

Product Selection Guide

Intellectual Products
Impressed Customers



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V1.7



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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

Intellectual Products, Impressed Customers

Elevator Control System Expert

Industrial Automation Solutions Provider

Company Profile

Shenzhen Hpmont Technology Co., Ltd. is a China High-tech Enterprise and Shenzhen Software Enterprise and located in Nanshan District, Shenzhen City.

Shenzhen Hpmont Technology Co., Ltd. focuses on research and development, production and sales in industrial automation products, while continuously serves professional high-end equipment manufacturers and pursues on continuously creative and independent intellectual property rights of industrial automation control technique. We insist on fast responding to customers' requirement and investigating professional cooperation with customers and suppliers to realize the growth value. We expect to reach the goal of healthy and fast development in the industrial automation.

Shenzhen Hpmont Technology Co., Ltd., its products, cover three main areas such as the high-end manufacturer, green energy and new energy, and include frequency energy saving converter, professional machinery and integration solution product and new energy product etc. The company continues to provide quality solutions, product supply and technical services for industrial drives and elevator industry.

Shenzhen Hpmont Technology Co., Ltd. has excellent research and development technique team in industrial automation products, gathering numerous talented professional persons. The company has already possessed high performance vector control and servo technology etc. with constant innovation in related technique fields. Up to now, the State Intellectual Property Office has authorized 52 patents for our company and 26 ones of them are inventive patents; software copyright is up to 27 items; in addition, 32 inventive patents and 2 international inventive patents have been accepted in the review.

Shenzhen Hpmont Technology Co., Ltd. sustains technical cooperation and joint training of talents with domestic and international universities, currently working with Xi'an Jiaotong University to study topics of the national key projects and provide technical support for the country cutting-edge technology breakthroughs. The company has become the joint training base for master and doctoral students of Xi'an Jiaotong University, and its five technical experts are hired as enterprise mentors of graduate students of Xi'an Jiaotong University.

Intellectual Products Impressed Customers

2011
Establishment of Hpmont

2012
Identified as Shenzhen Software Enterprise

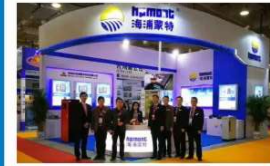
2013
Identified as China High-tech Enterprise

2014
Make a figure in domestic market
Enter into Taiwan Market
Establishment of Hpmont (Hong Kong) Technology Co., Ltd.

2015
Appointment of Professor Cao Guangzhong, from Shenzhen University, as Senior Technical Advisor

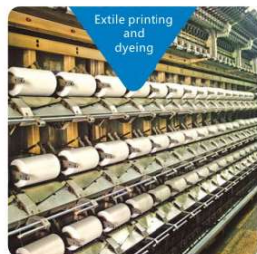
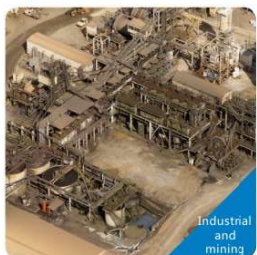
2016
Succeed in Korean KTR test for the first time
International Lift Expo Korea

2017
Joint training station for master and doctoral students of Wuhan University of Technology
The 18th Jinan International Industrial Automation Application Technology Exhibition



High Performance Drive Platform, Wild Application

Hpmont has been working on increasing product performance, reliability and convenience. with continues improvement and creation, Hpmont can provide excellent drive performance and wild application under the complicated industry environment. Hpmont HD series inverters can work well in draught fan, transfer device, machining and sport control.



Perfect Solution



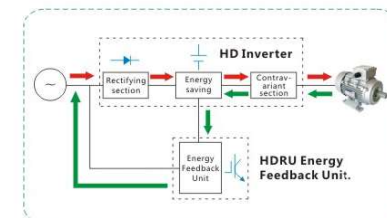
Excellent Response capability to impacting load

- Torque responses quickly and stable speed in high-accuracy when load changed seriously.
- Excellent current limitation ability and handle current impact easily when motor pitching-in under high frequency.
- It is suitable for machine tool, Hoisting, chemical fiber industry whose requirements are high in big torque under low frequency and quick responding.

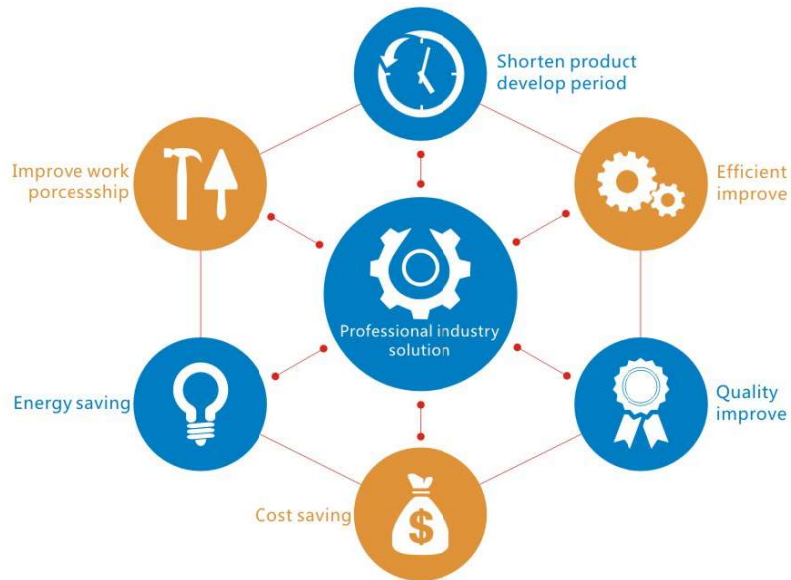


Energy Regenerative Unit

- Feedback the regenerative power to power network so as to reduce the power consumption, and achieve energy saving and environmental protection.
- Apply to: elevator, crane, lift, oil and other industries.
- Green energy feedback, low harmonic wave, high power factor.
- Green energy feedback, low harmonic wave, high power factor.
- Real-time detection in grid phase sequence and no phase requirement in wiring.
- Build-in cache circuit and no requirement in power on sequence.



Hpmont has been paying attention on recognizing market, deepen and strengthen research and creation persistently. In according with features of different industries, Hpmont provides professional industry solution for various kinds of customers. As a result, product . development period will be shortened and technology will be improved. Manufacture efficiency and quality will be increased and system cost will be decreased.



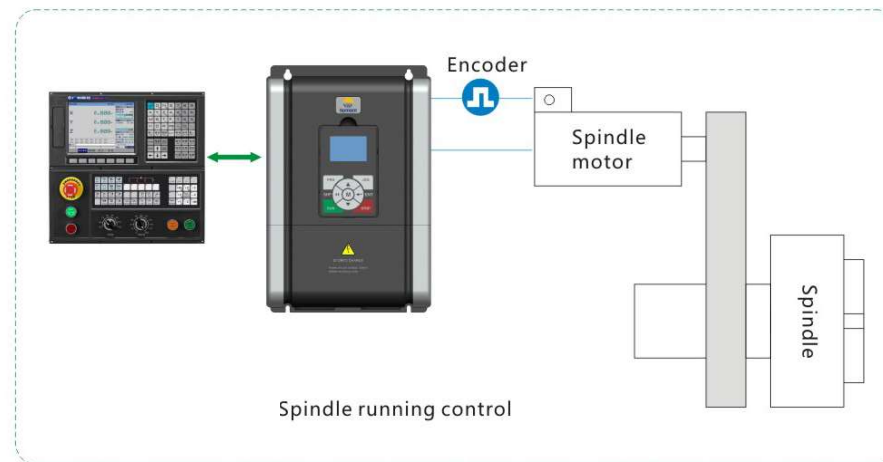
PLC+Drive=ProDriver.

- Abundant hardware interface terminals: 8 DI, 8DO, 4 AI, 2 AO.
- The program memory is 16k.
- Support Modbus, Can bus, convenient network.
- The chip runs at 160M.



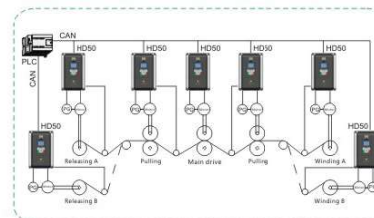
Simple servo control function

- Positioning control, syn. Control, distance control, pulse control, 0 servo.
- Meet high-accuracy machining process.
- Suitable to metal machining, paper cutting machine, wood rotation cutting machine, coating machine.



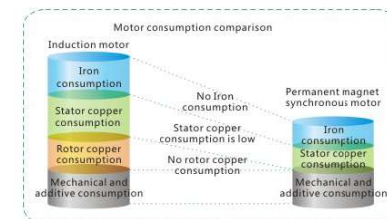
Tension control function , the most suitable for winding control

- Various extension control modes, constant extension control.
- Automatic volume diameter calculation.
- Automatic meter calculation, fixed length, winding diameter arrival alarm and stop.
- Pre-drive logic.
- Suitable to printing, packaging, paper, cable.



Open loop vector drive technology of permanent magnet synchronous motor

- Motor magnetic pole position and speed can be detected without encoder, high-accuracy control.
- Maximize permanent magnet synchronous energy efficiency.
- Save energy.



Good grid adaptability

Instantaneous drop of electricity without stop.



Flexible communication, support various site's bus cable

- Support Modbus RTU, Profibus-DP, CANopen bus protocol, convenient to integrate system.

Insolated cooling air duct

- All product PCBA are enhanced protection designed with coated.

Insolated cooling air duct

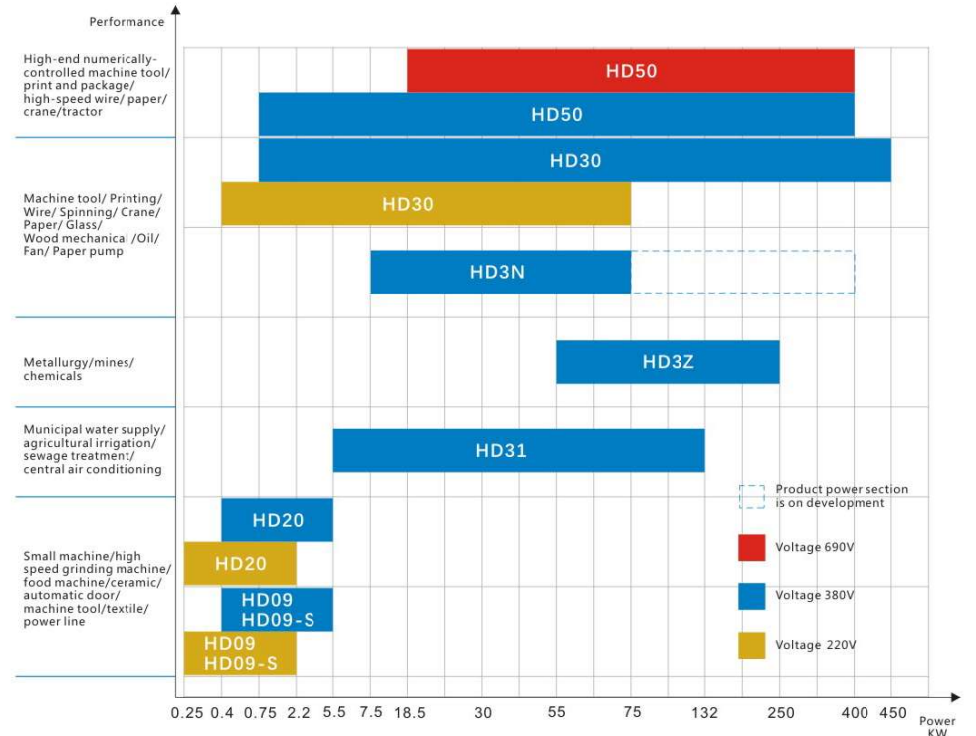


Easy to debug

- Support double keyboard display.
- Keypad can save two sets of parameters, build-in copy function, support parameter upload and download.
- HDView host software support parameter modification online and parameter upload and download. At the same time, this software has the functions of the oscilloscope, console, input/output terminal state online monitoring. The operation is intuitive, the application is convenient.

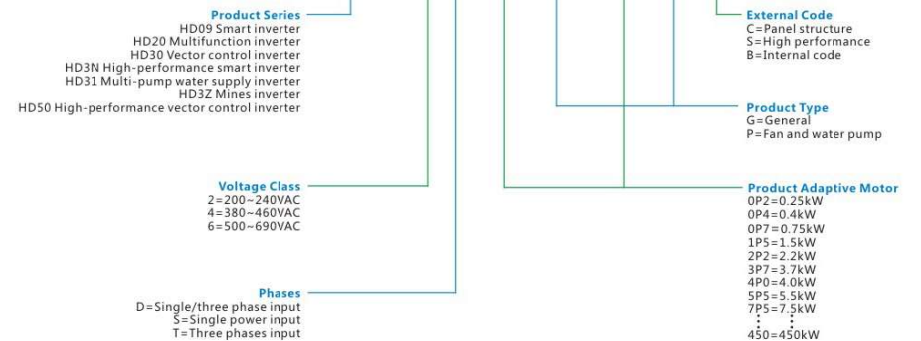


Product System



Product Model

HD30-4 T 5P5 G/ 7P5 P-C



HD 09 Smart Inverter HD 09-S High-performance Smart Inverter



**HD 09 is general mini-inverter whose power is small and its sales market in on OEM.
HD 09-S is high-performance inverter whose power is small and its sales market in on OEM.**

Single phase 200 ~ 240V..... 0.25 ~ 2.2kW
Three phase 380 ~ 460V..... 0.4 ~ 5.5kW

Product Features

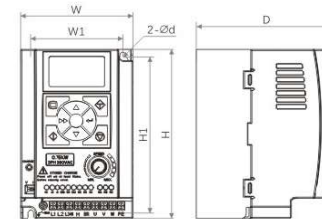
Ultrathin structure design	Max. thickness only 145mm, can be installed side by side and space will be saved.
Big-sized LCD display	Blue background display, 5 segments, 5 state indicators, 5 units indication.
Personalized button remark	Standard design IEC60417, GB/T15192.
Build-in EMI filter	Meet EMI requirement of standard IEC61800-3. Easy to disconnect, and can be used in low current leakage.
Intuitive product power label	Can recognize product in convenience and fast speed.
Support built-in brake resistor	Built-in 100W ultrathin brake resistor is selectable.
Insolated potentiometer	Can set main and vice frequency pre-given.
Installation-wiring-running	Simple three steps, can be used as soon as be wired, Convenient.
Sheet metal shell, plastic case	Convenient to be installed, top sealed and good protection.

Technical Data

Electrical data	
Input voltage	Single phase 200 ~ 240V Three phase 380~460V wave deviation not exceed±10%, unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	HD 09: 0~1000.0Hz HD 09-S: 0~400.0Hz
Performance	
Control mode	HD 09: V/f control HD 09-S: V/f control, SVC control
Overload ability	2 minutes for 150% rated output current, 10 seconds for 180% rated output current
Velocity resolutions	Digital setting: 0.01Hz, Analogue setting: 0.1% × Max.frequency
Input/Output	
Analogue power supply	+10V, load ability 100mA
Analogue input	AI: (Voltage/current is selectable)0~10V/0~20mA Keypad potentiometer: 0~5V
Analogue output	AO: Voltage 0~10V
Digital input	D11~D14, Optical decoupled input *D14 can be selected as high speed pulse input
Digital output	DO, Optical decoupled output *Can be used as high speed pulse output once again
Relay output	R1A/R1B/R1C Contactor capacity: 250VAC/3A or 30VDC/1A
Environmental characteristics	
Work temperature	-10~+40°C no deduction; Output current should be 2% derated for each 1°C over 40-50°C
Storage temperature	-40~+70°C
Use environment	Not at the direct sunlight, oily dust, corrosive gas, steamer, drops and salts
Altitude	No derating under 1000meters and derate above 1000meter and under 4000meters
Humidity	Less than 95% RH, no water drops
Vibration	3.5m/s ² in 2~9Hz 10m/s ² in 9~200Hz (IEC60721-3-3)

HD 09 Smart Inverter HD 09-S High-performance Smart Inverter			Power Selection			Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
Size A	HD09-2S0P2G	0.25	0.6	4.3	1.7	-	-	-
	HD09-2S0P2G-S							
Size A	HD09-2S0P4G	0.4	1.0	5.8	2.5	-	-	-
	HD09-2S0P4G-S							
Size A	HD09-2S0P7G	0.75	1.5	10.5	4.0	150~250	0.1	Build-in
	HD09-2S0P7G-S							
	HD09-2S0P7G-B-S							
Size A	HD09-2S1P5G	1.5	2.8	18.5	7.5	100~150	0.2	Build-in
	HD09-2S1P5G-S							
	HD09-2S1P5G-B-S							
Size A	HD09-2S2P2G	2.2	3.8	24.1	10.0	-	-	-
	HD09-2S2P2G-S							
Size A	HD09-4T0P4G	0.4	1.0	1.8	1.4	300~400	0.08	Build-in
	HD09-4T0P4G-S							
Size A	HD09-4T0P7G	0.75	1.5	3.4	2.3	250~350	0.1	Build-in
	HD09-4T0P7G-S							
Size A	HD09-4T1P5G	1.5	2.5	5.2	3.8	200~300	0.2	Build-in
	HD09-4T1P5G-S							
Size A	HD09-4T2P2G	2.2	3.4	7.3	5.1	150~250	0.25	Build-in
	HD09-4T2P2G-S							
Size B	HD09-4T4P0G	4.0	5.9	11.9	9.0	100~150	0.3	Build-in
	HD09-4T4P0G-S							
Size B	HD09-4T5P5G	5.5	8.5	15.0	13.0	80~100	0.5	Build-in
	HD09-4T5P5G-S							

Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)			GW kg
	W	H	D	W1	H1	d	
Size A	100	150	125	82	140	5	1.5
Size B	116	185	145	98	174	6.5	2.7

HD 20 Multifunction Inverter



HD 20 is general mini-inverter whose power is small and its sales market is on OEM. It can realize customers' miniaturization and high-reliability application

Single phase 200 ~ 240V..... 0.25 ~ 0.4kW
 Single/Three phase 200 ~ 240V..... 0.75 ~ 2.2kW
 Three phase 380 ~ 460V..... 0.4 ~ 5.5kW

Product Features

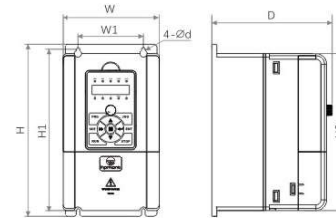
Tight structure	Structure is designed in tight and can be installed side by side.
Rich industry applications	Progress PID regulatory function. Simply PLC function. The textile pendulum frequency function. Fixed length control function. Multi-speed control.
Intellectual control mode	High-performance SVC control mode. Line, square V/f curve. User-defined V/f curve and Ace, and Dec. curve. Current and voltage amplitude auto-limiting.
Super smooth rpm tracking	Auto-tracking motor rpm and direction, realize motor smooth start without impact.
Adapt to complex grid environment	Self-start function when power on. Instantaneous drop of electricity without stop. Input voltage self-adjustment function.
Special features	Electric energy meter and running time meter. Bipolar analogue input. Remote/local switch over with one key. Various modes for Spot start.
Energy brake unit	Build-in.

Technical Data

Electrical data	
Input voltage	Single phase 200 ~ 240V Single/Three phase 200 ~ 240V Three phase: 380~460V wave deviation not exceed ±10%, unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	0~400.0Hz
Performance	
Control mode	V/f control, SVC control
Overload ability	2minutes for 150% rated output current, 10 seconds for 180% rated output current
Velocity resolutions	Digital setting: 0.01Hz, Analogue setting: 0.1% × Max.frequency
Input/Output	
Analogue power supply	+10V, load ability 100mA
Digital power supply	+24V, load ability 200mA
Analogue input	AI1 : Voltage 0~10V AI2 : (Voltage/current is selectable) -10~+10V/0~20mA Keypad potentiometer: 0~5V
Analogue output	AO1~AO2 : (Voltage/current is selectable) 0~10V/0~20mA
Digital input	DI1~DI6, Optical decoupled input *DI6 can be selected as high speed pulse input
Digital output	DO1~DO2, Optical decoupled output *DO2 can be used as high speed pulse output once again
Relay output	R1A/R1B/R1C Contactor capacity: 250VAC/3A or 30VDC/1A
Environmental characteristics	
Work temperature	-10~+40°C no deduction; Output current should be 2% derated for each 1°C over 40-50°C
Storage temperature	-40~+70°C
Use environment	Not at the direct sunlight, oily dust, corrosive gas, steamer, drops and salts
Altitude	No derating under 1000meters and derate above 1000meter and under 4000meters
Humidity	Less than 95% RH, no water drops
Vibration	3.5m/s ² in 2~9Hz 10m/s ² in 9~200Hz (IEC60721-3-3)

HD 20 Multifunction Inverter			Power Selection			Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
Size A	HD20-2S0P2G	0.25	0.6	4.3	1.7	250~350	0.05	Build-in
Size A	HD20-2S0P4G	0.4	1.0	5.8	2.5	200~300	0.05	Build-in
Size B	HD20-2D0P7G	0.75	1.5	10.5	4.0	150~250	0.08	Build-in
Size B	HD20-2D1P5G	1.5	2.8	18.5	7.5	100~150	0.1	Build-in
Size C	HD20-2D2P2G	2.2	3.8	24.1	10.0	60~100	0.2	Build-in
Size B	HD20-4T0P4G	0.4	1.0	1.8	1.4	300~400	0.08	Build-in
Size B	HD20-4T0P7G	0.75	1.5	3.4	2.3	250~350	0.1	Build-in
Size B	HD20-4T1P5G	1.5	2.5	5.2	3.8	200~300	0.2	Build-in
Size C	HD20-4T2P2G	2.2	3.4	7.3	5.1	150~250	0.25	Build-in
Size C	HD20-4T3P0G	3.0	4.8	9.5	7.2	100~150	0.3	Build-in
Size C	HD20-4T4P0G	4.0	5.9	11.9	9.0	100~150	0.3	Build-in
Size C	HD20-4T5P5G	5.5	8.5	15.0	13.0	80~100	0.5	Build-in

Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)				GW kg
	W	H	D	W1	H1	H2	d	
Size A	100	183	140	70	171	160	5	1.3
Size B	115	221	170	87	206	200	5	2.0
Size C	135	241	170	91	226	220	5	2.4



HD 30 Vector Control Inverter



HD 30 is vector control inverter with high performance and reliability and its market is on general industry.

Single/Three phase 200 ~ 240V..... 0.4 ~ 15kW
 Three phase 200 ~ 240V..... 18.5 ~ 75kW
 Three phase 380 ~ 460V..... 0.75 ~ 450kW

Product Features

SVC control mode with High performance	Speed control accuracy: $\pm 0.5\%$. Speed control range: 1:100. Torque control respond: <200ms. Start torque: 180% rated torque/0.5Hz. Open loop torque control without encoder.
Rich external card	External I/O, function process card, Internet of Things card.
Abundant industry application	Progress PID modulation function. Simple PLC function. Textile pendulum frequency. Fixed length control function.
Excellent fast rpm tracking start mode	Not depend on hardware source. 0 second it will take to track rpm and direction of the rotating motor and smooth start without impact.
Excitation function	No need external braking resistor and quick brake machine.
Good grid adaptability	AVR function, PWM Modulation function, Instantaneous drop of electricity without stop.
Product power rank higher	Product power rank reach 450kW.

Technical Data

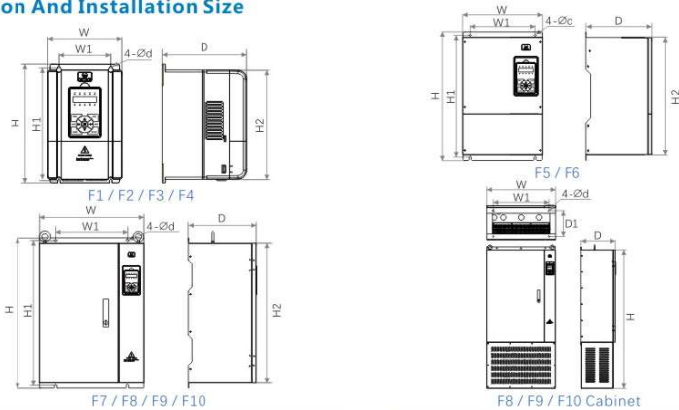
Electrical data	
Input voltage	Single/Three phase 200 ~ 240V Three phase 380~460V Wave deviation not exceed $\pm 10\%$, Unbalanced rates < 3%
Input frequency	50/60Hz $\pm 5\%$
Output voltage	0~Input voltage
Output frequency	0~400.0Hz
Performance	
Control mode	V/f control, SVC control
Overload ability	2 minutes for 150% rated output current, 10 seconds for 180% rated output current
Velocity resolutions	Digital setting: 0.01Hz, Analogue setting: 0.1% \times Max.frequency
SVC control	Speed control accuracy: $\pm 0.5\%$ Speed control range: 1:100 Torque control respond: <200ms Start torque: 180% rated torque/0.5Hz
Input/Output	
Analogue power supply	+10V, load ability 100mA
Digital power supply	+24V, load ability 200mA
Analogue input	A11 : Voltage 0~10V A12 : (Voltage/current is selectable) -10~ +10V/0~20mA *Select HD30-EIO to extend to 4 No.s
Analogue output	AO1~AO2 : (Voltage/current is selectable) 0~10V/0~20mA
Digital input	DI1~DI6, Optical decoupled input *DI6 can be selected as high speed pulse input *Select HD30-EIO to extend to 9 No.s
Digital output	DO1~DO2, Optical decoupled output *DO2 can be used as high speed pulse output once again
Relay output	R1A/R1B/R1C Contactor capacity: 250VAC/3A or 30VDC/1A *Select HD30-EIO to extend to 4 No.s
Environmental characteristics	
Work temperature	-10~ +40°C no deduction; Output current should be 2% derated for each 1°C over 40~50°C
Storage temperature	-40~ +70°C
Use environment	Not at the direct sunlight, oily dust, corrosive gas, steamer, drops and salts
Altitude	No derating under 1000meters and derate above 1000meter and under 4000meters
Humidity	Less than 95% RH, no water drops
Vibration	3.5m/s ² in 2~9Hz 10m/s ² in 9~200Hz (IEC60721-3-3)

HD 30 Vector Control Inverter			Power Selection			Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
F1	HD30-2D0P4G	0.4	1.0	5.8~2.7 ⁽¹⁾	2.5	200~300	0.05	Build-in
F1	HD30-2D0P7G	0.75	1.5	10.5~4.2 ⁽¹⁾	4.0	150~250	0.08	Build-in
F1	HD30-2D1P5G	1.5	2.8	18.5~7.7 ⁽¹⁾	7.5	100~150	0.1	Build-in
F1	HD30-2D2P2G	2.2	3.8	24.1~12 ⁽¹⁾	10	80~100	0.2	Build-in
F2	HD30-2D3P7G	3.7	5.9	40~19 ⁽¹⁾	17	60~80	0.3	Build-in
F3	HD30-2D5P5G	5.5	8.5	60~28 ⁽¹⁾	25	40~50	0.5	Build-in
F3	HD30-2D7P5G	7.5	11	75~35 ⁽¹⁾	32	30~40	0.7	Build-in
F4	HD30-2D011G	11	16	100~47 ⁽¹⁾	45	20~25	1.0	Build-in
F5A	HD30-2D015G	15	21	130~62 ⁽¹⁾	55	15~20	1.5	Build-in selection
F5	HD30-2T018G	18.5	24	77	70	10~15	2.0	Build-in selection
F6	HD30-2T022G	22	30	92	80	10~15	2.5	Build-in selection
F6	HD30-2T030G	30	39	113	110	8~10	3.0	Build-in selection
F6	HD30-2T037G	37	49	156	130	6~8	3.5	Build-in selection
F7	HD30-2T045G	45	59	180	160	4~6	4.5	HDBU-4T150
F7	HD30-2T055G	55	72	214	200	4~6	4.5	HDBU-4T150
F7	HD30-2T075G	75	100	256	253	4~6*2 ⁽²⁾	4.5*2 ⁽²⁾	HDBU-4T250
F1	HD30-4T0P7G	0.75	1.5	3.4	2.3	250~350	0.1	Build-in
F1	HD30-4T1P5G	1.5	2.5	5.2	3.8	200~300	0.2	Build-in
F1	HD30-4T2P2G	2.2	3.4	7.3	5.1	150~250	0.25	Build-in
F2	HD30-4T3P7G/5P5P	3.7/5.5	5.9/8.5	11.9/15	9.0/13	100~150	0.3	Build-in
F2	HD30-4T5P5G/7P5P	5.5/7.5	8.5/11	15/19	13/17	80~100	0.5	Build-in
F3	HD30-4T7P5G/011P	7.5/11	11/16	19/28	17/25	60~80	0.7	Build-in
F3	HD30-4T011G/015P	11/15	16/21	28/35	25/32	40~50	1.0	Build-in
F4	HD30-4T015G/018P	15/18.5	21/24	35/39	32/37	30~40	1.5	Build-in
F4	HD30-4T018G/022P	18.5/22	24/30	39/47	37/45	25~30	2.0	Build-in
F5	HD30-4T022G/030P	22/30	30/39	47/62	45/60	20~25	2.5	Build-in selection
F5	HD30-4T030G/037P	30/37	39/49	62/77	60/75	15~20	3.0	Build-in selection
F6	HD30-4T037G/045P	37/45	49/59	77/92	75/90	15~20	3.5	Build-in selection
F6	HD30-4T045G/055P	45/55	59/72	92/113	90/110	10~15	4.5	Build-in selection
F6	HD30-4T055G/075P	55/75	72/100	113/156	110/152	10~15	5.5	Build-in selection
F7	HD30-4T075G/090P	75/90	100/116	156/180	152/176	8~10	7.5	HDBU-4T150
F7	HD30-4T090G/110P	90/110	116/138	180/214	176/210	8~10	9.0	HDBU-4T150
F7	HD30-4T110G/132P	110/132	138/167	214/256	210/253	6~8	11.0	HDBU-4T150
F8	HD30-4T132G/160P	132/160	167/200	256/307	253/304	6~8	13.2	HDBU-4T250
F8	HD30-4T132G/160P-C							
F8	HD30-4T160G/200P	160/200	200/250	307/385	304/380	4~6	16.0	HDBU-4T250
F8	HD30-4T160G/200P-C							

HD 30 Vector Control Inverter			Power Selection			Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
F8	HD30-4T200G/220P	200/220	250/280	385/430	380/426	4-6	20.0	HDBU-4T250
	HD30-4T200G/220P-C							
F9	HD30-4T220G/250P	220/250	280/309	430/475	426/470	6-8 *2 ⁽¹⁾	11.0 *2 ⁽²⁾	HDBU-4T250 *2 ⁽³⁾
	HD30-4T220G/250P-C							
F9	HD30-4T250G/280P	250/280	309/349	475/535	470/530	6-8 *2 ⁽²⁾	12.5 *2 ⁽³⁾	HDBU-4T250 *2 ⁽³⁾
	HD30-4T250G/280P-C							
F9	HD30-4T280G/315P	280/315	349/398	535/609	530/600	4-6 *2 ⁽²⁾	14.0 *2 ⁽²⁾	HDBU-4T250 *2 ⁽³⁾
	HD30-4T280G/315P-C							
F10	HD30-4T315G/355P	315/355	398/434	609/664	600/660	4-6 *2 ⁽²⁾	16.0 *2 ⁽²⁾	HDBU-4T250 *2 ⁽³⁾
	HD30-4T315G/355P-C							
F10	HD30-4T355G/400P	355/400	434/494	664/754	660/750	4-6 *3 ⁽²⁾	11.0 *3 ⁽²⁾	HDBU-4T250 *3 ⁽²⁾
	HD30-4T355G/400P-C							
F10	HD30-4T400G/450P	400/450	494/560	754/852	750/830	4-6 *3 ⁽²⁾	14.0 *3 ⁽²⁾	HDBU-4T250 *3 ⁽²⁾
	HD30-4T400G/450P-C							

(1): single/three phase (HD30-2D) has two data: isolated by "-", single power supply is before it, and three phase power supply is after it.
 (2): *2, *3 means brake resistor or unit is two or three.

Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)				GW
	W	H	D	W1	H1	H2	d	
F1	135	241	162	91	226	220	5	2.4
F2	165	266	190	115	253	245	5	4.4
F3	200	299	210	146	286	280	5	5.8
F4	235	353	222	167	337	330	7	8.2
F5	290	469	240	235	445	430	8	20.4
F5A	295	448	205	235	432	418	7	19.5
F6	380	598	290	260	576	550	10	48

Size	Production Size(mm)			Installation Size(mm)				GW
	W	H	D	W1	H1	H2	d	
F7	500	721	330	343	696	670	12	80
F8	620	917	360	450	890	850	12	115
F9	740	1067	370	520	1040	1000	14	150
F10	970	1316	380	620	1286	1250	14	190
With c	W	H	D	W1	D1	-	d	kg
F8	620	1250	360	500	270	-	18	165
F9	740	1500	370	600	280	-	18	200
F10	970	1650	380	700	280	-	18	240



HD 50 is high performance vector control driver of complex and high-accuracy transmission application, facing to many fields such as crane machine, printing machine, high-end machine tool.

Three phase 380 ~ 460V..... 0.75 ~ 400kW
 Three phase 500 ~ 690V..... 18.5 ~ 400kW

Product Features

Can drive asyn. And syn. Motor	Asyn. And syn. Motor drive can be switched over only by parameter setting.
Voltage rank higher	Including 500-690VAC voltage input.
VC control mode with higher performance	Speed control accuracy: ±0.05%. Speed control range: 1:1000. Torque control respond: <50ms. Start torque: 180% rated torque/0Hz.
No trip to run	Excellent current and voltage control, advanced over-current suppression, Under any Dec. and Ace. time and impacting load, no over-current and trip can be realized.
Torque control	Torque control/ speed control can be switched over flexibly. A variety of torque given.
Tension control	A variety of tension can be selected. Build-in automatic computing module roll diameter. Advanced inertia compensation algorithm. Tension taper is flexible. Auto-testing of fracturing material.
Simple servo	Servo location mode. Principal axis orientation mode.
Rich encoder cards	Can be adaptive to all kinds of encoder with FD output.

Technical Data

Electrical data	
Input voltage	Three phase 380~460V Three phase 500~690V wave deviation not exceed±10%, unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	0~400.0Hz
Performance	
Control mode	V/f control, SVC control, VC control
Overload ability	2minutes for 150% rated output current. 10 seconds for 180% rated output current
Velocity resolutions	Digital setting: 0.01Hz, Analogue setting: 0.1% × Max.frequency
SVC control	Speed control accuracy: ±0.5% Speed control range: 1:100 Torque control respond: <200ms Start torque: 180% rated torque/0.5Hz
VC control	Speed control accuracy: ±0.05% Speed control range: 1:1000 Torque control respond: <50ms Start torque: 180% rated torque/0Hz
Input/Output	
Analogue power supply	+10V, load ability 100mA -10V, load ability 10mA
Digital power supply	+24V, load ability 200mA
Analogue input	A11 : Voltage 0~10V A12~A13 : (Voltage/current is selectable) -10~+10V/0~20mA *Select HD50-EIO to extend to 4 No.s
Analogue output	AO1~AO2 : (Voltage/current is selectable) 0~10V/0~20mA
Digital input	D11~D16: Optical decoupled input *D16 can be selected as high speed pulse input *Select HD50-EIO to extend to 12 No.s
Digital output	DO1~DO2, Optical decoupled output *DO2 can be used as high speed pulse output once again
Relay output	R1A/R1B/R1C Contacter capacity: 250VAC/3A or 30VDC/1A *Select HD50-EIO to extend to 4 No.s
Environmental characteristics	
Work temperature	-10~+40°C no deduction; Output current should be 2% derated for each 1°C over 40-50°C
Storage temperature	-40~+70°C
Use environment	Not at the direct sunlight, oily dust, corrosive gas, steamer, drops and salts
Altitude	No derating under 1000meters and derate above 1000meter and under 4000meters
Humidity	Less than 95% RH, no water drops
Vibration	3.5m/s ² in 2-9Hz 10m/s ² in 9-200Hz (IEC60721-3-3)

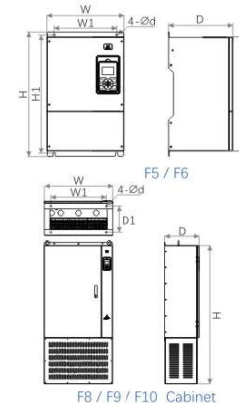
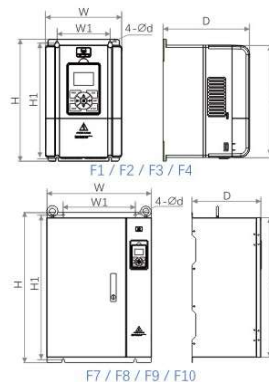
HD 50 High Performance Vector Control Driver

HD 50 High Performance Vector Control Driver			Power Selection			Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
F1	HD50-4T0P7G	0.75	1.5	3.4	2.3	250-350	0.1	Build-in
F1	HD50-4T1P5G	1.5	2.5	5.2	3.8	200-300	0.2	Build-in
F1	HD50-4T2P2G	2.2	3.4	7.3	5.1	150-250	0.25	Build-in
F2	HD50-4T3P7G	3.7	5.9	11.9	9	100-150	0.3	Build-in
F2	HD50-4T5P5G	5.5	8.5	15	13	80-100	0.5	Build-in
F3	HD50-4T7P5G	7.5	11	19	17	60-80	0.7	Build-in
F3	HD50-4T011G	11	16	28	25	40-50	1.0	Build-in
F4	HD50-4T015G	15	21	35	32	30-40	1.5	Build-in
F4	HD50-4T018G	18.5	24	39	37	25-30	2.0	Build-in
F5	HD50-4T022G	22	30	47	45	20-25	2.5	Build-in selection
F5	HD50-4T030G	30	39	62	60	15-20	3.0	Build-in selection
F6	HD50-4T037G	37	49	77	75	15-20	3.5	Build-in selection
F6	HD50-4T045G	45	59	92	90	10-15	4.5	Build-in selection
F6	HD50-4T055G	55	72	113	110	10-15	5.5	Build-in selection
F7	HD50-4T075G	75	100	156	152	8-10	7.5	HDBU-4T150
F7	HD50-4T090G	90	116	180	176	8-10	9.0	HDBU-4T150
F7	HD50-4T110G	110	138	214	210	6-8	11.0	HDBU-4T150
F8	HD50-4T132G	132	167	256	253	6-8	13.2	HDBU-4T250
F8	HD50-4T160G	160	200	307	304	4-6	16.0	HDBU-4T250
F8	HD50-4T160G-C	160	200	307	304	4-6	16.0	HDBU-4T250
F8	HD50-4T200G	200	250	385	380	4-6	20.0	HDBU-4T250
F8	HD50-4T200G-C	200	250	385	380	4-6	20.0	HDBU-4T250
F9	HD50-4T220G	220	280	430	426	6-8*2 ⁽¹⁾	11.0*2 ⁽¹⁾	HDBU-4T250*2 ⁽¹⁾
F9	HD50-4T220G-C	220	280	430	426	6-8*2 ⁽¹⁾	11.0*2 ⁽¹⁾	HDBU-4T250*2 ⁽¹⁾
F9	HD50-4T250G	250	309	475	470	6-8*2 ⁽¹⁾	12.5*2 ⁽¹⁾	HDBU-4T250*2 ⁽¹⁾
F9	HD50-4T250G-C	250	309	475	470	6-8*2 ⁽¹⁾	12.5*2 ⁽¹⁾	HDBU-4T250*2 ⁽¹⁾
F9	HD50-4T280G	280	349	535	530	4-6*2 ⁽¹⁾	14.0*2 ⁽¹⁾	HDBU-4T250*2 ⁽¹⁾
F9	HD50-4T280G-C	280	349	535	530	4-6*2 ⁽¹⁾	14.0*2 ⁽¹⁾	HDBU-4T250*2 ⁽¹⁾
F10	HD50-4T315G	315	398	609	600	4-6*2 ⁽¹⁾	16.0*2 ⁽¹⁾	HDBU-4T250*2 ⁽¹⁾
F10	HD50-4T315G-C	315	398	609	600	4-6*2 ⁽¹⁾	16.0*2 ⁽¹⁾	HDBU-4T250*2 ⁽¹⁾
F10	HD50-4T355G	355	434	664	660	4-6*3 ⁽¹⁾	11.0*3 ⁽¹⁾	HDBU-4T250*3 ⁽¹⁾
F10	HD50-4T355G-C	355	434	664	660	4-6*3 ⁽¹⁾	11.0*3 ⁽¹⁾	HDBU-4T250*3 ⁽¹⁾
F10	HD50-4T400G	400	494	754	750	4-6*3 ⁽¹⁾	14.0*3 ⁽¹⁾	HDBU-4T250*3 ⁽¹⁾
F10	HD50-4T400G-C	400	494	754	750	4-6*3 ⁽¹⁾	14.0*3 ⁽¹⁾	HDBU-4T250*3 ⁽¹⁾
F6	HD50-6T018G	18.5	24	26	22	80-100	1.5	Build-in selection
F6	HD50-6T022G	22	30	33	27	70-80	2.0	Build-in selection
F6	HD50-6T030G	30	39	39	36	50-60	3.0	Build-in selection
F6	HD50-6T037G	37	49	46	43	40-50	3.5	Build-in selection
F6	HD50-6T045G	45	59	55	52	35-40	4.5	Build-in selection

HD 50 High Performance Vector Control Driver			Power Selection			Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
F6	HD50-6T055G	55	72	75	63	30-35	5.5	Build-in selection
F7	HD50-6T075G	75	100	89	85	20-25	7.5	HDBU-6T150
F7	HD50-6T090G	90	116	128	100	15-20	9.0	HDBU-6T150
F7	HD50-6T110G	110	138	144	125	15-20	11.0	HDBU-6T150
F8	HD50-6T132G	132	167	170	144	10-15	13.0	HDBU-6T250
F8	HD50-6T160G	160	200	200	175	8-10	16.0	HDBU-6T250
F8	HD50-6T200G	200	250	235	215	8-10	20.0	HDBU-6T250
F9	HD50-6T220G	220	280	247	245	8-10	22.0	HDBU-6T250
F9	HD50-6T250G	250	309	265	260	10-15*2 ⁽¹⁾	13.0*2 ⁽¹⁾	HDBU-6T250*2 ⁽¹⁾
F9	HD50-6T280G	280	349	305	299	10-15*2 ⁽¹⁾	13.0*2 ⁽¹⁾	HDBU-6T250*2 ⁽¹⁾
F10	HD50-6T315G	315	398	350	330	8-10*2 ⁽¹⁾	16.0*2 ⁽¹⁾	HDBU-6T250*2 ⁽¹⁾
F10	HD50-6T355G	355	434	382	374	8-10*2 ⁽¹⁾	20.0*2 ⁽¹⁾	HDBU-6T250*2 ⁽¹⁾
F10	HD50-6T400G	400	494	435	410	8-10*2 ⁽¹⁾	20.0*2 ⁽¹⁾	HDBU-6T250*2 ⁽¹⁾

(1): *2, *3 means brake resistor or unit is two or three.

Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)				GW
	W	H	D	W1	H1	H2	d	
F1	135	241	162	91	226	220	5	2.4
F2	165	266	190	115	253	245	5	4.4
F3	200	299	210	146	286	280	5	5.8
F4	235	353	222	167	337	330	7	8.2
F5	290	469	240	235	445	430	8	20.4
F6	380	598	290	260	576	550	10	48
F7	500	721	320	242	606	670	12	90

Size	Production Size(mm)			Installation Size(mm)				GW
	W	H	D	W1	H1	H2	d	
F8	620	917	360	450	890	850	12	115
F9	740	1067	370	520	1040	1000	14	150
F10	970	1316	380	620	1286	1250	14	190
With C	W	H	D	W1	D1	-	d	kg
F8	620	1250	360	500	270	-	18	165
F9	740	1500	370	600	280	-	18	200
F10	970	1650	380	700	280	-	18	240

HD 3N High Performance Smart Inverter



HD 3N is small-sized of inverter with high performance facing to general industry.

Three phase 380 ~ 460V..... 7.5 ~ 75kW

Product Features

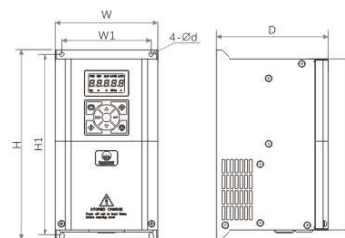
High performance, Small volume	High performance SVC control, high accuracy. Small volume, about 70% of general inverter and installation space can be saved.
Flexible digital input signal	Programmable bipolar signal input. Compatible DC and AC signal input: DC input voltage range 15VDC~56VDC, Compatible 24VDC/ 36VDC/ 48VDC; AC input voltage range 12VAC~54VAC, Compatible 36VAC/ 48VAC.
Abundant industry application	Progress PID regulatory function. Simply PLC function. The textile pendulum frequency function. Fixed length control function. Multi-speed control.
Energy brake unit	Build-in.
Standard LCD keypad	English display, Convenient to be used.

Technical Data

Electrical data	
Input voltage	Three phase 380~460V Wave deviation not exceed±10%, Unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	0~400.0Hz
Performance	
Control mode	V/f control, SVC control
Overload ability	2minutes for 150% rated output current, 10 seconds for 180% rated output current
Velocity resolutions	Digital setting: 0.01Hz, Analogue setting: 0.1% × Max.frequency
SVC control	Speed control accuracy: ±0.5%. Speed control range: 1:100. Torque control respond: < 200ms. Start torque: 180% rated torque/0.5Hz.
Input/Output	
Analogue power supply	+10V, load ability 100mA
Digital power supply	+24V, load ability 200mA
Analogue input	A11 : Voltage 0~10V A12 : (Voltage/current is selectable) 0~10V/0~20mA
Analogue output	AO1~AO2 : (Voltage/current is selectable) 0~10V/0~20mA
Digital input	DI1~DI6, Optical decoupled input *DI6 can be selected as high speed pulse input
Digital output	DO1~DO2, Optical decoupled output *DO2 can be used as high speed pulse output once again
Relay output	R1A/R1B/R1C Contactor capacity: 250VAC/3A or 30VDC/1A
Environmental characteristics	
Work temperature	-10~+40°C no deduction; Output current should be 2% derated for each 1°C over 40-50°C
Storage temperature	-40~+70°C
Use environment	Not at the direct sunlight, oily dust, corrosive gas, steamer, drops and salts
Altitude	No derating under 1000meters and derate above 1000meter and under 4000meters
Humidity	Less than 95% RH, no water drops
Vibration	3.5m/s ² in 2~9Hz 10m/s ² in 9~200Hz (IEC60721-3-3)

HD 3N High Performance Smart Inverter			Power Selection			Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
F3	HD3N-4T7P5G	7.5	11	19	17	60-80	0.8	Build-in
F3	HD3N-4T011G	11	16	28	25	40-50	1.2	Build-in
F4	HD3N-4T015G	15	21	35	32	30-40	1.5	Build-in
F4	HD3N-4T018G	18.5	24	39	37	25-30	2	Build-in
F5	HD3N-4T022G	22	30	47	45	20-25	2.5	Build-in
F5	HD3N-4T030G	30	39	62	60	15-20	3.0	Build-in
F6	HD3N-4T037G	37	49	77	75	15-20	4	Build-in selection
F6	HD3N-4T045G	45	59	92	90	10-15	4.5	Build-in selection
F7	HD3N-4T055G	55	72	113	110	10-15	5.5	Build-in selection
F7	HD3N-4T075G	75	100	156	152	8-10	7.5	Build-in selection

Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)				GW kg
	W	H	D	W1	H1	H2	d	
F3	140	260	155	122	248	235	6	5.4
F4	180	298	175	160	284	270	6	8.3
F5	220	375	190	200	360	345	7	13
F6	260	440	230	220	420	403	8	21
F7	300	555	270	240	535	515	10	36



HD 31 Multi-pump Water Supply Special Converter



HD 31 is vector control inverter that dedicated to multi-pump water supply industry and developed based on HD30.

Three phase 380 ~ 460V..... 5.5 ~ 132kW

Product Features

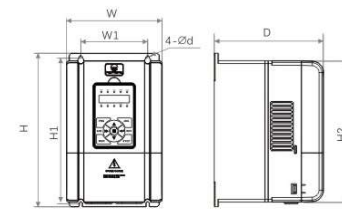
More pumps can be driven by one inverter	Max. 7 water pumps can be driven by one inverter.
Water supply in timing paragraphing and constant pressure	Max. 12 timing sections can be set to adjust pipe net pressure.
Varying frequency/power frequency can be turned to control in timing	Can realize timing turn between varying frequency and power frequency.
Smooth switching function of water pump	Ensure stable pipe pressure
Various energy saving sleep mode	More energy saving selection.
Perfect testing function	Water level testing, pipe net pressure testing.
Automatic exclusion for fault pump	Failed pump can be exclusive automatically and start the next pump at the same time.

Technical Data

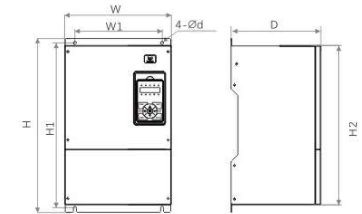
Electrical data	
Input voltage	Three phase 380~460V wave deviation not exceed ±10%, unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	0~400.0Hz
Performance	
Control mode	V/f control, SVC control
Overload ability	5 minutes for 120% rated output current, 35 seconds for 135% rated output current
Velocity resolutions	Digital setting: 0.01Hz, Analogue setting: 0.1% × Max.frequency
SVC control	Speed control accuracy: ±0.5% Speed control range: 1:100 Torque control respond: < 200ms Start torque: 180% rated torque/0.5Hz
Input/Output	
Analogue power supply	+10V, load ability 100mA
Digital power supply	+24V, load ability 200mA
Analogue input	A11 : Voltage 0~10V A12~A14 : (Voltage/current is selectable) -10~+10V/0~20mA
Analogue output	AO1~AO2 : (Voltage/current is selectable) 0~10V/0~20mA
Digital input	D11~D19, Optical decoupled input *D16 can be selected as high speed pulse input
Digital output	DO1~DO2, Optical decoupled output *DO2 can be used as high speed pulse output once again
Relay output	R1A/R1B/R1C R2A/R2C~R10A/R10C Contactor capacity: 250VAC/3A or 30VDC/1A
Environmental characteristics	
Work temperature	-10~+40°C no deduction; Output current should be 2% derated for each 1°C over 40-50°C
Storage temperature	-40~+70°C
Use environment	Not at the direct sunlight, oily dust, corrosive gas, steamer, drops and salts
Altitude	No derating under 1000meters and derate above 1000meter and under 4000meters
Humidity	Less than 95% RH, no water drops
Vibration	3.5m/s ² in 2~9Hz 10m/s ² in 9~200Hz (IEC60721-3-3)

HD 31 Multi-pump Water Supply Special Converter		Power Selection				Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
F2	HD31-4T2P2P	2.2	3.4	7.3	5.1	150~250	0.25	Build-in
F2	HD31-4T3P7P	3.7	5.9	11.9	9.0	100~150	0.3	Build-in
F2	HD31-4T5P5P	5.5	8.5	15	13	100~150	0.3	Build-in
F2	HD31-4T7P5P	7.5	11	19	17	80~100	0.5	Build-in
F3	HD31-4T011P	11	16	28	25	60~80	0.7	Build-in
F3	HD31-4T015P	15	21	35	32	40~50	1.0	Build-in
F4	HD31-4T018P	18.5	24	39	37	30~40	1.5	Build-in
F4	HD31-4T022P	22	30	47	45	25~30	2.0	Build-in
F5	HD31-4T030P	30	39	62	60	20~25	2.5	Build-in selection
F5	HD31-4T037P	37	49	77	75	15~20	3.0	Build-in selection
F6	HD31-4T045P	45	59	92	90	15~20	3.5	Build-in selection
F6	HD31-4T055P	55	72	113	110	10~15	4.5	Build-in selection
F6	HD31-4T075P	75	100	156	152	10~15	5.5	Build-in selection
F7	HD31-4T090P	90	116	180	176	8~10	7.5	HDBU-4T150
F7	HD31-4T110P	110	138	214	210	8~10	9.0	HDBU-4T150
F7	HD31-4T132P	132	167	256	253	6~8	11.0	HDBU-4T150

Production And Installation Size



F2 / F3 / F4



F5 / F6



F7

Size	Production Size(mm)			Installation Size(mm)				GW
	W	H	D	W1	H1	H2	c	
F2	165	266	190	115	253	245	5	4.4
F3	200	299	210	146	286	280	5	5.8
F4	235	353	222	167	337	330	7	8.2
F5	290	469	240	235	445	430	8	20.4
F6	380	598	290	260	576	550	10	48
F7	500	721	330	343	696	670	12	80

HD3Z Mine Special Inverter



HD 3Z is high protection rank inverter used in serious environment of mines, metallurgy, chemicals.

Three phase 280 ~ 460V..... 55 ~ 250kW

Product Features

High protection rank	Double structure protection, IP54 protection level for the whole machine and IP56 protection for the heart sections.
Built-in temperature and humidity sensor	Real-time detection for inverter using environment in temperature and humidity and displayed in keypad.
Built-in motor dehumidification	Before running, inverter will make dehumidification in according with working environment to save cost.
Timing control function design	Built-in timer, programmable time setting, inverter timing control, frequency setting switch and automatic start and stop.
Built-in OBT	OBT, MODBUS protocol, Communicate in long distance.
Built-in brake unit and resistor	Decrease cost and convenient maintenance.
LCD keypad design	English display, convenient use.

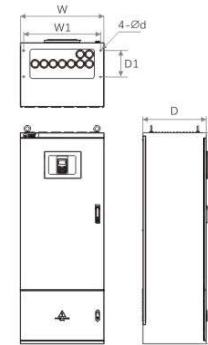
Technical Data

Electrical data	
Input voltage	Rated work: Three phase 380V Max. range: Three phase 280~460V unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	0~400.0Hz
Performance	
Control mode	V/f control
Overload ability	2minutes for 150% rated output current, 10 seconds for 180% rated output current
Velocity resolutions	Digital setting: 0.01Hz, Analogue setting: 0.1% × Max.frequency
Input/Output	
Analogue power supply	+10V, load ability 100mA
Digital power supply	+24V, load ability 200mA
Analogue input	AI1 : Voltage 0~10V AI2 : Current 0~20mA
Analogue output	AO1 : Voltage 0~10V AO2 : Current 0~20mA
Digital input	D11~D16, Optical decoupled input *D16 can be selected as high speed pulse input
Digital output	DO1
Relay output	R1A/R1B/R1C R2A/R2C~R7A/R7C Contactor capacity: 250VAC/3A or 30VDC/1A
Communication	Optical, TX, RX, MODBUS protocol. HD3Z build-in optical end machine is the single mode ST interface and user optical flange interface is ST
Environmental characteristics	
Work temperature	-10~+55°C
Storage temperature	-40~+70°C
Place	The high temperature and humidity, conductive dust in factory or mine
Humidity	0~100% RH, there may be water droplets condensation
Vibration	3.5m/s ² in 2~9Hz 10m/s ² in 9~200Hz (IEC60721-3-3)
Protection class	IP54
Pollution level	Third level /conductive pollution)

HD3Z Mine Special Inverter			Power Selection			Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
FA	HD3Z-4T055	55	72	113	110	Build-in	Build-in	Build-in
FA	HD3Z-4T075	75	100	156	152	Build-in	Build-in	Build-in
FA	HD3Z-4T090	90	116	180	176	Build-in	Build-in	Build-in
FB	HD3Z-4T110	110	138	214	210	Build-in	Build-in	Build-in
FB	HD3Z-4T132	132	167	256	253	Build-in	Build-in	Build-in
FB	HD3Z-4T160	160	200	307	304	Build-in	Build-in	Build-in
FC	HD3Z-4T200	200	250	385	380	Build-in	Build-in	Build-in
FC	HD3Z-4T220	220	280	430	426	Build-in	Build-in	Build-in
FC	HD3Z-4T250	250	309	475	470	Build-in	Build-in	Build-in

HD3Z with build-in brake unit and resistor is only used in situation brake frequency is less than 10% .

Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)			GW kg
	W	H	D	W1	D1	d	
FA	550	1650	500	497	206	14	205
FB	650	1650	500	597	206	14	240
FC	850	1650	500	797	206	14	310



MONT70 Elevator Integrated Controller

MONT71 Elevator Integrated Controller



Hall call board



Integrated controller



Car top board



Indicator in car Door motor drive Call command board

MONT70 series products are the intelligent control system with automatic control technology, power electronic technology, motor drive technology and network communication technology. On the international advanced level, MONT70 can be perfectly capable of various elevator system.

Single phase	200 ~ 240V.....	2.2 ~ 3.7kW
Single/Three phase	200 ~ 240V.....	5.5 ~ 18.5kW
Three phase	200 ~ 240V.....	22 ~ 30kW
Three phase	380 ~ 460V.....	2.2 ~ 55kW

Technical Data

Electrical data	
Input voltage	Single phase 200~240V Single/Three phase 200~240V Three phase 200~240V Three phase 380~460V wave deviation not exceed±10%, unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	0~100.0Hz
Input/Output	
Analogue input	AI : Voltage -10 ~ +10V
Digital input	X1~X24
High voltage input	X25~X28
Relay output	Y1~Y3 Contactor capacity:250VAC/5A or 30VDC/3A Y4~Y6 Contactor capacity:250VAC/3A or 30VDC/1A
Characteristic	
Floors	48F Max
Running speed	Max. 4m/s
Group number	Max.8 sets
Communication mode	CAN , Modbus

Product Model

MT70-4 T 015-X-Y

Product series

Voltage classes
2=200~240VAC
4=380~460VAC

Phase
S=Single phase power input
D=Single/Three phase input-compatible
T=Three phase power input

Matched motor power

Structure type
R=Ultrathin type
SM=Small volume type

Special functional configuration



Mont71 adapts complete parallel modes for signal transmission and meets needs of all villa and freight elevators.

Single phase	200 ~ 240V.....	2.2 ~ 3.7kW
Single/Three phase	200 ~ 240V.....	5.5 ~ 18.5kW
Three phase	200 ~ 240V.....	22 ~ 30kW
Three phase	380 ~ 460V.....	2.2 ~ 55kW

Products Features

Support high building	Max.8 floors without external card, Max. 16 floors with external card.
Economic	Complete parallel communication without additional accessories. 4 build-in high voltage input and switch can be compounded by software.
Flexible display board application method	Support display board in 7 segment, BCD code and Grey code. In addition, series communication display board is selectable.

Technical Data

Electrical data	
Input voltage	Single phase 200~240V Single/Three phase 200~240V Three phase 200~240V Three phase 380~460V wave deviation not exceed±10%, unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	0~100.0Hz
Input/Output	
Analogue input	AI : Voltage -10 ~ +10V
Digital input	X1~X24, X29
High voltage input	X25~X28
Relay output	Y0~Y24 Contactor capacity: 250VAC/3A or 30VDC/1A
Button terminals	L1~L24
Elevator basic characteristic	
Floor	10 floors in standard (can be extended to sixteen floors)
Running speed	Max. 1.5m/s
Communication mode	Complete parallel communication and series communication is selectable
Expansion board	MT70-IOB-A

Product Model

MT71-4 T 015

Product series

Voltage classes
2=200~240VAC
4=380~460VAC

Phase
S=Single phase power input
D=Single/Three phase input-compatible
T=Three phase power input

Product matched motor



Technical Data

	MTCC-Y2/Y3/Y4	MTCC-W1/W2
Speed	≤4m/s	
Max. floors	48 F	
Integrated controller	MONT70	
The man-machine exchange signal acquisition party	Complete series, series and parallel	
Standard adaptive power supply	Three phases380VAC, Three phases220VAC	
Brake voltage	110VDC	
Remote operating voltage	No	220VAC
Adaptive elevator type	Machine room	No machine room
Adaptive motor	Permanent magnet synchronous traction machine, AC asynchronous motor	
Brake resistor	Build-in	External
Mounting mode	Floor type, Wall mounting type	Floor type
Selectable function	Advanced open function (Select MT70-AOB-C) UCMP function (Select MT70-AOB-C) Brake strong excitation function (Select brake strong excitation contactor and holding resistor) Group control function (Select MT70-GCB-A) Intellectual voice intercom (Select MT70-EIOT-B) UPS function	

Product Model

MTCC - Y2 - 4 T 015 - B - E

MTCC Elevator Control Panel

Elevator type

Y2=2.2~15kW elevator with machine room
Y3=18.5~37kW elevator with machine room
Y4=45~75kW elevator with machine room
W1=2.2~15kW elevator without machine room
W2=2.2~15kW elevator without machine room

Voltage classes

2=200~240VAC
4=380~460VAC

Phase

S=Single phase power input
D=Single/Three phase input-compatible
T=Three phase power input

Contactor type in panel
E = Fuji
C = Domestic Fuji

Package board type in panel
B1 = MT70-KCB-B1
C = MT70-KCB-C

Integrated controller power classes

3P7 = 3.7kW
5P5 = 5.5kW
7P5 = 7.5kW
011 = 11kW
⋮
055 = 55kW

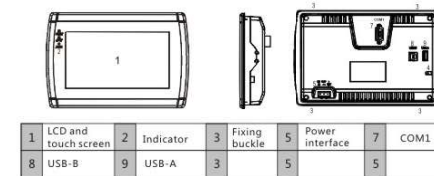
Technical Data

Electric Specification	
Voltage	DC 24V
power voltage range	DC 12V-DC 28V
Allowable instantaneous stop time	5ms
Power	8w or less
Environment characteristic	
Working temperature	-20°C ~ -60°C
Storage temperature	-20°C ~ -70°C
Working humidity	10% ~ 80%RH(no drop)
Storage humidity	10% ~ 80%RH(no drop)
Insulation resistor	DC 500V 20MΩ Above (between power and FG)
Voltage resistance	AC500V 20mA less 1 minute (between power and FG)
Preservative	Corrosion resistance protect from corrosive gas
Anti-interference	Interfering voltage : AC 1000VP-P Pulse period : 11us Duration time : 11us
Anti-vibration	As per IEC61131-2 Vibration : 10Hz~57Hz 0.075mm, 57Hz~150Hz 9.8m/s ² Vibration : 10Hz~57Hz 0.035mm, 57Hz~150Hz 4.9m/s ² 10time seperately in direction of X, Y and Z (80min)
Anti-static	As per IEC61000-4-2 , Touch release : 4KV. Air release : 8KV
Protection	Ip65(surface)
Cooling	Natural cooling
fuze rated value	1.6A/25CV

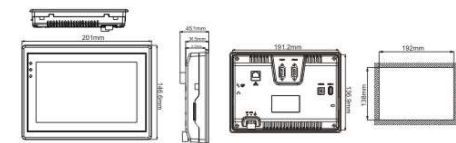


HMI Characteristic

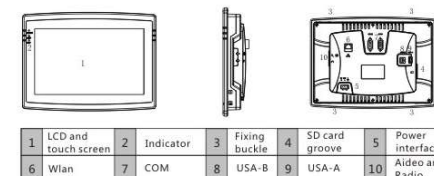
Complete functions and easy operation
Support RS232/RS485/RS422
Design in 185 interface isolation, reliable and safe communication
Only need U flash to replace PC for HMI program downloading
Project password can ensure the secret document can not be open and limit they are interpreted



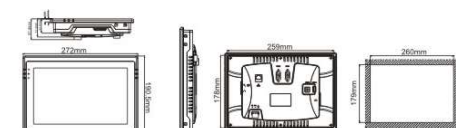
HV700LK External hardware sketch



HV700LK Installation dimension



HV102EL External fixture sketch



HV102EL Installation dimension

HDRU series can feedback the regenerative power to power network so as to reduce the power consumption, and achieve energy saving and environmental protection.

HDBU series are used to consume energy feedback to inverter during motor deceleration and realize quick energy brake control for motor.



HDRU Power Regenerative Unit				Adaptive Inverter	
Size	Product Model	Rated Feedback Current (A)	Maximum Feedback Current (A)	Voltage (VAC)	Power (kW)
FR1B	HDRU-4T025-B	25	50	380	7.5~18
FR2B	HDRU-4T050-B	50	100	380	22~37
FR2B	HDRU-4T075-B	75	150	380	45~75

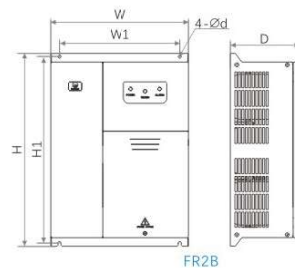
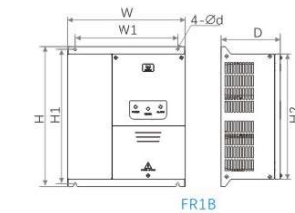


HDBU Energy Brake Unit				Adaptive Inverter
Size	Product Model	DC Input Voltage(VDC)	Max Continuous Brake Current (A)	Voltage (VAC)
FR1	HDBU-4T050	250~800	50	200~460
FR1	HDBU-4T075	250~800	75	200~460
FR1	HDBU-4T100	250~800	100	200~460
FR2	HDBU-4T150	250~800	150	200~460
FR2	HDBU-4T250	250~800	250	200~460
FR2	HDBU-6T150	850~1200	150	500~690
FR2	HDBU-6T250	850~1200	250	500~690

Product Features

Feedback function	Can replace brake unit and resistor.
Energy saving	Digital control, low harmonic pollution and high power factor.
Safety and reliability	Built-in three-phase feedback inductance and positive/negative bus's fuses.
Protection function	With perfect overcurrent, overvoltage, over-temperature, overload protection, and other protections.
Convenient running	Simply connecting three power supply cables and two busses can run automatically.
State display	There are three indicators power, regenerative and fault.
Parameter setting	Can set the parameters and check the status by the optional display panel.
Communication function	Built-in the Modbus communication interface can constitute a remote monitoring system and timely monitor the HDRU operating state.
Power Saving Indicator	Can record and check the total power.

Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)				GW
	W	H	D	W1	H1	H2	d	
FR1B	320	380	160	280	365	340	7	26
FR2B	320	555	200	280	535	510	10	34

Product Features

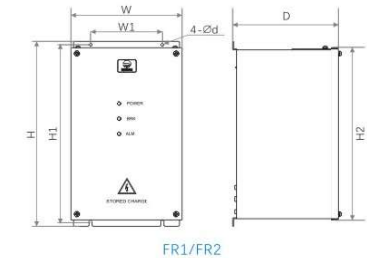
Energy brake	Should be equipped with brake resistor.
Adaptive voltage range	Various brake resistor can be selected: 380/690/750/1190VDC.
External	Support main machine parallel to increase brake efficiency.

Product Model

HDBU-4T 050

Product series
 Adaptive inverter voltage class
 4T=200~460VAC
 6T=500~690VAC
 Max. continuous brake current

Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)				GW
	W	H	D	W1	H1	H2	c	
FR1	138	190	140	120	180	176	4.5	3
FR2	185	305	180	120	292	284	5	8

Product Model

HDRU-4T 025-X

Product series

Adaptive inverter voltage class
 4T=380~460VAC
 6T=500~690VAC

Rated feedback current

Equipment No.

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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

Accessories

Accessories	Photo	Specification	HD09 HD09-S	HD20	HD30	HD31	HD3N	HD50
Expansion card								
HD30-EIO Expansion IO card		1 analogue input, selectable voltage/current -10~10V/0~20mA. 1 analogue differential input, selectable voltage/current -10~10V/0~20mA. 3 programmable bipolar selectable digital input, voltage 0~30VDC. 3 programmable relay output, contactor capacity 250VAC/3A or 30VDC/1A. 1 24VDC external power supply, max. output current 200mA.			●			
HD50-EIO Expansion IO card		1 analogue differential input, selectable voltage/current -10~10V/0~20mA. 6 programmable bipolar selectable digital input, voltage 0~30VDC. 3 programmable relay output, contactor capacity 250VAC/3A or 30VDC/1A. 1 24VDC external power supply, max. output current 200mA.						●
HD-PFT-A Pro-drive Expansion Card		2 analog inputs, voltage 0-10V 2 analog inputs, optional voltage/current -10V~10V/0~20mA 8 programmable bipolar selectable digital inputs, voltage 0~30VDC 2 analog outputs, optional voltage/current -10V~10V/0~20mA 8 programmable relay outputs, contact capacity 250VAC/3A or 30VDC/1A 2 high-speed pulse outputs, 0-50kHz 2 PT100 temperature control inputs One 24VDC external power supply, maximum output current 200mA 2 modbus communication ports, 1 CAN communication port 16K steps of program storage			●			●
Communication card								
HD-IOT-A The Internet card		10 programmable bipolar selectable digital input, voltage 0~30VDC. 1 modbus communication terminal. 1 external DC 24V power input.	▲	▲	▲	▲	▲	▲
HDFB- PROFIBUS-DP Communication card		PROFIBUS-DP Communication card.	▲	▲	▲	▲	▲	▲
HDFB-CAN Communication card		CAN Communication card.						●
HD-RJ45-IO		Modbus communication pinboard can transfer modbus signal from standard RJ45 terminal to 3 pin terminal.	▲	▲	▲	▲	▲	▲
Encoder card								
HD-PG1-OC OC Encoder card		Adaptive to asyn. Motor. Support differential, OC and Push-pull input. Support ABZ signal. Provide 12V power supply.						●
HD-PG2-OC-FD OC encoder card with FD output		Adaptive to asyn. Motor. Support differential, OC and Push-pull input. Provide 12V power supply. With FD output.						●
HD-PG5-SINCOS-FD sincos encoder card with FD output		Adaptive to syn. Motor. Support SINCOS signal input. Provide 5V power supply. With FD output.						●
HD-PG6-UVW-FD long line drive encoder card with FD output		Adaptive to syn. Motor. Support long line input. Support ABZ, UUV signal input. Provide 5V power supply. With FD output.						●

Accessories	Photo	Specification	HD09 HD09-S	HD20	HD30	HD31	HD3N	HD50
Encoder card								
HD-PG8-ABZ long line drive encoder card		Adaptive to asyn. Motor. Support long line input. Support ABZ signal input. Provide 5V power supply. With FD output.						●
HD-PG10-RES-FD rotation transformer encoder card		Adaptive to syn. Motor. Support feedback signal SIN+/-, COS+/-. Support excitation output signal EXC+/-.						●
HD-PG11-SC-FD series communication encoder card		Adaptive to syn. Motor. Support series communication. Support endat protocol. Provide 5V power supply.						●
Keypad and mounting accessories								
HD-LCD keypad		LCD big screen English display.	▲	●	●	●	▲	Build-in
HD-LED keypad		Five LED digital display.	▲	●	Build-in	Build-in	▲	●
HD-LED-P keypad with potentiometer		Five LED digital display and with one potentiometer analogue input. 9 button.	▲	Build-in	●	●	▲	●
HD-LED-P-S Small-sized keypad with potentiometer		Small five LED digital display and with one potentiometer analogue input.	▲	▲	▲	▲	▲	▲
HD-KMB External mounting base of keypad		Adaptive to keypad: HD-LCD, HD-LED, HD-LED-P, HD-LED-L (open hole size see figure 1).	▲	▲	▲	▲	▲	▲
HD-KMB-S Small External mounting base of keypad		Adaptive to keypad: HD-LED-P-S (open hole size see figure 2).	▲	▲	▲	▲	▲	▲
HD-CAB-1M HD-CAB-2M HD-CAB-3M HD-CAB-6M		External cable 1 meter, 2meters, 3meters, 6meters.	▲	▲	▲	▲	▲	▲

Note: ● is build-in selection, ▲ is build-out selection.

Open Hole Size mm

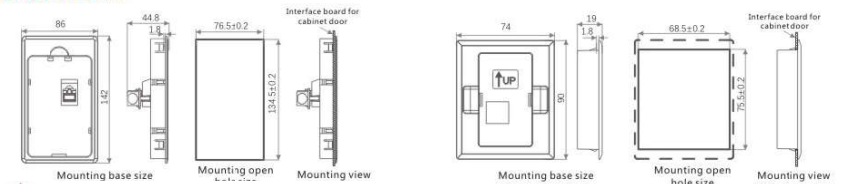


figure 2 HD-KMB-5 Mounting size

AC input reactor	Used to increase input power factor, decrease higher harmonic at input side, reduce unbalance influence of three phases input power.
AC output reactor	When motor cable is exceed over 100meters, AC output reactor should be selected. Current leakage brought by motor cable dV/dt can be reduced to protect motor.
DC reactor	Used to increase input power factor, decrease input higher harmonic, reduce radiated interference.

Adaptive Inverter Power	Reactor Selection		
	AC Input Reactor	AC Output Reactor	DC Reactor
37	HD-AIL-4T037	HD-AOL-4T037	F-D-DCL-4T037
45	HD-AIL-4T045	HD-AOL-4T045	F-D-DCL-4T045
55	HD-AIL-4T055	HD-AOL-4T055	F-D-DCL-4T055
75	HD-AIL-4T075	HD-AOL-4T075	F-D-DCL-4T075
90	HD-AIL-4T090	HD-AOL-4T090	F-D-DCL-4T090
110	HD-AIL-4T110	HD-AOL-4T110	HD-DCL-4T110
132	HD-AIL-4T132	HD-AOL-4T132	HD-DCL-4T132
160	HD-AIL-4T160	HD-AOL-4T160	HD-DCL-4T160
200	HD-AIL-4T200	HD-AOL-4T200	HD-DCL-4T200
220	HD-AIL-4T220	HD-AOL-4T220	HD-DCL-4T220
250	HD-AIL-4T250	HD-AOL-4T250	HD-DCL-4T250
280	HD-AIL-4T280	HD-AOL-4T280	HD-DCL-4T280
315	HD-AIL-4T315	HD-AOL-4T315	Build-in
355	HD-AIL-4T355	HD-AOL-4T355	Build-in
400	HD-AIL-4T400	HD-AOL-4T400	Build-in



The customer is center, full support, quick response, can provide overseas customer service



South area

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Phone: +86 852 9012 7888

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Tel: +86 189 0248 6826

Donguan Office
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Tel: +86 189 4871 3823

Quanzhou Office
Add: Building 25, Haisi Jingcheng, Jinjiang Chidian Town, Fengze District, Quanzhou City.
Tel: +86 189 4871 3895

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Tel: +86 189 4871 3829

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Changyuan Office
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Chengdu Office
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Tel: +86 189 4872 8109

Kunming Office
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Tel: +86 189 2286 7803