

Kinda



Company Profile

Established in 2010, Shenzhen Kinda Technology Co., Ltd is a professional manufacturer, specialize in R&D and production of AC drives.

We have built up a comprehensive product family. Frequency inverters' power covers the range from 0.4 to 630kW, and voltage range is between 220V and 480V. More than **500, 000 units** of Kinda inverters are running smoothly at different industrial sites.

We believe “*quality is Kinda's life*”, “*every product is Kinda's promise*”. We put it into practice at purchase, R&D, manufacturing and service processing. Lots of solid work had been done to enhance the products' quality. With years of persistence, the total failure ratio of Kinda frequency inverters has been controlled below 1%. We never lose a customer because of the quality problem.

Kinda will always persist in the quality principle, focus on the AC drive technology, and try its best to provide the cost-effective products to our partners.

Join us, enjoy the business.



➔ Company Tour



Production Line



PCB Aging Test



Finished Products Aging Test



Warehouse



Electrostatic Test



Surge Test



Environmental Test

➔ Certificates



Software Certificate

➔ Production Processing



IQC



Components Test



Assembly



Loading Test



SMD



PCBA Coating



50°C Aging Test (24 hours)



Packing & Dispatching

R&D

- Kinda's R&D core team members have more than ten years working experiences in frequency inverters field.
- Good management of software core algorithm.
- Better knowledge and experiences for variable applications.
- Strong ability for customized functions design.
- Young team, dynamic, motivated.
- Market-oriented developing.

⇒ Kinda Management Idea



- ✘ Kinda's just like a ball on the slope.
- ✘ Innovation is the power to pull the ball to go up.
- ✘ Delicacy management is the inverse power to prevent the ball going down.

Delicacy Management

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Detail Management + 100% Executive Ability

KD100

KD200



Input & Output delay.

Flexible parameter display.

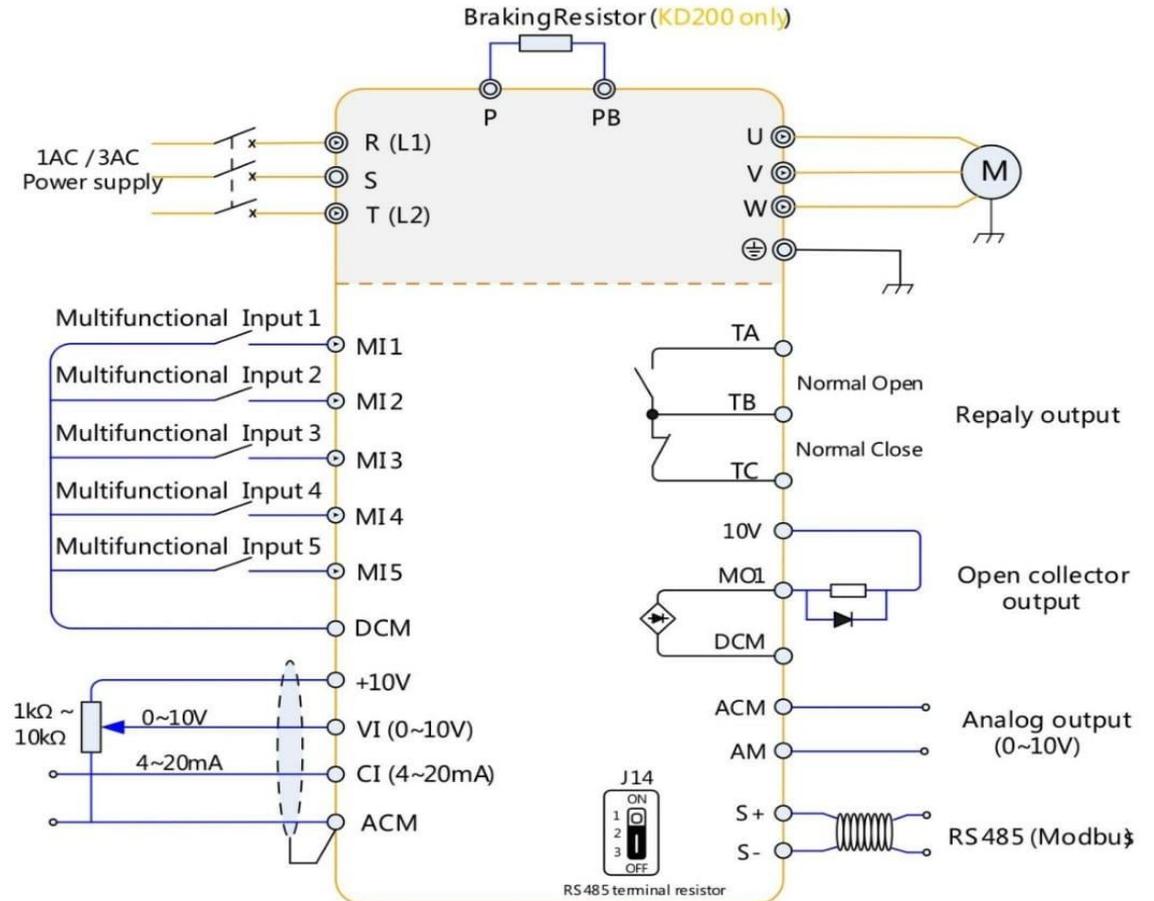
Timing control, fixed length control, etc.

Simple PLC, 16-steps speed control.

S curve acceleration / deceleration.

Multi-functional programmable keypad.

Robust design, failure ratio < 1%.



KD100 & KD200 economical series frequency inverters are special designed for small power applications, from 0.4~7.5kW.

➔ Specifications

Input & Output

Input voltage	1AC 220~240V (± 15%)
	3AC 220~240V (± 15%)
	3AC 380~460V (± 15%)
Input frequency	50Hz/60Hz ±5%
Output voltage	0~input voltage deviation <± 3%
Output frequency	0~ 600Hz

Control Characteristics

Control mode	V/f control Sensor-less vector control
Speed accuracy	±0.5% (V/f) ±0.2% (SVC)
Speed fluctuation	±0.3% (SVC)
Torque response	< 10ms(SVC)
Starting torque	0.5Hz: 180% (V/f) 0.25Hz: 180% (SVC)
Overload capability	150% Rated Current 60s, 180% Rated Current 10s, 200% Rated Current 1s.
Simple PLC, Multi - step speed	16 steps speed
PID function	Standard build -In
Communication	Modbus

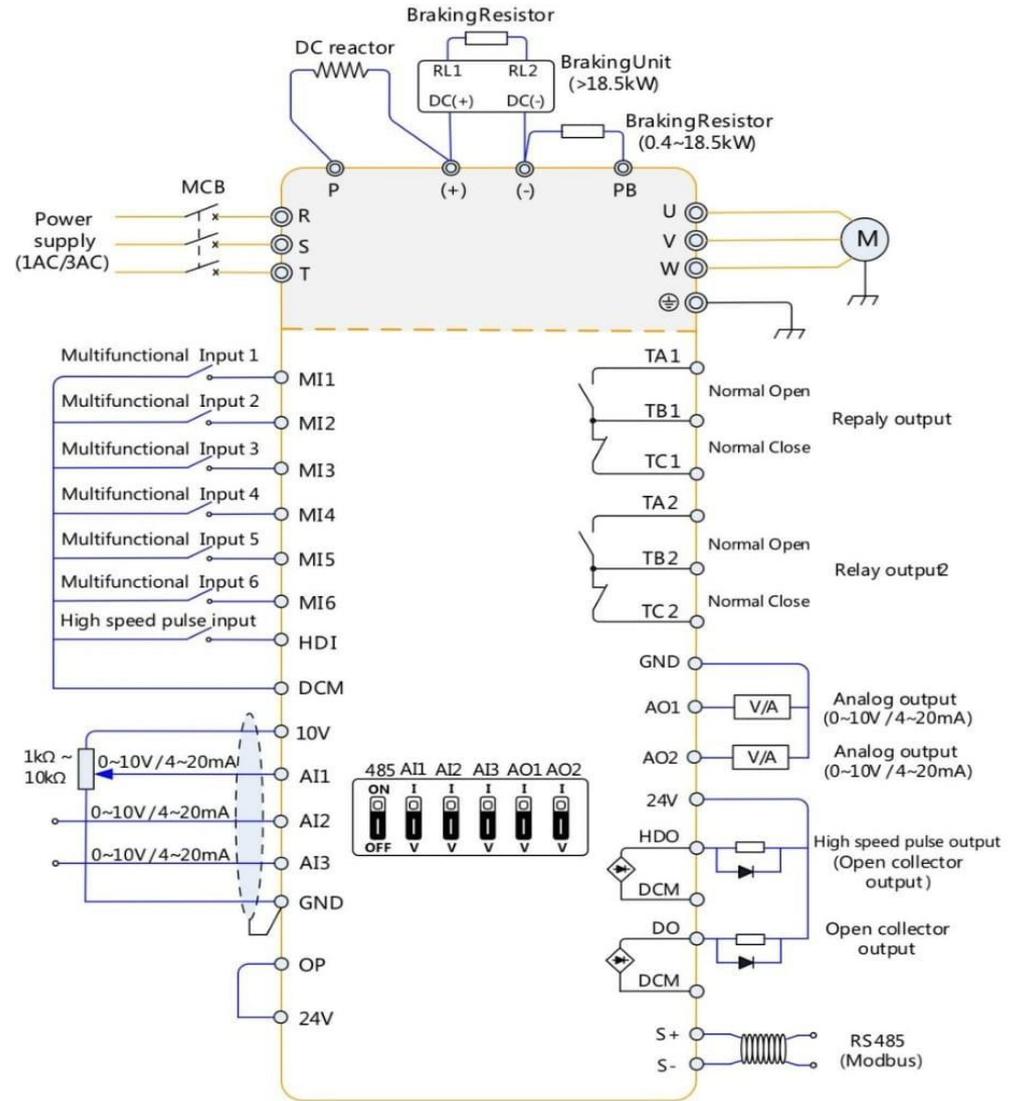
➔ Selection

Model	Output power (kW)	Input current (A)	Output current (A)	Size & Weight
KD100-00040S2	0.4	6.5	2.3	142*85.5*113mm 1.1kg
KD100-00075S2	0.75	9.3	4	
KD100-00150S2	1.5	15.7	7	
KD100-00075T4	0.75	3.4	2.5	
KD100-00150T4	1.5	5.0	4.2	
KD200-00075S2	0.75	9.3	4.2	152*101*117mm 1.5kg
KD200-00150S2	1.5	15.7	7.5	
KD200-00220S2	1.5	24	9.5	
KD200-00075T2	0.75	4.9	4.2	
KD200-00150T2	1.5	9.0	7.5	
KD200-00220T2	2.2	11	9.5	264*130*153.5mm 3.5kg
KD200-00400T2	4.0	20.5	17	
KD200-00075T4	0.75	3.4	2.5	152*101*117mm 1.5kg
KD200-00150T4	1.5	5.0	4.2	
KD200-00220T4	2.2	5.8	5.5	
KD200-00400T4	4.0	11	9.5	264*130*153.5mm 3.5kg
KD200-00550T4	5.5	14.6	13	
KD200-00750T4	7.5	20.5	17	

KD330



- General purpose frequency inverter
- V/f, Sensorless Vector Control (SVC)
- C3 level EMC filter build-in
- Smart start / stop function
- Robust design, high overload capacity
- Abundant input & output terminals
- Onsite failure ratio < 1%



➔ Specifications

Input & Output

Input voltage	1AC 220~240V(± 15%)
	3AC 220~240V(± 15%)
	3AC 380~460V(± 15%)
Input frequency	50Hz/60Hz ± 5%
Output voltage	0~ input voltage, deviation < ±3%
Output frequency	0~ 600Hz

Control Characteristics

Control mode	V/f control
	Sensor-less vector control
	Torque control
Speed accuracy	± 0.5% (V/f)
	± 0.2% (SVC)
Speed fluctuation	± 0.3% (SVC)
Torque response	< 10ms (SVC)
Starting torque	0.5Hz : 180% (V/f)
	0.25Hz : 180% (SVC)
Overload capability	150% Rated Current 120s,
	160% Rated Current 60s
	180% Rated Current 10s,
	200% Rated Current 3s.
Simple PLC, Multi-step speed	16 steps speed
PID function	Standard build-in
Communication	Modbus

Featured functions

Featured functions	Input & Output delay
	Smart start /stop function
	C3 level EMC filter inside
	Flexible parameters display
	AVR (Automatic Voltage Regulation)
	Timing control , fixed length control ,etc.
	Simple PLC, 16-steps speed control
	Torque control build-in
	S curve acceleration/deceleration
	Multi-functional programmable keypad
V/f separated control	

Environment requirements

Installation location	Without direct sunlight , free from dust, corrosive gases, oil mist, flammable gases , water vapor, water drop and salt, etc.
	0~ 2000 m Derated 1% for every 100m when the altitude is above 1000 meters
Ambient temperature	-10°C ~ 50°C
Storage temperature	-20°C ~ +60°C
Relative humidity	5~ 95%, no condensation

→ Features of KD330

C3

★ EMC Filter

C3 level filter build-in standardly
Better EMC performance

0s

★ ACC /DEC time

Smart start/stop function
ACC/DEC time can be set as 0s
Start/stop the motor in shortest time

200%

★ Overload capacity

150% for 120 seconds
160% for 60 seconds
180% for 10 seconds
200% for 1 seconds

50°C

★ Ambient temperature

Without derating up to 50°C
Robust design
Optimized cooling system

180%

★ Start torque

0.5Hz/150% (V/f)
0.25Hz/180% (SVC)

± 15%

★ Input voltage fluctuation

Flexible with big voltage fluctuation
Motor runs stably, high reliability

**S
curve**

★ **S Curve**

S curve acceleration/deceleration
Better start /stop performance



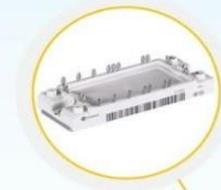
★ **Keypad**

Detachable
Standard internet cables used
35 meters can be extended
Two lines display (>7.5kW)

**Flying
start**

★ **Flying start function**

Restart the running motor smoothly
No current surge
High accuracy



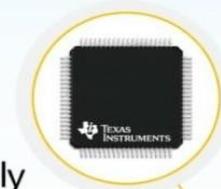
★ **IGBT**

Selection of large margin
Current > 2 times of inverter current

**V/f
Separate**

★ **V/f separate function**

Output voltage & current can be set separately
Different types of power supply can be achieved



★ **CPU**

Latest technology of TI
High speed
High performance
High reliability

➔ Selection Guide

KD330- 00075 T 4

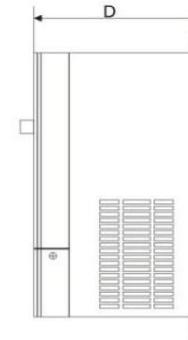
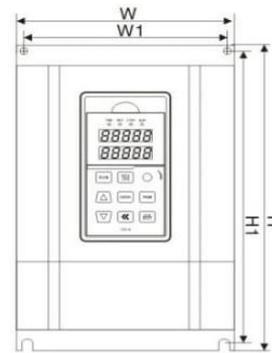
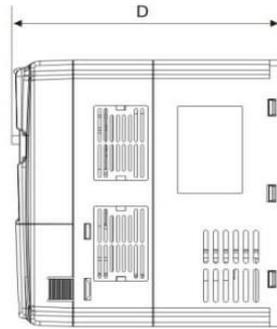
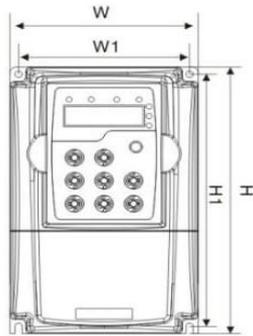


Model	Output power (kW)	Input current (A)	Output current (A)	Size (H*W*D) Weight
KD330-00040S2	0.4	5.4	2.3	175*93*147mm 1.1kg
KD330-00075S2	0.75	9.3	4.2	
KD330-00150S2	1.5	15.7	7.5	
KD330-00220S2	1.5	24	9.5	175*107*172.9mm 2.4kg
KD330-00075T4	0.75	3.4	2.5	
KD330-00150T4	1.5	5.0	4.2	
KD330-00220T4	2.2	5.8	5.5	
KD330-00400T4	4.0	11	9.5	255*150*180mm 3.8kg
KD330-00550T4	5.5	14.6	13	
KD330-00750T4	7.5	20.5	17	
KD330-01100T4	11	26	25	375*210*196mm 10.8kg
KD330-01500T4	15	35	32	
KD330-01850T4	18.5	38.5	37	

Model	Output power (kW)	Input current (A)	Output current (A)	Size & Weight
KD330-02200T4	22	46.5	45	440*285*206mm 16.8kg
KD330-03000T4	30	62	60	
KD330-03700T4	37	76	75	
KD330-04500T4	45	92	91	600*385*267.7mm 39kg
KD330-05500T4	55	113	112	
KD330-07500T4	75	157	152	659*413*327mm 60kg
KD330-09000T4	90	180	176	
KD330-11000T4	110	214	210	849*480*389mm 101kg
KD330-13200T4	132	260	253	
KD330-16000T4	160	310	304	
KD330-18500T4	185	365	350	1060*650*380.5mm 156kg
KD330-20000T4	200	385	377	
KD330-22000T4	220	430	426	
KD330-25000T4	250	485	470	
KD330-28000T4	280	531	520	
KD330-31500T4	315	620	600	1361.5*800*393mm 260kg
KD330-35500T4	355	665	650	
KD330-40000T4	400	785	725	
KD330-45000T4	450	880	820	
KD330-50000T4	500	960	900	

★ Please refer to user manual for KD330 3AC 220V selection.

➔ Dimensions



Model	H	W	D	H1	W1
KD330-00075S2	175	93	143	165	69
KD330-00075S2					
KD330-00150S2					
KD330-00220S2	185	107	172.9	175	118
KD330-00075T4					
KD330-00150T4					
KD330-00220T4					
KD330-00400T4	255	150	180	242	137
KD330-00550T4					
KD330-00750T4					

Model	H	W	D	H1	W1	Aperture
11~18.5kW	375	210	196	362.5	160	7
22~37kW	440	285	206	424	238	9
45~55kW	600	385	267.7	580	260	10
75~90KkW	659	413	327	635	293	12
110~160kW	849	480	389	822.5	369	12
185~280kW	1060	650	380.5	1030	420	12
315~450kW	1361.5	800	393	1300	520	16
500~630kW	1550	950	485	1475	560	16

➔ Products Advantages



- ◆ 120% long time running without trip.
- ◆ 150% for 60 seconds
- ◆ 180% for 10 seconds
- ◆ 200% for 1 second

Big overload capacity



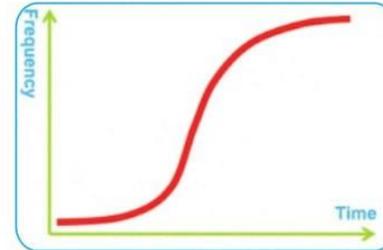
- ◆ Strong software and hardware.
- ◆ 0.5Hz/150% (V/f)
- ◆ 0.25Hz/180% (SVC)

High output torque at low frequency



- ◆ Better current limitation performance.
- ◆ Stops smoothly in very short time for heavy load.

Fast stop performance



- ◆ S curve acceleration / deceleration.
- ◆ Better start & stop performance.

S curve



- ◆ Compatible with $\pm 15\%$ input voltage fluctuation, output voltage keeps stable.
- ◆ Avoid low frequency oscillation for big power motor.



- ◆ Voltage and frequency can be set separately.
- ◆ Suitable for some special applications.

➤ Typical Applications



Printing & Dyeing



Packing machine



Wire Drawing Machine



Water Supply



Motor Control



Construction Hoist



Textile



Industrial Washing Machine



Ball Mill

➔ Kinda AC drives' performance in some typical applications

No.	Load Category	Details of Load	Requests	Features of Kinda VFD
1	CNC machine	Grinding machine, cutting	High output torque at low frequency, high speed accuracy	High control accuracy
2	Highspeed puncher	Smithing, punching press	High speed accuracy, good stop performance	Fast response
3	Stone machinery	Stone cutting machine, stone grinding machine	Large inertia, braking unit and resistors are necessary	Running stable
4	Washing machine	Industrial washing machine	Multi-step speed, high output torque while washing, short stop time	Multi-step speed running, fast stop
5	Wire drawing machine	Different types of wire drawing machines, winder	Heavy load, high torque at low frequency	High output torque at low frequency
6	Printing machine	Screen printing	High speed accuracy, good stop performance, continuous FWD/REV running	Good stop performance, running stable
7	Ball mill	Cementplant ball mill. Ceramics ball mill	Bad ambient environment, big start current	Good start performance, high energy saving ratio
8	Windlass	Winding and unwinding	Heavy load	High output torque at low frequency
9	Crusher machine	Stone and mine	Heavy load, energy saving, start smoothly	High output torque at low frequency, high energy saving ratio, running stable
10	Carving machine	Wood carving and stone carving machine	Multi-step speed	Fast response
11	Fans	Different types of fans	Different requests ACC/DEC time, speed tracking start.	High energy saving ratio Reliable flying start
12	Pumps	Different types of pumps	1. PID is necessary for constant pressure water supply. 2. Output reactor is necessary while motor cable is too long. 3. For heavy load pump, VFD should be selected in a higher size.	PID control, running stable
13	Air compressor	Different types of air compressor	PID control, low frequency limitation is about 22~25Hz	Running stable, high energy saving ratio
14	Transmission equipment	Factory assembly line, conveyer etc.	Basic speed adjust, working smooth with control system	Running stable
15	Mixing equipment	Wind dispersing machine, mixers	For the big dynamic viscosity material system, VFD should be selected in a higher size.	High output torque at low frequency



❖ *for further details or information, please contact:-*

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