ENGINEERING TOMORROW

HOLIP®

Holip Frequency Converter

Product Catalogue

HOLIP® ENGINEERING TOMORROW

Zhejiang Holip Electronic Technology Co., Ltd.

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Our Aspiration :

We are engineering tomorrow.
We passionately push boundaries
on results and reputation.

Company Profile

Founded in 2001, Zhejiang Holip Electronic Technology Co. Ltd.(Holip short for) was acquired by Danfoss in 2005 and became member of the Danfoss Group ever since.

Established in 1933, Danfoss is one of the largest multinational industrial manufacturing company in Denmark. As a global leader in refrigeration & air conditioning, heating & water processing and power electronics, Danfoss also sets industry standards for its reliability, excellence and innovation, and keeps striving for the best in customer satisfaction and solution in the climate & energy industry.

Holip has been devoted to frequency converters' research, design, manufacturing , marketing and service for more than a decade, meanwhile it is the sole enterprise which owns Provincial Inverter R&D Center in China. Nowadays, Holip is one of the largest frequency converter manufacturers in China.

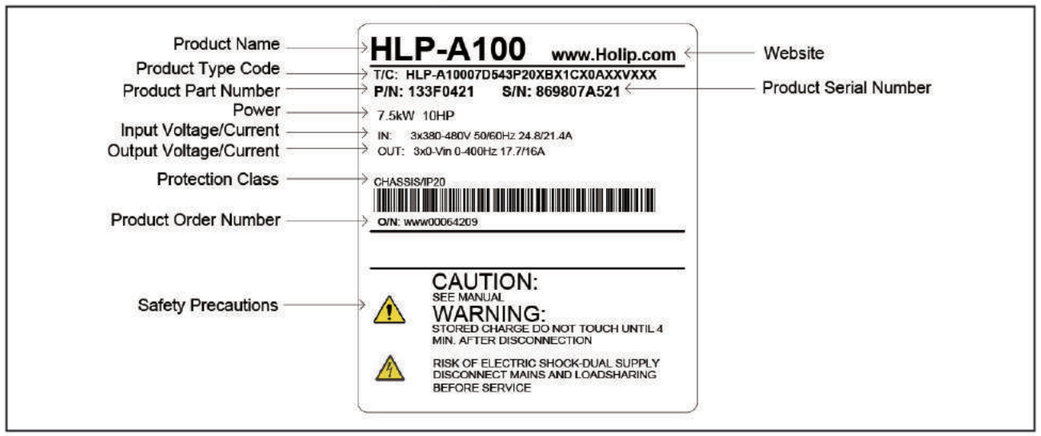
Our products, known as HLP series frequency converter, have been widely used in various industries such as air compressors, chemical fibers, textiles, printing and dyeing, plastics, lighting, steel, paper, chemicals, machines and cranes,etc. Holip has always dedicated itself to providing high quality products, professional sales and efficient and reliable service. Every single converter must go through strict quality tests, such as high temperature tests and full load tests before delivery. Holip frequency converter has been listed in "National Key New Product" , "National Torch Plan Projects", and honored with "Zhejiang Famous Brand", "Industry Most Popular Product", "National Most Competitive Products".

To fully implement business strategy of Danfoss China--2nd Home Market (first proposed in 2005, revised & consolidated in 2015), Holip, as part of Danfoss China, also has made key action plans such as optimizing product performance and fastening the development of new products, improving the competences of salesforce, optimizing the structure of product cost and so on. Nowadays, Holip has become the manufacture and logistics center of Danfoss Drives Segment in the Asian-Pacific region; and the Danfoss factory in Haiyan, known as Haiyan Campus, has become the globally largest factory area of Danfoss , with annual yield of over 3,000,000 units.

Contents

Label Description

■ Holip products' nameplate has the following form:



■ Significance of the product type code:

T/C: HLP-A10007D543P20XBX1CX0AXXVXXX

1 2 3 4 5 6 7 8 9 10 11 12 13 14

No.	Code	Significance
1	HLP-A100	Indicate Product Series
2	07D5	Indicate 7.5KW
3	21	Indicate 1-Phase AC 220V
	23	Indicate 3-Phase AC 220V
	43	Indicate 3-Phase AC 380V
4	P20	Indicate IP rating is 20
5	X	Without AC choke
	A	With AC choke
6	X	Without Brake unit
	B	With Brake unit
7	X	Without DC choke
	D	With DC choke
8	1	Control panel with LED display and potentiometer
9	C	With coating on PCB
10	X	Reserved
11	0	Domestic sale
	1	Overseas sale
12	A	Hardware distinction code
13	XX	Reserved
14	VXXX	Indicate software version, such as V235 means the version number is 2.35

■ Different product series has different hardware distinction code meaning, seen as follows:

Product series	Code	Significance
HLP-A100	A	Basic IO board
	B	Advanced IO board
HLP-C100	A	Without RS485
	B	With RS485
HLP-SP110	A	Basic IO board
	B	Advanced IO board

HLP–A100 Series General Vector Drive

Product Brief

HLP-A100 series is Holip new generation of general vector drive, with high reliability, high environmental adaptability, excellent user friendliness and excellent control performance features. It can be widely applied to many industries such as plastics, textiles, machine tools, food packaging, chemicals, printing, building materials, stone, wire drawing, glass, ball mills, environmental, overloading fan machinery, etc.

Technical Features

High Reliability

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

High Environmental Adaptability

- Independent wind way design;
- PCBA 100% coating coverage;
- Wide tooth pitch radiator;
- Easy cleaning and replacement fan;
- Provide IP5X options;
- Wide voltage range;
- High adaptability EMC characteristics;
- RFI switch;
- ≥37kW models built-in DC choke;
- Intelligent heating management system;

Excellent User Friendliness

- Easy operation;
- IO board customization;
- Smaller size;
- Multiple installation mode;

Excellent Control Performance

AC 1PH 200V(-20%)~240V(+10%) 0.37~3.7kW
AC 3PH 200V(-20%)~240V(+10%) 0.37~3.7kW
AC 3PH 380V(-20%)~480V(+10%) 0.75~415kW

Technical 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	V/F : 0-400Hz , VVC+: 0-200Hz;
Main control functions	Control mode	V/F, VVC+;
	Start torque	0.5Hz 150%;
	Overload capacity	150% 60s, 200% 1s;
	PWM switch frequency	2~16kHz;
	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 4-speed steps ramp up and down times 0.05-3600.00s;

Item		Specification
Basic Functions		Speed Open-loop Control; Process Closed-loop Control; Torque Open-loop Control; AMA Function; Motor Magnetisation; Slip Compensation; Torque compensation; Automatic Voltage Regulation; V/F Control, DC Brake; AC brake; Speed Limit; Current Limit; Flying Start; Reset Function; Counter; Timer;
Application Functions		Wobble Function; Jogging; Multi-speed Control via Digital input; SLC(including Order Control and Parallel Control); Mechanical Braking; UP/DOWN ; Catch up /Slow down; Relative Scaling Reference etc.
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; Motor Thermal Protection; Live Zero Timeout Function; AMA Fails; CPU Fault; EEPROM Faults; Button freeze; Duplicate Fails; LCP Invalid; LCP Incompatible; Parameter Read-only; Reference Out of Range; Invalid While Running etc.
Advanced IO board control terminals	Input	6 digital inputs (1 supports pulse input, pulse range: 1Hz~100kHz); 2 analog input, both can receive voltage or current signals.
	Output	2 digital output (1 supports pulse output, pulse range: 1Hz~100kHz); 2 relay output; 2 analog input (1 can be selected as current output or voltage output via jumper switch).
	Power supply	1 +10V, max current output 10mA; 1 24V, max current output 200mA;
	Communication	RS+, RS-, max baud rate 115200bit/s;
Basic IO board control terminals	Input	5 digital inputs; 1 analog input, it can receive voltage or current signals.
	Output	1 digital output; 1 relay output; 1 analog input; it can be selected as current output or voltage output via jumper switch.
	Power supply	1 +10V, max current output 10mA;
	Communication	RS+, RS-, max baud rate 115200bit/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℃~50℃, derating use when over 40℃;
	Humidity	5%-85% (95% without condensation);
	Vibration test	≤75kW: 1.14g; ≥90kW: 0.7g;
	Max. altitude above sea level	1000m, derating use when more than 1000 meters;
	Motor cable length	Shield cable: 50 meters; Unshield cable: 100 meters;
Others	DC choke	≥37kW Built-in
	Braking unit	≤22kW Built-in

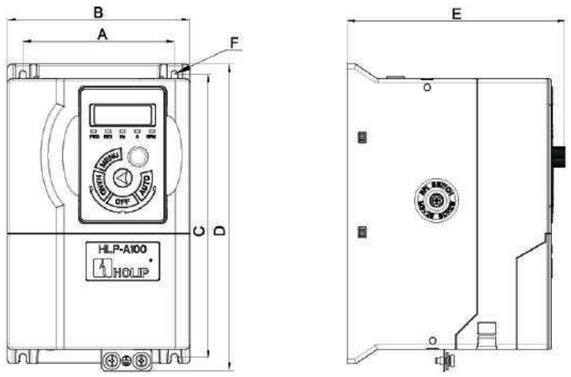
Particular Specifications

Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-A1000D3721	1×200-240V50/60Hz	7	2.5	0.37	0.37	1.3
HLP-A1000D7521	1×200-240V50/60Hz	13.9	5	0.75	0.75	1.3
HLP-A10001D521	1×200-240V50/60Hz	20.6	7.5	1.5	1.5	1.3
HLP-A10002D221	1×200-240V50/60Hz	30.4	11	2.2	2.2	1.3
HLP-A10003D721	1×200-240V50/60Hz	49.7	17	3.7	3.7	2
HLP-A1000D3723	3×200-240V50/60Hz	4	2.5	0.37	0.37	1.3
HLP-A1000D7523	3×200-240V50/60Hz	8	5	0.75	0.75	1.3
HLP-A10001D523	3×200-240V50/60Hz	12	7.5	1.5	1.5	1.3
HLP-A10002D223	3×200-240V50/60Hz	17.7	11	2.2	2.2	1.3
HLP-A10003D723	3×200-240V50/60Hz	27.2	17	3.7	3.7	2
HLP-A1000D7543	3×380-440V50/60Hz	3.7	2.3	0.75	0.75	1.3
	3×440-480V50/60Hz	3.2	2.1			
HLP-A10001D543	3×380-440V50/60Hz	6.4	4	1.5	1.5	1.3
	3×440-480V50/60Hz	5.5	3.6			
HLP-A10002D243	3×380-440V50/60Hz	8.9	5.6	2.2	2.2	1.3
	3×440-480V50/60Hz	7.7	5.1			
HLP-A10004D043	3×380-440V50/60Hz	15.8	9.9	4.0	4.0	2
	3×440-480V50/60Hz	13.6	9			
HLP-A10005D543	3×380-440V50/60Hz	21.3	13.3	5.5	5.5	2
	3×440-480V50/60Hz	18.4	12.1			
HLP-A10007D543	3×380-440V50/60Hz	28.3	17.7	7.5	7.5	2.5
	3×440-480V50/60Hz	24.4	16.1			
HLP-A100001143	3×380-440V50/60Hz	35.9	25	11	11	5.8
	3×440-480V50/60Hz	31.4	22.7			
HLP-A100001543	3×380-440V50/60Hz	43.4	32	15	15	5.8
	3×440-480V50/60Hz	38.8	29.1			
HLP-A10018D543	3×380-440V50/60Hz	51.5	38	18.5	18.5	8
	3×440-480V50/60Hz	46.1	34.5			
HLP-A100002243	3×380-440V50/60Hz	61.0	45	22	22	8
	3×440-480V50/60Hz	54.5	40.9			
HLP-A100003043	3×380-440V50/60Hz	73	61	30	30	19
	3×440-480V50/60Hz	64	52			
HLP-A100003743	3×380-440V50/60Hz	72	75	37	37	22
	3×440-480V50/60Hz	65	68			
HLP-A100004543	3×380-440V50/60Hz	86	91	45	45	26
	3×440-480V50/60Hz	80	82			
HLP-A100005543	3×380-440V50/60Hz	110	112	55	55	26
	3×440-480V50/60Hz	108	110			
HLP-A100007543	3×380-440V50/60Hz	148	150	75	75	37
	3×440-480V50/60Hz	135	140			
HLP-A100009043	3×380-440V50/60Hz	175	180	90	90	60
	3×440-480V50/60Hz	154	160			
HLP-A100011043	3×380-440V50/60Hz	206	215	110	110	60
	3×440-480V50/60Hz	183	190			
HLP-A100013243	3×380-440V50/60Hz	251	260	132	132	60
	3×440-480V50/60Hz	231	240			
HLP-A100016043	3×380-440V50/60Hz	304	315	160	160	99
	3×440-480V50/60Hz	291	302			
HLP-A100018543	3×380-440V50/60Hz	350	365	185	185	99
	3×440-480V50/60Hz	320	335			

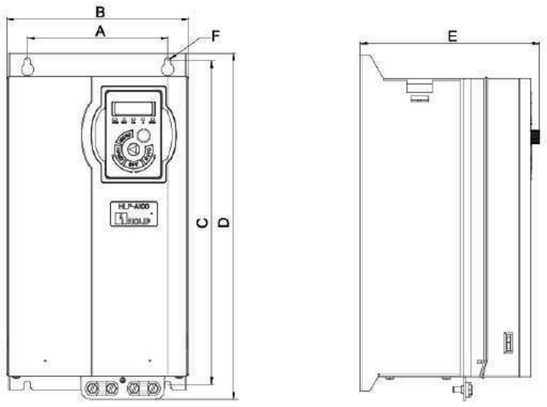
Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-A100020043	3×380-440V50/60Hz	381	395	200	200	99
	3×440-480V50/60Hz	348	361			
HLP-A100022043	3×380-440V50/60Hz	420	435	220	220	99
	3×440-480V50/60Hz	383	398			
HLP-A100025043	3×380-440V50/60Hz	472	480	250	250	250
	3×440-480V50/60Hz	436	443			
HLP-A100028043	3×380-440V50/60Hz	525	540	280	280	250
	3×440-480V50/60Hz	475	490			
HLP-A100031543	3×380-440V50/60Hz	590	605	315	315	250
	3×440-480V50/60Hz	531	540			
HLP-A100035543	3×380-440V50/60Hz	647	660	355	355	250
	3×440-480V50/60Hz	580	590			
HLP-A100041543	3×380-440V50/60Hz	718	745	415	415	250
	3×440-480V50/60Hz	653	678			

External and Installation Dimensions

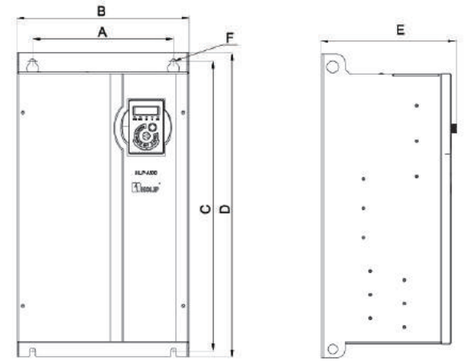
■ Single/Three phase 220V 0.37~3.7kW and Three phase 380V 0.75~7.5kW



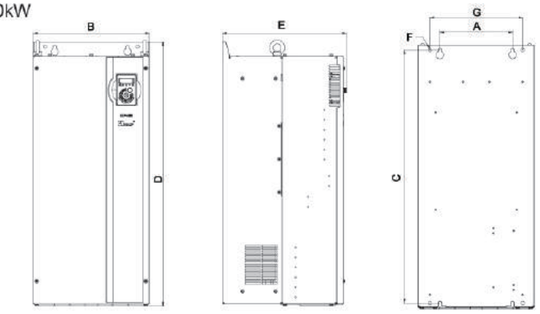
■ Three phase 380V 11~22kW



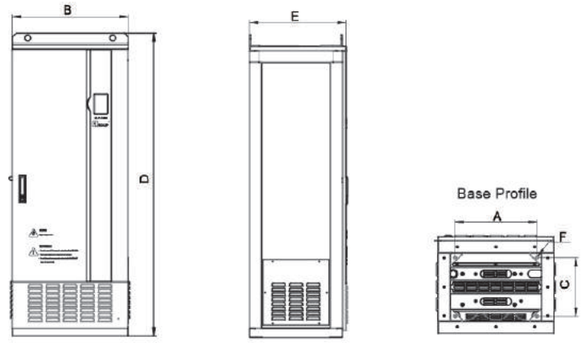
■ Three phase 380V 30~75kW



■ Three phase 380V 90~220kW



■ Three phase 380V 250~415kW



Voltage and Power			Dimensions (mm)						
1×200-240V	3×200-240V	3×380-480V	A	B	C	D	E	F	G
0.37-1.5kW	0.37-1.5kW	0.75-2.2kW	104	125	194	210	150	4.5	-
2.2-3.7kW	2.2-3.7kW	4.0-5.5kW	124	145	230	250	165	4.5	-
-	-	7.5kW	133	155	243	263	175	4.5	-
-	-	11-15kW	148	192	340	365	189	6.5	-
-	-	18.5-22kW	150	214	395	420	194	6.5	-
-	-	30-37kW	240	292	492	517	229	9	-
-	-	45-55kW	240	292	537	562	249	9	-
-	-	75kW	240	292	640	665	277	9	-
-	-	90-132kW	220	350	765	799	375	10.5	280
-	-	160-220kW	345	486	863	900	390	10.5	410
-	-	250-415kW	424	600	304	1560	500	15	-

HLP-C100 Series Mini Vector Drive

Product Brief

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.

Technical Features

- Use advanced thermal simulation technology, with a compact size, saving installation space;
- Independent wind way and easy replacement fan design;
- Wide voltage range;
- Use high-quality incremental potentiometer;
- Different speed with different ramp time;
- RFI switch;
- One key to restore user parameters;
- PCBA 100% coating coverage;
- Use standard Modbus protocol, easy to compose centralized control system;

AC 1PH 200V(-20%)~240V(+10%) 0.37~1.5kW
AC 3PH 200V(-20%)~240V(+10%) 0.37~1.5kW
AC 3PH 380V(-20%)~480V(+10%) 0.75~2.2kW

Technical 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;
	Control mode	V/F, VVC+;
	Start torque	0.5Hz 150%;
	Overload capacity	150% 60s;
	PWM switch frequency	2~16kHz;
	Speed setting resolution	Digital: 0.001Hz; Analogy: 0.5‰ of the max. operating frequency ;

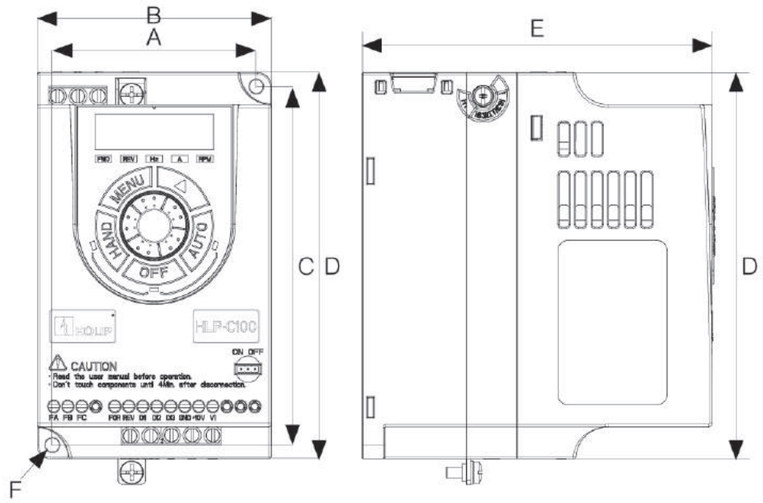
Item		Specification
Main control functions	Speed open-loop control accuracy	30~4000 rpm: tolerance±8 rpm;
	Control command source	LCP, digital terminal, local bus;
	Frequency setting source	LCP, analog, pulse, local bus;
	Ramp control	Selectable 8 ramp up and down times 0.05-300.00s;
Basic Functions	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.	
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℃~50℃, derating use when over 40℃;
	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

* Version B has RS+, RS- and COM terminal;

Particular Specifications

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

External and Installation Dimensions



Voltage and Power			Dimensions (mm)					
1×200-240V	3×200-240V	3×380-480V	A	B	C	D	E	F
0.37-1.5kW	0.37-1.5kW	0.75-2.2kW	74	85	130	140	127	5

HLP-B Series High Performance Vector Drive

Product Brief

HLP-B series is Holip new generation of high performance, multifunction vector drive based on Danfoss technology platform. It has four control modes: speed open-loop, speed closed-loop, process closed-loop and torque open-loop, can be widely applied to speed control of induction motors and synchronous motors. It has wobble, cascade and winder application functions. In order to meet different customer needs, HLP-B series provide a wealth of expansion cards.

Technical Features

- Use high-performance vector control algorithms, it has high speed precision and fast response;
- Suitable for both asynchronous and synchronous motors speed control;
- Book-type design, side by side mounting saves the user installation space;
- Built-in simple PLC controller can achieve a variety of logic control;
- Auto Energy optimization, automatically adjusts the drive output power according to the load to save energy;
- ≥18.5kW models built-in DC choke, effectively suppress harmonic current disturbance;
- ≥30kW models dual capacity design;
- Rich peripheral expansion card (IO expansion card, Copy card, PG card and CANopen card);

AC 1PH 200V(-10%)~240V(+10%) 0.37~2.2kW
AC 3PH 200V(-10%)~240V(+10%) 0.37~3.7kW
AC 3PH 380V(-10%)~480V(+10%) 0.75~75kW

Technical Specifications

Item		Specification
Power supply	Supply voltage	Single/three phase 200~240V -10%~+10%; Three phase 380~480V -10%~+10%;
	Frequency	48~62Hz;
	Max. imbalance	3%;
Motor output	Output voltage	Three phase 0-100% of supply voltage;
	Output frequency	V/F : 0-400Hz , VVC+: 0-200Hz;
	Control mode	V/F, VVC+;
	Start torque	0.5Hz 150%;
	Overload capacity	150% 60s, 180% 1s;
	PWM switch frequency	2~16kHz;
	Speed setting resolution	Digital: 0.001Hz; Analogy: 0.5‰ of the max. operating frequency ;

Item		Specification
Main control functions	Speed open-loop control accuracy	30~4000 rpm: tolerance±8 rpm;
	Speed closed-loop control accuracy	0~6000 rpm: tolerance ±0.15 rpm;
	Control command source	LCP, digital terminal, local bus;
	Frequency setting source	LCP, analog, pulse, local bus;
	Ramp control	Selectable 4-speed steps ramp up and down times 0.05-3600.00s;
Basic Functions	Speed Open-loop Control; Speed Closed-loop Control; Process Closed-loop Control; Torque Open-loop Control; AMA Function; Motor Magnetisation; Slip Compensation; Torque compensation; Automatic Voltage Regulation; V/F Control, DC Brake; AC brake; Speed Limit; Current Limit; Flying Start; Reset Function; Counter;	
Application Functions	Wobble; Cascade; Winder; Jogging; Multi-speed Control via Digital input; SLC(including Order Control and Parallel Control); Mechanical Braking; UP/DOWN ; Catch up /Slow down; Relative Scaling Reference etc.	
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; Motor Thermal Protection; Live Zero Timeout Function; AMA Fails; CPU Fault; EEPROM Faults; Button freeze; Duplicate Fails; LCP Invalid; LCP Incompatible; Parameter Read-only; Reference Out of Range; Invalid While Running etc.	
IO board control terminals	Input	6 digital inputs (1 supports pulse input, pulse range: 1Hz~50kHz); 2 analog input, both can receive voltage or current signals.
	Output	2 digital output (1 supports pulse output, pulse range: 1Hz~50kHz); 2 relay output; 2 analog input (1 can be selected as current output or voltage output via jumper switch).
	Power supply	1 +10V, max current output 25mA; 1 +24V, max current output 50mA;
	Communication	RS+, RS-, max baud rate 115200bit/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℃~50℃, derating use when over 40℃;
	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	≥18.5kW Built-in
	Braking unit	≤22kW Built-in

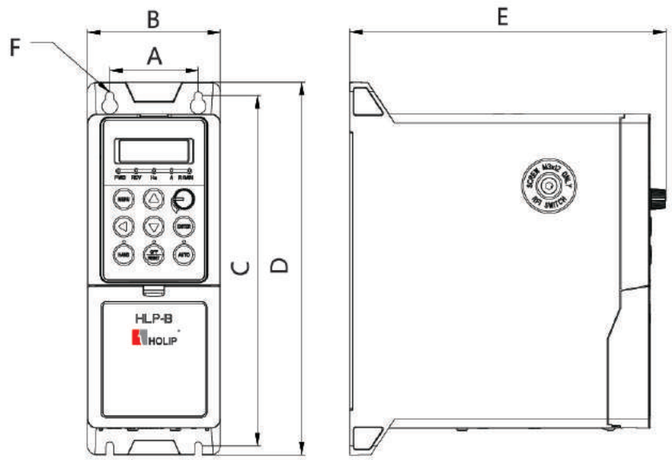
Particular Specifications

Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-B0D3721	1×200-240V50/60Hz	6.1	2.2	0.37	0.37	1.72
HLP-B0D7521	1×200-240V50/60Hz	11.6	4.2	0.75	0.75	1.72
HLP-B01D521	1×200-240V50/60Hz	18.7	6.8	1.5	1.5	1.74
HLP-B02D221	1×200-240V50/60Hz	26.4	9.6	2.2	2.2	3.2
HLP-B0D3723	3×200-240V50/60Hz	3.5	2.2	0.37	0.37	1.72
HLP-B0D7523	3×200-240V50/60Hz	6.7	4.2	0.75	0.75	1.74
HLP-B01D523	3×200-240V50/60Hz	10.9	6.8	1.5	1.5	1.74
HLP-B02D223	3×200-240V50/60Hz	15.4	9.6	2.2	2.2	3.24
HLP-B03D723	3×200-240V50/60Hz	24.3	15.2	3.7	3.7	3.28
HLP-B0D7543	3×380-440V50/60Hz	3.5	2.2	0.75	0.75	1.68
	3×440-480V50/60Hz	3.0	2.1			
HLP-B01D543	3×380-440V50/60Hz	5.9	3.7	1.5	1.5	1.74
	3×440-480V50/60Hz	5.1	3.4			
HLP-B02D243	3×380-440V50/60Hz	8.5	5.3	2.2	2.2	1.78
	3×440-480V50/60Hz	7.3	4.8			
HLP-B04D043	3×380-440V50/60Hz	14.4	9.0	4	4	3.32
	3×440-480V50/60Hz	12.4	8.2			
HLP-B05D543	3×380-440V50/60Hz	19.2	12.0	5.5	5.5	3.46
	3×440-480V50/60Hz	16.6	11.0			
HLP-B07D543	3×380-440V50/60Hz	24.8	15.5	7.5	7.5	3.52
	3×440-480V50/60Hz	21.4	14.0			
HLP-B001143	3×380-440V50/60Hz	33.0	23.0	11	11	5.92
	3×440-480V50/60Hz	29.0	21.0			
HLP-B001543	3×380-440V50/60Hz	42.0	31.0	15	15	
	3×440-480V50/60Hz	36.0	27.0			
HLP-B18D543	3×380-440V50/60Hz	34.7	37.0	18.5	18.5	9.94
	3×440-480V50/60Hz	31.5	34.0			
HLP-B002243	3×380-440V50/60Hz	41.2	43.0	22	22	
	3×440-480V50/60Hz	37.5	40.0			

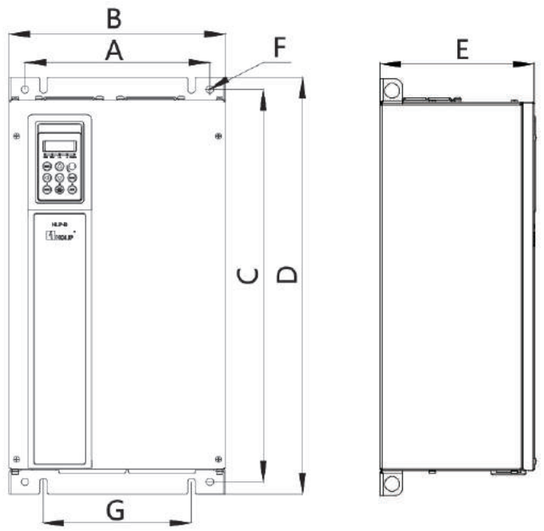
Model	Load	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-B003043	HO	3×380-440V50/60HZ	57	61	30	30	25.4
		3×440-480V50/60HZ	46	52			
	NO	3×380-440V50/60HZ	70	73	37	37	25.4
		3×440-480V50/60HZ	57	65			
HLP-B003743	HO	3×380-440V50/60HZ	70	73	37	37	25.4
		3×440-480V50/60HZ	57	65			
	NO	3×380-440V50/60HZ	84	90	45	45	25.4
		3×440-480V50/60HZ	68	80			
HLP-B004543	HO	3×380-440V50/60HZ	84	90	45	45	50
		3×440-480V50/60HZ	68	80			
	NO	3×380-440V50/60HZ	103	106	55	55	50
		3×440-480V50/60HZ	83	105			
HLP-B005543	HO	3×380-440V50/60HZ	103	106	55	55	50
		3×440-480V50/60HZ	83	105			
	NO	3×380-440V50/60HZ	140	147	75	75	50
		3×440-480V50/60HZ	113	130			
HLP-B007543	HO	3×380-440V50/60HZ	140	147	75	75	50
		3×440-480V50/60HZ	113	130			
	NO	3×380-440V50/60HZ	166	177	90	90	50
		3×440-480V50/60HZ	133	160			

External and Installation Dimensions

- Single/Three phase 220V 0.37~2.2kW, Three phase 220V 0.37~3.7kW and Three phase 380V 0.75~22kW



- Three phase 380V 30~75kW



Voltage and Power			Dimensions (mm)						
1×200-240V	3×200-240V	3×380-480V	A	B	C	D	E	F	G
0.37-1.5kW	0.37-1.5kW	0.75-2.2kW	50	75	198	210	176	4.5	-
2.2kW	2.2-3.7kW	4.0-7.5kW	65	90	241	255	210	4.5	-
-	-	11-15kW	91	125	275	295	260	5.5	-
-	-	18.5-22kW	120	150	313	335	262	7	-
-	-	30-37kW	250	292	500	530	210	10	200
-	-	45-75kW	280	330	630	680	300	10.5	215

HLP–NV Series Multifunction Vector Drive

Product Brief

HLP-NV series drive is for the light industrial machinery market. Although its volume is small, but it has good performance and high reliability, coupled with a good user interface and sophisticated shape. It will bring you unexpected results.

Technical Features

- Use vector control algorithms, has high torque at low speed;
- Book-type design, side by side mounting saves the user installation space;
- Compact, beautiful appearance;
- Built-in electronic terminal relay (ETR);
- ≥1.5kW models built-in breaking unit;
- Built-in simple PLC controller can achieve a variety of logic control;

AC 1PH 200V(-10%)~240V(+10%) 0.18~2.2kW
AC 3PH 200V(-10%)~240V(+10%) 0.25~3.7kW
AC 3PH 380V(-10%)~480V(+10%) 0.37~22kW

Technical Specifications

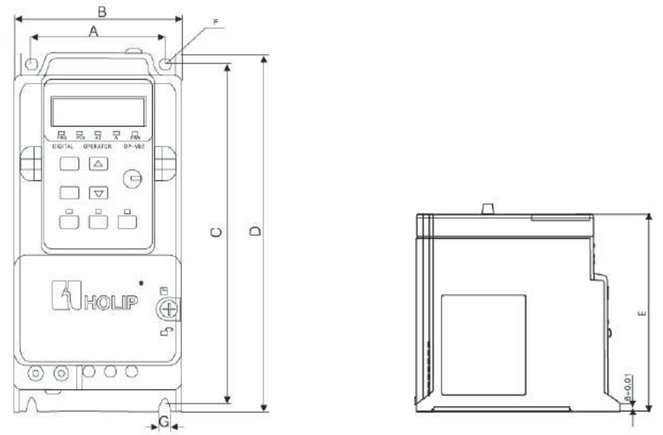
Item		Specification
Power supply	Supply voltage	Single/three phase 200~240V -10%~+10%; Three phase 380~480V -10%~+10%;
	Frequency	48~62Hz;
	Max. imbalance	3%;
Motor output	Output voltage	Three phase 0-100% of supply voltage;
	Output frequency	V/F : 0-400Hz , VVC+: 0-200Hz;
	Control mode	V/F, VVC+;
	Start torque	0.5Hz 150%;
	Overload capacity	150% 60s;
	PWM switch frequency	2~16kHz;
	Speed setting resolution	Digital: 0.01Hz; Analogy: 0.1% of the max. operating frequency ;

Item		Specification
Main control functions	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 4-speed steps ramp up and down times 0.05-3600.00s;
Basic Functions	Speed Open-loop Control; Process Closed-loop Control; AMT Function; Motor Magnetisation; Slip Compensation; Torque compensation; Automatic Voltage Regulation; V/F Control, DC Brake; AC brake; Speed Limit; Current Limit; Flying Start; Reset Function;	
Application Functions	Jogging; Multi-speed Control via Digital input; SLC(including Order Control and Parallel Control); Mechanical Braking; UP/DOWN ; Catch up /Slow down; Relative Scaling Reference etc.	
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; Motor Thermal Protection; Live Zero Timeout Function; AMT Fails; CPU Fault; EEPROM Faults; Button freeze; Duplicate Fails; LCP Invalid; LCP Incompatible; Parameter Read-only; Reference Out of Range; Invalid While Running etc.	
Advanced IO board control terminals	Input	5 digital inputs (1 supports pulse input, pulse range: 20Hz~5kHz); 1 analog input, both can receive voltage or current signals.
	Output	1 relay output; 1 analog input (only supports current output).
	Power supply	1 +10V, max current output 15mA; 1 +24V, max current output 130mA;
	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℃~50℃, derating use when over 40℃;
	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	≥18.5kW Built-in
	Braking unit	≥1.5kW Built-in

Particular Specifications

Model	Input voltage	Rated power /kW	Output current /A	Suitable motor /kW
HLPNV0D1821A	1×200-240V 50/60Hz	0.18	1.2	0.18
HLPNV0D3721A	1×200-240V 50/60Hz	0.37	2.2	0.37
HLPNV0D7521A	1×200-240V 50/60Hz	0.75	4.2	0.75
HLPNV1D521A	1×200-240V 50/60Hz	1.5	6.8	1.5
HLPNV1D221A	1×200-240V 50/60Hz	2.2	9.6	2.2
HLPNV0D2523A	3×200-240V 50/60Hz	0.25	1.5	0.25
HLPNV0D3723A	3×200-240V 50/60Hz	0.37	2.2	0.37
HLPNV0D7523A	3×200-240V 50/60Hz	0.75	4.2	0.75
HLPNV1D523A	3×200-240V 50/60Hz	1.5	6.8	1.5
HLPNV2D223A	3×200-240V 50/60Hz	2.2	9.6	2.2
HLPNV3D723A	3×200-240V 50/60Hz	3.7	15.2	3.7
HLPNV0D3743A	3×380-480V 50/60Hz	0.37	1.2	0.37
HLPNV0D7543A	3×380-480V 50/60Hz	0.75	2.2	0.75
HLPNV1D543A	3×380-480V 50/60Hz	1.5	3.7	1.5
HLPNV2D243A	3×380-480V 50/60Hz	2.2	5.3	2.2
HLPNV3D043A	3×380-480V 50/60Hz	3.0	7.2	3.0
HLPNV4D043A	3×380-480V 50/60Hz	4.0	9.0	4.0
HLPNV5D543A	3×380-480V 50/60Hz	5.5	12	5.5
HLPNV7D543A	3×380-480V 50/60Hz	7.5	15.5	7.5
HLPNV001143A	3×380-480V 50/60Hz	11.0	23.0	11.0
HLPNV001543A	3×380-480V 50/60Hz	15.0	31.0	15.0
HLPNV18D543A	3×380-480V 50/60Hz	18.0	37.0	18.0
HLPNV002243A	3×380-480V 50/60Hz	22.0	43.0	22.0

External and Installation Dimensions



Voltage and Power			Dimensions (mm)						
1×200-240V	3×200-240V	3×380-480V	A	B	C	D	E	F	G
0.18-0.75kW	0.25-0.75kW	0.37-0.75kW	56	70	151	160	150	4.5	4.5
1.5kW	1.5kW	1.5-2.2kW	61	75	178	186	170	4.5	4.5
2.2kW	2.2-3.7kW	3.0-7.5kW	76	90	230	239	196	4.5	4.5
-	-	11-15kW	97	125	273	292	243	7	7
-	-	18.5-22kW	137	165	316	335	252	7	7

HLP–SK190 – Special Air Compressor Drive

Product Brief

HLP-SK190 serial is a special compressor product. It is applied to synchronous motor field in compressor market;

Technical Features

- Apply to control induction motors and permanent magnet synchronous motors;
- Unique synchronous motor control algorithm, precise static Automatic Motor Adaption(AMA) function, to ensure the high performance of permanent magnet synchronous motor control;
- Completed compressor control craft, not only to fully meet the overall compressor process control requirements, but also greatly simplifies system design;
- Automatic load compensation feature to ensure the stability of air pressure when the load fluctuation;
- Wide voltage range;
- High adaptability EMC characteristics;
- ≥37kW models built-in DC choke, improve system efficiency;
- Simple operation menu, powerful monitoring capability;

AC 3PH 380V(-20%)~480V(+10%) 7.5~415kW

Technical Specifications

Item		Specification
Power supply	Supply voltage	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	V/F : 0-400Hz , VVC+: 0-200Hz;
	Control mode	V/F, VVC+;
	Start torque	0.5Hz 150%;
	Overload capacity	150% 60s, 200% 1s;
	PWM switch frequency	2~16kHz;
	Speed setting resolution	Digital: 0.001Hz; Analogy: 0.5‰ of the max. operating frequency ;

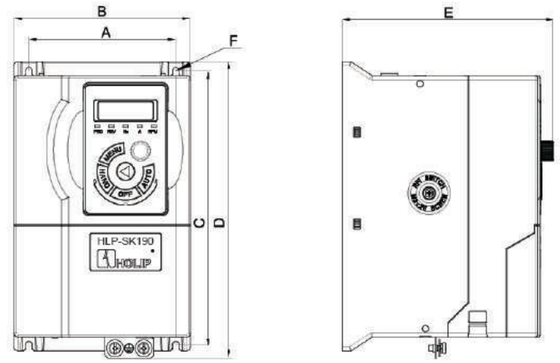
Item		Specification
Main control functions	Speed open-loop control accuracy	30~4000 rpm: tolerance±8 rpm;
	Control command source	LCP, digital terminal, local bus;
	Frequency setting source	LCP, analogue, local bus;
	Ramp control	Selectable 4-speed steps ramp up and down times 0.05-3600.00s;
Basic Functions	Speed Open-loop Control; Process Closed-loop Control; Torque Open-loop Control; AMA Function; Motor Magnetisation; Slip Compensation; Torque compensation; Automatic Voltage Regulation; V/F Control, DC Brake; AC brake; Speed Limit; Current Limit; Flying Start; Reset Function; Counter; Timer;	
Application Functions	Compressor control craft mode; Jogging; Multi-speed Control via Digital input; SLC(including Order Control and Parallel Control); Mechanical Braking; UP/DOWN ; Catch up /Slow down; Relative Scaling Reference etc.	
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; Motor Thermal Protection; Live Zero Timeout Function; AMA Fails; CPU Fault; EEPROM Faults; Button freeze; Duplicate Fails; LCP Invalid; LCP Incompatible; Parameter Read-only; Reference Out of Range; Invalid While Running etc.	
IO board control terminals	Input	6 digital inputs ; 2 analogue input, both can receive voltage or current signals.
	Output	2 digital output ; 2 relay output; 2 analogue output (1 can be selected as current output or voltage output via jumper switch).
	Power supply	1 +10V, max current output 10mA; 1 24V, max current output 200mA;
	Communication	RS+, RS-, max baud rate 115200bit/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℃~50℃, derating use when over 40℃;
	Humidity	5%-85% (95% without condensation);
	Vibration test	≤75kW: 1.14g; ≥90kW: 0.7g;
	Max. altitude above sea level	1000m, derating use when more than 1000 meters;
	Motor cable length	Shield cable: 50 meters, Non shield cable: 100 meters;
others	DC choke	≥37kW Built-in
	Braking unit	≤22kW Built-in

Particular Specifications

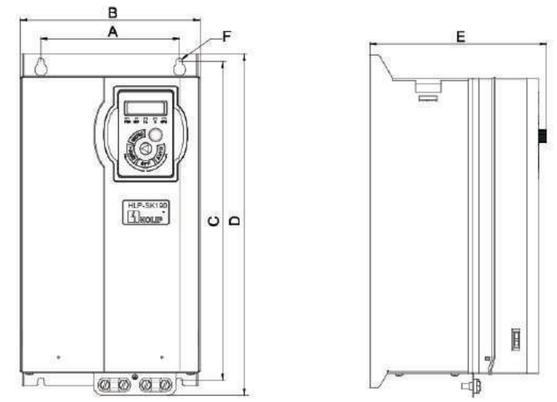
Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-SK19007D543	3×380-440V50/60Hz	28.3	17.7	7.5	7.5	2.5
	3×440-480V50/60Hz	24.4	16.1			
HLP-SK190001143	3×380-440V50/60Hz	35.9	25	11	11	5.8
	3×440-480V50/60Hz	31.4	22.7			
HLP-SK190001543	3×380-440V50/60Hz	43.4	32	15	15	5.8
	3×440-480V50/60Hz	38.8	29.1			
HLP-SK19018D543	3×380-440V50/60Hz	51.5	38	18.5	18.5	8
	3×440-480V50/60Hz	46.1	34.5			
HLP-SK190002243	3×380-440V50/60Hz	61.0	45	22	22	8
	3×440-480V50/60Hz	54.5	40.9			
HLP-SK190003043	3×380-440V50/60Hz	73	61	30	30	19
	3×440-480V50/60Hz	64	52			
HLP-SK190003743	3×380-440V50/60Hz	72	75	37	37	22
	3×440-480V50/60Hz	65	68			
HLP-SK190004543	3×380-440V50/60Hz	86	91	45	45	26
	3×440-480V50/60Hz	80	82			
HLP-SK190005543	3×380-440V50/60Hz	110	112	55	55	26
	3×440-480V50/60Hz	108	110			
HLP-SK190007543	3×380-440V50/60Hz	148	150	75	75	37
	3×440-480V50/60Hz	135	140			
HLP-SK190009043	3×380-440V50/60Hz	175	180	90	90	60
	3×440-480V50/60Hz	154	160			
HLP-SK190011043	3×380-440V50/60Hz	206	215	110	110	60
	3×440-480V50/60Hz	183	190			
HLP-SK190013243	3×380-440V50/60Hz	251	260	132	132	60
	3×440-480V50/60Hz	231	240			
HLP-SK190016043	3×380-440V50/60Hz	304	315	160	160	99
	3×440-480V50/60Hz	291	302			
HLP-SK190018543	3×380-440V50/60Hz	350	365	185	185	99
	3×440-480V50/60Hz	320	335			
HLP-SK190020043	3×380-440V50/60Hz	381	395	200	200	99
	3×440-480V50/60Hz	348	361			
HLP-SK190022043	3×380-440V50/60Hz	420	435	220	220	99
	3×440-480V50/60Hz	383	398			
HLP-SK190025043	3×380-440V50/60Hz	472	480	250	250	250
	3×440-480V50/60Hz	436	443			
HLP-SK190028043	3×380-440V50/60Hz	525	540	280	280	250
	3×440-480V50/60Hz	475	490			
HLP-SK190031543	3×380-440V50/60Hz	590	605	315	315	250
	3×440-480V50/60Hz	531	540			
HLP-SK190035543	3×380-440V50/60Hz	647	660	355	355	250
	3×440-480V50/60Hz	580	590			
HLP-SK190041543	3×380-440V50/60Hz	718	745	415	415	250
	3×440-480V50/60Hz	653	678			

External and Installation Dimensions

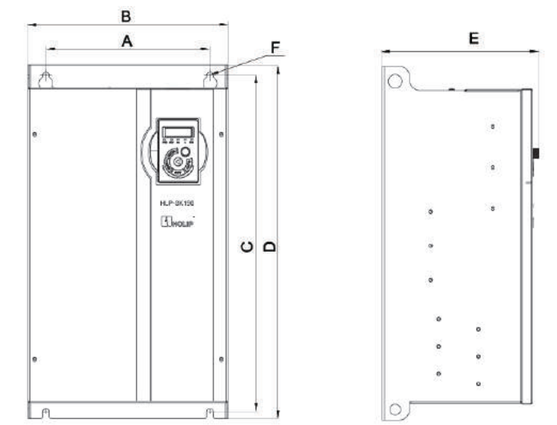
- Three phase 380V 7.5kW



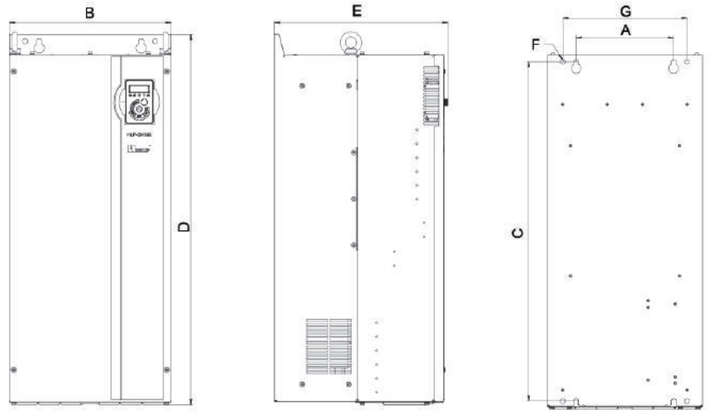
- Three phase 380V 11~22kW



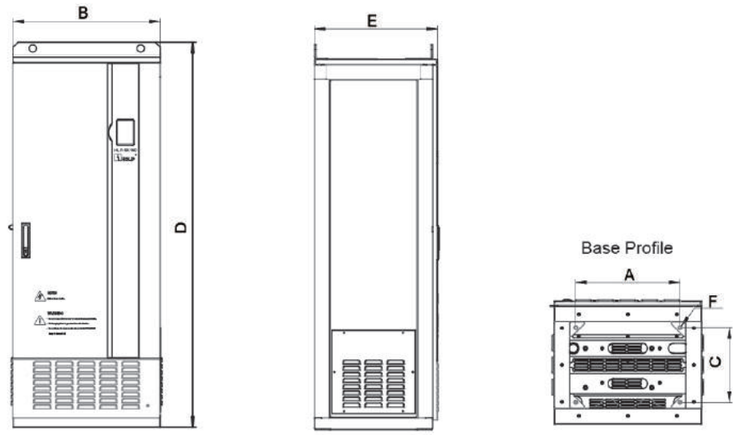
- Three phase 380V 30~75kW



■ Three phase 380V 90~220kW



■ Three phase 380V 250~415kW



Voltage and Power			Dimensions (mm)						
1×200-240V	3×200-240V	3×380-480V	A	B	C	D	E	F	G
-	-	7.5kW	133	155	243	263	175	4.5	-
-	-	11-15kW	148	192	340	365	189	6.5	-
-	-	18.5-22kW	150	214	395	420	194	6.5	-
-	-	30-37kW	240	292	492	517	229	9	-
-	-	45-55kW	240	292	537	562	249	9	-
-	-	75kW	240	292	640	665	277	9	-
-	-	90-132kW	220	350	765	799	375	10.5	280
-	-	160-220kW	345	486	863	900	390	10.5	410
-	-	250-415kW	424	600	304	1560	500	15	-

HLP–SK200 Air Compressor Dual Drive

Product Brief

HLP-SK200 serial is a air compressor dual drive. It is applied to new industry trend; The product will save cost for compressor customer.

Technical Features

Simply fixture, Simply connection, Simply debug, Simply maintenance

- Pluggable connection mode for signal terminal, and there are stay design, not the anti-plug;
- Control two difference power motor including fan motor and main motor;
- Support two fixture type including cabinet type and wall mounting type;

Save cost for electronic control system

- Support kinds of pressure and temperature signal, supply 220v power;
- Support connecting system on the air compressor;
- Save original external control system;

Pluralism of control mode for customer terminal

- Support internet remote control;
- Support parallel control for many air compressor systems;
- Support touch screen control;

Special craft control

- Built-in DC-choke for all power range to increasing total efficiency;
- Multichannel analogue input;
- Built-in compressor craft;
- Built-in synchronous motor control;
- Static automatic motor adaption function;

Main: AC 3PH 380V(-20%)~440V(+10%) 22~90kW
Fan: AC 3PH 380V(-20%)~440V(+10%) 1.5~5.5kW

Technical Specifications

Item		Specification
Power supply	Supply voltage	Three phase 380~440V -20%~+10%;
	Frequency	48~62Hz;
	Max. imbalance	3%;
Main Motor output	Output voltage	Three phase 0-100% of supply voltage;
	Output frequency	Three phase 0-100% of supply voltage;

Item		Specification
Fan Motor output	Output voltage	Three phase 0-100% of supply voltage;
	Output frequency	V/F: 0~400Hz; Vector: 0~200Hz
220v Power	Output voltage	220 ~250V(isolation power)
	Rated power	50VA
Main Frequency control function	Control mode	V/F, Vector control
	Start torque	0.5Hz 150%
	Overload capacity	150% 60s, 200% 1s;
	PWM switch frequency	2~16kHz;
	Speed setting resolution	Digital: 0.001Hz; Analogy: 0.5‰ of the max. operating frequency ;
	Control command source	LCP, digital terminal, local bus;
	Speed open-loop control accuracy	30~4000 rpm: tolerance±8 rpm;
Fan frequency control function	Control mode	V/F, Vector control
	Start torque	0.5Hz 150%
	Overload capacity	150% 60s, 200% 1s;
	PWM switch frequency	2~16kHz;
Basic function	Speed Open-loop Control; Process Closed-loop Control; AMA Function; Motor Magnetisation; Slip Compensation; Automatic Voltage Regulation; V/F Control, Speed Limit; Current Limit; Flying Start; Reset Function; Counter;	
Application function	Air Pressure control; Temperature control; Oil filter control; Many protection function; Air filter control; Oil separator control; Grease separator control; Lube control; Loading/unloading control; fan control; PID control; synchronous motor/ synchronous motor control	
IO board control terminal	Input terminal	6 digital inputs ; 5 analogue input, one can receive voltage or current signal; one only can receive current signal; other can receive PT100 signals, RI1 can receive PT1000 signal;
	Output terminal	2 relay output;
	Power terminal	1 24V, max current output 200mA;
	Communication terminal	2 communication, max baud rate 115200bit/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℃~50℃, derating use when over 40℃;
	Humidity	5%-85% (95% without condensation);
	Vibration test	≤75kW: 1.14g; ≥90kW: 0.7g;
	Max. altitude above sea level	1000m, derating use when more than 1000 meters;
	Motor cable length	Shield cable: 50 meters, Non shield cable: 100 meters;
Other	DC choke	Built-in

Particular Specifications

- Signal Specifications

Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-SK200002243	3×380-440V50/60Hz	45.5	45	22	22	17.5
HLP-SK200003743	3×380-440V50/60Hz	72	75	37	37	23.5
HLP-SK200004543	3×380-440V50/60Hz	86	91	45	45	29
HLP-SK200005543	3×380-440V50/60Hz	110	112	55	55	29
HLP-SK200007543	3×380-440V50/60Hz	148	150	75	75	41
HLP-SK200009043	3×380-440V50/60Hz	175	180	90	90	41

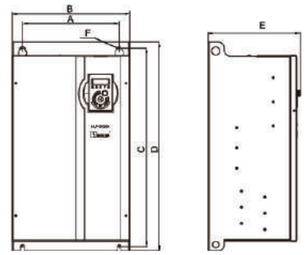
- Double Specifications

Model	Input voltage	Input current /A	Load	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-SK200002243	3×380-440V50/60Hz	48	Fan	4	1.5	≤1.5kW	17.5
			Main	45	22	22	
HLP-SK200003743		75	Fan	4	1.5	≤1.5kW	23.5
			Main	75	37	37	
HLP-SK200004543		90	Fan	5.3	2.2	≤2.2kW	29
			Main	91	45	45	
HLP-SK200005543		115	Fan	5.3	2.2	≤2.2kW	29
			Main	112	55	55	
HLP-SK200007543		158	Fan	12	5.5	≤5.5kW	41
			Main	150	75	75	
HLP-SK200009043		185	Fan	12	5.5	≤5.5kW	41
			Main	180	90	90	

External and Installation Dimensions

- Cabinet type

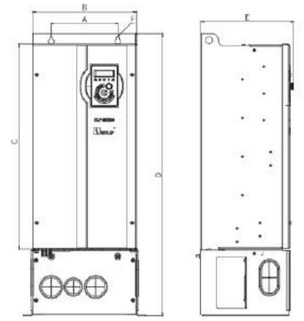
Model	A	B	C	D	E	F
HLP-SK200002243	150	234	491	509	210	7
HLP-SK200003743	240	292	574	599	229.4	9
HLP-SK200004543	240	292	625	650	249	9
HLP-SK200005543	240	292	625	650	249	9
HLP-SK200007543	240	292	717	742	277.3	9
HLP-SK200009043	240	292	717	742	277.3	9



Three phase 380V 22 ~90Kw

- Wall mounting type

Model	A	B	C	D	E	F
HLP-SK200002243	150	234	509	659	210	7
HLP-SK200003743	240	292	599	749	229.4	9
HLP-SK200004543	240	292	625	773.2	249	9
HLP-SK200005543	240	292	625	773.2	249	9
HLP-SK200007543	240	292	717	870.2	277.4	9
HLP-SK200009043	240	292	717	870.2	277.4	9



Three phase 380V 22 ~90Kw

HLP–SJ110 Series General Multifunction Drive

Product Brief

HLP-SJ110 series drive, based on the A100 platform, is developed for moderate loads, such as plastic machinery. The overload of 135% rated output current is 1min, 180% rated output current is 1s.

Technical Features

- Long life design;
- Independent wind way design;
- Wide voltage range;
- PCBA 100% coating coverage;
- ≥37kW models built-in DC choke;
- High adaptability EMC characteristics;
- Easy operation;

Technical Specifications

Item		Specification
Power supply	Supply voltage	Three phase 380~480V -20%~+10%;
	Frequency	48~62Hz;
	Max. imbalance	3%;
	Output voltage	Three phase 0-100% of supply voltage;
Motor output	Output frequency	V/F : 0-400Hz , VVC+: 0-200Hz;
	Control mode	V/F, VVC+;
Main control functions	Start torque	0.5Hz 150%;
	Overload capacity	135% 60s, 180% 1s;
	PWM switch frequency	2~16kHz;
	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, analogue, local bus;
	Ramp control	Selectable 4-speed steps ramp up and down times 0.05-3600.00s;

Item		Specification
Basic Functions		Speed Open-loop Control; Process Closed-loop Control; Torque Open-loop Control; AMA Function; Motor Magnetisation; Slip Compensation; Torque compensation; Automatic Voltage Regulation; V/F Control, DC Brake; AC brake; Speed Limit; Current Limit; Flying Start; Reset Function; Counter; Timer;
Application Functions		Wobble Function; Jogging; Multi-speed Control via Digital input; SLC(including Order Control and Parallel Control); Mechanical Braking; UP/DOWN ; Catch up /Slow down; Relative Scaling Reference etc.
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; Motor Thermal Protection; Live Zero Timeout Function; AMA Fails; CPU Fault; EEPROM Faults; Button freeze; Duplicate Fails; LCP Invalid; LCP Incompatible; Parameter Read-only; Reference Out of Range; Invalid While Running etc.
IO board control terminals	Input	6 digital inputs ; 2 analogue input, both can receive voltage or current signals.
	Output	2 digital output ; 2 relay output; 2 analogue output (1 can be selected as current output or voltage output via jumper switch).
	Power supply	1 +10V, max current output 10mA; 1 24V, max current output 200mA;
	Communication	RS+, RS-, max baud rate 115200bit/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℃~50℃, derating use when over 40℃;
	Humidity	5%-85% (95% without condensation);
	Vibration test	≤75kW: 1.14g; ≥90kW: 0.7g;
	Max. altitude above sea level	1000m, derating use when more than 1000 meters;
	Motor cable length	Shield cable: 50 meters, Non shield cable: 100 meters;
others	DC choke	≥37kW Built-in
	Braking unit	≤22kW Built-in

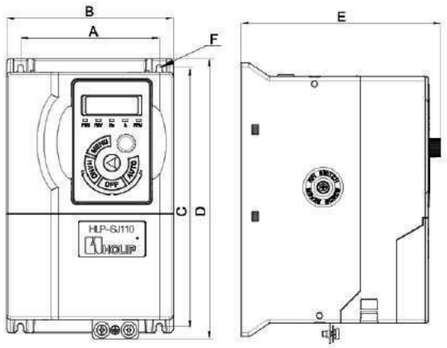
Particular Specifications

Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-SJ1100D7543	3×380-440V50/60Hz	3.7	2.3	0.75	0.75	1.3
	3×440-480V50/60Hz	3.2	2.1			
HLP-SJ11001D543	3×380-440V50/60Hz	6.4	4	1.5	1.5	1.3
	3×440-480V50/60Hz	5.5	3.6			
HLP-SJ11002D243	3×380-440V50/60Hz	8.9	5.6	2.2	2.2	1.3
	3×440-480V50/60Hz	7.7	5.1			

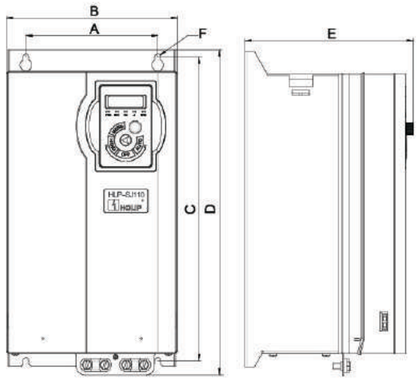
Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-SJ11004D043	3×380-440V50/60Hz	15.8	9.9	4.0	4.0	2
	3×440-480V50/60Hz	13.6	8.9			
HLP-SJ11005D543	3×380-440V50/60Hz	21.3	13.3	5.5	5.5	2
	3×440-480V50/60Hz	18.4	12.1			
HLP-SJ11007D543	3×380-440V50/60Hz	28.3	17.7	7.5	7.5	2.5
	3×440-480V50/60Hz	24.4	16.1			
HLP-SJ110001143	3×380-440V50/60Hz	35.9	25	11	11	5.8
	3×440-480V50/60Hz	31.4	22.7			
HLP-SJ110001543	3×380-440V50/60Hz	43.4	32	15	15	5.8
	3×440-480V50/60Hz	38.8	29.1			
HLP-SJ11018D543	3×380-440V50/60Hz	51.5	38	18.5	18.5	8
	3×440-480V50/60Hz	46.1	34.5			
HLP-SJ110002243	3×380-440V50/60Hz	61.0	45	22	22	8
	3×440-480V50/60Hz	54.5	40.9			
HLP-SJ110003043	3×380-440V50/60Hz	73	61	30	30	19
	3×440-480V50/60Hz	64	52			
HLP-SJ110003743	3×380-440V50/60Hz	72	75	37	37	22
	3×440-480V50/60Hz	65	68			
HLP-SJ110004543	3×380-440V50/60Hz	86	91	45	45	26
	3×440-480V50/60Hz	80	82			
HLP-SJ110005543	3×380-440V50/60Hz	110	112	55	55	26
	3×440-480V50/60Hz	108	110			
HLP-SJ110007543	3×380-440V50/60Hz	148	150	75	75	37
	3×440-480V50/60Hz	135	140			
HLP-SJ110009043	3×380-440V50/60Hz	175	180	90	90	60
	3×440-480V50/60Hz	154	160			
HLP-SJ110011043	3×380-440V50/60Hz	206	215	110	110	60
	3×440-480V50/60Hz	183	190			
HLP-SJ110013243	3×380-440V50/60Hz	251	260	132	132	60
	3×440-480V50/60Hz	231	240			
HLP-SJ110016043	3×380-440V50/60Hz	304	315	160	160	99
	3×440-480V50/60Hz	291	302			
	3×440-480V50/60Hz	653	678			

External and Installation Dimensions

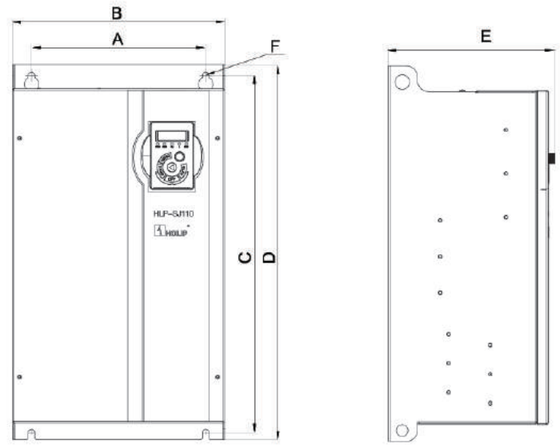
■ Three phase 380V 0.75 ~ 7.5kW



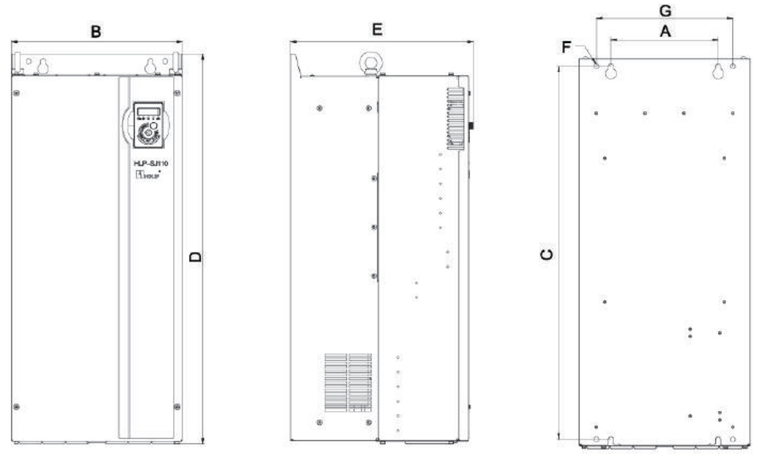
■ Three phase 380V 11~22kW



■ Three phase 380V 30~90kW



■ Three phase 380V 110~160kW



Voltage and Power			Dimensions (mm)						
1×200-240V	3×200-240V	3×380-480V	A	B	C	D	E	F	G
-	-	0.75-2.2kW	104	125	194	210	150	4.5	-
-	-	4.0-5.5kW	124	145	230	250	165	4.5	-
-	-	7.5kW	133	155	243	263	175	4.5	-
-	-	11-15kW	148	192	340	365	189	6.5	-
-	-	18.5-22kW	150	214	395	420	194	6.5	-
-	-	30-45kW	240	292	492	517	229	9	-
-	-	55-75kW	240	292	537	562	249	9	-
-	-	90kW	240	292	640	665	277	9	-
-	-	110-160kW	220	350	765	799	375	10.5	280

HLP–SP110 Series Fan and Pump Special Drive

Product Brief

HLP-SP110 is a low-load product for fan, pump and HVAC; It fits low-load market with correlative craft of fan and pump;

Technical Features

- Multiple application macros to meet different requirements, including inner PID,PFC function etc;
- Receive a variety of peripheral feedback signals: resistance 0 ~ 400Ω, current 4-20mA/0-20mA and voltage 0-10V;
- Automatic Energy Optimizer function, improve energy efficiency;
- ≥37kW models built-in DC choke effectively suppress harmonic current disturbance;
- PCB board with 3C3 coating ensures a reliable drive protection in harsh conditions;
- Built-in RFI in all power range;
- Complete self-monitoring and alarm functions ensure inverter operation of the high reliability and safety;
- Wide voltage range;
- ≤ 22kW models supply IP50 protection options;

Technical Specifications

Item		Specification
Power supply	Supply voltage	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	V/F : 0-400Hz , VVC+: 0-200Hz;
	Control mode	V/F, VVC+;
	Start torque	0.5Hz 150%;
	Overload capacity	110% 60s, 150% 1s;
	PWM switch frequency	2~16kHz;
	Speed setting resolution	Digital: 0.001Hz; Analogy: 0.5‰ of the max. operating frequency ;

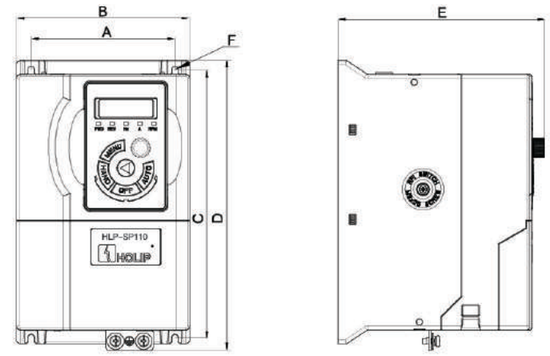
Item		Specification
Main control functions	Speed open-loop control accuracy	30~4000 rpm: tolerance±8 rpm;
	Control command source	LCP, digital terminal, local bus;
	Frequency setting source	LCP, analogue, local bus;
	Ramp control	Selectable 4-speed steps ramp up and down times 0.05-3600.00s;
Basic Functions	Speed Open-loop Control; Process Closed-loop Control; Torque Open-loop Control; AMA Function; Motor Magnetisation; Slip Compensation; Torque compensation; Automatic Voltage Regulation; V/F Control, DC Brake; AC brake; Speed Limit; Current Limit; Flying Start; Reset Function; Counter; Timer;	
Application Functions	Sleep/Wake up ,Jogging; Multi-speed Control via Digital input; SLC(including Order Control and Parallel Control); Mechanical Braking; UP/DOWN ; Catch up /Slow down; Relative Scaling Reference etc.	
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; Motor Thermal Protection; Live Zero Timeout Function; AMA Fails; CPU Fault; EEPROM Faults; Button freeze; Duplicate Fails; LCP Invalid; LCP Incompatible; Parameter Read-only; Reference Out of Range; Invalid While Running etc.	
Basic IO board control terminals	Input	5 digital inputs ; 2 analogue input, both can receive voltage or current signals. For AI terminal current or resistance signals can be selected via jumper switch;
	Output	2 relay output; 2 analogue output (VO terminal can be selected as current output or voltage output; AO terminal only can be selected as current output;).
	Power supply	1 +10V, max current output 10mA; 1 24V, max current output 200mA;
	Communication	RS+, RS-, max baud rate 115200bit/s;
Extended IO board control terminals	Input	5 digital inputs ; 2 analogue input, both can receive voltage or current signals. For AI terminal current or resistance signals can be selected via jumper switch;
	Output	6 relay output; 2 analogue output (VO terminal can be selected as current output or voltage output; AO terminal only can be selected as current output;).
	Power supply	1 +10V, max current output 10mA; 1 24V, max current output 200mA;
	Communication	RS+, RS-, max baud rate 115200bit/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℃~50℃, derating use when over 40℃;
	Humidity	5%-85% (95% without condensation);
	Vibration test	≤75kW: 1.14g; ≥90kW: 0.7g;
	Max. altitude above sea level	1000m, derating use when more than 1000 meters;
others	Motor cable length	Shield cable: 50 meters, Non shield cable: 100 meters;
	DC choke	≥37kW Built-in

Particular Specifications

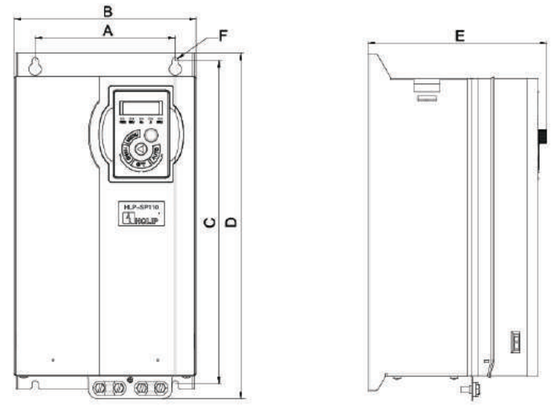
Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-SP1100D7543	3×380-440V50/60Hz	3.7	2.3	0.75	0.75	1.3
	3×440-480V50/60Hz	3.2	2.1			
HLP-SP11001D543	3×380-440V50/60Hz	6.4	4.0	1.5	1.5	1.3
	3×440-480V50/60Hz	5.5	3.6			
HLP-SP11002D243	3×380-440V50/60Hz	8.9	5.6	2.2	2.2	1.3
	3×440-480V50/60Hz	7.7	5.1			
HLP-SP11004D043	3×380-440V50/60Hz	15.8	9.9	4.0	4.0	2
	3×440-480V50/60Hz	13.6	9.0			
HLP-SP11005D543	3×380-440V50/60Hz	21.3	13.3	5.5	5.5	2
	3×440-480V50/60Hz	18.4	12.1			
HLP-SP11007D543	3×380-440V50/60Hz	28.3	17.7	7.5	7.5	2.5
	3×440-480V50/60Hz	24.4	16.1			
HLP-SP110001143	3×380-440V50/60Hz	35.9	25	11	11	5.8
	3×440-480V50/60Hz	31.4	22.7			
HLP-SP110001543	3×380-440V50/60Hz	43.4	32	15	15	5.8
	3×440-480V50/60Hz	38.8	29.1			
HLP-SP11018D543	3×380-440V50/60Hz	51.5	38	18.5	18.5	8
	3×440-480V50/60Hz	46.1	34.5			
HLP-SP110002243	3×380-440V50/60Hz	61.0	45	22	22	8
	3×440-480V50/60Hz	54.5	40.9			
HLP-SP110003043	3×380-440V50/60Hz	73	61	30	30	19
	3×440-480V50/60Hz	64	52			
HLP-SP110003743	3×380-440V50/60Hz	72	75	37	37	22
	3×440-480V50/60Hz	65	68			
HLP-SP110004543	3×380-440V50/60Hz	86	91	45	45	23
	3×440-480V50/60Hz	80	82			
HLP-SP110005543	3×380-440V50/60Hz	110	112	55	55	26
	3×440-480V50/60Hz	108	110			
HLP-SP110007543	3×380-440V50/60Hz	148	150	75	75	28
	3×440-480V50/60Hz	135	140			
HLP-SP110009043	3×380-440V50/60Hz	175	180	90	90	37
	3×440-480V50/60Hz	154	160			
HLP-SP110011043	3×380-440V50/60Hz	206	215	110	110	60
	3×440-480V50/60Hz	183	190			
HLP-SP110013243	3×380-440V50/60Hz	251	260	132	132	60
	3×440-480V50/60Hz	231	240			
HLP-SP110016043	3×380-440V50/60Hz	304	315	160	160	60
	3×440-480V50/60Hz	291	302			
HLP-SP110018543	3×380-440V50/60Hz	350	365	185	185	99
	3×440-480V50/60Hz	320	335			
HLP-SP110020043	3×380-440V50/60Hz	381	395	200	200	99
	3×440-480V50/60Hz	348	361			
HLP-SP110022043	3×380-440V50/60Hz	420	435	220	220	99
	3×440-480V50/60Hz	383	398			
HLP-SP110025043	3×380-440V50/60Hz	472	480	250	250	99
	3×440-480V50/60Hz	436	443			
HLP-SP110028043	3×380-440V50/60Hz	525	540	280	280	250
	3×440-480V50/60Hz	475	490			
HLP-SP110031543	3×380-440V50/60Hz	590	605	315	315	250
	3×440-480V50/60Hz	531	540			
HLP-SP110035543	3×380-440V50/60Hz	647	660	355	355	250
	3×440-480V50/60Hz	580	590			
HLP-SP110041543	3×380-440V50/60Hz	718	745	415	415	250
	3×440-480V50/60Hz	653	678			
HLP-SP110045043	3×380-440V50/60Hz	771	800	450	450	250
	3×440-480V50/60Hz	704	730			

External and Installation Dimensions

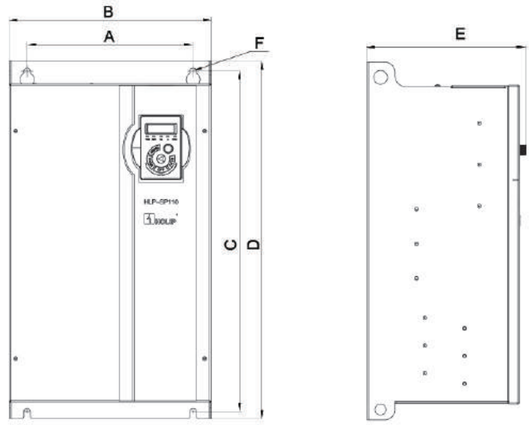
■ Three phase 380V 0.75~7.5kW



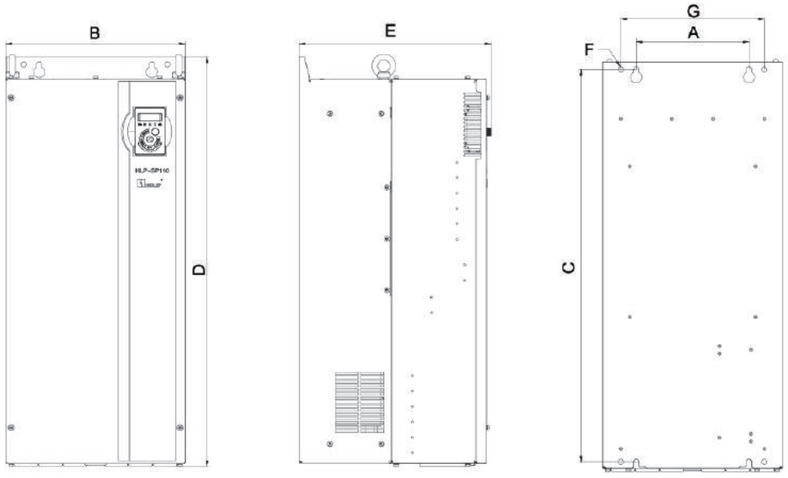
■ Three phase 380V 11~22kW



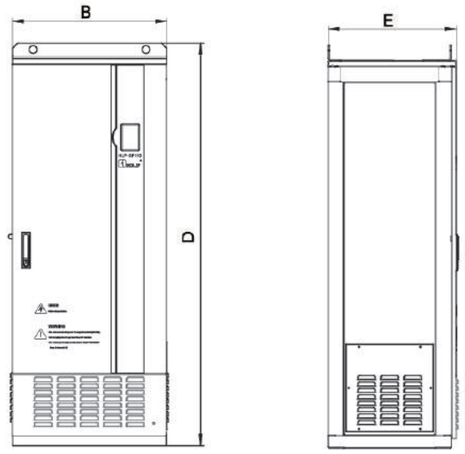
■ Three phase 380V 30~90kW



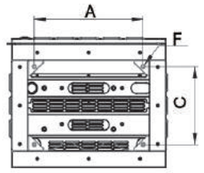
■ Three phase 380V 110~250kW



■ Three phase380V 280~450kW



Base Profile



Voltage and Power			Dimensions (mm)						
1×200-240V	3×200-240V	3×380-480V	A	B	C	D	E	F	G
-	-	0.75-2.2kW	104	125	194	210	150	4.5	-
-	-	4.0-5.5kW	124	145	230	250	165	4.5	-
-	-	7.5kW	133	155	243	263	175	4.5	-
-	-	11-15kW	148	192	340	365	189	6.5	-
-	-	18.5-22kW	150	214	395	420	194	6.5	-
-	-	30-45kW	240	292	492	517	229	9	-
-	-	55-75kW	240	292	537	562	249	9	-
-	-	90kW	240	292	640	665	277	9	-
-	-	110-160kW	220	350	765	799	375	10.5	280
-	-	185-250kW	345	486	863	900	390	10.5	410
-	-	280-450kW	424	600	304	1560	500	15	-

HLP–SH110 Series High Frequency Special Drive

Product Brief

HLP-SH110 series is Holip new generation high frequency drive. It has wide output frequency range from 0.0 to 3000.0Hz, good control performance and high precision steady speed.

Technical Features

- Independent wind way design;
- Use high quality dual ball bearing fan;
- Easy cleaning and replacement fan;
- Wide voltage range;
- Easy operation;
- Excellent high-frequency control algorithm;

AC 1PH 200V(-20%)~240V(+10%) 0.37~3.7kW
AC 3PH 200V(-20%)~240V(+10%) 0.37~3.7kW
AC 3PH 380V(-20%)~480V(+10%) 0.75~15kW

Technical 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	V/F : 0-400Hz , VVC+: 0-200Hz;
	Control mode	V/F, VVC+;
	Start torque	0.5Hz 150%;
	Overload capacity	150% 60s, 200% 1s;
	PWM switch frequency	2~16kHz;
	Speed setting resolution	Digital: 0.001Hz; Analogy: 0.5‰ of the max. operating frequency ;

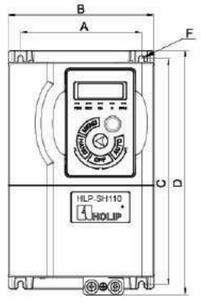
Item		Specification
Main control functions	Speed open-loop control accuracy	30~4000 rpm: tolerance±8 rpm;
	Control command source	LCP, digital terminal, local bus;
	Frequency setting source	LCP, analog, pulse, local bus;
	Ramp control	Selectable 4-speed steps ramp up and down times 0.05-3600.00s;
Basic Functions	Speed Open-loop Control; Process Closed-loop Control; Torque Open-loop Control; AMA Function; Motor Magnetisation; Slip Compensation; Torque compensation; Automatic Voltage Regulation; V/F Control, DC Brake; AC brake; Speed Limit; Current Limit; Flying Start; Reset Function; Counter; Timer;	
Application Functions	Wobble Function; Jogging; Multi-speed Control via Digital input; SLC(including Order Control and Parallel Control); Mechanical Braking; UP/DOWN ; Catch up /Slow down; Relative Scaling Reference etc.	
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; Motor Thermal Protection; Live Zero Timeout Function; AMA Fails; CPU Fault; EEPROM Faults; Button freeze; Duplicate Fails; LCP Invalid; LCP Incompatible; Parameter Read-only; Reference Out of Range; Invalid While Running etc.	
IO board control terminals	Input	6 digital inputs (1 supports pulse input, pulse range: 1Hz~100kHz); 2 analog input, both can receive voltage or current signals.
	Output	2 digital output (1 supports pulse output, pulse range: 1Hz~100kHz); 2 relay output; 2 analog input (1 can be selected as current output or voltage output via jumper switch).
	Power supply	1 +10V, max current output 10mA; 1 24V, max current output 200mA;
	Communication	RS+, RS-, max baud rate 115200bit/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℃~50℃, derating use when over 40℃;
	Humidity	5%-85% (95% without condensation);
	Vibration test	≤75kW: 1.14g; ≥90kW: 0.7g;
	Max. altitude above sea level	1000m, derating use when more than 1000 meters;
	Motor cable length	Shield cable: 50 meters; Unshield cable: 100 meters;
others	DC choke	≥37kW Built-in
	Braking unit	≤22kW Built-in

Particular Specifications

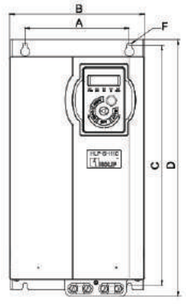
Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-SH1100D3721	1×200-240V50/60Hz	7	2.5	0.37	0.37	1.3
HLP-SH1100D7521	1×200-240V50/60Hz	13.9	5	0.75	0.75	1.3
HLP-SH11001D521	1×200-240V50/60Hz	20.6	7.5	1.5	1.5	1.3
HLP-SH11002D221	1×200-240V50/60Hz	30.4	11	2.2	2.2	1.3
HLP-SH11003D721	1×200-240V50/60Hz	49.7	17	3.7	3.7	2
HLP-SH1100D3723	3×200-240V50/60Hz	4	2.5	0.37	0.37	1.3
HLP-SH1100D7523	3×200-240V50/60Hz	8	5	0.75	0.75	1.3
HLP-SH11001D523	3×200-240V50/60Hz	12	7.5	1.5	1.5	1.3
HLP-SH11002D223	3×200-240V50/60Hz	17.7	11	2.2	2.2	1.3
HLP-SH11003D723	3×200-240V50/60Hz	27.2	17	3.7	3.7	2
HLP-SH1100D7543	3×380-440V50/60Hz	3.7	2.3	0.75	0.75	1.3
	3×440-480V50/60Hz	3.2	2.1			
HLP-SH11001D543	3×380-440V50/60Hz	6.4	4	1.5	1.5	1.3
	3×440-480V50/60Hz	5.5	3.6			
HLP-SH11002D243	3×380-440V50/60Hz	8.9	5.6	2.2	2.2	1.3
	3×440-480V50/60Hz	7.7	5.1			
HLP-SH11004D043	3×380-440V50/60Hz	15.8	9.9	4.0	4.0	2
	3×440-480V50/60Hz	13.6	9			
HLP-SH11005D543	3×380-440V50/60Hz	21.3	13.3	5.5	5.5	2
	3×440-480V50/60Hz	18.4	12.1			
HLP-SH11007D543	3×380-440V50/60Hz	28.3	17.7	7.5	7.5	2.5
	3×440-480V50/60Hz	24.4	16.1			
HLP-SH110001143	3×380-440V50/60Hz	35.9	25	11	11	5.8
	3×440-480V50/60Hz	31.4	22.7			
HLP-SH110001543	3×380-440V50/60Hz	43.4	32	15	15	5.8
	3×440-480V50/60Hz	38.8	29.1			

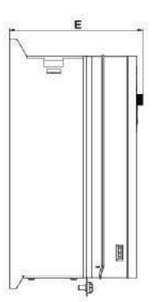
External and Installation Dimensions

- Single/Three phase 220V 0.37~3.7kW and Three phase 380V 0.75~7.5kW



- Three phase 380V 11~15kW





Voltage and Power			Dimensions (mm)						
1×200-240V	3×200-240V	3×380-480V	A	B	C	D	E	F	G
0.37-1.5kW	0.37-1.5kW	0.75-2.2kW	104	125	194	210	150	4.5	-
2.2-3.7kW	2.2-3.7kW	4.0-5.5kW	124	145	230	250	165	4.5	-
-	-	7.5kW	133	155	243	263	175	4.5	-
-	-	11-15kW	148	192	340	365	189	6.5	-

HLP–SL100 Series Crane Special Drive

Product Brief

HLP-SL100 series special inverter is designed for hoisting and lifting industry. It adopts the advanced control theory and has the excellent torque control performance. Its complete control process can ensure the safe and reliable. It is widely used in lifting and hoisting machinery, such as hoisting, lifting, cart and swinging gear.

Technical Features

- Use high-performance vector control algorithms, it has high speed precision and fast response;
- Built-in crane specific functions:
  - The time sequence of brake logic control and monitor function
  - Speed up when load is light
  - Slack rope detection
  - Automatic upper and lower limit control
  - Monitor the dangerous speed, stop rapidly and over-speed protection
- Complete fault protection features, more than 30 kinds of system fault detection and protection to facilitate rapid diagnosis and troubleshooting;
- Book-type design saves the user installation space;
- Power and control terminals isolation ensures the safety of the control signal;
- ≥18.5kW models built-in DC choke;

AC 3PH 380V(-10%)~480V(+10%) 4.0~75kW

Technical Specifications

Item		Specification
Power supply	Supply voltage	Single/three phase 200~240V -10%~+10%; Three phase 380~480V -10%~+10%;
	Frequency	48~62Hz;
	Max. imbalance	3%;
Motor output	Output voltage	Three phase 0-100% of supply voltage;
	Output frequency	V/F : 0-400Hz , VVC+: 0-200Hz;
	Control mode	V/F, VVC+;
	Start torque	0.5Hz 150%;
	Overload capacity	150% 60s, 180% 1s;
	PWM switch frequency	2~16kHz;
	Speed setting resolution	Digital: 0.001Hz; Analogy: 0.5‰ of the max. operating frequency ;

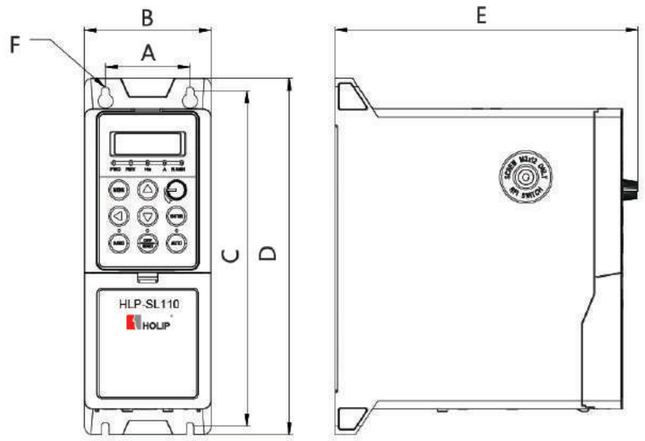
Item		Specification
Main control functions	Speed open-loop control accuracy	30~4000 rpm: tolerance±8 rpm;
	Speed closed-loop control accuracy	0~6000 rpm: tolerance ±0.15 rpm;
	Control command source	LCP, digital terminal, local bus;
	Frequency setting source	LCP, analog, pulse, local bus;
	Ramp control	Selectable 4-speed steps ramp up and down times 0.05-3600.00s;
Basic Functions		Speed Open-loop Control; Speed Closed-loop Control; Process Closed-loop Control; Torque Open-loop Control; AMA Function; Motor Magnetisation; Slip Compensation; Torque compensation; Automatic Voltage Regulation; V/F Control, DC Brake; AC brake; Speed Limit; Current Limit; Flying Start; Reset Function; Counter;
Application Functions		Wobble; Cascade; Winder; Jogging; Multi-speed Control via Digital input; SLC(including Order Control and Parallel Control); Mechanical Braking; UP/DOWN ; Catch up /Slow down; Relative Scaling Reference etc.
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; Motor Thermal Protection; Live Zero Timeout Function; AMA Fails; CPU Fault; EEPROM Faults; Button freeze; Duplicate Fails; LCP Invalid; LCP Incompatible; Parameter Read-only; Reference Out of Range; Invalid While Running etc.
IO board control terminals	Input	6 digital inputs (1 supports pulse input, pulse range: 1Hz~50kHz); 2 analog input, both can receive voltage or current signals.
	Output	2 digital output (1 supports pulse output, pulse range: 1Hz~50kHz); 2 relay output; 2 analog input (1 can be selected as current output or voltage output via jumper switch).
	Power supply	1 +10V, max current output 25mA; 1 +24V, max current output 50mA;
	Communication	RS+, RS-, max baud rate 115200bit/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℃~50℃, derating use when over 40℃;
	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	≥18.5kW Built-in
	Braking unit	≤22kW Built-in

Particular Specifications

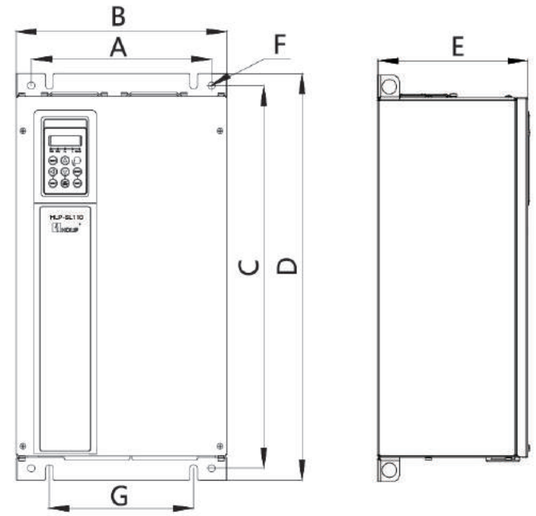
Model	Input voltage	Input current /A	Output current /A	Rated power /kW	Suitable motor /kW	Net weight /kg
HLP-SL10004D043	3×380-440V50/60Hz	14.4	9.0	4	4	3.32
	3×440-480V50/60Hz	12.4	8.2			
HLP- SL10005D543	3×380-440V50/60Hz	19.2	12.0	5.5	5.5	3.46
	3×440-480V50/60Hz	16.6	11.0			
HLP- SL10007D543	3×380-440V50/60Hz	24.8	15.5	7.5	7.5	3.52
	3×440-480V50/60Hz	21.4	14.0			
HLP- SL100001143	3×380-440V50/60Hz	33.0	23.0	11	11	5.92
	3×440-480V50/60Hz	29.0	21.0			
HLP- SL100001543	3×380-440V50/60Hz	42.0	31.0	15	15	
	3×440-480V50/60Hz	36.0	27.0			
HLP- SL10018D543	3×380-440V50/60Hz	34.7	37.0	18.5	18.5	9.94
	3×440-480V50/60Hz	31.5	34.0			
HLP- SL100002243	3×380-440V50/60Hz	41.2	43.0	22	22	
	3×440-480V50/60Hz	37.5	40.0			
HLP- SL100003043	3×380-440V50/60Hz	57	61	30	30	25.4
	3×440-480V50/60Hz	46	52			
HLP- SL100003743	3×380-440V50/60Hz	70	73	37	37	
	3×440-480V50/60Hz	57	65			
HLP- SL100004543	3×380-440V50/60Hz	84	90	45	45	50
	3×440-480V50/60Hz	68	80			
HLP- SL100005543	3×380-440V50/60Hz	103	106	55	55	
	3×440-480V50/60Hz	83	105			
HLP- SL100007543	3×380-440V50/60Hz	140	147	75	75	
	3×440-480V50/60Hz	113	130			

External and Installation Dimensions

- Three phase 380V 4.0~22kW



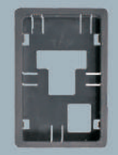
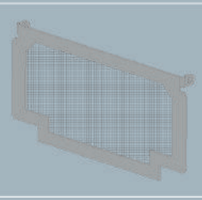
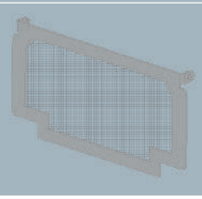
- Three phase 380V 30~75kW

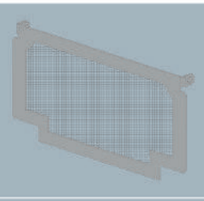
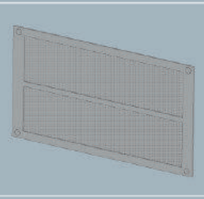
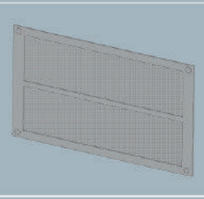
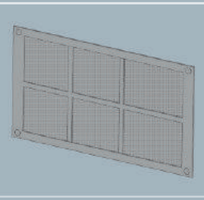
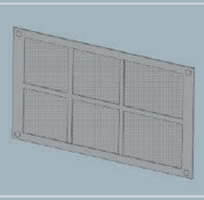


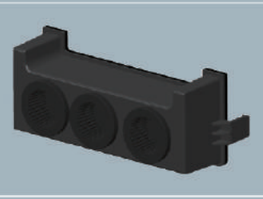
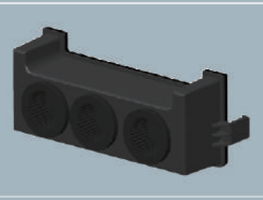
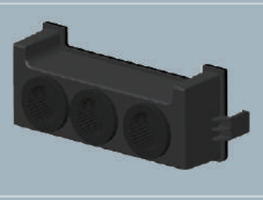
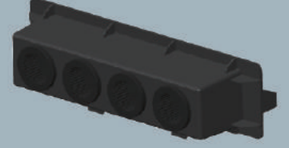
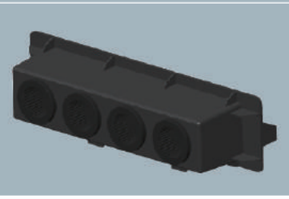
Voltage and Power			Dimensions (mm)						
1×200-240V	3×200-240V	3×380-480V	A	B	C	D	E	F	G
-	-	4.0-7.5kW	65	90	241	255	210	4.5	-
-	-	11-15kW	91	125	275	295	260	5.5	-
-	-	18.5-22kW	120	150	313	335	262	7	-
-	-	30-37kW	250	292	500	530	210	10	200
-	-	45-75kW	280	330	630	680	300	10.5	215

Accessories

	• Model: LCP-01 • Function: Local Control Panel (LCP) is used to modify parameters, monitor status and control the drive. The standard length of extension cable is 3 meters when mounting LCP-01 on control cabinet. • Suitable drives: HLP-A100, HLP-SP110, HLP-SJ110 HLP-SK190, HLP-SH110
	• Model: LCP-02 • Function: Local Control Panel (LCP) is used to modify parameters, monitor status and control the drive. The standard length of extension cable is 15 meters when mounting LCP-02 on control cabinet. • Suitable drives: HLP-A100, HLP-C100, HLP-SP110 HLP-SJ110, HLP-SK190, HLP-SH110
	• Model: LCP-03 • Function: Local Control Panel (LCP) is used to modify parameters, monitor status and control the drive. The standard length of extension cable is 15 meters when mounting LCP-03 on control cabinet. LCP-03 has the same installation dimensions with HLP-A control panel (OP-AB01). • Suitable drives: HLP-A100, HLP-C100, HLP-SP110 HLP-SJ110, HLP-SK190, HLP-SH110
	• Model: LCP-04 • Function: Local Control Panel (LCP) is used to modify parameters, monitor status and control the drive. The standard length of extension cable is 15 meters when mounting LCP-04 on control cabinet. • Suitable drives: HLP-B HLP-SL100
	• Model: LCP-05 • Function: Local Control Panel (LCP) is used to modify parameters, monitor status and control the drive. The standard length of extension cable is 15 meters when mounting LCP-05 on control cabinet. The difference between LCP-05 and LCP-04 is the LCP-04 with a potentiometer. • Suitable drives: HLP-B HLP-SL100
	• Model: CopyCard-01 • Function: Copy Card can copy parameters from one drive to another. • Suitable drives: HLP-A100, HLP-C100, HLP-SP110 HLP-SJ110, HLP-SK190, HLP-SH110
	• Model: CopyCard-02 • Function: Copy Card can copy parameters from one drive to another. • Suitable drives: HLP-B HLP-SL100

	• Model: Cradle-01 • Function: For the LCP-01 or LCP-02 is mounted on the control cabinet
	• Name: LCP extension Cable • Function: Connect LCP-04/05 to the drive when mounting LCP on control cabinet. The cable length is 1 to 15 meters optional. • Suitable drives: HLP-B HLP-SL100
	• Model: Base-01 • Function: Used for cabinet installation • Suitable drives: HLP-A100 90~132kW HLP-SJ110 110~160kW HLP-SP110 110~160kW HLP-SK190 90~132kW
	• Model: Base-02 • Function: Used for cabinet installation • Suitable drives: HLP-A100 160~220kW HLP-SP110 185~250kW HLP-SK190 160~220kW
	• Model: Base-03 • Function: Used for cabinet installation • Suitable drives: HLP-A100 250~415kW HLP-SP110 280~450kW HLP-SK190 250~415kW
	• Model: Sieve-01 • Function: Used for preventing dust sucked into the drive wind way. • Suitable drives: HLP-A100 1PH 200~240V 0.37~1.5kW 3PH 200~240V 0.37~1.5kW 3PH 380~480V 0.75~2.2kW HLP-SJ110 3PH 380~480V 0.75~2.2kW HLP-SP110 3PH 380~480V 0.75~2.2kW HLP-SH110 1PH 200~240V 0.37~1.5kW 3PH 200~240V 0.37~1.5kW 3PH 380~480V 0.75~2.2kW
	• Model: Sieve-02 • Function: Used for preventing dust sucked into the drive wind way. • Suitable drives: HLP-A100 1PH 200~240V 2.2~3.7kW 3PH 200~240V 2.2~3.7kW 3PH 380~480V 4.0~5.5kW HLP-SJ110 3PH 380~480V 4.0~5.5kW HLP-SP110 3PH 380~480V 4.0~5.5kW HLP-SH110 1PH 200~240V 2.2~3.7kW 3PH 200~240V 2.2~3.7kW 3PH 380~480V 4.0~5.5kW

	• Model: Sieve-03 • Function: Used for preventing dust sucked into the drive wind way. • Suitable drives: HLP-A100 3PH 380~480V 7.5kW HLP-SJ110 3PH 380~480V 7.5kW HLP-SP110 3PH 380~480V 7.5kW HLP-SH110 3PH 380~480V 7.5kW HLP-SK190 3PH 380~480V 7.5kW
	• Model: Sieve-04 • Function: Used for preventing dust sucked into the drive wind way. • Suitable drives: HLP-A100 3PH 380~480V 11~15kW HLP-SJ110 3PH 380~480V 11~15kW HLP-SP110 3PH 380~480V 11~15kW HLP-SH110 3PH 380~480V 11~15kW HLP-SK190 3PH 380~480V 11~15kW
	• Model: Sieve-05 • Function: Used for preventing dust sucked into the drive wind way. • Suitable drives: HLP-A100 3PH 380~480V 18.5~22kW HLP-SJ110 3PH 380~480V 18.5~22kW HLP-SP110 3PH 380~480V 18.5~22kW HLP-SK190 3PH 380~480V 18.5~22kW
	• Model: Sieve-06 • Function: Used for preventing dust sucked into the drive wind way. • Suitable drives: HLP-A100 3PH 380~480V 30~55kW HLP-SJ110 3PH 380~480V 30~75kW HLP-SP110 3PH 380~480V 30~75kW HLP-SK190 3PH 380~480V 30~55kW
	• Model: Sieve-07 • Function: Used for preventing dust sucked into the drive wind way. • Suitable drives: HLP-A100 3PH 380~480V 75kW HLP-SJ110 3PH 380~480V 90kW HLP-SP110 3PH 380~480V 90kW HLP-SK190 3PH 380~480V 75kW
	• Model: IO Expansion Card-01 • Function: The I/O expansion card can expand 4 digital inputs, 2 analog inputs and 1 digital output • Suitable drives: HLP-B HLP-SL100
	• Model: PG-01 • Function: Used for receiving incremental encoder speed feedback. • Suitable drives: HLP-B HLP-SL100

	• Model: PG-02 • Function: Used for receiving differential encoder speed feedback. • Suitable drives: HLP-B HLP-SL100
	• Model: CANopen-01 • Function: Used for controlling drives and modifying parameters via CAN bus. • Suitable drives: HLP-B HLP-SL100
	• Model: IP50 Option Box-01 • Function: Install this option box allows the drive to achieve IP50 enclosure. • Suitable drives: HLP-A100 1PH 200~240V 0.37~1.5kW 3PH 200~240V 0.37~1.5kW 3PH 380~480V 0.75~2.2kW HLP-SJ110 3PH 380~480V 0.75~2.2kW HLP-SP110 3PH 380~480V 0.75~2.2kW HLP-SH110 1PH 200~240V 0.37~1.5kW 3PH 200~240V 0.37~1.5kW 3PH 380~480V 0.75~2.2kW
	• Model: IP50 Option Box-02 • Function: Install this option box allows the drive to achieve IP50 enclosure. • Suitable drives: HLP-A100 1PH 200~240V 2.2~3.7kW 3PH 200~240V 2.2~3.7kW 3PH 380~480V 4.0~5.5kW HLP-SJ110 3PH 380~480V 4.0~5.5kW HLP-SP110 3PH 380~480V 4.0~5.5kW HLP-SH110 1PH 200~240V 2.2~3.7kW 3PH 200~240V 2.2~3.7kW 3PH 380~480V 4.0~5.5kW
	• Model: IP50 Option Box-03 • Function: Install this option box allows the drive to achieve IP50 enclosure. • Suitable drives: HLP-A100 3PH 380~480V 7.5kW HLP-SJ110 3PH 380~480V 7.5kW HLP-SP110 3PH 380~480V 7.5kW HLP-SH110 3PH 380~480V 7.5kW HLP-SK190 3PH 380~480V 7.5kW
	• Model: IP50 Option Box-04 • Function: Install this option box allows the drive to achieve IP50 enclosure. • Suitable drives: HLP-A100 3PH 380~480V 11~15kW HLP-SJ110 3PH 380~480V 11~15kW HLP-SP110 3PH 380~480V 11~15kW HLP-SH110 3PH 380~480V 11~15kW HLP-SK190 3PH 380~480V 11~15kW
	• Model: IP50 Option Box-05 • Function: Install this option box allows the drive to achieve IP50 enclosure. • Suitable drives: HLP-A100 3PH 380~480V 18.5~22kW HLP-SJ110 3PH 380~480V 18.5~22kW HLP-SP110 3PH 380~480V 18.5~22kW HLP-SK190 3PH 380~480V 18.5~22kW