

AC310 High Performance Vector Frequency Inverter





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*January 2021 edition Subject to change without notic Veichi Electric Co.,Ltd all rights reserved. Reprinting is strictly prohibited. Veichi Electric Co.,Ltd. Since its establishment, it has always focused on the field of electrical transmission and industrial control. It is a high-tech enterprise engaged in the research and development, production and sales of industrial automation products. And won the honorary titles of Jiangsu Provincial Enterprise Technology Center, Jiangsu Private Technology Enterprise, and "Competitive Brand in the Field of Motion Control". After years of independent R&D and innovation, the company has developed a series of patented technologies with independent intellectual property rights. As of December 31, 2020, a total of 103 patents have been granted, including 18 invention patents.

The company has R&D and production bases in Suzhou and Shenzhen, and has established a wholly-owned subsidiary in India. At present, the company's business covers many countries and regions, providing global customers with competitive, safe and reliable products and services.

The company's product range is rich, including frequency converters from 0.4kW to 1,200kW, servo systems from 50W to 200kW, motion controllers, PLCs and HMIs. Products are widely used in lifting, mining equipment, rail transit, machine tools, compressors, plastics, photovoltaic pumping, building materials, robots/manipulators, printing and packaging, textile and chemical fiber, metallurgy, municipal administration, petroleum, chemical and other industries.

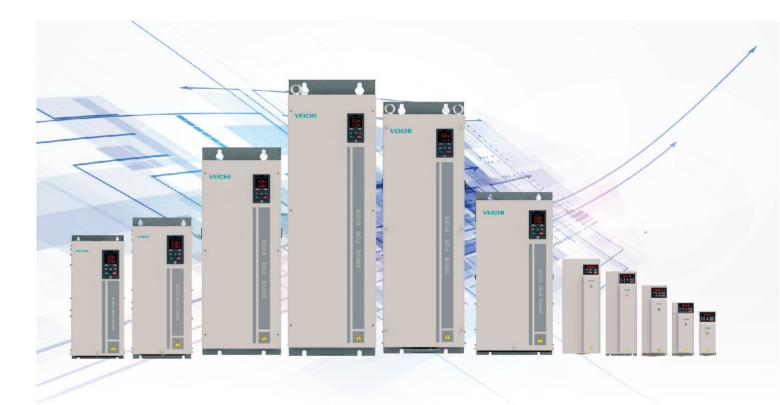
The company has established 13 service outlets in China and developed 122 contracted channel dealers. The distribution channels cover 31 provinces and cities across the country and Hong Kong, Macao and Taiwan regions, forming a wide-ranging and efficient distribution and service network to provide customers with high-quality products and efficient Service.

As of December 2020, Flextronics has more than 900 employees, of which more than 200 are specialized in R&D, accounting for 25% of the total number of employees. The company is committed to creating a positive working atmosphere and providing employees with a diversified development platform, Let every member be professional, precise and dedicated, and form a solid business community with every member, and win the future together.

In the future, Flextronics will continue to adhere to the business philosophy of "market demand-oriented, technological innovation-driven", to expand and strengthen core businesses such as inverters, servo systems and motion controllers, and intelligent Internet of Things, and always insist on providing Good products, good services, through our own efforts, to promote the development of electric drive and industrial control fields, make contributions within our capacity.



AC310 series High-performance inverter





Simple in type good at heart

Inherit the good platform technology of Flextronics;

The industry's leading vector technology;

Synchronous / asynchronous simultaneous drive;;

Integrate multi-industry applications, optimize selection;



Make it simple

Simple wiring, European-style terminals, saving wiring time, cut costs;

Adopt the domestic general parameter

Adopt the domestic general parameter arrangement, optimize the panel buttons, Simple to use;

Simple debugging, dedicated upper software, minimize debugging;

 $\ \, \hbox{Time and difficulty};$



Thinner, design and aesthetics integrated

Book Machine" in the Inverter;

Book-style narrow body design, reducing volume by up to 60%;

Up and down straight-through heat dissipation, multiple inverters can be installed side by side device, greatly reducing the

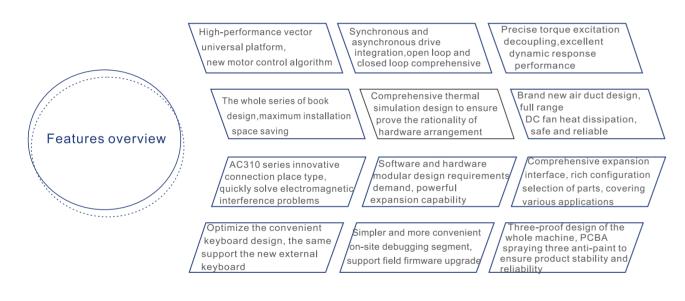
volume of the electrical cabinet;

AC310 series High-performance inverter

The AC310 series inverter is a high-performance vector inverter that is a continuation of the AC300 hardware structure design concept by Flextronics, retains the characteristics of the new generation of Flextronics products, and breaks through innovation in functional performance. It not only adopts the international leading field-oriented vector control technology, but also enriches the control methods of various forms of load such as voltage-frequency separation EPS power supply on the basis of compatible asynchronous and synchronous motor control. Under the premise of ensuring product high performance and high reliability, rationally layout parts, maintain product book-style narrow body design, pay attention to product ease of use and industry-specific design, and better solve customers' product selection Troubles. It is equipped with abundant expansion ports and a variety of expansion accessories to achieve the characteristics of high performance, high reliability, high power density and high applicability.



Product features



General specification

| AC 310 series | | |
|---------------|-----------------------------|---------------------------------------------------------------------------|
| | Simplex 220V 50/60Hz | 0.75-220kW |
| Power level | Three phase 220V 50/60Hz | 0.75-220kW |
| | Three phase 380V 50/60Hz | 0.75-1200kW |
| | Allow voltage fluctuation | Voltage : 320V~480V Voltage imbalance rate:<3% |
| Input | Allow frequency fluctuation | Frequency:±5% |
| | Distortion rate | IEC61800-2 |
| | The output voltage | 0~Input voltage,error is less than 5% |
| Output | Output frequency range | 0-600Hz |
| · | Overload capacity | 150%Rated current 1min 180%Rated current 10s 200%Rated current 0.5s |

Performance features

Support multiple types of motors/loads

Compared with other inverters that can only drive corresponding motors, AC310 series inverters are customer diversity, can drive ordinary three-phase asynchronous motors, variable frequency motors, AC servo motors, permanent magnet synchronous motors, high-speed synchronous motors, spindle motors, synchronous reluctance motors, torque motors, Linear motors, etc.

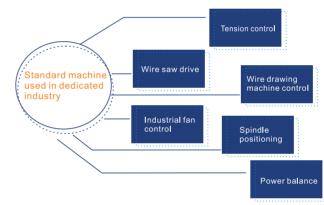


Control mode selection

| Control mode | Speed control | Torque control | Position control | Applicable motor |
|------------------------------------|------------------|-------------------|------------------|--------------------------------------------------------------------------|
| VF mode | • | | | Asynchronous motor |
| Voltage frequency separation | • | | | Torque motor, EPS power supply, series resonance |
| High performance vector without PG | • | • | | Asynchronous, permanent magnet synchronous |
| With PG high performance vector | • | • | • | Asynchronous, permanent magnet synchronous, synchronous reluctance |

Standard machine "special" use, function in one

AC310 continues the innovative mechanism of the 300 series, retains the original product features, and is committed to solving the troubles of customer selection and improving market competitiveness. It has industry expansion functions. It can expand and increase parameters according to the actual use industry, and integrates multiple industry parameters. So as to realize the "special" use of the standard machine and the integration of functions.



Actively respond to industry4.0

With the continuous reform of intelligent production, centralized control of products becomes more common. AC310 products can support communication with different types of DCS systems and PLC systems, and can support direct communication between various types of touch screens and AC310. MODBUS-RTU communication is standard and compatible options. Equipped with support for PROFIBUS-DP, CANOPEN, PROFINET communication protocols.



Excellent control performance

| Control mode | Speed control range | Starting torque | Applicable motor |
|---------------------------------------|---------------------|--------------------|--------------------------------------------------|
| High performance vector without PG | 1:200 | 150% | Permanent magnet synchronous motor |
| High performance vector without PG | 1:100 | 150% | Asynchronous motor |
| With PG high performance vector | 1:1000 | 200% | Asynchronous, permanent magnet synchronous motor |
| | | | |

Closed-loop torque response <10ms, steady speed accuracy 0.02%, speed ripple 0.2%

Open-loop torque response <20ms, stable speed accuracy 0.2% (synchronous), 0.5% (asynchronous)

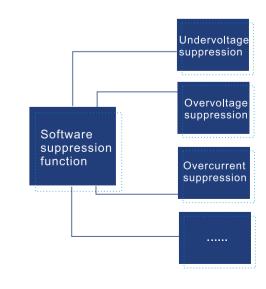
The highest vector output frequency is $600\mbox{Hz}$, and the lowest carrier frequency is $1\mbox{KHz}$

Voltage frequency separation, professional drive

The comprehensive and abundant dedicated function algorithms for voltage-frequency separation can effectively drive torque motors and realize steady-state control of EPS power supplies. At the same time, it is widely used in a variety of withstand voltage test equipment in power applications.



Software suppression function

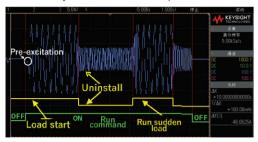


High starting torque characteristics

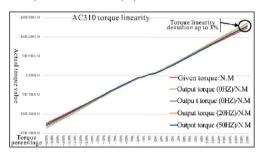
Low frequency torque is large. In the closed-loop vector mode, 200% rated torque can be output at 0.0Hz,

It can run stably with load at ultra-low speed of 0.01Hz. Powerful low-torque output, which can effectively

Ensure the stability and smooth start-up.

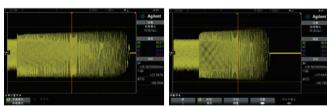


In torque control mode, the torque output is stable. The linearity deviation is within 3%, which greatly guarantees The stable operation of the equipment.



Overexcitation braking function

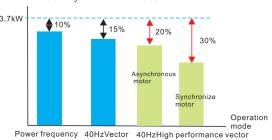
In the case of partial inertia shutdown, the braking resistor can be used without increasing the braking resistance, and the over-excitation braking function can be used realize fast braking and improve product ease of use. Over-excitation braking function effectively suppresses deceleration the DC bus voltage rises during the process to avoid inverter over-voltage faults, while achieving rapid braking, quickly stop after a power outage.



Overexcitation braking function is invalid Overexcitation braking function is effective

Excellent energy saving function

The use of a new generation of energy-saving control technology can realize the efficient operation of induction motors; the load current reduces the excitation current, and the load condition is automatically adjusted to save energy; maximize the machine efficiency; reduce motor loss and reduce energy loss. 30% of the asynchronous machine adopts the vector the synchronous machine is driven by the mass mode, and the energy efficiency can be increased by more than 10%.



Fan energy saving comparison char

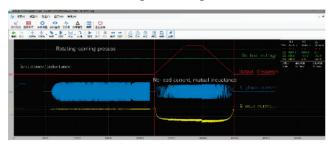
Motor parameter self-learning

Whether in the self-learning of rotating or stationary motors, the motor parameters can be accurately obtained, and the debugging method convenient and simple to operate, providing higher control accuracy and response speed.

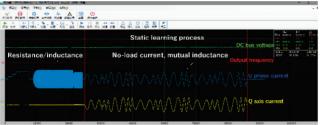
Spin self-learning

The load must be disengaged for learning, and it is suitable for occasions with high control accuracy requirements.

Completely static self-learning The powerful motor self-learning algorithm can obtain the motor parameters when the motor is stationary, and the effect is comparable to rotating self-learning.



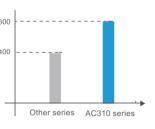


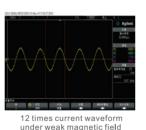


Static self-learning

Stable high-speed field weakening control

The new field weakening control algorithm and the highbandwidth current vector control algorithm achieve a stable high fast field weakening operation, up to 12 times of field weakening high precision output.





- Other series: The maximum output frequency under vector control is 320/400Hz;
- ■AC 310 series: The highest output frequency under vector control is 600Hz.

Other software functions

Support software online upgrade

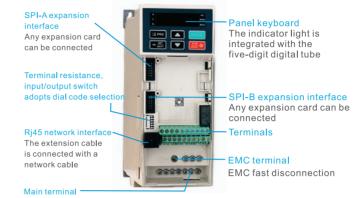
Random carrier capability

Powerful PC software

Structural hardware characteristics

Simple internal layout, convenient wiring operation

The whole series adopts narrow-body design and strictly controls the structural size. The main model includes most of the common is suitable for application, various expansion interfaces and wiring terminals are distributed in an orderly manner, and the wiring operation is convenient.



Number of standard terminals

| Serial number | Unit circuit | Quantity | Remarks |
|---------------|------------------------------|----------|-------------------------------|
| 1 | Normal X input | 5 | Bidirectional input |
| 2 | Normal Y output | 1 | Open collector output |
| 3 | Relay output | 1 | Normally open/normally closed |
| | 10V power output | 1 | 50mA |
| 4 | 24V power output | 1 | 100mA |
| 5 | Voltage/current analog input | 2 | V/A support free switching |
| | | | 0-10V output |
| 6 | Analog output(optional) 1 | 1 | 0-20mA output |
| | | | 0-100kHz pulse output |
| 7 | Rs485 communication | 1 | ModBus-RTU |
| 8 | Low speed pulse input | 1 | X5 terminal:0-5kHz input |

New book structure

The whole series of AC310 series frequency converters adopts a narrow book design, and the volume is reduced.60%. It is the "book-based machine" in the real inverter.



New structure design



Electronic device and radiator duct isolation design, in which capacitance, MOS tube and relay to strengthen protection, machine a closed design is adopted on both sides of the device. Mention high environmental resistance of the machine.

Wide tooth surface heat dissipation and high wind speed design.
Ensure that the full power range of the inverter enough to use at high temperature without derating.



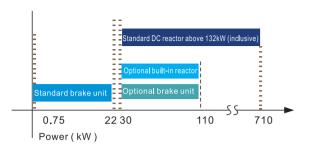
Optimized structure design

Book-style narrow body design, rational use of space, greatly saving customers' main cabinet space and main cabinet cost.

380V 2.2kW example



Braking unit and reactor configuration



- 0.75~22kW Standard brake unit
- 30~110kW Optional built-in brake unit
- 45kW—110kW Optional built-in DC reactor
- Standard DC reactor for 132kW (inclusive) and above (standard input reactor for 630-710kW)

Port feature dial code selection

Port characteristics are convenient to choose dialing codes. You can quickly select input and output characteristics with a common screwdriver.

| Dialing diagram | Tag | Select location | Function Description |
|-----------------|-------|-------------------------------|-----------------------------------------------------------------|
| | RS485 | 485 terminating resistor | RS485 communication access 120 ohm terminal resistance |
| RS485 OFF ON | AO-F | AO output frequency | AO interface 0.0~100kHz frequency output |
| AO-F OFF ON | AO-I | AO output current | AO interface 0~20mA current output or 4~20mA current output |
| AO-U OFF ON | AO-U | AO output voltage | 0~10V voltage output |
| AI1 U I I | | AI1 input-current/ voltage | AI1 input $0\sim20$ mA or $4\sim20$ mA or AI1 input $0\sim10$ V |
| | | AI2 input-current/ voltage | Al2 input 0~20mA or 4~20mA or Al2 input 0~10V |

Keyboard operation

A newly designed panel keyboard with superior operability. Built-in keyboard and external keyboard support dual display (control right can be selected through the inverter parameters built-in or external keyboard)



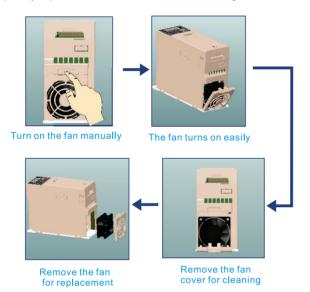
Two-line keyboard (can be cited outside)

Note: Plastic case below 37KW adopts integrated keyboard, and steel case above 37KW adopts double-row keyboard.

| | Name | Status | Meaning |
|---------------------|------|-----------------|------------------------------------|
| | Hz | Flashing/bright | Frequency unit |
| | А | Bright | Current unit |
| Unit indicator | V | Flashing/bright | Voltage unit |
| | RPM | Bright | Speed unit |
| | % | Flashing/bright | Percentage unit |
| | RUN | Bright | The inverter is running forward |
| Status Indicator | RUN | Flashing | The inverter is running in reverse |
| | RUN | Turn off | Inverter stop |

Fast disassembly and assembly design of the fan

Using innovative fan structure design, under the premise of ensuring the stability and efficiency of the fan, in order to quickly replace and clean the fan without using external tools.



Wide voltage design

The allowable fluctuation range of input voltage is±15% of rated voltage, use time can be protected from voltage fluctuations impact, meet the demanding grid environment territory.



EMC broken ground design

Adopt innovative EMC break ground design, grounding can be quickly selected through the terminal or intermittently, effectively solve EMC interference.



European terminal block

Use professional European-style terminals that comply with IEC 60998-2-1; UL 1059; UL 486E specifications while ensuring safety and reliability, it saves connection time: stripping → wire sleeve number → screw locking AC310 frequency converter adopts European-style terminals on the main circuit terminals of low-power machines. Use european style the time of the terminal connecting the main circuit in the cabinet is at least half the time compared to the previous machine. Greatly improve the customer's assembly efficiency.



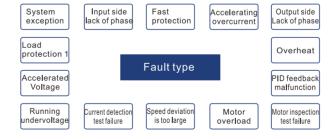
 $\mathsf{Stripping} \to \mathsf{Socket}\,\mathsf{No.} \to \mathsf{Crimping}\,\mathsf{Nose} \to \mathsf{Screw}\,\mathsf{Lock}$

 $\mathsf{Stripping} \to \mathsf{Socket}\,\mathsf{No.} \to \mathsf{Screw}\,\mathsf{Lock}$

| | AC310 model | Wire thread ∅ (mm) | Wire cross-sectional area S (mm²) | Stripping length L (mm) |
|---------------------------|--------------|-------------------------|----------------------------------------|---------------------------|
| | 0.75kW-2.2kW | 0.25-2.5 | 0.05-5.2 | 7-8 |
| Main circuit terminal | 4.0kW-5kW | 0.5-2.5 | 0.2-5.2 | 6-7 |
| | 7.5kW-11kW | 0.8-4 | 0.5-13 | 10-11 |
| Wire stripping diagram | | | | s |

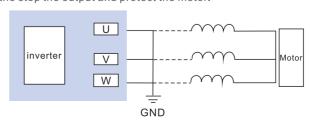
Protective function

With output short-circuit protection to ground, internal buffer relay protection, fan drive circuit protection, external 24VDC DC short circuit protection, motor overload protection and other hardware protection functions comprehensive protection of the internal and peripheral equipment of the inverter.



New motor-to-ground short-circuit detection

The inverter starts the ground short-circuit protection test immediately. Once a short-circuit on the motor side is found, the stop the output and protect the motor.



Expandability

Super expansion ability

A variety of extended interfaces to meet customized needs. AC310 control board retains two SPI high-speed channel external extension cards, and the control board automatically recognizes the expansion card also contains the expansion card setting parameter group.

Expansion Card

| Expansion card model | Claim |
|----------------------|-----------------------------------|
| IO Expansion Card | Optional, high-speed pulse, relay |
| Speed tracking card | Optional, multi-type encoder |
| PG Card | Optional, multi-type encoder |
| Speed tracking card | Optional |
| RT resolver card | Optional |
| GPRS Card | Optional |

Communication expansion card







| Communication expansion card model | Claim |
|------------------------------------|----------|
| PROFIBUS-DP card | Optional |
| CANopen card | Optional |
| PROFINET card | Optional |
| | |

IO Expansion Card

| | Attributes | Terminal | Description |
|---|-----------------------------------------|---------------------------------|------------------------------------------------------------|
| j | Input IO | ExpandX6/X7/X8/X10 | PLC/COM, Co-negative, Co-positive |
| | High-speed pulse input | X10 | 0-100KHz |
| | Digital output | Extend Y2 | DC24V/50mA |
| | Digital output | Expansion relay TA2/TB2/TAC2 | 3A/240VAC |
| | Synchronous motor temperature detection | PK+/PK- | Support PT100/PT1000/KTY84, Motor temperature detection |
| | Public | COM/PLC2 | External public |
| | Switch | S7 | Input terminal polarity selection |

Logic board expansion card

The inverter replaces the PLC to perform simple logic control. The program development environment using the widely used MELSEC programmable controller.

The product integrates general and comprehensive function blocks.



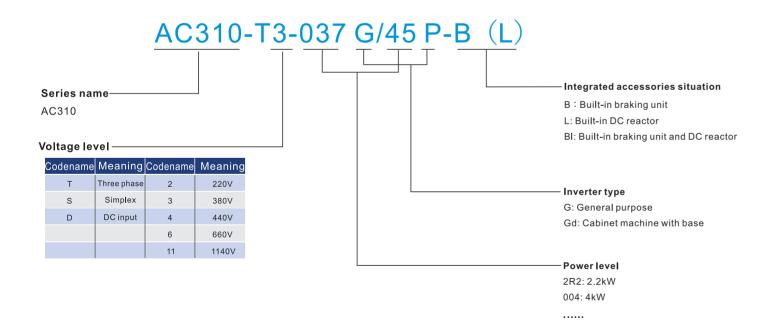
Veichi Internet

Intelligent terminal, high positioning accuracy, compact and beautiful, easy to install.It adopts GPRS and GSM dual mode communication mode, stable operation and reliable performance.

Through the remote monitoring module, online monitoring and remote fault diagnosis are realized, providing customers with a larger range of value-added services.



Model Description



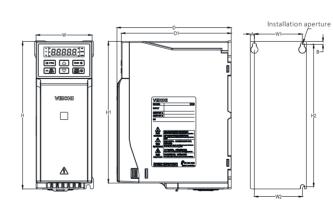
Inverter rated output current

| Voltage | 220V | 380V |
|-------------|--------------------------|------|
| Power level | Rated output current (A) | |
| 0.75 | 4 | 3 |
| 1.5 | 7 | 4 |
| 2.2 | 10 | 6 |
| 4 | 16 | 10 |
| 5.5 | 20 | 13 |
| 7.5 | 30 | 17 |
| 11 | 42 | 25 |
| 15 | 55 | 32 |
| 18.5 | 70 | 38 |
| 22 | 80 | 45 |
| 30 | 110 | 60 |
| 37 | 130 | 75 |
| 45 | 160 | 90 |
| 55 | 200 | 110 |
| 75 | 260 | 150 |
| 90 | 320 | 180 |
| 110 | 380 | 210 |
| 132 | 420 | 250 |

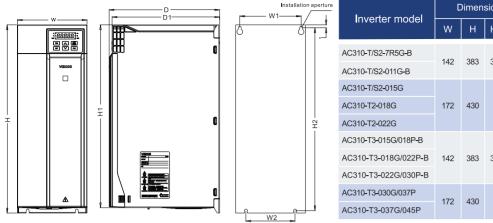
| Voltage | 220V | 380V |
|-------------|-------------|---------------|
| Power level | Rated outpu | t current (A) |
| 160 | 550 | 310 |
| 185 | 600 | 340 |
| 200 | 660 | 380 |
| 220 | 720 | 415 |
| 250 | | 470 |
| 280 | | 510 |
| 315 | | 600 |
| 355 | | 670 |
| 400 | | 750 |
| 450 | | 810 |
| 500 | | 860 |
| 560 | | 990 |
| 630 | | 1200 |
| 710 | | 1340 |
| 800 | | 1500 |
| 900 | | 1620 |
| 1000 | | 1980 |
| | | |

Installation dimension drawing

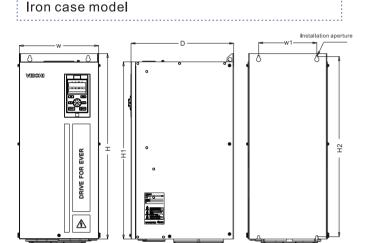
Plastic case model



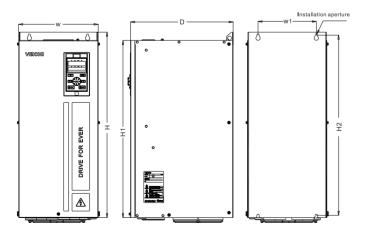
| las conto a no o del | | Dime | nsions | (mm | ı) | Installation size (mm) | | | | | Installation |
|----------------------|-----|-------|--------|------|-----|--------------------------|------|---------|-----|-----|--------------|
| Inverter model | W | Н | H1 | D | D1 | W1 | W2 | H2 | А | В | aperture |
| AC310-T/S2-R75G-B | 70 | 000 | 100 | 455 | 440 | 05 | 0.5 | 100 | | | 0.144 |
| AC310-T/S2-1R5G-B | 76 | 200 | 192 | 155 | 149 | 65 | 65 | 193 | 5.5 | 4 | 3-M4 |
| AC310-T/S2-2R2G-B | 100 | 242 | 231 | 155 | 149 | 84 | 86.5 | 231.5 | 8 | 5.5 | 3-M4 |
| AC310-T/S2-004G-B | 100 | 242 | 231 | 100 | 143 | 04 | 00.5 | 201.0 | O | 5.5 | 3-1014 |
| AC310-T/S2-5R5G-B | 116 | 320 | 307.5 | 175 | 169 | 98 | 100 | 307.5 | 9 | 6 | 3-M5 |
| AC310-T3-R75G/1R5P-B | | 200 | | 155 | 149 | 65 | 65 | 193 5.5 | | 4 | 3-M4 |
| AC310-T3-1R5G/2R2P-B | 76 | | 192 | | | | | | 5.5 | | |
| AC310-T3-2R2G-B | | | | | | | | | | | |
| AC310-T3-004G/5R5P-B | 100 | 242 | 231 | 155 | 149 | 84 | 86.5 | 231.5 | 8 | 5.5 | 3-M4 |
| AC310-T3-5R5G/7R5P-B | 100 | 242 | 231 | 133 | 143 | 04 | 00.5 | 201.0 | U | 5.5 | 3-1014 |
| AC310-T3-7R5G/011P-B | 116 | 6 320 | 307.5 | 175 | 169 | 98 | 100 | 307.5 | 9 | 6 | 3-M5 |
| AC310-T3-011G/015P-B | 110 | 320 | 307.3 | 175 | 109 | | | | | | 3-1013 |



| ure | Inverter model | [|) | Installation size (mm) | | | | Installation | | | |
|---------|----------------------|-----|-----|--------------------------|-----|-----|-----|--------------|-------|-----|----------|
| İ | inverter model | W | Н | H1 | D | D1 | W1 | W2 | H2 | В | aperture |
| | AC310-T/S2-7R5G-B | 142 | 383 | 372 | 225 | 219 | 125 | 100 | 372 | 6 | 4-M5 |
| | AC310-T/S2-011G-B | | | | | | | | | | |
| | AC310-T/S2-015G | 172 | 430 | 1 | 225 | 219 | 150 | 150 | 416.5 | 7.5 | 4-M5 |
| | AC310-T2-018G | | | | | | | | | | |
| | AC310-T2-022G | | | | | | | | | | |
| | AC310-T3-015G/018P-B | | 383 | 372 | 225 | 219 | 125 | 100 | 372 | 6 | 4-M5 |
| | AC310-T3-018G/022P-B | 142 | | | | | | | | | |
| | AC310-T3-022G/030P-B | | | | | | | | | | |
| | AC310-T3-030G/037P | 172 | 430 | 1 | 225 | 219 | 150 | 150 | 416.5 | 7.5 | 4-M5 |
| | AC310-T3-037G/045P | | | | | | | | | | |

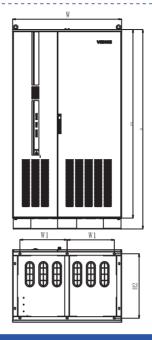


| Inverter model | Din | nensio | ns (mr | n) | Installation si | Installation | |
|----------------------|-----|----------|---------|-----|-----------------|--------------|-----------|
| inverter model | W | Н | H1 | D | W1 | H2 | aperture |
| AC310-T2-030G | | | 535 | 310 | 176 | 544 | 4-M6 |
| AC310-T2-037G | 240 | 560 | | | | | |
| AC310-T2-045G | | | | | | | |
| AC310-T2-055G | 270 | 638 | 580 | 350 | 195 | 615 | 4-M8 |
| AC310-T3-045G/055P | | 560 | 535 | 310 | 176 | 544 | |
| AC310-T3-055G/075P | 240 | | | | | | 4-M6 |
| AC310-T3-075G/090P | | | | | | | |
| AC310-T3-090G/110P | | 270 638 | 580 | 350 | 195 | 615 | 4-M8 |
| AC310-T3-110G/132P | 2/0 | | | | | | |
| AC310-T3-132G/160P-L | 350 | 720 | 680 | 405 | 220 | 715 | 4-M8 |
| AC310-T3-160G/185P-L | 330 | 0 738 | | | | | |
| AC310-T3-185G/200P-L | | | | | | 910 | 4-M16 |
| AC310-T3-200G/220P-L | 360 | 940 | 850 | 480 | 200 | | |
| AC310-T3-220G/250P-L | | | | | | | |
| AC310-T3-250G/280P-L | 270 | 370 1140 | 1050 | E4E | 200 | 1110 | 4-M16 |
| AC310-T3-280G/315P-L | 3/0 | | 1050 | 545 | | 1110 | 4-IVI 1 b |



| Income woodal | Di | mensio | ns (m | m) | Installation si | Installation | |
|----------------------|-----|--------|--------|-----|-----------------|--------------|----------|
| Inverter model | W | Н | H1 | D | W1 | H2 | aperture |
| AC310-T3-315G/355P-L | 400 | 1250 | 1140 | 545 | 240 | 1213 | 4-M16 |
| AC310-T3-355G/400P-L | | | | | | | |
| AC310-T3-400G/450P-L | | | | | | | |
| AC310-T3-450G/500P-L | | 1400 | 1293 | 545 | 300 | 1363 | 4-M16 |
| AC310-T3-500G/560P-L | 460 | | | | | | |
| AC310-T3-560G/630P-L | | | | | | | |

Cabinet model



| 1 | Leader model | ı | Dimensi | ons(mm |) | Install size(| Installation | |
|---|------------------------|------|---------|--------|-----|------------------|--------------|----------|
| | Inverter model | W | н | Н1 | D | W1 | H2 | aperture |
| | AC310-T3-630G/710P-L | 1201 | 2198 | 2078 | 798 | 520 | 711 | ф 14 |
| | AC310-T3-710G/800P-L | | | | | | | |
| | AC310-T3-800G/900P-L | | | | | | | |
| | AC310-T3-900G/1000P-L | | | | | | | |
| | AC310-T3-1000G/1120P-L | | | | | | | |

Accessories list

AC300PG01

There are 5V and 12V power PG card, support incremental differential output encoder and open collector output encoder.



AC300 PN card

Support standard profinet



AC300RT1

Supports four different ratios of 0.219, 0.286,0.5,0.58,the factory default ratio is 0.5



AC300IO1

Four digital inputs(X10z supports 50k pulse input), one digital output one analog input and one relay output.
Support temperature detection(PT100,PT1000 and KTY84)



AC300CAN1

CANopen expansion card



KBD10-15

External LED five-digit display and operation keyboard, potentiometer speed control



AC300DP01

Profibus communication expansion card



KBD300-25

Two-line external five-digit display keyboard, silicone buttons, digital potentiometer



AC300-GPRS

Equipment positioning and maintenance, real-time monitoring, data collection

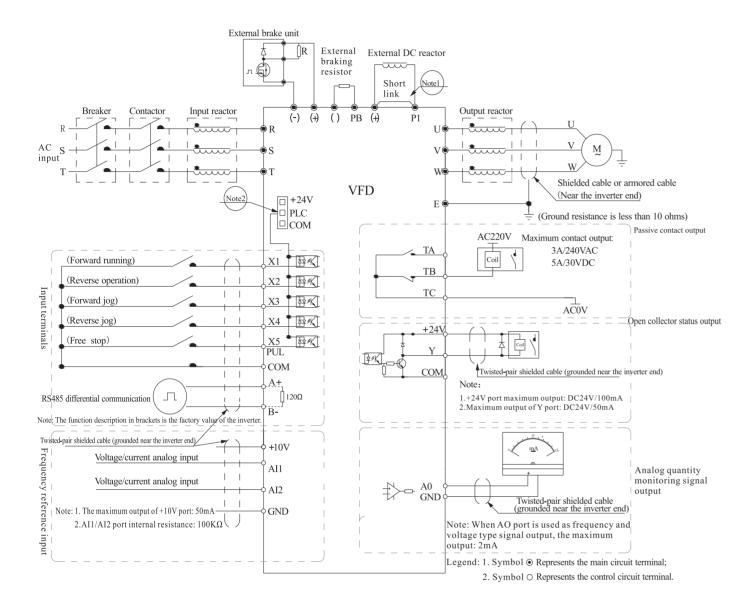


KBD300-L1 LCD keyboard

Have a good human-computer interface



Wiring diagram



Note: 1. When installing the DC reactor, be sure to remove P1(+) Shorting strip between terminals.

- 2.Multi-function input terminals (X1~ X5/PUL) can choose NPN or PNP transistor signal as input, and the bias voltage can choose the inverter internal power supply (+24V terminal), or select the external power supply (PLC terminal). The factory default "+24V" and "PLC" are shorted, and the position of the shorting piece is between RJ45 and the terminal.
- 3. The analog monitoring output is dedicated output for indicator meters such as frequency meters, ammeters, and voltmeters, and cannot be used for control operations such as feedback control.
- 4. Since there are many types of pulses in actual use, please refer to the detailed description for specific wiring methods.

Application field

