

VFD500M Micro Vector Ac Drive

- Internal EMC filter
- Complies with EN61800-3 Category C3 Environment
- Operation in high ambient temperature 50°C
- Output frequency 3000hz
- Onboard Comms Modbus RTU
- Enhanced reliability protection against humidity and pollution dust



Product features

VFD500M Micro Vector Ac Drive

- VF and sensorless vector control
- Starting torque 150% at 0.25Hz in SVC
- HDI and HDO function, automatic torque boost
- Support LCD display with external wire connection used in cabinet
- Easy startup with simplified parameters
- Compact size and more economical for some simple applications
- Variable DC injection braking and energy saving
- Self-definition parameter and in-built dynamic braking unit

Model series

VFD500M Micro Vector Ac Drive

Model	Power capacity (KVA)	Input current (A)	Output current(A)		Adaptable motor(KW)	Bake unit
			Heavy load	Light Load		
3 phase: 380V-480V, 50/60Hz						
VFD500M-R75GT4B	1.6	3.2	2.5	4.2	0.75	Internal
VFD500M-1R5GT4B	2.8	4.7	4.2	5.6	1.5	
VFD500M-2R2GT4B	3.7	7.8	5.6	9.4	2.2	
VFD500M-4ROGT4B	6.2	11.6	9.4	13.0	4	
VFD500M-5R5GT4B	8.6	15.6	13.0	17.0	5.5	
VFD500M-7R5GT4B	11.2	20.5	17.0	23	7.5	
1 phase: 200-240V, 50/60Hz						
VFD500M-R40GS2B	1.2	6.9	2.8	3.2	0.4	Internal
VFD500M-R75GS2B	2.1	12.2	4.5	4.8	0.75	
VFD500M-1R5GS2B	3.1	17.0	8.0	10.6	1.5	
VFD500M-2R2GS2B	4.1	21.0	10.6	12.5	2.2	
3 phase: 200V-240V, 50/60Hz						
VFD500M-R40GT2B	1.2	4	2.8	3.2	0.4	Internal
VFD500M-R75GT2B	2.1	7.1	4.5	4.8	0.75	
VFD500M-1R5GT2B	3.1	11.3	8.0	10.6	1.5	
VFD500M-2R2GT2B	4.1	14.5	10.6	12.5	2.2	

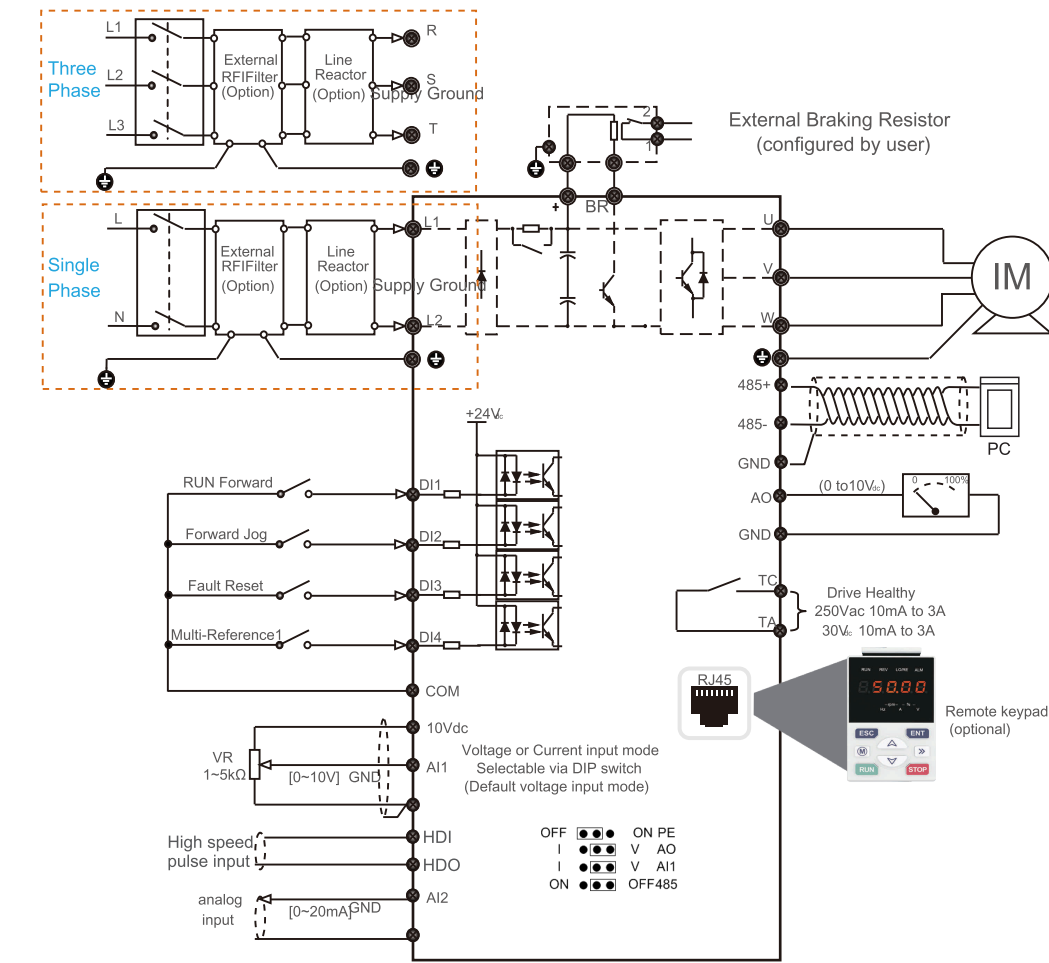
Widely applications

VFD500M Micro Vector Ac Drive



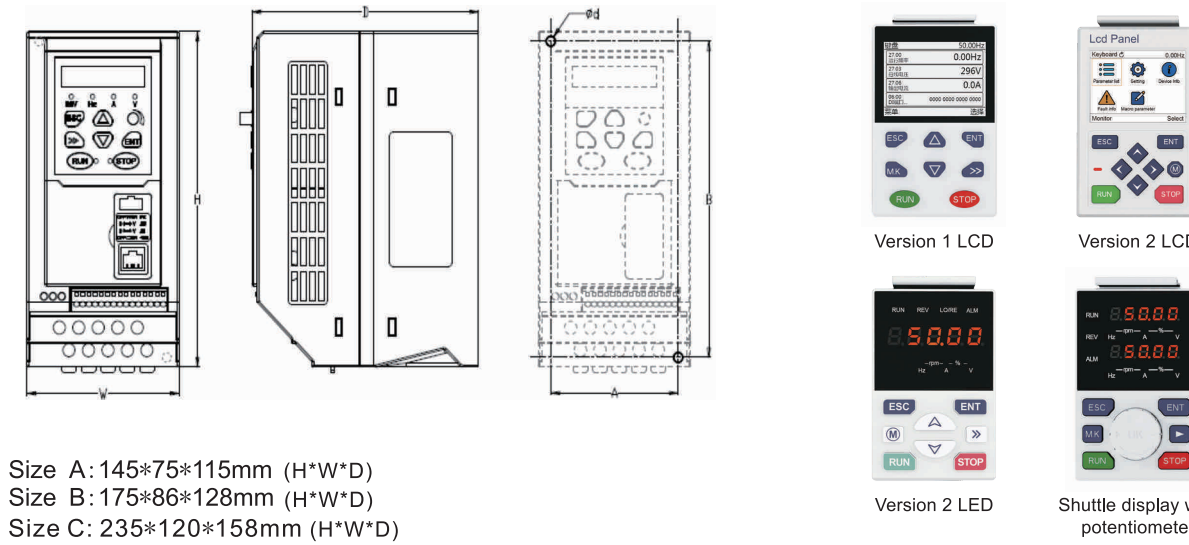
General Connection Diagram

VFD500M Micro Vector Ac Drive



Dimension

Remote Keypad (optional)



Size A: 145*75*115mm (H*W*D)
 Size B: 175*86*128mm (H*W*D)
 Size C: 235*120*158mm (H*W*D)

VFD500M Micro Vector Ac Drive



ShenZhen VEIKONG Electric CO.,Ltd.

Factory address: 4F, Building 5, Dongluang Industrial Park, No.4 Tengfeng 4th Road, Fuyong Phoenix Third, Industrial Zone, Baoan District, Shenzhen, China
 Phone number: +8675589587650
 Website: www.veikong-electric.com
 www.veikong.com

VFD200 AC Drive

VEIKONG



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Factory address: 4F, Building 5, Dongluoyang Industrial Park, No.4 Tengfeng 4th Road,

Fuyong Phoenix Third, Industrial Zone, Baoan District, Shenzhen, China

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VFD200 series small power drives

SMART

Simper **M**aintenance friendly **A**ffordable **R**obust **T**ime to market



Product positioning

VFD200 AC Drive

VEIKONG VFD200 series inverter is economical inverter specially for small scale processing and manufacturing automation control

Performance introduction

VFD200 series inverter is a high-quality and simple VF control inverter. It can run a wide range of speed and torque control in high precision by decoupling control of motor magnetic flux current and torque current fast and accurately. High end hardware platforms, scientific production technology and complete testing equipment make the product more stable and reliable.

Capacity range

Power range: 0.4-3.7kw power range

Frequency range: 0.00-400.00Hz

Voltage level: single phase 220V/ three phase 380V

Technical features

- 1, Using DSP as the core of control unit to achieve high-speed and high-performance control
- 2, Motor parameter self-learning, intelligent setting to the optimal control model
- 3, High performance IPM module, protection function such as under voltage, overcurrent, overtemperature, over the ground short circuit etc.
- 4, The unique EMC design minimizing the pollution to power.

Application industry

Medicine, food, packaging, engraving, washing and other industries

Machinery equipment, a variety of small-scale machinery equipment.

Model and data of VFD200

VFD200 AC Drive

Model	Power Capacity (KVA)	Input Current (A)	Output Current (A)	Adaptable Motor	
				KW	HP
Single-phase 220V, 50/60Hz					
VFD200-0R4G-S2	1	5.4	2.3	0.4	0.5
VFD200-R75G-S2	1.5	8.2	4	0.75	1
VFD200-1R5G-S2	3	14	7	1.5	2
VFD200-2R2G-S2	4	23	9.6	2.2	3
Three-phase 380V, 50/60Hz					
VFD200-R75G-T4	1.5	3.4	2.1	0.75	1
VFD200-1R5G-T4	3	5	3.8	1.5	2
VFD200-2R2G-T4	4	5.8	5.1	2.2	3
VFD200-3R7G-T4	5.9	10.5	9	3.7	5

Structure description

VFD200 AC Drive

IGBT module design

- Higher quality than Mosfet
- Higher reliability
- Perfect short circuit protection

Removable keypad

- Support Remote control within 100m
- Support standard RS485 communication

Independent air duct structure

- Separating the radiator and the drive control module
- Capacitance isolation is installed on the duct
- Forced air cooling

Powerful terminal function

- Support 2 AI 0-10V/4-20ma
- Support 24V
- Support one relay

Control cable entry

- Compliance with the safety standards of mechanical equipment and electrical facility standard
- Connecting the main loop terminal and controlling circuit terminal
- Shorten the cable connection and installation time

Standard Modbus communication

- Independent Modbus RJ45 Port
- Special design for Modbus port
- Better outlook and better wire connection

TECHNICAL SPECIFICATION

	Rated input voltage/frequency	The maximum can reach up to 400Hz by programming
Power supply	Rated input voltage/frequency	Single phase-phase/three-phase 220V 50Hz/60HZ Three-phase 380V 50Hz/60HZ
	Allowed voltage fluctuation	15% -15%
	Allowed frequency fluctuation	±5%
Control feature	Control method	Optimize the control of space vector SVPWM
	Control range of frequency	0.1~400.0Hz
	Frequency precision	Digital setting: 0.01% Analog instruction: 0.1% (max. frequency)
	Frequency resolution	Digital command: 0.1Hz Analog instruction: 0.1Hz
	Acc-Dec time	0.0 ~ 3600s (separate setting of acceleration/deceleration time) Four kinds of acceleration/deceleration time are optional
	Multispeed running	Built-in PLC programming is running in multiple speeds Multispeed running is controlled by external multispeed terminals
	Built-in PID	Automatic control system can be set up easily
	Braking torque	About 20% (it can reach up to 150% whenever there is braking resistance)
	V/F mode	Three preset V/f model and V/f model which can program arbitrarily
	Automatic energy-efficient operation	Energy-efficient operation can be achieved by changing V/F curve automatically according to the condition of loading
Running function	Automatic voltage regulation (AVR)	It can stabilize output voltage automatically whenever there is change for the voltage of grid
	Preset running instruction	Preset panel and preset external terminal
	Setting of frequency	Digital and AI (current and voltage)
	Input signal	FDW/REV instruction Jog option Multispeed control Regular stopping External fault
	Output signal	Failure alarm output (250V/2A contact) Open-collector output

TECHNICAL SPECIFICATION

Protection function	Over current, overvoltage, under voltage, overheating, overload, default phase, anti-stall voltage/current	
Display	Parameter setting, information display, fault indication	
Environmental conditions	Operating environment	Temperature -10°C ~ +50°C Humidity <90%RH No condensation
	Operating situation	Indoor (it must be protected from corrosive gas or dust) Altitude: no more than 1000 meter
	Storage temperature	-20°C ~ +60°C
	Vibration	Less than 5.9 m/s ² (0.6g)

Control Circuit and Main Circuit Wiring

VFD200 AC Drive

