

HH10 Series Drive



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Product Introduction

HH10 series Economic drive is new generation of general-purpose inverter with rich features, wide-power range and widely used in Fan, water pump speed control and conveyor applications. Products are based in latest

TI 32-bit DSP which gives highly accurate motor auto-tuning, high-speed control and improves reliability of the product.

Product Advantages

Independent air duct design



Multi-function and
easy to use

TUV SUD and reliable
quality assurance

Product Features

V/f control



Natural cooling (for the applications with cotton and dust)



Mini structure, less installation space



Various function setting

1. Standard Modbus communication
2. Built-in PID
3. 16 steps multi-step speed control
4. Flexible V/f curve setting
5. Multi-function I/O terminal (the delay time can be set)
6. Fault protection at overcurrent overvoltage, undervoltage, overtemperature and overload with detailed fault information
7. DC braking, flux braking and inbuilt dynamic braking
8. Overcurrent and overvoltage stall, stronger load adaptability

Technical Specifications

Function	Specification
Input Voltage (V)	Single phase 220 (-15%)~240 (+10%) Three phase 220 (-15%)~240 (+10%) Three phase 380 (-15%)~440 (+10%)
Input Frequency (Hz)	50 Hz or 60 Hz Allowed range: 47~63 Hz
Output Voltage (V)	0-input voltage
Output Frequency (Hz)	0-400 Hz
Control Mode	V/f
Maximum Output Frequency	400 Hz
Adjustable-speed Ratio	1:100
Overload Capability	150% of rated current: 1 minute, 180% of rated current: 10 seconds, 200% of rated current: 1 second
Terminal Analog Input Resolution	≤20 mV
Terminal Switch Input Resolution	≤2 ms
Analog Input / Output	1 input 0~10 V / 0~20 mA; 1 output 0~10 V / 0~20 mA
Digital Input / Output	5 common input, 1 Y output (commonly used with digital output) and 1 programmable relay output
Communication	485 communication
Mountable Method	Wall mountable
Temperature of the Running Environment Cooling	-10~50°C, derate above 40°C
Cooling	Single / three-phase 200 V 0.2-0.75 kW natural cooling Single / three-phase 200 V 1.5-2.2 kW, three-phase 400 V 0.75-2.2 kW air-cooling
Fault Protections	Overcurrent, overvoltage, undervoltage, overtemperature, overload and other protections
Braking Unit	Standard for all HH10 series models

Type Designation Key

HH10 - 2R2 - 4

① ② ③

Sign	Detailed description of the sign
①	Drive Series Name
②	Power Rating in kW
③	Voltage Class: 2-200 V, 4-400 V

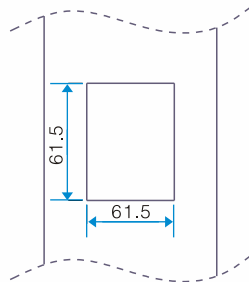
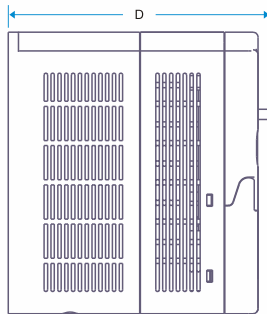
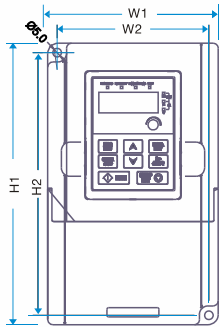
Power Ratings

	Model	I _{continuous} (A)	P (kW)
200 V Class	HH10-0R2-2	1.6	0.2
	HH10-0R4-2	2.5	0.4
	HH10-0R7-2	4.2	0.7
	HH10-1R5-2	7.5	1.5
	HH10-2R2-2	11	2.2
400 V Class	HH10-0R7-4	2.5	0.7
	HH10-1R5-4	4.2	1.5
	HH10-2R2-4	5.5	2.2

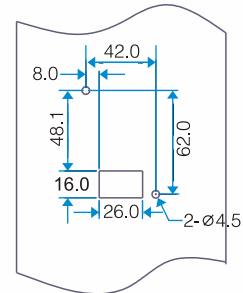
Product Weight and Dimensions

Voltage	Power	Gross Weight (kg)	Net Weight (kg)	Packing Material	Dimension (mm)
1 AC 200 V	0.2~0.4 kW	1.4	1.1	Carton box	190 x 135 x 235
	0.7~2.2 kW	1.7	1.3	Carton box	230 x 160 x 230
3 AC 200 V	0.2~0.7 kW	1.4	1.1	Carton box	190 x 135 x 235
	1.5~2.2 kW	1.7	1.3	Carton box	230 x 160 x 230
3 AC 400 V	0.7~2.2 kW	1.7	1.3	Carton box	230 x 160 x 230

Installation Dimension



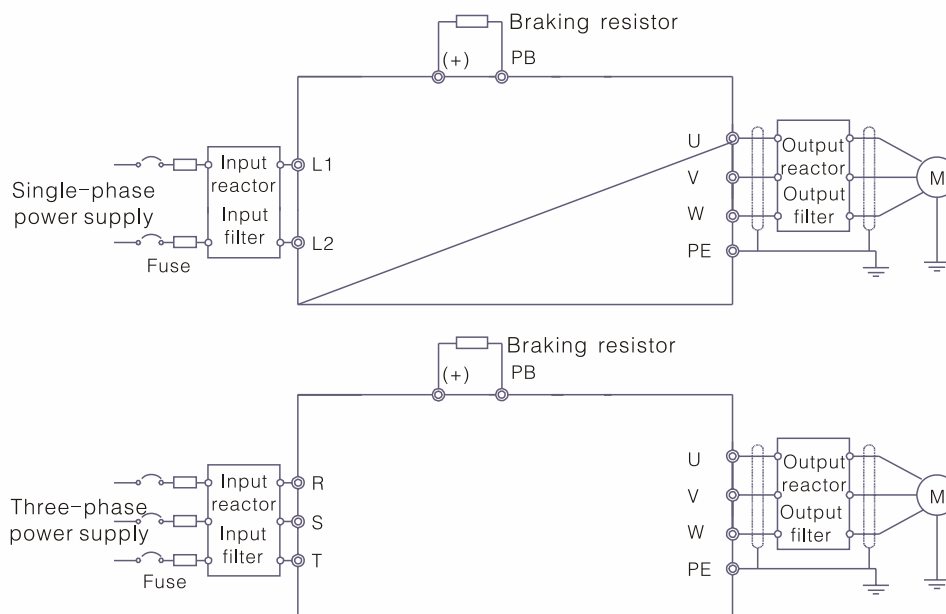
Installation bracket



Installation of keypad screw

Voltage	Model	W1(mm)	W2(mm)	H1(mm)	H2(mm)	D(mm)
1 AC 200 V	HH10-0R2-2	85	75	140	132	134.2
	HH10-0R4-2					
	HH10-0R7-2	100	89	165	154	153.2
	HH10-1R5-2					
3 AC 400 V	HH10-2R2-2	100	89	165	154	153.2
	HH10-0R7-4					

Wiring Diagram of Main Circuit



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In the spirit of continuous improvement, specifications are subject to change without notice.

