minute.

Minimum Current: 100mA, Maximum Current 60A/10cycles.

Recognized Electrical Ratings

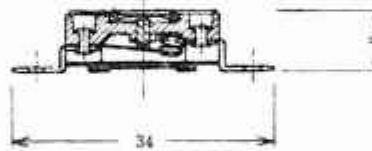
Type	MITI JAPAN	UL 873 File #E50124	UL547 File #E52703	CSA22.4 No.24 File #LR35080	VDE 0631 File#8921-451-1002		
	Resistive	Resistive Load	Res'tive	Res'tive	Res'tive (Ind'tive)		
	125V/250V	125/250V	125/250V	125/250V	250Vac	250Vac	
	5000cy	Reg'ting 6000cy	Limiting 100000cy	Motor 100000cy	Motor 100000cy	Class I 10000cy	Class II 100000cy
F***	15A/8A					16A(10A)	8A(5A)

Dimensions, Approximate:

Type F100



1/1

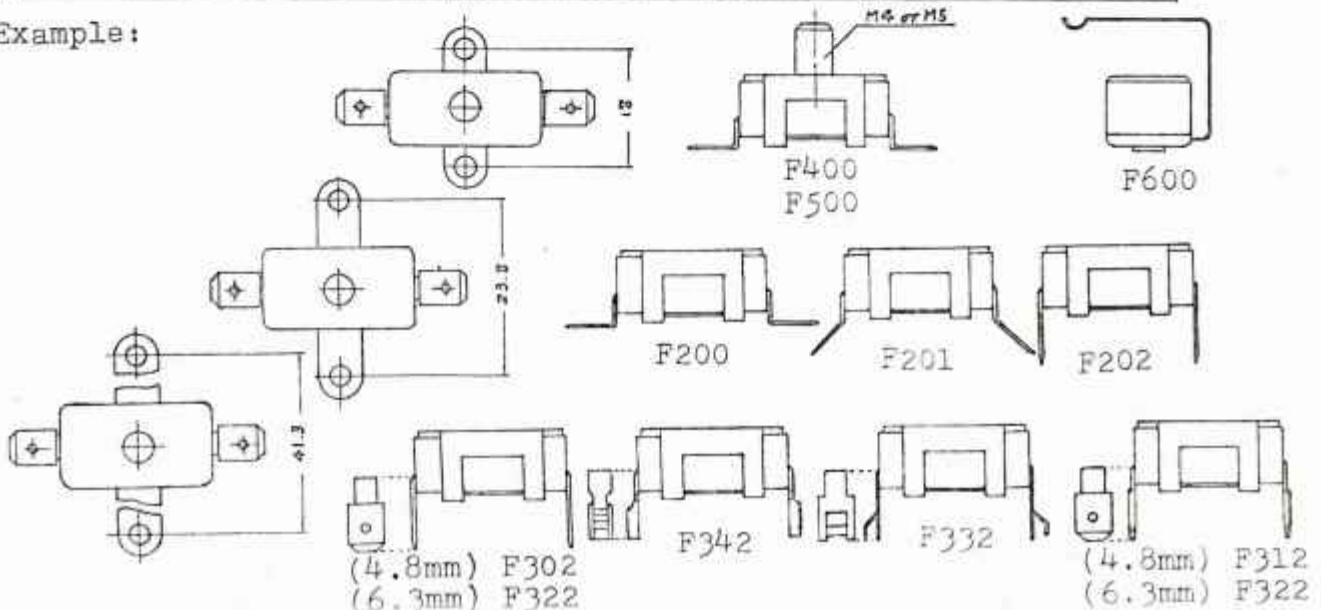


Weight 4.9gsm

"F" Series Variation List

1st Suffix	2nd Suffix	3rd Suffix
Bracket for Mounting	Terminal Construction	Terminal Angle
0 Without Bracket	0 0.5X4.8mm brass	0 Horizontal
1 18mm between holes	1 0.8X4.8mm brass	1 45°
2 23.8mm between holes	2 0.8X6.3mm brass	2 Vertical
3 41.3mm between holes	3 #18 Soldering	3
4 With M4 Stud	4 #18 Clamp	4
5 With M5 Stud	5 0.8X4.8mm brass Dual	5
6 With Sus Snap Holder	6 0.8X4.8mm steel	6
7	7 0.8X6.3mm steel	7

Example:



UCHIYA THERMOSTAT CO.

8mm Disk Snap-Action Dual Thermostat

'78 2.15

Type



Common Features

Two-Stage Fixed Operating Temperature, Normally-Closed, Open-Type Construction, Without Case, Ceramic Mold Frame, Automatic Reset or Manual Reset.

Typical Application:

Primary Thermostat for control use and Secondary Thermostat for protector use are provided.
Electric Range, Hot Plate for Cooking, Electric Oven, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 170°C.
Tolerance(Plus,Minus): 5°C or 5% Minimum, independently.

Standard Resetting Temp.(ON): 10 to 40 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit: 300°C for 1 minute.

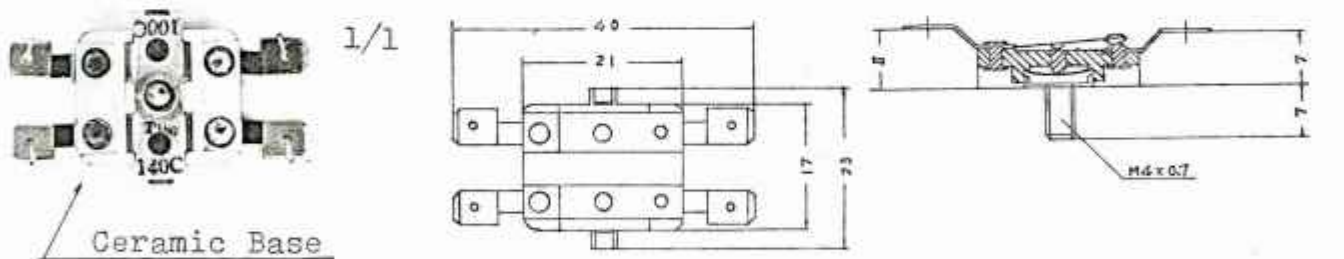
Minimum Current: 100mA, Maximum Current: 60A/10cycles.

Recognized Electrical Ratings

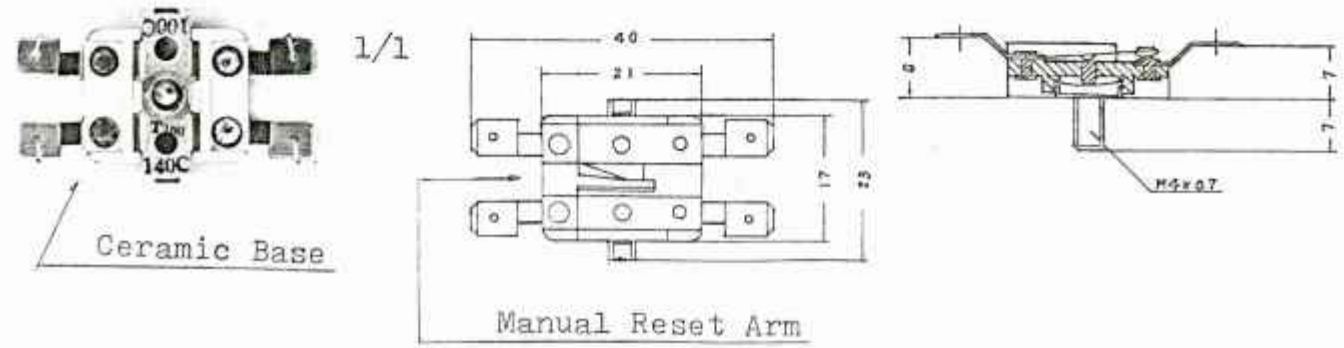
Type	MITI	UL 873	UL547 CSA22.4 No.24	VDE 0631
	JAPAN	File #E50124	File #File #LR35080	File#8921-451-1002
	Resistive	Resistive Load	E52703Resis've	Resis've (Induc've)
	125V/250V	125/250V	125/250V	250Vac 250Vac
	5000cy	Reg'ting	Limiting	Motor
		6000cy	10000cy	10000cy
DF	15A/8A			
DFR	manual			
	15A/8A			

Dimensions, Approximate:

Type DF (Automatic Reset Primary and Secondary)



Type DFR (Primary Automatic Reset, Secondary Manual Reset)



UCHIYA THERMOSTAT CO.

1/2" Disk Series Snap-Action Thermostat



Common Features

Fixed Operating Temperature, Normally-Closed Contacts, Automatic Reset, With Ceramic Case, Dust Proof.

Typical Application: Control for Electronic Range, Duplicator, Hot Plate for Hamburger, Coffee-Maker, etc.

Standard Operating Temp.(OFF): Can be set 70°C to 170°C.
Tolerance(Plus,Minus): 5°C or 5% Minimum.

Standard Resetting Temp.(ON): 10 to 40 deg. Differential from Each Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous Time.
Overshooting Limit: 240°C for 1 minute.

Minimum Current: 100mA, Maximum Current 60A/10cycles.

Recognized Electrical Ratings

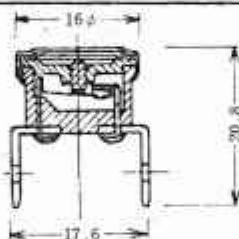
Type	MITI	UL 873	UL547	CSA22.4 No.24	VDE 0631
	JAPAN	File #E50124	File #E52703	File #LR35080	File#8921-451-1002
	Resistive	Resistive Load	Res'tive	Res'tive	Res'tive (Ind'tive)
	125V/250V	125/250V	125/250V	125/250V	250Vac
	5000cy	Reg'ting	Limiting	Motor	Class I
	6000cy	20000cy	Motor	Controls	Class II
	15A/8A	15A/8A	15A/8A	10000cy	100000cy

Dimensions, Approximate:

Type K222



1/1

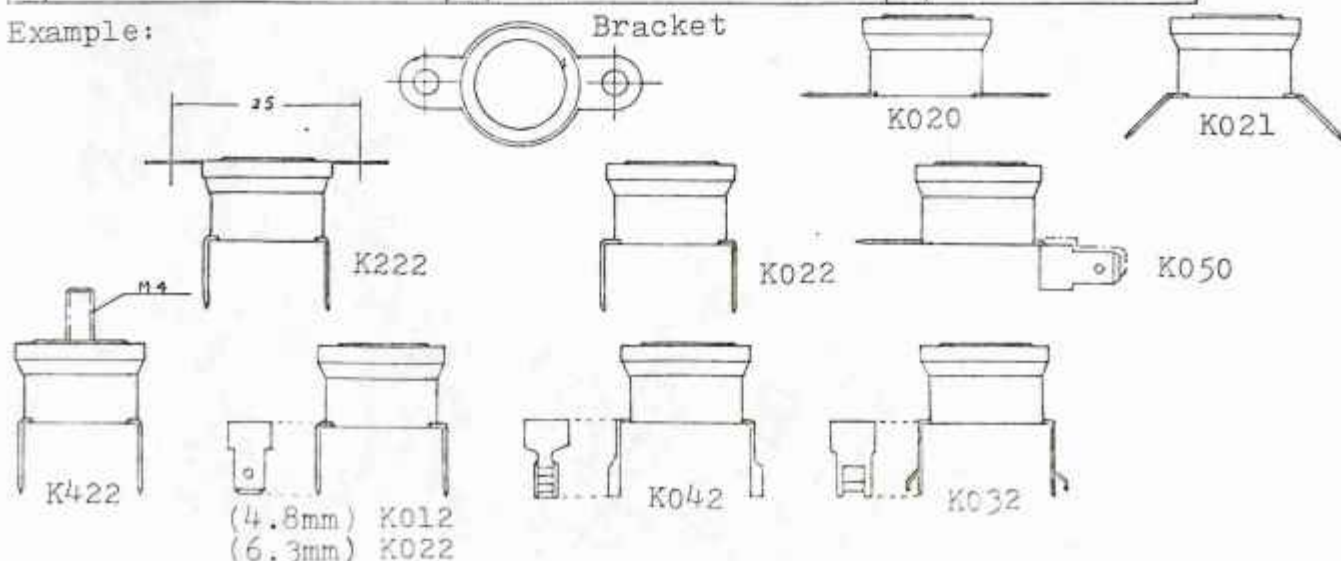


Weight 4.9grm

"K" Series Variation List

1st Suffix	2nd Suffix	3rd Suffix
Bracket for Mounting	Terminal Construction	Terminal Angle
0 Without Bracket	0	0 Horizontal
1	1 0.8X4.8mm brass	1 45°
2 25mm between holes	2 0.8X6.3mm brass	2 Vertical
3	3 #18 Soldering	3
4 With M4 Stud	4 #18 Clamp	4
5	5 0.8X4.8mm brass Dual	5
6	6	6
7	7	7

Example:



UCHIYA THERMOSTAT CO.

1/2" Disk Series Snap-Action Thermostat

'78 2.15



Common Feature

Fixed Operating Temperature, Automatic Reset,
Glass Phenol Resin Base, Brass Cap, Filled With Epoxy Resin.

Typical Application:

UE, UE2: (Normally-Opened) Fire Alarm, Alarm Lamp, Fan Motor.
UEC, UEC2: (Normally-Closed) Temperature Sensor for Car, etc.

Standard Operating Temp. (ON, OFF): Can be set Minus 10°C to 130°C.
Tolerance (Plus, Minus): 3°C or 3% Minimum.

Standard Resetting Temp. (OFF, ON): 5 to 35 det. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous. (Max. 150°C)
Overshooting Limit: 200°C for 1 minute.

Minimum Current: 10mA, Maximum Current 3A/10cycles at UE, UE2.
Minimum Current: 50mA, Maximum Current 15A/10cycles at UEC, UEC2.

Recognized Electrical Ratings

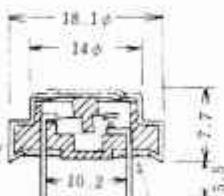
Type	MITI	UL 873	UL547	CSA22.4 No.24	VDE 0631
	JAPAN	File #E50124	File #E52703	File #LR35080	File #8921-451-1002
	Resistive Load	Resistive Load	Res'tive	Res'tive	Res'tive (Ind'tive)
	125V/250V	125/250V	125/250V	125/250V	250Vac
	5000cy	Reg'ting 6000cy	Limiting 10000cy	Motor Controls 10000cy	Class I 10000cy
UE	1.5A/1A				Class II 10000cy
UE2	5A/3A				
UEC	1.5A/1A				
UEC2	5A/3A		5A/3A		

Dimensions, Approximate:

Type UE (Normally-Opened, PGS Contact Points)
Type UE2 (Normally-Opened, Silver Contact Points)



1/1



Weight 2.2grm

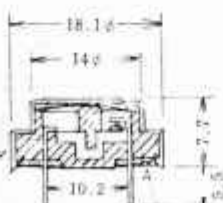
Glass Phenol Resin
Brass Cap

Epoxy Resin

Type UEC (Normally-Closed, PGS Contact Points)
Type UEC2 (Normally-Closed, Silver Contact Points)



1/1



Weight 2.2grm

Glass Phenol Resin
Brass Cap

Epoxy Resin

UCHIYA THERMOSTAT CO.

1/2" Disk Series Snap-Action Thermostat

'78 2.15



Common Features

Fixed Operating Temperature, Automatic Reset,
Glass Hermetic Sealed Base, Stainless Steel Cap.

Typical Application: Fire Sensor, Boiler Uptake,
Automobile Exhaust-Gas System.

Very suitable for Overheat Alarming Device under high temperature
and bad environment.

Standard Operating Temp.(ON,OFF): Can be set Minus 10°C to 130°C.
Tolerance(Plus,Minus): 3°C or 3% Minimum.

Standard Resetting Temp.(OFF,ON): 5 to 35 deg. Differential from Each
Operating Temperature.

Heat Proof: Operating Temperature plus 50°C Continuous.(Max.200°C)
Overshooting Limit: 350°C for 1 minute.

Minimum Current: 10mA, Maximum Current 3A/10cycles at UH, UH2.
Minimum Current: 50mA, Maximum Current 15A/10cycles at UHC, UHC2.

Recognized Electrical Ratings

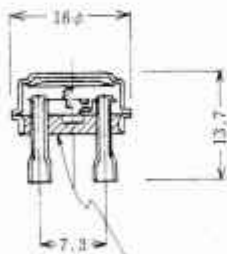
Type	MITI	UL 873	UL547	CSA22.4 No.24	VDE 0631	
	JAPAN	File #E50124	File #E52703	File #LR35080	File#8921-451-1002	
	Resistive	Resistive Load	Res'tive	Res'tive	Res'tive(Ind'tive)	
	125V/250V	125/250V	125/250V	125/250V	250Vac 250Vac	
	5000cy	Reg'ting	Limiting	Motor	Controls	
		6000cy	100000cy	100000cy	Motor	Class I Class II
					10000cy 100000cy	
UH	1.5A/1A					
UH2	3A/2A					
UHC	1.5A/1A					
UHC2	3A/2A					

Dimensions, Approximate:

Type UH (Normally-Opened, PGS Contact Points)
UH2 (Normally-Opened, Silver Contact Points)



1/1



Weight 2.6grm

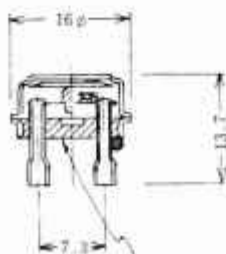
Glass Hermetic Base
Stainless Steel Cap

*Boackets
Set to Value
and threaded into
a 1/8" Q.C.I*

Type UHC (Normally-Closed, PGS Contact Points)
UHC2 (Normally-Closed, Silver Contact Points)



1/1



Weight 2.6grm

Glass Hermetic Base
Stainless Steel Cap



Lead Wires (Standard Length, Effective Length 50 mm) Extra Cost

Cat. Nos. and Specification	Rated Current	AWG No.	Outer Diam mm ϕ	Sections Area mm	Stranded Wire std/mm ϕ	
150°C CSA-SEWF-1 Mfr. Canada Wire and Cable Ltd. #25300 300V (Glass Braiding, Silicone Rubber Wire) (Red)	6A	#20	2.2		10/0.254	<u>*1</u>
	12A	#18	2.4		16/0.254	
150°C UL-3132 Mfr. Tsuchiya Electric Wire Co., Ltd. E41176, 300V (Silicone Rubber Wire) White	4A	#22	1.7	0.33	17/0.16	<u>*2</u>
	6A	#20	1.9	0.52	21/0.18	
	12A	#18	2.1	0.83	34/0.18	
	15A	#16	2.3	1.31	26/0.26	
105°C UL-1015 File E41176, 600V CSA-TEW File LR24132, 600V Mfr. Tsuchiya Electric Wire Co., Ltd. (Heat Proof Vinyl Wire) (Ten Colors)	3A	#24	2.3	0.21	11/0.16	
	4A	#22	2.4	0.33	17/0.16	
	6A	#20	2.6	0.52	21/0.18	
	12A	#18	2.8	0.83	34/0.18	
	15A	#16	3.1	1.31	26/0.26	
80°C UL-1007 File E41176, 300V CSA-TR64 File LR24132, 300V Mfr. Tsuchiya Electric Wire Co., Ltd. (Heat Proof Vinyl Wire) (Ten Colors)	3A	#24	1.4	0.21	11/0.16	
	4A	#22	1.5	0.33	17/0.16	
	6A	#20	1.8	0.52	21/0.18	
	12A	#18	2.1	0.83	34/0.18	

Marked with *1 and underlined - Designated by CSA for Cat. Nos. UC2 and UI2
 Marked with *2 and underlined - Designated by UL for Cat. Nos. UC2 and UI2
 Marked with *3 and underlined - Designated by UL for Cat. Nos. US2 and US4

Heat Proof Insulating Tubings Extra Cost

Cat. Nos. and Specification	Size			Remarks
	t	ϕ	L	
180°C NIKALON Non-shrinkable Silicone Tubing 300V (White) Mfr. Nikkan Industries Co., Ltd.	0.6 X 9 X 45			Recognized by UL and CSA
	0.6 X 8 X 45			
	0.6 X 7 X 45			
105°C SUMITUBE-FRI UL-224 File E48762 600V (Black) Non-shrinkable Irradiated Polyolefin Tubing Mfr. Sumitomo Electric Industries, Ltd.	0.25 X 8 X 40			Recognized by UL
	0.25 X 4 X 15			
	0.25 X 3 X 15			
105°C LUMIRROR UL-94 File E41797 Sheet Spiral Tubing (Semitransparent) Mfr. Toray Industries, Ltd.	0.15 X 9 X 45			Recognized by UL
	0.15 X 8 X 45			
	0.15 X 7 X 45			



ESTIMATE AND SAMPLE ORDER

Date: _____

Customer's Name _____ Agent's Name _____

Customer's Requirement (Normally-closed, Normally-open, for Control/Protector)

Operating Temp. _____ + _____ C° (at no load)
 Resetting Temp. _____ ± _____ C° (at no load)

Operating Temp. _____ + _____ C° (at actual load)
 Resetting Temp. _____ ± _____ C° (at actual load)

Application: For use of _____
 Applicable Rating _____ V _____ A Power Factor _____ %

Required Life: _____ cycles

Kind of Load: Resistive, Inductive, Motor, Solenoid, Lamp

Environment: Corrosive Gas(____) Humidity (____) Vibration (____)

Heat Proof: Continuous: _____ °C Overshooting: _____ °C/min

Cooling and Heating Cycles: + _____ °C / - _____ °C _____ cycles

Internal Resistance: Within _____ mΩ Special Marking _____

Case Structure: Open, Sealed, Dust-proof, Water-proof
 Material: Brass, Aluminum, Stainless

Applicable Standards: Japan UL CSA VDE

Lead Wire _____ Insulating Tubing _____

Terminal Structure _____ Mounting Device _____

Uchiya's Catalog No. _____

Uchiya's Rating AC 125V _____ A (Resistive Load)
 _____ V _____ A

Recognized Standard _____

Number of Sample _____

Delivery Date of Sample _____

Price of Sample _____

Cost of Die _____

Mass Production Schedule _____

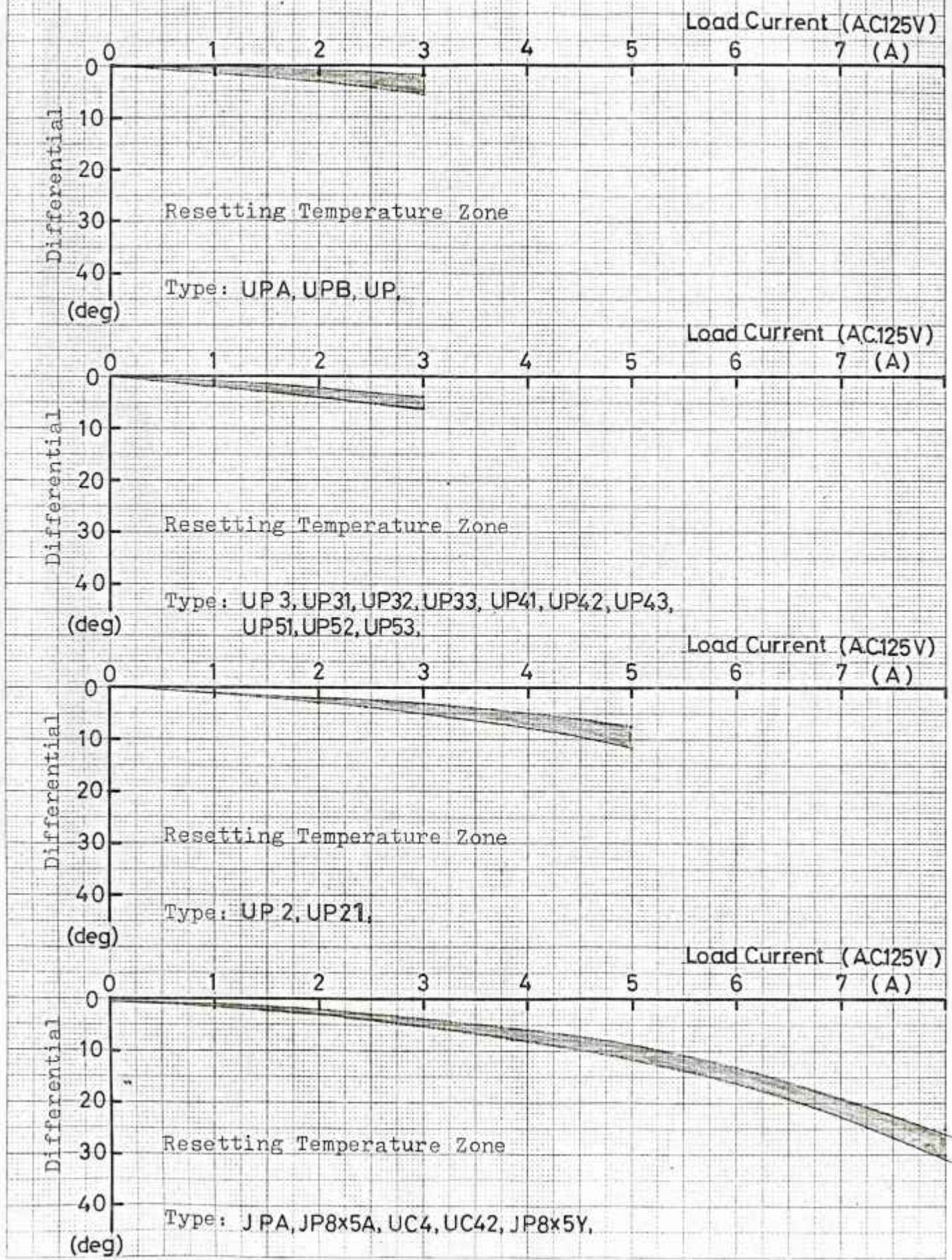
Mass Production Lots _____ pieces/month

Unit Price _____



8x5 Series

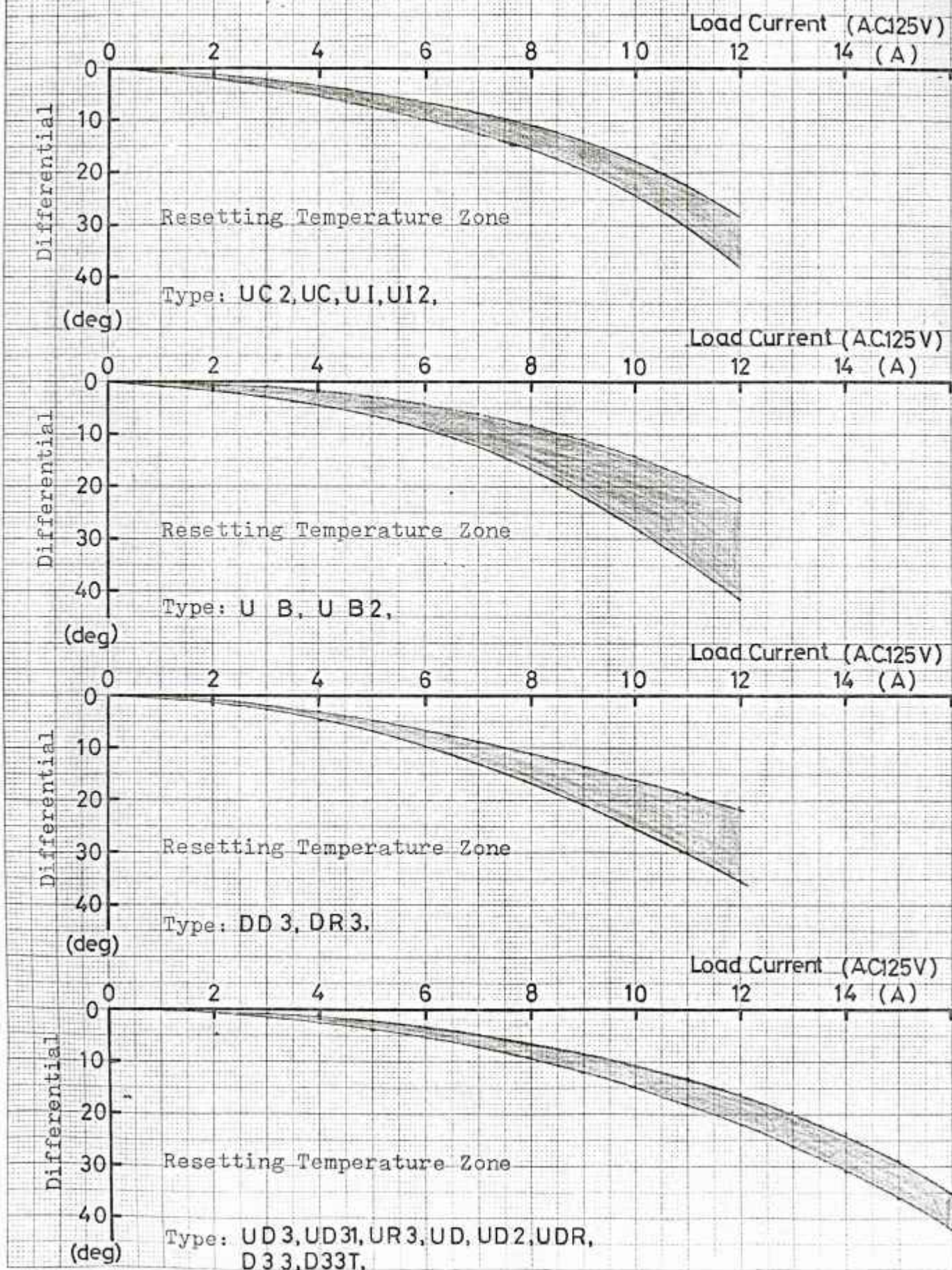
Operating Temperature - Load Current Characteristics





8x5 Series

Operating Temperature-Load Current Characteristics





8x5 Series

Operating Temperature-Load Current Characteristics

