



## HLP-C100 Mini Drive

HLP-C100 series is Holip new generation of high-quality, high reliability mini drive, tailored specifically for small power motors, with a compact size and easy to use. It can be widely used in food, packaging, knitting, engraving, washing, offset printing and shutter doors machinery, etc.

### Applications:

food, packaging, knitting, engraving, washing, offset printing and shutter doors machinery, etc.

## Characteristic



### High Reliability

- Long life design
- Fan speed controllable
- Strict design and test production system



### Excellent User Friendliness

- Use advanced thermal simulation technology, with a compact size, saving installation space;
- One key to restore user parameters;



### Excellent Control Performance

- Use high-quality incremental potentiometer;
- Different speed with different ramp time;
- Use standard Modbus protocol, easy to compose centralized control system



### High Environmental Adaptability

- PCBA full coating coverage
- Wide tooth pitch radiator
- Wide voltage range
- RFI switch
- Independent wind way and easy replacement fan design;

## Tech. Specifications

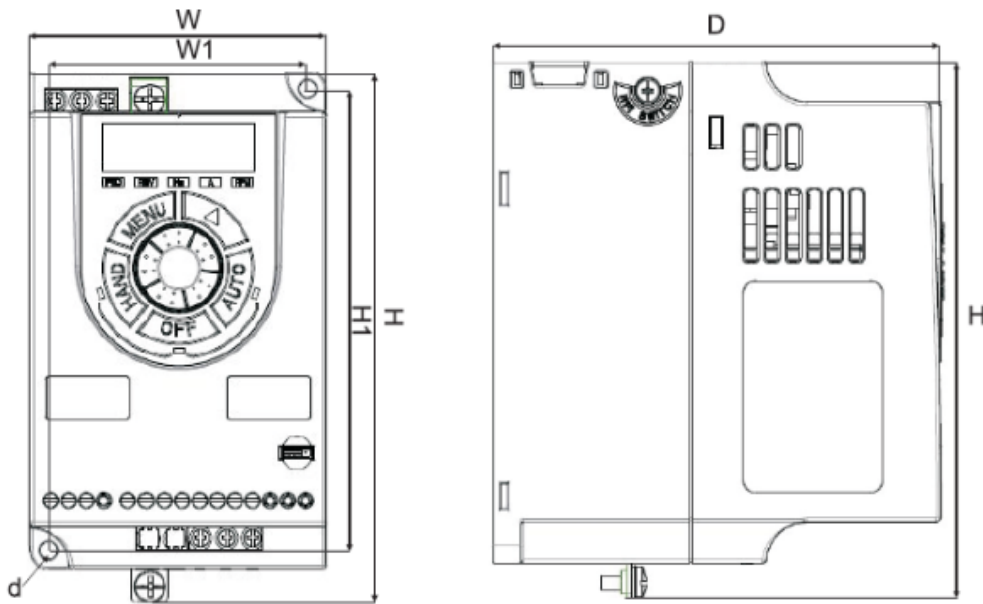
Item		Specification
Power supply	Supply voltage	Single/three phase 200~240V -20%~+10%; Three phase 380~480V -20%~+10%;
	Frequency	48-62Hz;
	Max. imbalance	3% ;
Motor output	Output voltage	Three phase 0-100% of supply voltage
	Output frequency	0-400Hz ;
IO board control terminals	Input	5 digital inputs; 1 analog input, both can receive voltage or current signals.
	Output	1 relay output;
	Power supply	1 +10V, max current output 10mA;
	Communication	RS+, RS-, max baud rate 38400bit/s;
Display	8 segments, 5 numeric displays	Display frequency, warnings, status and so on;
	Indicator	Light FWD, REV, HZ, A, RPM display various status of the drive;
	Data read-outs	Frequency setting, output frequency, feedback value, output current, DC link voltage, output voltage, output power, input terminals state, output terminals state, analogue input , analogue output, 1-10 fault records and accumulated working time etc.;
Environment	Enclosure	IP20;
	Ambient temperature	-10°C~50°C, derating use when over 40°C;
	Humidity	5%-85% (95% without condensation);
	Vibration test	1.14g;
	Max. altitude above sea level	1000m, derating use when more than 1000 meters;
	Motor cable length	Shield cable: 5 meters; Unshield cable: 50 meters;
Others	DC choke	None;
	Braking unit	≥220/380V 1.5kW Built-in

## Product Functions

Main control functions	Control mode	V/F, VVC+;
	Start torque	0.5Hz 150%;
	Overload capacity	150% 60s;
	PWM switch frequency	2k~16kHz ;
	Speed setting resolution	Digital: 0.001Hz; Analogy: 0.5% of the max. operating frequency ;
	Speed open-loop control accuracy	30~4000 rpm: tolerance±8 rpm;
	Control command source	LCP, digital terminal, local bus;
	Frequency setting source	LCP, analog, pulse, local bus;
	Ramp control	Selectable 8-speed steps ramp up and down times 0.05-300.00s;
Basic Functions	Speed Open-loop Control; Process Closed-loop Control; Slip Compensation; Torque compensation; Automatic Voltage Regulation; V/F Control, DC Brake; Speed Limit; Current Limit; Flying Start; Reset Function;	
Application Functions	Jogging; Multi-speed Control via Digital input; Mechanical Braking; UP/DOWN; Catch up/Slow down; Counter.	
Protection Functions	Missing Motor Phase Protection; Low-voltage Protection; Over-voltage Protection; Over-current Protection; Output Phase Loss Protection; Output Short Circuit Protection; Output Grounding Fault Protection; Live Zero Timeout Function; Button Freeze; Duplicate Fails; LCP Invalid; LCP Incompatible; Parameter Read-only; Reference Out of Range; Invalid While Running etc.	

## Particular Specifications

Model	Input voltage	Input current (A)	Output current (A)	Rated power (kW)	Net weight (kg)
HLP-C1000D3721	1×200-240V50/60Hz	6.1	2.2	0.37	0.84
HLP-C1000D7521	1×200-240V50/60Hz	11.6	4.2	0.75	0.84
HLP-C10001D521	1×200-240V50/60Hz	18.7	6.8	1.5	0.84
HLP-C1000D3723	3×200-240V50/60Hz	3.5	2.2	0.37	0.84
HLP-C1000D7523	3×200-240V50/60Hz	6.7	4.2	0.75	0.84
HLP-C10001D523	3×200-240V50/60Hz	10.9	6.8	1.5	0.84
HLP-C1000D7543	3×380-440V50/60Hz	3.5	2.2	0.75	0.84
	3×440-480V50/60Hz	3.0	2.1		
HLP-C10001D543	3×380-440V50/60Hz	5.9	3.7	1.5	0.84
	3×440-480V50/60Hz	5.1	3.4		
HLP-C10002D243	3×380-440V50/60Hz	8.5	5.3	2.2	0.84
	3×440-480V50/60Hz	7.3	4.8		



Voltage & Power (kW)			Dimensions (mm)					
1x200-240V	3x200-240V	3x380-480V	W	H	D	W1	H1	d
0.37-1.5	0.37-1.5	0.75-2.2	85	150	127	74	130	5

## Derating Specifications

**Derating for ambient temperature:** If the drive is operated over 40°C ambient temperature, the continuous output current should be decreased. The drive has been designed for operation at max 50°C ambient temperature with one motor size smaller than normal. Continuous operation at full load at 50°C ambient temperature will reduce the lifetime of the drive.

**Derating for low air pressure:** The cooling capability of air is decreased at low air pressure. Below 1000m altitude no de-rating is necessary but above 1000m the ambient temperature or the maximum output current should be decreased. Decrease the output by 1% per 100m altitude above 1000m or reduce the max. ambient temperature by 1 degree per 200m.