

**GTH33 / GTH35**

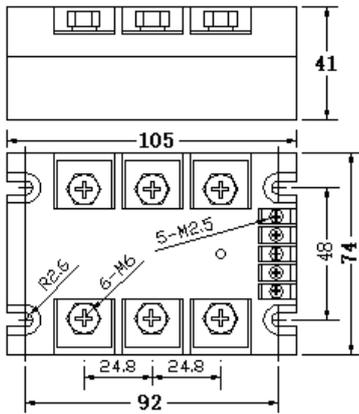
03

- Optical isolation between control input and output circuits.
- LED indicator for operational status.
- Control signal compatible with TTL logic interface.
- Solid-state, non-contact switch output. Zero current turn-off.
- Built-in RC snubber circuit across the output terminals.
- The product is mainly used in automatic control equipment for three-phase AC power supplies, such as: industrial kilns, electric heating ovens, water pumps, fans, etc.

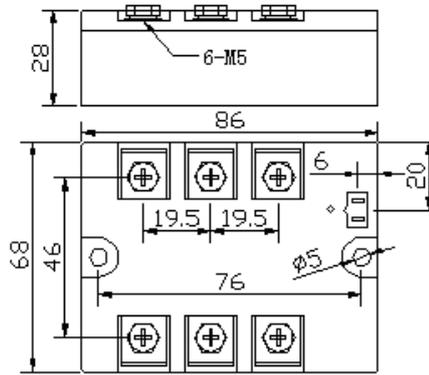


Parameter		Model	GTH33 DC to AC		GTH35 AC to AC	
Input Parameters	Control voltage		4~32 VDC		160~240 VAC	
	Control Current		≤25 mA			
	Turn-On Current		≥ 8 mA			
	Turn-Off Voltage		≤1.5 VDC		≤ 30 VAC	
	Switching Time		≤10 mS			
Output Parameters	Load Voltage		24~240VAC×3		24~440VAC×3 24~660VAC×3	
	Peak Current		10、 20、 30、 40、 50A	60、 80、 90...180A	200、 300、 400、 500A	
	On-state Voltage Drop		≤1.5 V		≤1.8 V	
	Off-state Voltage		≥ 800V		≥ 1500V	
Performance Parameters	Isolation Voltage		≥ 2500 V			
	Insulation Voltage		≥ 2500 V			
	Insulation Resistance		≥ 100 MΩ			
	Operating Temperature		-25 ~ 75 °C			
	Power Frequency		50/60 HZ			
	Cooling Conditions		≥20A heat sink required, ≥30A heat sink with fan required			
	Load Current Safety Factor		Resistive load: 2-3 times, Inductive load: 3-4 times of load current			
	Outline Dimensions (Code)		86×68×28 mm <sup>3</sup> (J-6)	105×74×41 mm <sup>3</sup> (J-3)	120×84×56 mm <sup>3</sup> (J-5)	

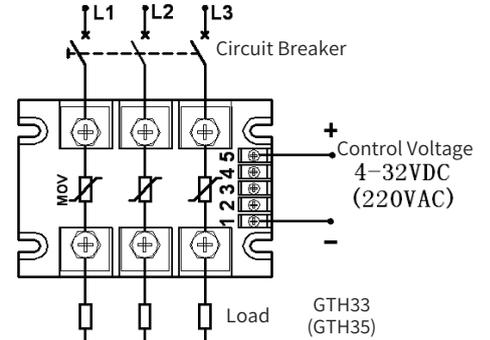
**Outline Dimensions. Installation Wring Diagram: (Unit: mm)**



J-3

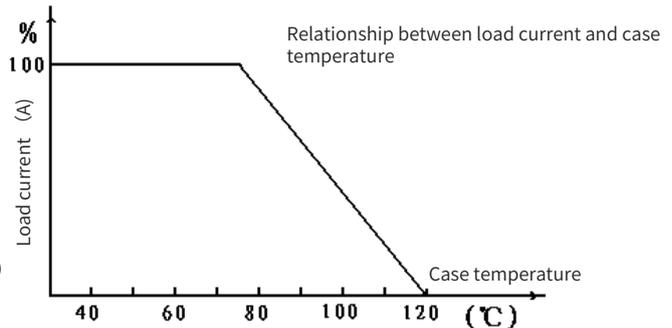
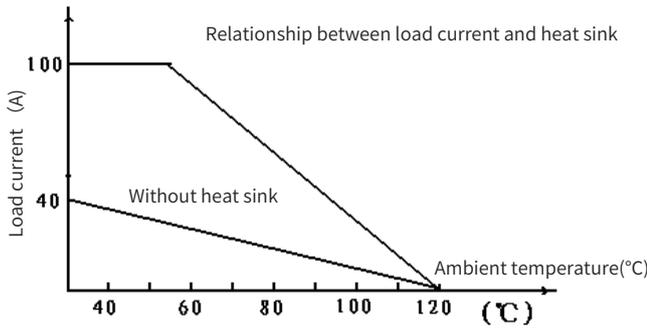


J-6



GTH33 (GTH35)

**Temperature Curve Diagram:**



**Product Safety Usage Requirements and Precautions:**

- When using the product, a margin should be left when selecting the current of the product according to the load type. (For resistive load: select according to 2-3 times the load current. For Inductive or capacitive load: select according to 3-4 times the load current )
- According to the relationship between load current and ambient temperature, when the ambient temperature is high or heat dissipation conditions are not good, the current capacity of the solid state relay should be increased accordingly.
- In order to prevent the product from short-circuiting during use, it is necessary to connect a fast circuit breaker or a fast fuse in series with the product in the load circuit.
- For inductive loads, a varistor must be connected to the output end to prevent the transient high voltage generated during switching from damaging the internal chip. The varistor (MOV) is selected with a rated voltage range of 430–470V for 240VAC systems, 680–750V for 440VAC systems, and 1100–1200V for 660VAC systems. Alternatively, the AC overvoltage protection absorber manufactured by our company may be used.
- When the product is installed, it is required that the contact surface between the heatsink and the product must be flat and clean, and a layer of thermally conductive silicone grease is applied to its surface, and then finally the screws set with flat washers and spring washers are tightened symmetrically to fix.