



Innovation/Technology/High Quality

VFD500 series high performance AC drive



ShenZhen VEIKONG Electric CO., Ltd.

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SHENZHEN VEIKONG ELECTRIC CO., LTD VEIKONG INDUSTRIAL CO., LIMITED (HK)

Company Profile

Automatic production line





Brief introduction

Shenzhen Veikong Electric CO.,Ltd. a high-tech enterprise which has been specializing in researching, manufacturing and trading high, medium and low voltage inverter, providing our clients with integrated system solutions. We have professional R&D and devoted management team with more than 20 years' experience of theoretical research, product development and quality management. Veikong also is one of the first independent AC drives company in China. We adopt SPWM, sensorless vector control and vector and torque control technology in our VFD series inverters, which has reached the international advanced standard. The products can directly replace and be equivalent of Europe and the United States, Japan and other brands, providing customers with a powerful technical support. We have achieved popularity and qualification in VFD industry. Quality is the life of enterprise.

Veikong drives keeps following ISO9001 standard to manage and supervise quality. Our products have passed CE certification and other technical approval. To better meet customer requirements and market needs, Veikong drives keeps on upgrading new technologies and new products.

The customer is the source of enterprise. We are honored to put top priority on customers' requirements as well as achieving their requirements. Our products have been widely used in petroleum, chemical, melting, hoisting, electric power, building materials, water supply, plastics, textiles, printing, packing and other industries to create value for customers.













PCBA Production Line and Test







Burn-in

Lacquer

Assemble







Automatic PCBA ATE test platform



Automatic FLASH test platform

Company Profile

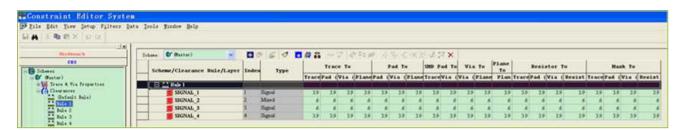
Strong develop ability

VEIKONG

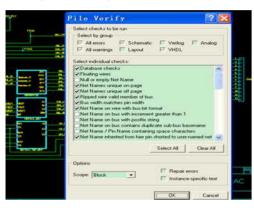
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Strong R&D Power

■ Board design: ECAD design platform-Mentor,Network design constraint Netclass(set network width and distance)

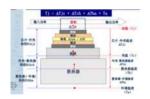


■ Shematic diagram interdesign with PCB to a perfect extent with complete serious checking function





■ Power module design platform-heat model design



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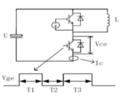


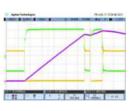


IGBT Dynamic Junction Temperature

■ Power Electronics design-IGBT Pulse Test

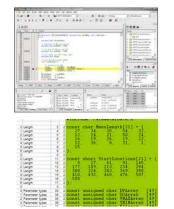




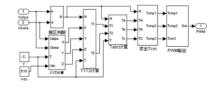


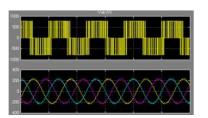


■ Software design: powerful function:Simulink-MotorConrol simulation platform:









Advanced Instruments and Equipments









Thermal imaging system

Programming integrated testing system

PM3000 power analyzer











Programming temperature box

Programming high voltage insulator

Signal generator



Signal analyzer



■ Professional EMC& safety





AC source Surge Noise coupler EFT



8KV high voltage probe systems

ESD tester



Safty instruments

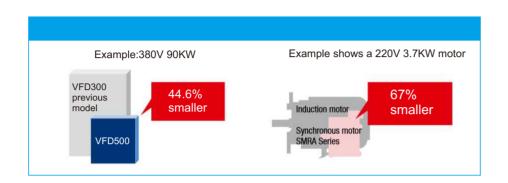
VEIKONG VFD500 inverters



Drive design & features

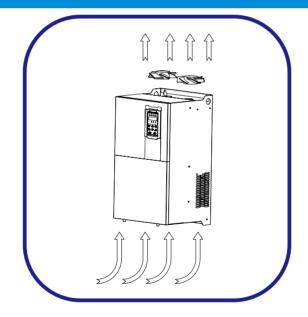
Even more compact

- VEIKONG continues to make applications even smaller by combining the compact designed drive with the light, efficient design of a synchronous motor.
- Use Side-by-Side installation for an even more compact setup.
- Finless models available*.



Independent duct design

- Independent air duct design, effectively preventing dust entering inverter, causing short-circuit and other faults and improving reliability
- Use bigger air volume and long life cooling fan effectively reduces the internal temperature rise of the inverter and ensures reliable and stable operation of inverter.



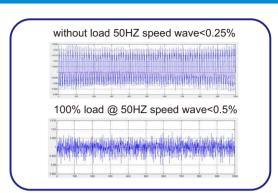
Perfect protection system

- Designed for 10 years of maintenance-free operation.
- Cooling fan, capacitors, relays, and IGBTs have been carefully selected and designed for a life expectancy up to ten years.



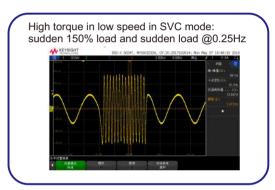
High speed accuracy and wide speed range

- High speed accuracy and wide speed range Steady speed accuracy: ±0.5% (SVC), ±0.02% (VC) Speed range: 1:200 (SVC), 1:1000 (VC) Heavy load overload capability:
- 110% rated current for long-term stable operation 150% rated current for 1 minute 180% rated current 10s



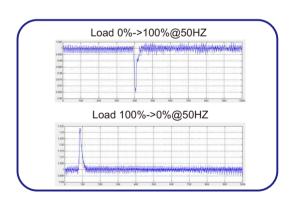
High torque in low speed, fast response

- High torque in low speed, fast response Load capacity in low speed:
- VF: 180%@0.50Hz SVC: 180%@0.25Hz VC: 200%@0.00Hz



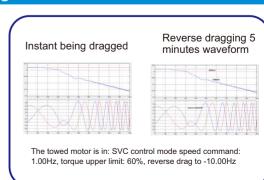
Rapid response to impact loads

When it meets with sudden load change, inverter can quickly restore the speed, reduce the speed fluctuation, and ensure the production stability and high quality finished products.



Optimized SVC algorithm, stable operation in power generation

- At present, most of the inverters can not work stably under the SVC control mode (especially in the case of being reversed).
- VFD500 can run very well, and it achives great convenience in some special applications (such as tension control in rewinding and winding).



^{*} Coming soon

VEIKONG VFD500 inverters



Advanced motor control

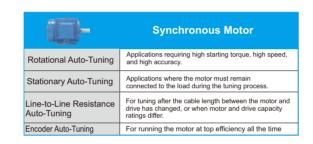
Advanced drive technology

- Capable of driving different types of motor. VFD500 series runs not only induction motors, but also synchronous motors lice IPM*1 and SPM*2 motors with high performance open and closed loop vector control.
- Minimize equipment needed for your business by using the same drive to run induction and synchronous motors.
 - *1 Interior Permanent Magnet Motor (Motors with permanent magnets inserted into the rotor)
- *2 Surface Mounted Permanent Magnet Motor (Motors with permanent magnets mounted on the surface of the rotor)



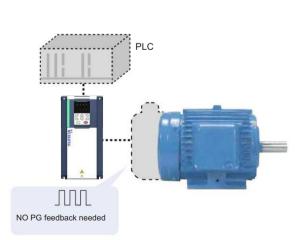
New Auto-tuning features

- Auto-Tuning features optimize drive parameters for operation with induction motors as well as synchronous motors to achieve the highest performance levels possible.
- Optimizing not only the drive and motor performance, but also automatically adjusts settings relative to the connected machinery.
- New Auto-Tuning methods. VFD500 continuously analyzes changes in motor characteristics during operation for highly precise speed control.



A Service of the serv	Tuning the Load
ASR*Tuning	Perfects responsiveness relative to the machine. Until now, this tuning procedure was fairly time consuming to set.
Inertia Tuning	Optimizes the drive's ability to decelerate the load. Useful for applications using Kinetic Energy Buffering Function and Feed Forward functions.

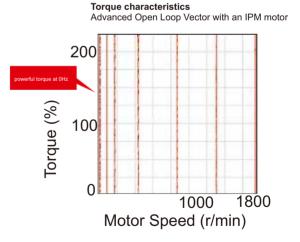
Positioning Capability without External Devices



- ▶ Use an IPM motor to perform position control without motor feedback. Electrical saliency in IPM motors makes it possible to detect speed, direction and rotor position without the use of external feedback devices.
- Positioning functionality without a PLC. Visual programming in DriveWorcsEZ eliminates the need for external controllers by giving the user the power to create customized functions such as position control.

Powerful Torque Characteristics

- Powerful torque at 0 Hz, without sensors or feedback devices. Until recently, sensorless control has been out of reach for synchronous motors.
- VFD500 series provides powerful starting torque algorithm without relying on pole sensors or motor feedback.
- High-performance current vector control achieves powerful starting torque with an induction motor.



	Synchronous Motor
Advanced Open Loop Vector for PM motors	200% rated torque at 0 r/min*, speed range of 1:100*
Closed Loop Vector Control for PM motors	200% rated torque at 0 r/min, speed range of 1:1500

	Induction motor
Open Loop Vector Control	200% rated torque at 0.3 Hz*, speed range of 1:200
Closed Loop Vector Control	200% rated torque at 0 r/min*, speed range of 1:1500

Proper output torque depends on matching drive and motor capacity

^{*} only IPM motor

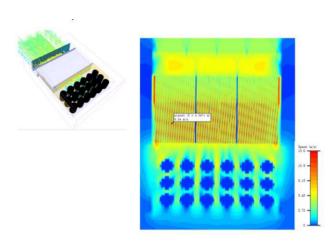
VEIKONG VFD500 inverters



Stable and reliable

Deceleration over excitation function

- Accurate thermal simulation platform software ensures the reliability of thermal simulation.
- ▶ Each VFD500 inverter has undergone thermal simulation testing, and only the physical prototype is developed within the scope of the thermal simulation safety design requirements. After the actual test, the thermal simulation results are very close to the physical test results. In the limit test state, the thermal simulation can replace the actual load simulation and an additional layer of scientific thermal test.



Rigorous temperature rise test

- The whole machine temperature rise test uses the most severe cyclic overload test to meet the long-term reliable operation under extreme load conditions.
- Cyclic overload test: 1.5 times overload current for 1 minute, ambient current for 4 minutes, and 1.5 times operation for 1 minute at ambient temperature of 40°.
- ▶ This continuous cycle operation, 1 cycle for 5 minutes, until the system reaches the thermal equilibrium state, the whole machine is within the thermal design safety range.

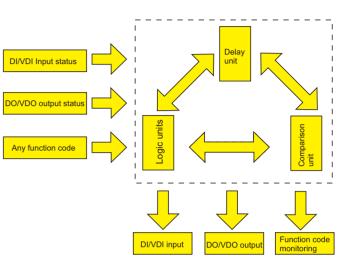


Complete protection

- ▶ The whole series has output to ground short circuit protection, over current protection, drive overload protection, motor overload protection, drive over temperature protection, optional PT100/PT1000 motor over temperature protection.
- According to the type of fault, it can be set as fault free stop, fault deceleration stop, fault continue to run, and facilitate the on-site handling of emergency situations.
- Adopting multiple high-quality three-proof paint to enhance the environmental adaptability of the product. The three-proof paint adopts the automatic spraying process to ensure the uniformity of the thickness of the coating and the consistency of the batch.

Powerful internal logic

- 1,Built-in up to 6 sets of delay functions, a wide variety of input sources, the output can be used as a variety of other built-in module inputs.
- 2, Built-in up to 4 sets of comparator units, any input, multiple comparison functions, the output can be used as a variety of other built-in module inputs.
- 3,Built-in up to 4 sets of logic units, arbitrary inputs, multiple logic operations, and outputs can be used as inputs for various other built-in modules.
- 4,The above modules can be used alone or in combination to achieve complex internal logic functions to meet various applications, saving peripheral equipment and wiring.



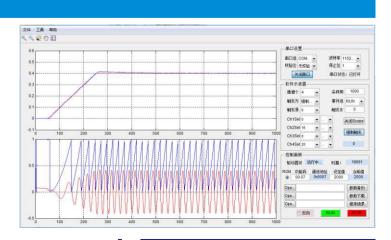
Rich expansion function

- Standard ModbusRTU communication function, support for fieldbus such as Profibus-DP, CanOpen, etc.
- Supports incremental encoders and resolvers, where incremental encoders are compatible with differential encoders and open collector encoders.
- ▶ Support for IO expansion



Powerful debugging software

- ▶ Support online oscilloscope function
- Support parameter backup and download
- Support function parameter modification
- Support inverter software online upgrade



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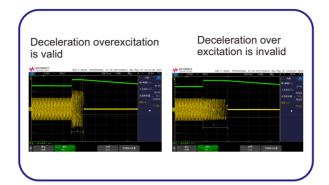
VEIKONG VFD500 inverters



Multifunctional and user friendly

Deceleration over excitation function

In many applications, the over-excitation function is set, the deceleration time is shortened by adjusting the motor output frequency and current, and the peripheral braking resistor and other accessories are reduced when the requirements for fast shutdown are met.



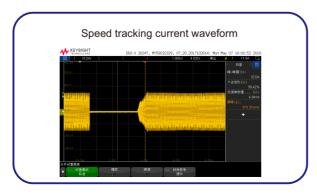
Undervoltage stall function

When the system is powered off instantaneously, the motor is controlled by the regenerative energy during deceleration to maintain the inverter running for a short period of time and reduce the risk of idling under the instability of the grid.



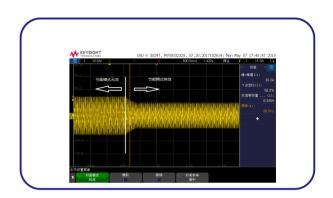
Excellent speed tracking

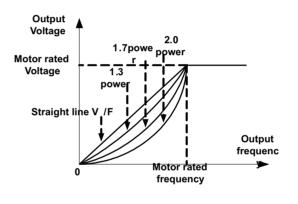
Non-impact smooth start for motors that do not stop rotating

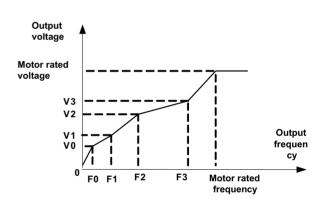


Energy saving function

- (1) It has excellent automatic energy saving function, only need to set the maximum energy saving target, as long as the operation meets the energy saving condition, it can enter the automatic skill state.
- (2) By setting the VF function, it can realize the application of 1 drag and long distance control to meet the application of the transformation occasion.

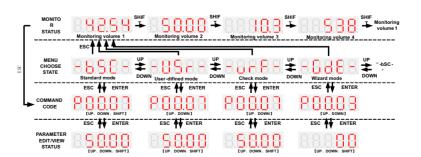






User-friendly operation

(1) . 4 Keyboard modes: standard mode (-bSC-), user-defined mode (-USr-), check mode (-vrF-) and wizard mode (-GdE-), easy to switch.



(2). Optional powerful LCD operator with parameter setting, parameter macro, monitoring, parameter copying, mobile phone Bluetooth, inverter program upgrade and other functions.

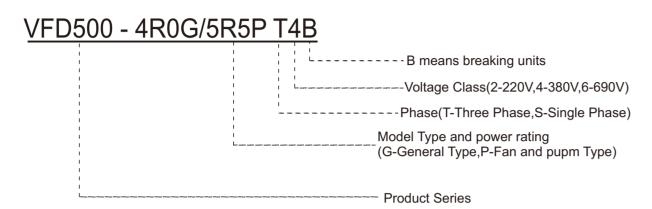


VEIKONG VFD500 inverters

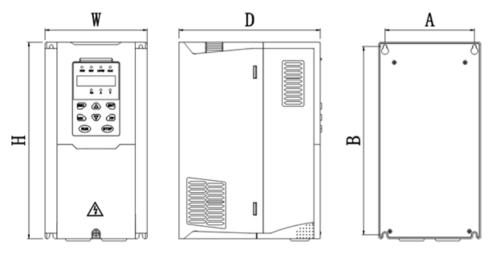


General Technical Data

Designation Rules



Appearance and Mounting Hole Dimension



0175					Appea	rance and in	nstallation di	mension (m	m)	
SIZE	Α	В	B2	Н	H1	H2	W	D	Fd	Mounting
0.75KW-4KW	87	206.5	1	215	1	1	100	170	ø5.0	M4X16
5.5KW-7.5KW	113	239.5	1	250	1	1	130	180	ø5.0	M4X16
11KW-15KW	153	299	1	310	1	1	170	193	Ø6.0	M5X16
18.5KW-22KW	165	350	1	370	335	1	210	205	Ø6.0	M5X16
30KW-37KW	218	438	1	452.5	424	1	260	230	Ø7.0	M6X16
45KW-55KW	250	535	1	555	520	1	320	275	Ø10.0	M8X20
75KW-90KW	280	620	/	640	605	1	350	290	Ø10.0	M8X20
110KW	280	695	915	715	660	935	370	313	Ø11.0	M8X25
132KW-160KW	280	705	925	725	670	945	360	338	Ø11.0	M8X25
185KW-200KW	360	795	1145	816	762	1166	490	358	Ø11.0	M10X25
2201/11/12/501/11/	360	795	1145	816	762	1166	490	358	Ø11.0	M10X25
220KW-250KW	Flooring mounting:H2*W*D=1166*490*358									
0001/11/10451/11/1	450	1045	1495	1075	1005	1560	550	450	Ø13.0	M12X30
280KW-315KW				Floo	ring mount	ng:H2*W*D	=1560*550*4	50		
05510141 40010141	630	1013	1425	1045	970	1495	730	450	Ø13	M12×30
355KW-400KW				Floo	ring mount	ing:H2*W*D	=1495*730*4	50		
45010141 50010141	660	1063	1505	1095	1020	1575	785	450	Ø13	M12×30
450KW-500KW				Floo	ring mount	ing:H2*W*D	=1575*785*4	450		
560KW-710KW			Only fo	r Flooring	mounting:F	12*W*D=180	00x1080x500)		M12×30

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	Power	Input	Output cu	ırrent(A)	Adaptable		Brake
Model	capacity	current	Heavy	Light	Motor	SIZE	Unit
		Three phase	·			<u> </u>	<u>'</u>
VFD500-R75GT4B	1.5	3.4	2.5	4.2	0.75		
VFD500-1R5GT4B	3	5	4.2	5.6	1.5		
VFD500-2R2GT4B	4	5.8	5.6	9.4	2.2	SIZE A	
VFD500-4R0G/5R5PT4B	5.9	10.5	9.4	13.0	3.7		Internal
VFD500-5R5G/7R5PT4B	8.9	14.6	13.0	17.0	5.5	OIZE D	
VFD500-7R5G/011PT4B	11	20.5	17.0	23.0	7.5	SIZE B	
VFD500-011G/015PT4B	17	26.0	25.0	31.0	11	OIZE O	
VFD500-015G/018PT4B	21	35.0	32.0	37.0	15	SIZE C	Internal
VFD500-018G/022PT4B	24	38.5	37.0	45.0	18.5	CIZE D	Internal
VFD500-022G/030PT4B	30	46.5	45.0	57.0	22	SIZE D	
VFD500-030G/037PT4	40	62.0	60.0	75.0	30	SIZE	
VFD500-037G/045PT4	50	76.0	75.0	87.0	37	E	
VFD500-045G/055PT4	60	92.0	90.0	110.0	45	SIZE F	option
VFD500-055G/075PT4	75	113.0	110.0	135.0	55	SIZEF	
VFD500-075G/090PT4	104	157.0	152.0	165.0	75	SIZE G	
VFD500-090G/110PT4	112	170.0	176.0	210.0	90	SIZEG	
VFD500-110G/132PT4	145	220.0	210.0	253.0	110	SIZE H	
VFD500-132G/160PT4	170	258.0	253.0	304.0	132	SIZE I	
VFD500-160G/185PT4	210	320.0	304.0	360.0	160	SIZE I	
VFD500-185G/200PT4	245	372.0	360.0	380.0	185	SIZE J	
VFD500-200G/220PT4	250	380.0	380.0	426.0	200	SIZE J	
VFD500-220G/250PT4	280	425.0	426.0	465.0	220	SIZE K	
VFD500-250G/280PT4	315	479.0	465.0	520.0	250	SIZL K	
VFD500-280G/315PT4	350	532.0	520.0	585.0	280	SIZE L	External
VFD500-315G/355PT4	385	585.0	585.0	650.0	315	OIZL L	
VFD500-355G/400PT4	420	638.0	650.0	725.0	355		
VFD500-400G/450PT4	470	714.0	725.0	820.0	400	SIZE M	
VFD500-450G/500PT4	530	800.0	820.0	1	450	OIZL IVI	
VFD500-500G/560PT4	580	880.0	900.0	1	500		
VFD500-560G/630PT4	630	950.0	980.0	1	560	SIZE N	
VFD500-630GT4	710	1080	1120.	1	630	SIZE N	
VFD500-710GT4	790	1200	1260	1	710	SIZE N	
		Single pl	nase :220V ,50	0/60HZ			
VFD500-R40GS2	1.3	6.0	3.2	5.6	0.4	SIZE A	
VFD500-R75GS2	2.4	11.0	5.6	8.0	0.75	SIZE A	
VFD500-1R5GS2	3.5	15.0	8.0	10.6	1.5	SIZE A	
VFD500-2R2GS2	5.5	25.0	10.6	14.0	2.2	SIZE A	Inbuilt
VFD500-4R0GS2	7.7	35.0	17.0	23.0	4.0	SIZE B	
VFD500-5R5GS2	8.9	53.0	25.0	31.0	5.5	SIZE C	
VFD500-7R5GS2	11	67.0	32.0	37.0	7.5	SIZE C	

VEIKONG VFD500 inverters



General Technical Data

	Item	Specifiation					
	Inuput Voltage	1phase/3phase 220V: 200V~240V 3 phase 380V-480V: 380V~480V					
Input	Allowed Voltage fluctuation range	-15%~10%					
	Input frequency	50Hz / 60Hz,fluctuation less than 5%					
	Output Voltage	3phase: 0∼input voltage					
Output	Overload capacity	General purpose application: 60S for 150% of the rated current Light load application: 60S for 120% of the rated current					
	Control mode	V/f control Sensorless flux vector control without PG card (SVC) Sensor speed flux vector control with PG card (VC)					
	Operating mode	Speed control、Torque control(SVC and VC)					
	Speed range	1:100 (V/f) 1:200(SVC) 1:1000 (VC)					
	Speed control accuracy	±0.5% (V/f) ±0.2% (SVC) ±0.02% (VC)					
	Speed response	5Hz(V/f) 20Hz(SVC) 50Hz(VC)					
	frequency range	0.00~600.00Hz(V/f) 0.00~200.00Hz(SVC) 0.00~400.00Hz(VC)					
	Input frequency resolution	Digital setting: 0.01 Hz Analog setting: maximum frequency x 0.1%					
	Startup torque	150%/0.5Hz(V/f) 180%/0.25Hz 180%/0Hz(VC)					
Control	Torque control accuracy	SVC: within 5Hz10%, above 5Hz5% VC:3.0%					
	V/f curve	V / f curve type: straight line, multipoint, power function, V / f separation; Torque boost support: Automatic torque boost (factory setting), manual torque boost					
	Frequency giving ramp	Support linear and S curve acceleration and deceleration; 4 groups of acceleration and deceleration time, setting range 0.00s ~ 60000s					
	DC bus voltage control	VdcMax Control: Limit the amount of power generated by the motor by adjusting the output frequency to avoid over-voltage trip; VdcMin control: Control the power consumption of the motor by adjusting the output frequency, to avoid jump undervoltage fault					
	Carrier frequency	1kHz \sim 12kHz(Varies depending on the type)					
		Direct start (can be superimposed DC brake); speed tracking start					
	Stop method	Deceleration stop (can be superimposed DC braking); free to stop					

General Technical Data

	tem	Specifiation
	Main control function	Jog control, droop control, up to 16-speed operation, dangerous speed avoidance, swing frequency operation, acceleration and deceleration time switching, VF separation, over excitation braking, process PID control, sleep and wake-up function, built-in simple PLC logic, virtual Input and output terminals, built-in delay relay, built-in comparison unit and logic unit, parameter backup and recovery, perfect fault record, fault reset, two groups of motor parameters freely switch, software swap output wiring, terminals UP / DOWN
	Keypad	LED Digital keyboard and LCD keypad(option)
	communication	Standard: MODBUS communication Option:Profibus-DP and CAN OPEN
	PG card	Incremental Encoder Interface Card (Differential Output and Open Collector), Rotary transformer Card
function	Input terminal	standard: 5 digital input terminals, one of which supports high speed pulse input up to 50kHz; 2 analog input terminals, support 0 ~ 10V voltage input or 0 ~ 20mA current input; Option card: 4 digital input terminals 2 analog input terminals.support-10V-+10V voltage input
	Output terminal	standard: 1 digital output terminal; 1 high-speed pulse output terminal (open collector type), support 0 ~ 50kHz square wave signal output; 1 relay output terminal (relay 2 is an option) 2 analog output terminals, support 0 ~ 20mA current output or 0 ~ 10V voltage output; Option card: 4 digital output terminals
Protection	Refer to Chapter 6	3 "Troubleshooting and Countermeasures" for the protection function
	Installation location	Indoor, no direct sunlight, dust, corrosive gas, combustible gas, oil smoke, vapor, drip or salt.
	Altitude	Lower than 1000 m
Environment	Ambient temperature	-10°C~ +40°C (derated if the ambient temperature is between 40°C and 50°C)
	Humidity	Less than 95%RH, without condensing
	Vibration	Less than 5.9 m/s ² (0.6 g)
	Storage temperature	-20°C ~ +60°C
	Installation	Wall-mounted, floor-controlled cabinet, transmural
others		IP20
	cooling method	Forced air cooling

VEIKONG VFD500 inverters



General Technical Data

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Туре	Terminal Symbol	Terminal Name	Terminal function description			
			10.10V±1%			
	+10V	Input voltage	Maximum output current:10mA, it provides power supply to			
			external potentiometer with resistance range of 1KΩ~51KΩ			
	GND	Ananog ground	Internal isolation from COM			
			Input voltage:0~10V: Impedance 22ΚΩ, Maximum input voltage			
Analog	Al1	Analog input1	Input current:0~20mA: Impedance 500Ω, Maximum input current			
input voltage			Through the jumper switch Al1 0 ~ 10V and 0 ~ 20mA analog			
			input switch, the factory default voltage input.			
			Input voltage:0~10V: Impedance 22KΩ, Maximum input voltage			
			Input current:0~20mA: Impedance 500Ω, Maximum input			
	Al2	Analog input 2	current			
			Through the jumper switch Al1 0 ~ 10V and 0 ~ 20mA analog			
			input switch, the factory default voltage input.			
		Analog output 1	Output voltage:0~10V: Impedance ≥10KΩ			
	AO1 Analog output 1 OG AO2 Analog output 2		Output current:0~20mA: Impedance 200Ω~500Ω			
		3 77 77	Through the jumper switch AO1 0 ~ 10V and 0 ~ 20mA analog			
Analog		output switching, the factory default voltage output.				
input			Output voltage:0~10V: Impedance ≥10KΩ			
·	AO2	Analog output 2	Output current:0~20mA: Impedance 200Ω~500Ω			
	7102		Through the jumper switch AO1 0 ~ 10V and 0 ~ 20mA analog			
			output switching, the factory default voltage output.			
	GND	Ananog ground	Internal isolation from COM			
			24V±10%, Internal isolation from GND			
	+24V	+24V current	Maximum output current: 200mA			
			To provide 24V power supply, generally used as a digital input			
			and output terminal power supply and external sensor power The factory default setting is connected PLC with +24V			
		Digital input	Terminal for on-off input high and low level switch			
	PLC	terminal common	When using the external signal to drive DI1~DI5, it			
Switch		terminal common	will disconnect the connector slip of PLC with the +24V			
input	СОМ	+24V ground	Internal isolation from GND			
			Optocoupler isolation, compatible with bipolar input			
	DI1~DI4	Digital input	Frequency range: 0~200Hz			
		terminal 1~4	Voltage range: 10V~30V			
		Digital input	Digital input terminal: same as DI1~DI4			
	LIDI	terminal	Pulse input frequency input: 0~50KHz			
	HDI	/High-speed pulse input	Voltage range: 10V~30V			

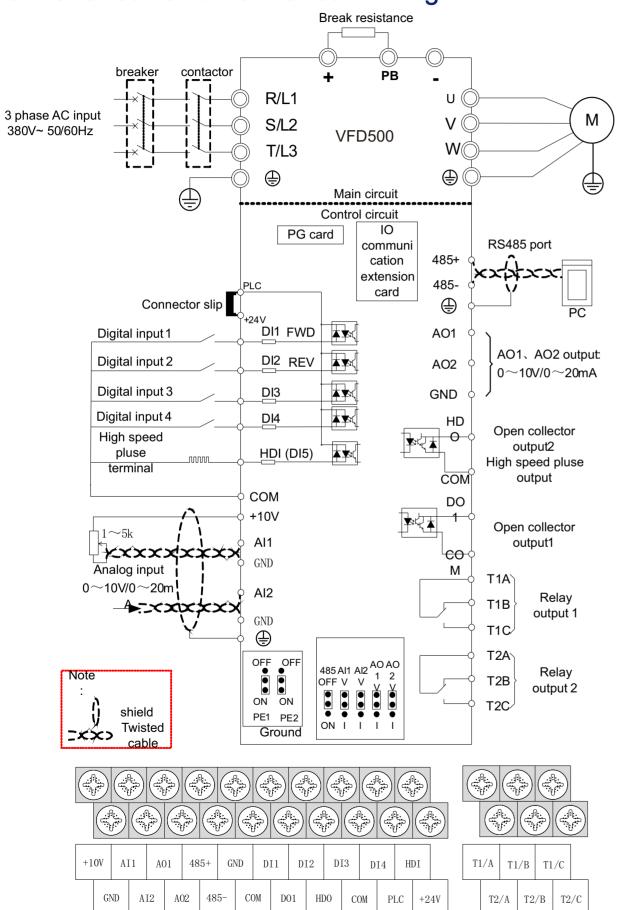
Туре	Terminal Symbol	Terminal Name	Terminal function description			
		Open	Optocoupler isolation			
	DO1	collector	Voltage range: 0V~24V			
		output	Current range: 0mA ~50mA			
Switch		Open	Open collector output: same as DO1			
output		collector				
	HDO	output	High-speed pulse output: 0~50KHz			
		/High-speed				
		pulse output				
Relay	TA/TB/TC		T1A-T1C: nomal open			
output 1		Relay output	T1A-T1B: nomal close			
Output 1			Contact rating: AC 250V, 3A; DC 30V, 1A			
Relay			T2A-T2C: nomal open			
output2	T2A/T2BT2C	Relay output	T2A-T2B: nomal close			
(optional)			Contact rating: AC 250V, 3A; DC 30V, 1A			
		485 Positive				
	485+	differential				
105 nort		signal	Baud rate:			
485 port		485 Negative	1200/2400/4800/9600/19200/38400/57600/115200bps			
	485-	differential				
		signal				

VFD500 Option Parts

	2000 Option Faito							
REALBRADA	triple Incremental PG card/open collector PG card/differeninal PG card/Rotary PG card	1,A+/A-,B+/B-,Z+/Z- Pluse input 2,Max input Frequency:100KHz 3,PG power output:+15V 4,10KHz 7V Rms output,DB9 port,no frequency division output,resolution 12 digits						
IO extension card	4 DI terminal 4 DO terminal 2 analog input	Coming soon						
TOTAL CO.	IO board	7 DI terminals ,2 AI 2 AO,2 Rela						
Communication extension card	Canopen Profibus-DP	Coming soon						
	LCD keypad	removable and remote keypad extendable and 100m romote control support data copy function						



Control Circuit and Main Circuit Wiring



Widely applications



Hoisting Industry

mine hoist, mining electric locomotive port hoist, builders' lift, pile driver, large crane motor, tower crane lifting



Petroleum Industry

plunger pump,beam pumping unit,oil transfer pump,gas transmission pipeline system compressor



Chemical Industry

vacuum kneader(agitator),dryer film blowing



machine,plastic mill,pulverizer drafting device for short fiber,high speed spinning machine for chemical fiber feedstock pump for oil refinery,pump for cooking



Power Industry

boiler blower,induced draft fan,boiler feeding pump, circulating water pump, low pressure drain



pump,condensate pump,cooling water pump,mortar pump,coal feeder



conveyer,embedded scraper

conveyor,underslung conveyor

elevator.underslung

Winding Machine

machine,capacitor core winding machine textile winding machine

petroleum pump,metallurgical pump.chemical pump,fishing pump,mining pump,power

pump.water conservance

pump,sewage pump,food

piston compressor,screw

compressor.centrifugal

pump,brewing pump,pharmacy pump,beverage pump,fuel

dveing pump.ceramic pump.paint conveyer pump, agricultural chemical

pump.condiment pump.paper pump,texitile pump,printing and

lithium battery winding

Pump

pump...

ncelectro-spindle, vertical lathe spindle,surface grinder spindle,boring machine spindle,sawing machine



Textile Industry Spinning machine.fagoting

machine, pounding machine, knitting machine.centrifugal dehydrator.spinning frame,aeration machine for print works.tentering and thermo-fixing machine,high temperature dyeing machine.decorationg machine.bleaching machine, dyeing jiggers

Injection Molding Machine

extruding machine injection machine, dise refiner, internal mixer.granulate machine



Iron and steel industry winding engine for iron-smelting blast furnace,dust

removing blower for blast furnace, air blower for blast furnace gas blanketing blowing engine, roots blower for ditital thermometer variable frequency exhaust fan for steel furnace roasting and purifing fan,hot rolling machine,cold tandem rolling mill,feeding system ,mill exhauster,vibrating sieving machine.wired drawing machine.winding machine,blender mixer,drying machin,slime pump.draining pump.water supply pump,unbender,pipemaking machine,ladle crane



Heating System

constant pressure water supply system for boiler,mill exhauster,belt conveyer for coal,coal breaker air blower induced draft fan cold-rolling mill





centrifugal compressor, axial flow compressor centrifugal blower,roots blower centrifugal fan.axial flow fan enke blowe



VEIKONG VFD500 application projects

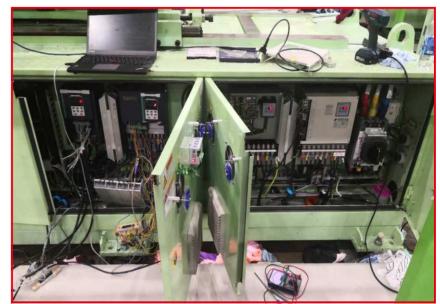






























VFD500M AC Drive

Open Loop General Purpose & Economical

Features & Functions

- V/F & sensorless vector control
- Starting torque 150% at 0.25Hz in SVC
- HDI and HDO function
- Automatic torque boost
- Support LCD display
- Easy startup with simplified parameters
- 2-Independent S-ramps
- Vector/torque control
- Variable DC injection braking
- Energy saving
- Self-definition parameter
- In-built dynamic braking unit



Widely applications

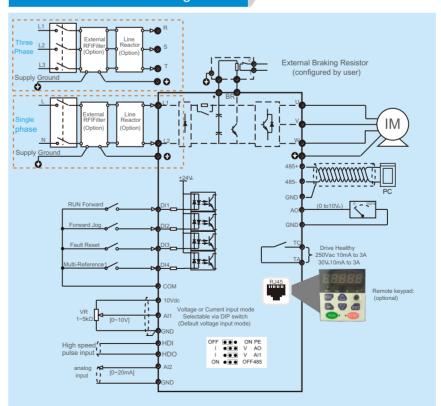


General Specifications

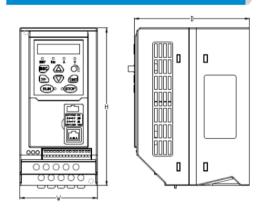
	Voltage	Class			Single-pha	se 220 Vac			Three	e-phase 400) Vac
	Drive Model: VFD500M-R75GS2B			S0.4B	S0.75B	S1.5B	S2.2B	T0.75B	T1.5B	T2.2B	T4.0B
Dim	Height Dimension Width Depth			[W]: 7	45 mm '5 mm 15 mm		[H]: 175 mm [W]: 86 mm [D]: 128 mm				
	Rated input voltage		Single	e-phase 200 to 240	Vac, -15% to +10%		Three	e-phase 380 to	480 Vac, -15%	to +10%	
nput	Rated input current [A]		6.9	12.2	17.0	21.0	4.7	5.5	6.5	11	
Drive Input	Power capacity [kVA]		1.2	2.1	3.1	4.1	1.5	3.0	4.0	5.9	
۵	Rated input frequency					50/60 Hz, ±5% ((47 to 63 Hz)				
	Applicable motor	[kW]	0.4	0.75	1.5	2.2	0.75	1.5	2.2	4.0	
		e motor	[HP]	0.5	1	2	3	1	2	3	5
Drive Output	Output Current [A] *4		2.8	4.5	8	10.6	2.5	4.2	5.6	9.4	
ve O	Overload	Capacity	,			150% for 60 Sec & 180% for 3 Sec					
Dri	Max. outp	out voltag	е	200 to	240 Vac (Proportio	onal to input voltage)	380 to 480 Vac (Proportional to input voltage)			
	Max. outp	out freque	ency				300	00 Hz			
ing	Recommended 80 power [kW]		80	80	100	100	150	250	300	500	
Braking	Reco resist	mmende tance [Ω]		≥200	≥150	≥100	≥70	≥300	≥220	≥ 200	≥130
Encl	losure *5						IP	20			

^{*4} Carrier switching frequency 6 kHz at rated output current. *5 Size A is natural cooling, Size B are fan coolingfan cooled.

General Connection Diagram



Dimension



Size A: 145*75*115mm Size B:175*86*128mm

Remote Keypad (optional)



Model: MDKE8 (LED type) Dimension: 116Hx76Wx40D(mm)

Matching Cable Model:

speed potentiometer(single turn)