

Heater Break Alarm Module HBA-T22 / HBA-T32 HBA-T23 / HBA-T33

Supports heater current up to 100A.



The heater break alarm is a contact output device that monitors the heater current and activates the alarm when the current falls below the set value. Heater break alarm for single phase or three phase power control.



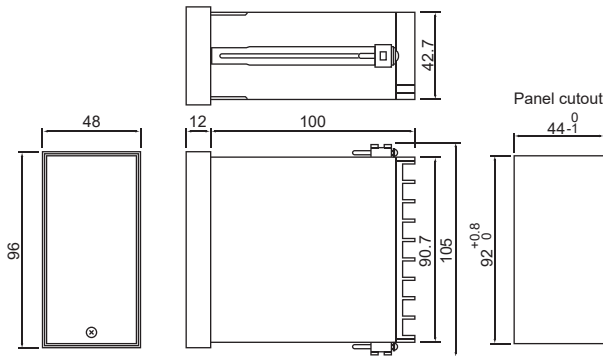
Products List

Heater Break Alarm Module					CT type	
Figure	Load	Max.Load Current	Control type	Model Code	Figure	Model Code
	Single phase type	5A	Phase angle control Zero-crossing control	HBA-T22P-5 HBA-T22Z-5	 (Terminal : Y-shaped lug, M3)	CTL-6-P-N
		10A	Phase angle control Zero-crossing control	HBA-T22P-10 HBA-T22Z-10		
		20A	Phase angle control Zero-crossing control	HBA-T22P-20 HBA-T22Z-20		
		30A	Phase angle control Zero-crossing control	HBA-T22P-30 HBA-T22Z-30		
			Phase angle control Zero-crossing control	HBA-T23P-30 HBA-T23Z-30		
		100A	Phase angle control Zero-crossing control	HBA-T23P-100 HBA-T23Z-100	 (Terminal : Ring lug, M3)	CTL-18S-N
	Three phase type	5A	Phase angle control Zero-crossing control	HBA-T32P-5 HBA-T32Z-5		
		10A	Phase angle control Zero-crossing control	HBA-T32P-10 HBA-T32Z-10		
		20A	Phase angle control Zero-crossing control	HBA-T32P-20 HBA-T32Z-20		
		30A	Phase angle control Zero-crossing control	HBA-T32P-30 HBA-T32Z-30		
			Phase angle control Zero-crossing control	HBA-T33P-30 HBA-T33Z-30		
		100A	Phase angle control Zero-crossing control	HBA-T33P-100 HBA-T33Z-100		

External Dimensions (Units : mm)

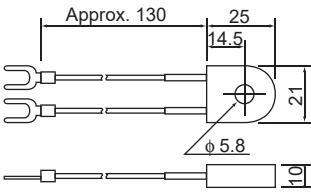
Heater Break Alarm Module

: HBA-T22, HBA-T32, HBA-T23, HBA-T33

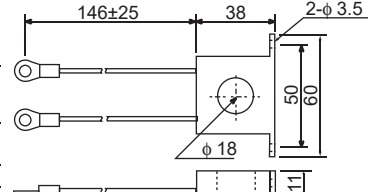


Current transformer (CT)

CTL-6-P-N



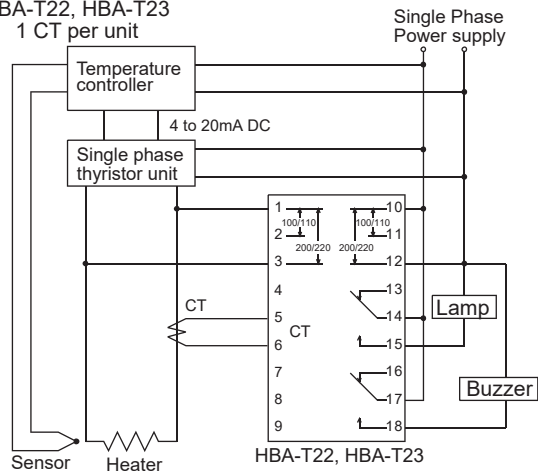
CTL-18S-N



Wiring Example

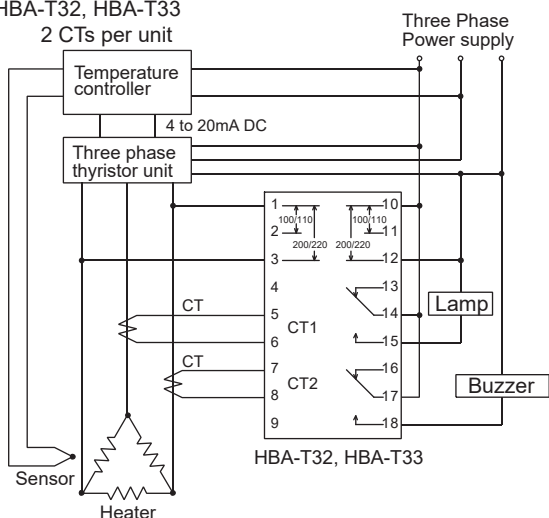
HBA-T22, HBA-T23

1 CT per unit



HBA-T32, HBA-T33

2 CTs per unit



Specifications

HBA-T22, HBA-T32

Input type	Load voltage and Current transformer (CTL-6-P-N) Number of CTL-6-P-N : HBA-T22 : 1 CT, HBA-T32 : 2 CTs
Detectable load current	5A, 10A, 20A, 30A AC (depends on Unit rating)
Settable range	50 to 100% of Unit rating
Load current setting accuracy	±3% of load current setting
Alarm sensitivity	HBA-T22 : Current change of 10% or more of load capacity * Uncertain for the change of less than 10% HBA-T32 : Current change of 15% or more of load capacity * Uncertain for the change of less than 15%

HBA-T23, HBA-T33

Input type	Load voltage and Current transformer (CTL-18S-N) Number of CTL-18S-N : HBA-T23 : 1 CT, HBA-T33 : 2 CTs
Detectable load current	30A, 100A AC (depends on Unit rating)
Settable range	50 to 100% of Unit rating
Load current setting accuracy	±3% of load current setting
Alarm sensitivity	HBA-T23 : Current change of 10% or more of load capacity * Uncertain for the change of less than 10% HBA-T33 : Current change of 15% or more of load capacity * Uncertain for the change of less than 15%

Common Specifications

Alarm output	2 points, Relay contact, c contact 200V AC, 3A (Resistive Load)
Insulation Resistance	More than 20MΩ (500V DC) between inputs and outputs terminals
Dielectric Strength	1500V AC for one minute between inputs and outputs terminals
Supply voltage	100/110V and 200/220V, 50/60Hz
Power consumption	Less than 1.2VA
Ambient temperature	0 to 50°C
Ambient humidity	45 to 85%RH (Non-condensing)
Net Weight	Approx. 400g

Model and Suffix Code

HBA-T22 / HBA-T32, CT type : CTL-6-P-N

Specifications	Model and Suffix Code			
	HBA - □ □ - □			
Model	Single phase type	T22		
	Three phase type *1	T32		
Control type	Phase angle control		P	
	Zero-crossing control		Z	
Load current	5A			5
	10A			10
	20A			20
	30A			30

CT (Current transformer)

Model	Max.Load Current	Applicable products
CTL-6-P-N	According to HBA module	HBA-T22,T32

*1 HBA-T32 require 2 CTs per unit.

HBA-T23 / HBA-T33, CT type : CTL-18S-N

Specifications	Model and Suffix Code			
	HBA - □ □ - □			
Model	Single phase type	T23		
	Three phase type *1	T33		
Control type	Phase angle control		P	
	Zero-crossing control		Z	
Load current	30A			30
	100A			100

CT (Current transformer)

Model	Max.Load Current	Applicable products
CTL-18S-N	According to HBA module	HBA-T23,T33

*1 HBA-T33 require 2 CTs per unit.

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