ShenZhen VEIKONG Electric CO., Ltd.
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Service Address:

CHINA SHENZHEN
SHENZHEN VEIKONG ELECTRIC CO., LTD
VEIKONG INDUSTRIAL CO.,LIMITED
Shenzhen Veikong Electric CO., Ltd. is 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.
Company Profile

**Strong develop ability**

- Board design: ECAD design platform-Mentor, Network design constraint Netclass (set network width and distance)
- Schematic diagram inter design with PCB to a perfect extent with complete serious checking function
- Power module design platform-heats model design
- Power Electronics design-IGBT Pulse Test
- Software design: powerful function-Simulink-MotorControl 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
- ESD tester
- High voltage probe systems
- Safety instruments
VEIKONG inverters

VFD300A series Features
1. Excellent control performance for motor at 0.25Hz with 150% output torque; With Sensorless vector control for reliable start and precise control in different kinds of loads.
2. Excellent torque control in open loop and close loop in winding and rewinding.
3. Three-phase PLC and 16 phase multiple speed control.
4. Programmable delay relay function.
5. Variable selector and logic control for programming.
7. Support 2 analog input 0-10V 4-20MA and two analog output as well as support IO expansion card.
8. Protection: Over-voltage stall, under-voltage, current limit, overload, overheat, over-speed, over-voltage, etc.
9. Support RJ45 cables and standard keypad support 100m control.

VFD200 Series Features
SVPWM control mode
- Natural cooling, suitable for the situations with a lot of cotton and dust.
- Compact design, saving installation space.
- Standard potentiometer and external LED keypad.
- Various functions for application needs.
- Various interface: Standard RS-485 communication interface, multiple input and output terminals, external keypad interface, meeting application requirements.
- Multi-functional and easy to use, simple PLC, multi-step speed control, built-in PID, torque control, multi-dot V/F curve, various control modes, continuous running at sudden power loss and so on.

VFD300 Series Features
2. High-performance open loop and close loop vector control (support different kinds of encoders).
3. High torque control in low frequency 0.5Hz/150%(SVC), and 0Hz/180%(FVC) real vector control with three hall sensor current detecting.
4. Support 2 analog input 0-10v 4-20MA and two analog output as well as support IO expansion card.
5. Protection: Over-voltage stall, under-voltage, current limit, overload, overheat, over-speed, over-voltage, etc.
7. Support RJ45 cables and standard keypad support 100m control.
8. Fast auto tuning less than 1 minutes.

VFD500 Series Features
1. Overall design of electromagnetic compatibility, perfect protection, safe and reliable and optimized PWM control technology meeting customer requirements with low noise and low electromagnetic interference.
2. First online self-learning algorithm for many key parameters of the motor, the optimized adaptive open-loop vector algorithm, and the vectorized V/F algorithm. Combination of stability, precision and quickness more adaptive to general-purpose speed regulation or open-loop torque control or closed-loop applications which are comparable and beyond the international first-line brands.
3. Functional application combines the habits of domestic users and the advanced ideas of international flexible applications, making the application of the product easy to use and flexible.
4. Advanced design, beautiful appearance, easy installation, building blocks stacked hardware expansion modules, such as various types of PG expansion, IO expansion and communication expansion to deal with a variety of complex Application.

S6000 Series Features
1. Six group parameters convenient in one soft starter to different power motors load.
2. Dynamic fault recording function and inspecting motor feedback to realize closed loop control to give best motor start up in different conditions and different loads.
3. A variety of ways starting: voltage RAMP starting way can get the maximum output torque; Current limiting can Realize Biggest Limitations of the Start soft starting current.
4. Reliable quality Assurance; using computer simulation design, SMT Production process; Electromagnetic Compatibility Excellent.

VEIKONG inverters

S6000 Series Features
1. SOFT STARTER
- Six group parameters convenient in one soft starter to different power motors load.
- Dynamic fault recording function and inspecting motor feedback to realize closed loop control to give best motor start up in different conditions and different loads.
- A variety of ways starting: voltage RAMP starting way can get the maximum output torque; Current limiting can Realize Biggest Limitations of the Start soft starting current.
- Reliable quality Assurance; using computer simulation design, SMT Production process; Electromagnetic Compatibility Excellent.

SOFT STARTER
- Performance:High temperature aging, Vibration Test before Delivery of the machine.

VEIKONG inverters

S6000 Series Features
- SIX GROUP PARAMETERS CONVENIENT IN ONE SOFT STARTER TO DIFFERENT POWER MOTORS LOAD.
- Dynamically fault recording function and inspecting motor feedback to realize closed loop control to give the best motor start up in different conditions and different loads.
- A variety of ways starting: voltage RAMP starting way can get the maximum output torque; Current limiting can realize the biggest limitations of the start soft starting current.
- Reliable quality Assurance; using computer simulation design, SMT Production process; Electromagnetic Compatibility Excellent.

SOFT STARTER
- Performance: High temperature aging, Vibration Test before Delivery of the machine.

VEIKONG inverters

VFD550/550A/550S series products can be widely used in cable drawing and reeling applications (tension).
- Machine Tool Spindles (Servo), Injection Molding Machines (Asynchronous/ Hydraulic Servo), Air Compressors (Permanent Magnet Screws), Die Casting Machines (Synchronous Drives), High-Speed Paper Machines, Woodworking Machinery (Rotary Cutting/Engraving), Elevators, etc. Is the preferred drive product for all types of mechanical loads.
VFD300A AC Drive

VFD300A series is real vector and torque control, high performance general purpose frequency inverter, widely used for industrial heavy duty applications.

Key advantages

1. Excellent control performance for motor at 0.25Hz with 150% output torque. With sensorless vector control for reliable start and precise control in different kinds of loads.
2. Excellent torque control in open loop and close loop in winding and rewinding.
3. Simple PLC and 16 phase multiple speed control.
4. Programmable delay relay function.
5. Variable selector and logic control for programming.
7. Support 2 analog input 0-10V 4-20MA and two analog output as well as support IO expansion card.
8. Protections: Over-voltage stall, under-voltage, current limit, overload, overheat, over speed, over-voltage, etc.
9. Support RJ45 cables and standard keypad support 100m control.

Humanized design keyboard
- Speed control by potentiometer
- Easy operation
- Reasonable layout
- LED display
- RJ45 Port and support remote control

Product detailed label
- Including model type, input/output current, power, voltage instructions

Intelligent fan control
- Through software using the intelligent fan start-stop control
- This function defines the running conditions of the drive fan:
  1. The fan is controlled by the drive according to the drive internal temperature, saving electricity and prolonging the service life of the fan, especially when the drive is in dormant or downtime.
  2. The fan runs at full speed at all times when the drive is powered up for high temperature.

Function of automatic voltage regulator (AVR)
- Three-phase high precision automatic ac voltage stabilizer
- With functions of automatic voltage regulation, when the grid voltage plus or minus 15% change, can automatically maintain a constant output voltage.

Infineon PIM integrated power module
- Integrated power devices
- Small size, large power, low loss, more stable

Avago photoelectric coupler
- Adopted USA Avago company
- Photoelectric coupler that is not in the power of optical coupling isolation with high stability, high reliability.

Anti-corrosion painted protection circuit
- Prolong the service life
- Superior insulation
- Moisture-proof
- Prevent electric leakage
- Shock-proof dust-proof
- Corrosion resistance aging, corona resistance, etc.

High speed high performance control DSP
- Core control unit
- Simple PLC
- Parameter auto-tuning
- Low frequency high torque strong performance of vector control

Multistage speed operation function
- Through the user-defined control terminal can realize simple function of PLC.

Steady speed precision high speed range
- Steady speed precision: plus or minus 0.5% (open loop), plus or minus 0.02% (closed loop).
- Speed range: 1:100 (open loop), 1:1000 (closed loop).
- The torque response <40ms (open loop).
- Automatic torque increase function, the realization of V/F control mode and low frequency (0.25Hz) with large output torque control: 150% rated stable operation, 1 min 150% rated load, 180% rated load 3s.
VFD300A AC Drive

**Excellent driving characteristics**

**Support induction motor and permanent magnet motor**

VFD300A has 4 sets of independent induction motor parameters, suitable for various types of motor.

**High starting torque**

High torque in low frequency with 200% at 0.5HZ, high start torque can be produced to accommodate varying loads and provide excellent stability for the machine.

**SPM motor**

**IPM motor**

**Induction motor**

**Excellent braking ability**

The deceleration energy mode can be set by adjusting the motor speed and current, reducing the deceleration time, and reducing the configuration cost of the brake resistance.

**Rapid response of impact load**

When the load transient occurs, it can quickly restore the speed, reduce the speed fluctuation, and ensure the production of stable and high quality products.

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**High frequency pulse input**

VFD300A series supports double pulse input, without adding a PG card to receive the motor encoder feedback signal, to achieve a simple closed-loop high-efficiency control.

**DC 24V external power supply**

DC 24V external power supply card external power supply, continuous power supply when the main power is abnormal, to ensure continuous communication after the main power-down.

---

**Control Circuit and Main Circuit Wiring**

**High torque in low speed, improve equipment low speed control performance**

In closed-loop vector mode, the linear deviation of torque linearity is within 3%. Torque output is stable, low-frequency torque, enabling ultra-low speed 0.01Hz stable with load operation, torque mode and speed mode can be easily switched. Improve the DC brake circuit program.

**Instantaneous power outage and restart / DEB deceleration energy regeneration**

When the system is cut off at a moment, the motor is controlled by the regenerative energy of the deceleration to stop the motor completely, and when the power is restored, the speed of the motor is started.

**DC 24V external power supply**

DC 24V external power supply card external power supply, continuous power supply when the main power is abnormal, to ensure continuous communication after the main power-down.

---

**Improve the DC brake circuit program.**

*The actual deceleration effect letter system is different from the load conditions.*
VFD300A AC Drive

General Technical Data

Designation Rules

VFD300A - 3R7G/5R5P T4

Voltage Class(2-220V,4-380V,6-690V)
Phase(T-Three Phase,S-Single Phase)
Model Type and power rating
(G-General Type,P-Fan and pump Type)
Product Series

Appearance and Mounting Hole Dimension

<table>
<thead>
<tr>
<th>SIZE</th>
<th>Appearance and installation dimension (mm)</th>
<th>WEIGHT (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>H</td>
</tr>
<tr>
<td>SIZE A</td>
<td>113</td>
<td>172</td>
</tr>
<tr>
<td>SIZE B</td>
<td>148</td>
<td>236</td>
</tr>
<tr>
<td>SIZE C</td>
<td>190</td>
<td>305</td>
</tr>
<tr>
<td>SIZE D</td>
<td>230</td>
<td>440</td>
</tr>
<tr>
<td>SIZE E</td>
<td>230</td>
<td>540</td>
</tr>
<tr>
<td>SIZE F</td>
<td>320</td>
<td>610</td>
</tr>
<tr>
<td>SIZE G</td>
<td>320</td>
<td>630</td>
</tr>
<tr>
<td>SIZE H</td>
<td>320</td>
<td>770</td>
</tr>
<tr>
<td>SIZE I</td>
<td>320</td>
<td>856</td>
</tr>
<tr>
<td>SIZE J</td>
<td>500</td>
<td>1313</td>
</tr>
<tr>
<td>SIZE K</td>
<td>500</td>
<td>1410</td>
</tr>
<tr>
<td>SIZE L</td>
<td>500</td>
<td>cabinet: 1800<em>1050</em>460</td>
</tr>
</tbody>
</table>

VFD300A AC Drive

General Technical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Power capacity (KVA)</th>
<th>Input current (A)</th>
<th>Output current(A)</th>
<th>Heavy load</th>
<th>Light load</th>
<th>Adaptable Motor (KW)</th>
<th>SIZE</th>
<th>Brake Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single phase: 200-240V  50/60Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VFD300A-R75GS2</td>
<td>1.5</td>
<td>8.2</td>
<td>4.0</td>
<td>7.0</td>
<td>0.75</td>
<td></td>
<td>SIZE A</td>
<td>Inbult</td>
</tr>
<tr>
<td>VFD300A-1R5GS2</td>
<td>3</td>
<td>14</td>
<td>7.0</td>
<td>9.6</td>
<td>1.5</td>
<td></td>
<td>SIZE B</td>
<td>Inbult</td>
</tr>
<tr>
<td>VFD300A-2R2GS2</td>
<td>4</td>
<td>23</td>
<td>9.6</td>
<td>17.0</td>
<td>2.2</td>
<td></td>
<td>SIZE C</td>
<td>Inbult</td>
</tr>
</tbody>
</table>

| Three phase: 380-480V  50/60Hz |
| VFD300A-R75GT4 | 1.5           | 3.4           | 2.1            | 4.0        | 0.75        |                       | SIZE A | Inbult     |
| VFD300A-1R5GT4 | 3             | 5             | 3.8            | 5.6        | 1.5         |                       | SIZE B | Inbult     |
| VFD300A-2R2GT4 | 4             | 5.8           | 5.1            | 9.0        | 2.2         |                       | SIZE C | Inbult     |
### VFD300A AC Drive

#### General Technical Data

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input</strong></td>
<td></td>
</tr>
<tr>
<td>Input Voltage</td>
<td>1phase/3phase 220V: 200V<del>240V 3 phase 380V-480V: 380V</del>480V</td>
</tr>
<tr>
<td>Allowed Voltage</td>
<td>±15%~10%</td>
</tr>
<tr>
<td>fluctuation range</td>
<td></td>
</tr>
<tr>
<td>Input frequency</td>
<td>50Hz / 60Hz; fluctuation less than 5%</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td></td>
</tr>
<tr>
<td>Output Voltage</td>
<td>3phase: 0 ~ input voltage</td>
</tr>
<tr>
<td>Overload capacity</td>
<td>General purpose application: 60S for 150% of the rated current Light load application: 60S for 120% of the rated current</td>
</tr>
<tr>
<td>Control mode</td>
<td>Vf control Sensorless flux vector control without PG card (SVC) Sensor speed flux vector control with PG card (VC)</td>
</tr>
<tr>
<td>Operating mode</td>
<td>Speed control, Torque control (SVC and VC)</td>
</tr>
<tr>
<td>Speed range</td>
<td>1:100 (Vf) 1:200 (SVC) 1:1000 (VC)</td>
</tr>
<tr>
<td>Speed control accuracy</td>
<td>±0.5% (Vf) ±0.2% (SVC) ±0.02% (VC)</td>
</tr>
<tr>
<td>Speed response</td>
<td>5Hz(Vf) 20Hz(SVC) 50Hz(VC)</td>
</tr>
<tr>
<td>frequency range</td>
<td>0.00 ~ 60.00Hz(Vf) 0.00 ~ 200.00Hz(SVC) 0.00 ~ 400.00Hz(VC)</td>
</tr>
<tr>
<td>Input frequency resolution</td>
<td>Digital setting: 0.01 Hz  Analog setting: maximum frequency x 0.1%</td>
</tr>
<tr>
<td>Startup torque</td>
<td>150%/0.5Hz(Vf) 150%/0.25Hz(SVC) 180%/0Hz(VC)</td>
</tr>
<tr>
<td>Torque control accuracy</td>
<td>SVC: within 5Hz10%; above 5Hz25% VC:3.0%</td>
</tr>
<tr>
<td>V/f curve</td>
<td>V/f curve type: straight line, multipoint, power function, V/f separation;Torque boost support: Automatic torque boost (factory setting), manual torque boost</td>
</tr>
<tr>
<td>Frequency giving ramp</td>
<td>Support linear and S curve acceleration and deceleration; 4 groups of acceleration and deceleration time setting range 0.00s ~ 6000s</td>
</tr>
<tr>
<td>DC bus voltage control</td>
<td>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</td>
</tr>
<tr>
<td>Carrier frequency</td>
<td>1kHz ~ 12kHz (Varies depending on the type)</td>
</tr>
<tr>
<td>Startup method</td>
<td>Direct start (can be superimposed DC brake); speed tracking start</td>
</tr>
<tr>
<td>Stop method</td>
<td>Deceleration stop (can be superimposed DC braking); free to stop</td>
</tr>
</tbody>
</table>

#### Control

- 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
- Communication: Standard: MODBUS communication
- PG card: Incremental Encoder Interface Card (Differential Output and Open Collector), Resolver Interface 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;
- 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; 2 analog output terminals, support 0 ~ 20mA current output or 0 ~ 10V voltage output;
- Protection: Refer to Chapter 6 “Troubleshooting and Countermeasures” for the protection function
- Environment:
  - Installation location: Indoor, no direct sunlight, dust, corrosive gas, combustible gas, oil smoke, vapor, drip or salt.
  - Altitude: Lower than 1000 m
  - 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/s² (0.6 g)
  - Storage temperature: -20°C ~ +60°C
- Others: Protection level: IP20
- Cooling method: Forced air cooling
### Control circuit terminals

<table>
<thead>
<tr>
<th>Type</th>
<th>Terminal Symbol</th>
<th>Terminal Name</th>
<th>Terminal function description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog input voltage</td>
<td>+10V</td>
<td>Input voltage</td>
<td>10.10V±1%. Maximum output current: 10mA. It provides power supply to external potentiometer with resistance range of 1KΩ~51KΩ.</td>
</tr>
<tr>
<td></td>
<td>GND</td>
<td>Ananog ground</td>
<td>Internal isolation from COM.</td>
</tr>
<tr>
<td></td>
<td>AI1</td>
<td>Analog input1</td>
<td>Input voltage: 0<del>10V. Impedance 22KΩ. Maximum input current: 0</del>20mA. Impedance 500Ω. Maximum input current. Through the jumper switch AI1 0 ~ 10V and 0 ~ 20mA analog input switch, the factory default voltage input.</td>
</tr>
<tr>
<td></td>
<td>AI2</td>
<td>Analog input 2</td>
<td>Input voltage: 0<del>10V. Impedance 22KΩ. Maximum input current: 0</del>20mA. Impedance 500Ω. Maximum input current. Through the jumper switch AI1 0 ~ 10V and 0 ~ 20mA analog input switch, the factory default voltage input.</td>
</tr>
<tr>
<td></td>
<td>AO1</td>
<td>Analog output</td>
<td>Output voltage: 0~10V. Impedance ≥10KΩ</td>
</tr>
<tr>
<td></td>
<td>AO2</td>
<td>Analog output 2</td>
<td>Output voltage: 0~10V. Impedance ≥10KΩ</td>
</tr>
<tr>
<td></td>
<td>GND</td>
<td>Ananog ground</td>
<td>Internal isolation from COM.</td>
</tr>
<tr>
<td>Switch input</td>
<td>+24V</td>
<td>+24V current</td>
<td>24V±10%. Internal isolation from GND. Maximum output current: 200mA. To provide 24V power supply, generally used as a digital input and output terminal power supply and external sensor power.</td>
</tr>
<tr>
<td></td>
<td>PLC</td>
<td>Digital input terminal common</td>
<td>Terminal for on-off input high and low level switch. When using the external signal to drive DI1~DI5, it will disconnect the connector slip of PLC with the +24V.</td>
</tr>
<tr>
<td></td>
<td>COM</td>
<td>+24V ground</td>
<td>Internal isolation from GND.</td>
</tr>
<tr>
<td></td>
<td>DI1~DI4</td>
<td>Digital input terminal 1~4</td>
<td>Optocoupler isolation, compatible with bipolar input. Frequency range: 0<del>200Hz. Voltage range: 10V</del>30V.</td>
</tr>
<tr>
<td></td>
<td>HDI</td>
<td>Digital input terminal /High-speed pulse input</td>
<td>Digital input terminal: same as DI1<del>DI4. Pulse input frequency input: 0</del>50KHz. Voltage range: 10V~30V.</td>
</tr>
<tr>
<td>Switch output</td>
<td>DO1</td>
<td>Open collector output</td>
<td>Optocoupler isolation. Voltage range: 0V<del>24V. Current range: 0mA</del>50mA.</td>
</tr>
<tr>
<td></td>
<td>HDO</td>
<td>Open collector output</td>
<td>Optocoupler isolation. Voltage range: 0V<del>24V. Current range: 0mA</del>50mA.</td>
</tr>
</tbody>
</table>

### VFD300 Option Parts

<table>
<thead>
<tr>
<th>PHOTO</th>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>Open collector PG card</td>
<td>1.A+/A-, B+/B-, Z+/Z- Pulse input 2.Max input Frequency: 100KHz 3.PG power output: +15V</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>Rotary PG card</td>
<td>1.10KHz 7V Rms output, DB9 port, no frequency division output, resolution 12 digits</td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>Incremental or Differential PG card</td>
<td>1.A+/A-, B+/B-, Z+/Z- Pulse input 2.Max input Frequency: 500KHz 3.PG power Output: +5V</td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td>Injection moulding machine signal converting Card</td>
<td>Support 2 channels analog input, current input range: 0-1A and 0-2A optional</td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td>Removable keypad</td>
<td>Removable and remote keypad extendable and 100m remote control</td>
</tr>
</tbody>
</table>
Control Circuit and Main Circuit Wiring

Breaker
Contactor

High speed pulse terminal

Break Resistance

Main circuit
Control circuit

Digital input 1
DI1

Digital input 2
DI2

Digital input 3
DI3

Digital input 4
DI4

Open collector output2
High speed pulse output

Relay output

AO1
AO2
AO1, AO2 output: 0~10V/0~20mA

AO card

VFD300A

3phase AC input
380V~50/60Hz

110V

+10V

GND

0~10V/0~20mA

Open collector output1

Note:
- shield Twisted cable
- shield Twisted cable

+10V

AO1

AO2

485+ GND

485- COM

A11 A12 A01 485 - GND D11 D12 D13 D14 HD1

GND A12 A02 485 - COM D01 FM COM PLC +24V

TA TB TC

Widely applications

Control circuit

VFD300A

RS485 port

PC

TA

T

C

www.veikong-electric.com

VFD300A AC Drive

VFD300A AC Drive

Hoisting Industry

Pump

Winding Machine

Plunger pump, ball screw feed of CNC machine, control system compressor adding control system motor, low voltage motor, slip ring motor, belt drive motor, Cincinnati CNC machine, etc.

Heating System

Iron and steel industry

Petroleum Industry

Compressor

Power Industry

Conveyer Belt

Chemical Industry

Textile Industry

Fan Industry

Combustion System

Machine Tool Industry

Equipment Industry

Conveyor Industry

Injection Molding Machine

Iron and steel industry

Inkjet Printing Machine
VEIKONG VFD200 series inverter is economical inverter specially for small scale processing and manufacturing automation control.

VEIKONG VFD200 series small power drives

**Product positioning**

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 in high precision by decoupling control of motor magnetic flex 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, over temperature, 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**

| Model            | Power Capacity (KVA) | Input Current (A) | Output Current (A) | Adaptable Motor | Mounting Dimension
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<td>KW</td>
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<td>4</td>
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<td>7</td>
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<td>23</td>
<td>9.6</td>
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<td>227 162 123 5.2</td>
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**Model and data of VFD200**

<table>
<thead>
<tr>
<th>Model</th>
<th>Mounting Dimension</th>
<th>Dimension</th>
<th>Pure Operating</th>
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<tr>
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<td>Width(mm) Length(mm) Height(mm)</td>
<td>Width(mm) Length(mm) Height(mm)</td>
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| 0.75kw-3.7kw keyboard installation dimension: width=115mm, depth=90mm.
Intelligent digital motor online soft starter equipment system with the complete protection function, extend the service life of the system, reduce the cost of system cost, improve the reliability of system and compatible with all the functions of starting equipment; It is a new ideal alternative Traditional Triangle Starter for star and self-coupling decompression Starter.

1. Six group parameters convenient in one soft starter to different power motors load.
2. Dynamic fault recording function and Inspecting motor feedback to realize closed loop control to give best motor start up in different conditions and different loads.
3. A variety of ways starting: voltage RAMP starting way can get the maximum output torque; Current limiting can realize Biggest Limitations of the Start soft starting current.
4. Reliable quality Assurance: using computer simulation design; SMT Production process; Electromagnetic Compatibility Excellent Performance; High temperature aging, Vibration Test before Delivery of the machine.
5. Perfect and Reliable Protection function: Loss of Voltage, Loss Voltage, over Voltage Protection; Overheating, too long starting time; Input phase Lost, lost output phase, three phase imbalance, starting over current, overload and load protection short circuit, etc.
6. Modbus monitoring dynamic control starter, easy networking.
7. LCD screen can display parameter code, state and error.