

VEICHI

AC310-Series High-performance Vector AC Drive



VEICHI

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Official Website

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Veichi (stock code: 688698) has always committed to electric drive and industrial control since it's foundation. As an all-round company engaged in R & D, manufacturing and sales on high-tech industrial automation products, Veichi has been identified with several honorary titles such as the third patch of Specialized and Sophisticated Enterprises That Produce New and Unique Products, New and High-tech Enterprise, Jiangsu Engineering Technology Research Center, Jiangsu Provincial-level Enterprise Technology Center, Jiangsu Private-own Technical Enterprise, and has obtained the highest level of enterprise credit. Through years of independent research and development, Veichi now has been authorized with patents totaling 163 by the end of June, 2023, and among them 43 are for invention.

Having established R & D center and manufacturing bases subsidiary in India, Veichi now are dealing with customers from several nations and regions and has the full capability to provide safe, competitive and trustworthy products and services to customers from the larger world.

Veichi provides various products including AC drive, servo

2014

Veichi project

First stage of Suzhou

groundbreaking and

put into construction

system, and control system, which are applied in all sorts of fields like heavy industry, mining, petroleum and petrochemiing, high-efficiency energy, robotics, printing and packaging, textile, new energy, medical and many other industries

20 service stations and 211 contracted distributors cover 31 provinces on China mainland and Hong Kong, Macao and Taiwan regions, which guarantees a massive and efficient network for sales and services for our customers.

Veichi will continue to abide by the operation philosophy, that is, guided by market demand and driven by technological innovation, enlarge and enhance its core business like AC drive, servo system, control system and SIoTs. And Veichi will always be devoted to providing quality products and services for customers and further make contributions to the development of electric drive and industrial control.

Industry-leading vector technology. Simultaneous synchronous/ asynchronous drive. Integration of multi-industry applications and optimized selection.

Simple outside while fine inside

power density and high applicability.

AC310 series performance AC drive

AC310 series high-performance AC drive

The AC310-series high-performance vector AC drives further extend its advantages on functions and properties based on the design concept of AC300-series hardware architecture and new features of the latest generation of Veichi products. Combined with the world-leading magnetic field-oriented

vector control technology and compatibility of both asynchronous and

synchronous motor control, this drive supports multiple control methods such

as voltage-frequency separation EPS. On promised high performance and high

reliability of the product, the layout of components is improved within the

unchanged book-like narrow housing for higher usability and industry special-

ization to reduce choice phobia for customers. Multiple extension ports and

accessories are designed to realize high performance, high reliability, high

Simplify the complexity

Simple wiring & European-style terminals to reduce wiring time and cost. Simple use by common parameter layout and optimize keys on the panel. Simple debugging via special upper software to minimize time and difficulty.

A "book" among drives

Book-like design with narrow housing, volume reduced by up to 60%. Up and down straight-through heat dissipation enabling side-by-side installation of several drives and thus reducing the volume of the electrical cabinet.

2022

• Xi'an R&D Center established

Veichi Digital Energy subsidiary established

• First stage of Suzhou Veichi project put into operation

2016

First generation of motion control system launched

- Awarded as the third patch of "Small Giant" Firms That Produce

2021

A-share of science and technology

• Awarded as provincial Specialized and

Sophisticated "Small Giant" Firms That

Produce New and Unique Products

innovation board landing

2020

- A Veichi controlled subsidiary established
- Specialized and Sophisticated New and Unique Products

Suzhou Veichi Phase II project put into operation

2023

- Suzhou Veichi Phase III Project put into construction
- Veichi Medical Equipment subsidiary established

2013

Beginning of entrepreneurship

• First-generation of AC drive

successfully launched

2005

in Shenzhen

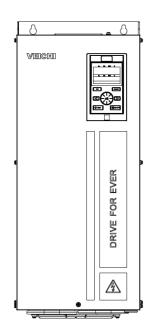
• Suzhou Veichi Electric Co., Ltd established First generation of servo system successfully

2019

Indian subsidiary established

Restructure to a company limited by shares

Product Features



Features overview

- Innovative grounding method for AC310 01 High-performance vector universal series to quickly solve electromagnetic platform,new motor control algorithm interference
- O2 Synchronous and asynchronous drive integrated, open loop and closed loop
 - 08 Modular design of software and hardware for powerful extension capability
- **03** Precise torque excitation decoupling, excellent dynamic response performance
- Overall three-profings for the product and tri-proof paint on PCBA for stable and reliable operation
- installation space
- 04 Booklet design for full series to minimize 10 Comprehensive expansion ports and accessories for all sorts of applications
- 05 Safe and reliable new air duct design of DC fan cooling for full series
- 11 Optimized keyboard design for the new external keyboard
- 06 Comprehensive thermal simulation for rational hardware layout
- 12 Simpler on-site debugging methods for field firmware upgrade

General specification

| | Single phase 220V 50/60Hz | 0.75kW-15kW |
|-------------|---------------------------------|---|
| | Three phase 220V 50/60Hz | 0.75kW-220kW |
| Power level | Three phase 380V 50/60Hz | 0.75kW-1120kW |
| | Three phase 660V 50/60Hz | 22kW-1120kW |
| | Allowable voltage fluctuation | T/S2: -10%~10%; T3: -15%~10%; T6: -10%~10%; Voltage imbalance rate<3% |
| Input | Allowable frequency fluctuation | Frequency: ±5% |
| | Distortion rate | IEC61800-2 |
| | Output voltage | 0~Input voltage,deviation lower than 5% |
| | Output frequency range | 0-600Hz |
| Output | | T/S2: 150% rated current 24s, 180% rated current 3.4s |
| | Overload capacity | T3: 150% rated current 89s, 180% rated current 10s, 200% rated current 3s |
| | | T6: 150% rated current 89s,180% rated current 10s,200% rated current 3s |

Performance features Support multiple types of motors/loads AC310 series AC drives are capable to drive ordinary three-phase asynchronous motors, variable frequency motors, AC servo motors,

Asynchronous motor Spindle motor Synchronous motor

Control mode selection

permanent magnet synchronous motors,

high-speed synchronous motors, spindle motors,

torque motors, linear motors, etc to meet the

diverse needs from customers.

| 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 |
| High performance vector with PG | • | • | • | Asynchronous, permanent magnet synchronous, synchronous reluctance |

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 |
| High performance vector with PG | 1:1000 | 200% | Asynchronous, permanent magnet synchronous motor |

Standard device for special use, rich functions in one

Power balance Industrial fan control standard device for special use, multiple functions in one machine Spindle drive Tension control Wire drawing machine control

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 At the same time, it is widely used in a variety of high-voltage insulation test equipments in power industry.

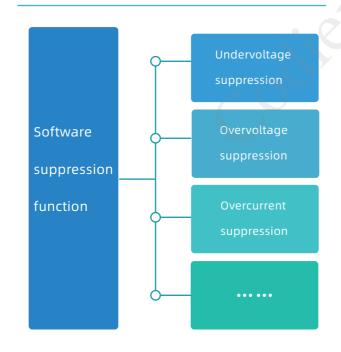


Active response to industry 4.0

With the continuous reform of intelligent production, centralized product control is more common. AC310 products can communicate with different types of DCS systems and PLC systems, and support multiple types of direct communication with HMI.MODBUS-RTU communication is standard while PROFIBUS-DP, CANOPEN and PROFINET are optional.



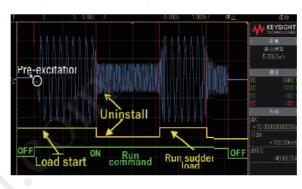
Software suppression function



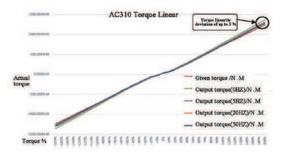
High starting torque characteristics

Low frequency torque is large. In the closed-loop vector mode, 200% rated torque can be output at 0.0Hz, and it can run stably with load at ultra-low speed of 0.01Hz.

Powerful low-torque output can effectively ensure the stability and smooth start-up.



Torque output is stable under torque control mode. The linearity deviation no larger than 3% greatly guarantees the stable operation of the equipment.



Motor parameter self-tuning

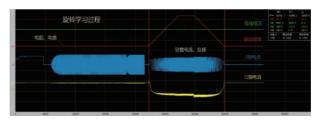
Parameters can still be accurately obtained by self-tuning no matter the motor is rotating or remains idle. Debugging is convenient and simple to maintain higher control accuracy and response speed.

Rotary self-tuning

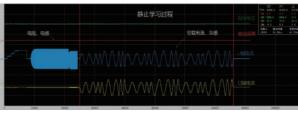
The load must be disconnected for tuning, and it is suitable for occasions with high control accuracy requirements.



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



Rotary self-tuning



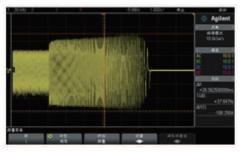
Static self-tuning

Overexcitation braking function

In the case of partial inertia stop, quick braking can be achieved by overexcitation without any additional resistor, which greatly enhances user experience. of the product. Moreover, the over-excitation braking function effectively suppresses busbar voltage rise when decelerating to avoid the over-voltage fault , and at the same time realizes fast braking to meet the requirements of quick stop during power failure.



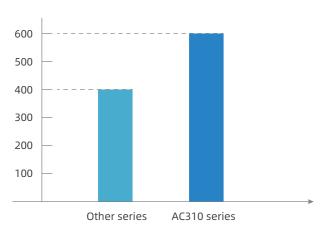
Overexcitation braking function is invalid



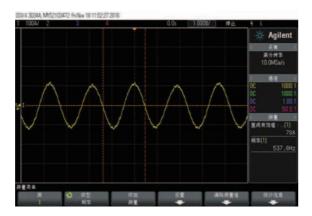
Overexcitation braking function is effective

Stable high-speed weak magnetic control

New weak magnetic control algorithm plus high bandwidth current vector control algorithm ensures stable high-speed weak magnetic running and highly precise weak magnetic output twelve-fold at most.



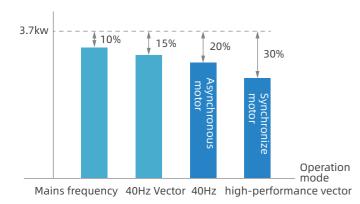
- Other series: The maximum output frequency under vector control is 320/400Hz;
- AC 310 series: The maximum output frequency under vector control is 600Hz.



current waveform under 12-fold weak magnetic field

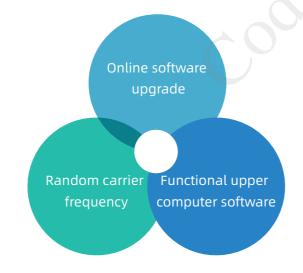
High energy saving

The use of a new generation of energy-saving control technology can realize the efficient operation of induction motors. It can reduce the excitation current according to the load and can also reduce motor and energy loss to the full extent.



Fan energy saving comparison chart

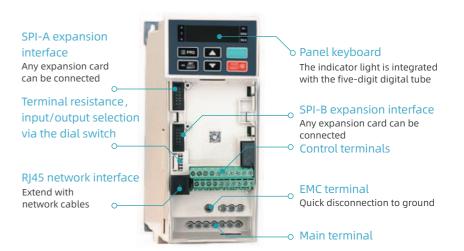
Other software functions



Structural Hardware Characteristics

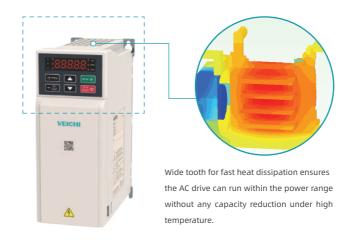
Concise internal layout and convenient wiring

The narrow-body housing for AC310 series is designed with strict dimensions but still, contains most of the common applications, various expansion interfaces and terminals which are distributed in an orderly manner for easy wiring.



New structure design

Electronic devices are separated from the radiator air duct while capacitors, MOS tubes, relays are designed with stronger protection and both sides of the machine are sealed to raise environmental resistance.



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 |
| 4 | 10V power output | | 50mA |
| - | 24V power output | 1 | 100mA |
| 5 | Voltage/current analog input | 2 | V/A support free switching |
| | | | 0-10V |
| 6 | Analog output (optional) | 1 | 0-20mA |
| (optional) | | | 0-100kHz pulse output |
| 7 | RS485 | 1 | ModBus-RTU |
| 8 | Low speed pulse input | 1 | X5 0-5kHz pulse input |

New book-like housing

AC310 whole series drives are designed with narrow bodies like a book, and the volume is 60% smaller than the original one, thus so called "book machine" among drives.

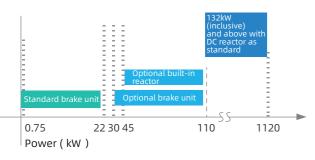


Optimized structure design

Book-like housing plus reasonable use of space greatly saves the main cabinet space and cost for customers.



Braking unit and reactor configuration



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

Port characteristics selection via DIP switch

Customers can quickly select the input and output port characteristics via the DIP switch with a screwdriver.

| | Dialing diagram | Tag | Select location | Function description |
|-------------------------|---------------------|-------|-------------------------------|---|
| A0-F OFF A0-I OFF A11 U | | RS485 | 485 terminal resistance | RS485 communication access to120 ohm terminal resistance |
| | 485 OFF I ON | AO-F | AO output frequency | AO interface 0.0~100kHz frequency output |
| | -F OFF ON ON | AO-I | AO output current | AO interface 0~20mA current output or 4~20mA current output |
| | 1 U 1 | AO-U | AO output voltage | 0~10V voltage output |
| | | AI1 | Al1 input-current/ voltage | Al1 input 0~20mA or 4~20mA or Al1 input 0~10V |
| | | AI2 | AI2 input-current/ voltage | AI2 input 0~20mA or 4~20mA or AI2 input 0~10V |

Keyboard operation

This newly designed panel keyboard is easy to use. Built-in keyboard and external keyboard can both display dual rows of data (select built-in or external keyboard by setting related parameters)





Single-line display external keyboard (opening size: 60*36mm))



Dual-line display external keyboard (opening size: 119*70mm)

Note: Plastic case below 37KW adopts integrated keyboard, and steel case above 37KW adopts dual line keyboard.

| Name | | Status | Meaning |
|-------------------|-----|-------------|-----------------|
| | Hz | Flashing/on | Frequency unit |
| | А | on | Current unit |
| Unit indicator | V | Flashing/on | Voltage unit |
| indicator | RPM | on | Speed unit |
| | % | Flashing/on | Percentage unit |
| | RUN | on | Forward running |
| Status | RUN | Flashing | Reverse running |
| Indicator | RUN | off | Stop |

Fast disassembly and assembly design of the fan

The innovative design of the fan structure on AC310-series ensures the stability and efficiency of the fan and it can be quickly replaced and cleaned without any external tools.



Open the fan manually



Open the fan easily



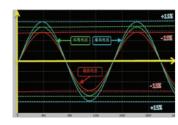
Remove the fan for replacement



Remove the fan cover for cleaning

Wide voltage design

Allowable fluctuation of input voltage within ±15% of the standard rated voltage, so it can be protected from voltage fluctuations to apply to demanding grid environment.



European-style terminals

Standard European-style terminals that meet IEC 60998-2-1; UL 1059; UL 486E specification requirements can ensure safety and reliability and at the same time save wiring time: strip wire → set wire number →lock screws. European-style terminals are used for main circuits on low-power AC310 drives.

European-style terminals to the main circuit during wiring can save at least half of the time cost by other terminals thus greatly improve assembly efficiency for customers.

Stripping →setting wire number→ crimping cable lugs- screw locking



Old-fashioned terminal block

Stripping → Setting wire No. →Screw locking



European terminal

| | AC310 model | Wire diameter (mm) | Wire cross- sectional area S (mm²) | Stripping length I (mm) |
|------------------------------|--------------|-----------------------|--|-------------------------------|
| Main | 0.75kW-2.2kW | 0.25-2.5 | 0.05-5.2 | 7-8 |
| 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 | | | D () S | _ |

EMC function

EMC allows quick connection or disconnection to ground through terminals to effectively avoid EMC interference.



EMC ogrounding

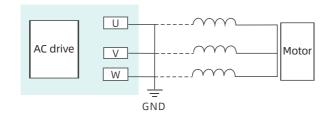
Protection function

All-round protection for the internal and peripheral equipment of the AC drive is achieved by output grounding short circuit protection, internal buffer relay protection, fan drive circuit protection , external 24V DC short circuit protection, motor overload protection and other hardware protection functions.

| System abnor- mality | Input phase loss | Stall protection | Accelerating overcurrent | Output phase lost |
|------------------------------|---------------------------------------|---------------------------|--------------------------|--------------------------------|
| Load protection 1 | Acceler- ating over- voltage | Fault type | Overheat | PID feedback malfunction |
| Running under- voltage | Current detection fault | Excessive speed deviation | Motor overload | Motor detection failure |

New motor grounding short-circuit detection

Short-circuit to ground monitoring is on once the motor is on power, and protection will be activated immediately once short circuit is detected and the drive will be forbidded to start.



Expandability

Superb expansion capability

Multiple expansion interfaces are designed to meet customized needs.

There are two SPI high-speed interfaces on the AC310 control boards , and the control boards will automatically identify the expansion cards and their parameter groups.

Expansion Card

| Expansion card model | Note |
|-----------------------------------|-------------------------------------|
| IO Expansion Card | Optional, high-speed pulse, relay |
| RT card | optional, default software tracking |
| PG | Optional, multi-type encoder |
| RT card | Optional |
| Simple logic board expansion card | Optional |
| GPRS Card | Optional |

IO Expansion Card

| Attribute | Terminal | Description |
|------------------------|--------------------------------|---|
| Input IO | X6/X7/X8/X10 | PLC/COM |
| High-speed pulse input | X10 | 0-100KHz |
| Digital output | Expansion terminal Y2 | DC24V/50mA |
| Relay output | Expansion relay TA2/TB2/TC2 | 3A/240VAC |
| Temperature detection | PK+/PK- | Support PT100/PT1000/KTY84 Motor temperature detection |
| Common port | COM/PLC2 | External common port |
| Switch | S7 | External common port |
| | | |

Logic board expansion

The AC drive replaces the PLC to perform simple logic control. Program development environment of the widely used MELSEC programmable controller is used here, while common and comprehensive function blocks are also integrated here.



Veichi IOT

Intelligent modules with high positioning accuracy, are easy to install.

GPRS and GSM dual-mode communication modes are available with stable operation and reliable performance.

Through the remote monitor-

ing module, real-time online monitoring and remote fault diagnosis can be realized to provide customers with more value-added services.



AC310 GPRS card PC

Communication expansion card







| Communication expansion card model | Note |
|------------------------------------|----------|
| Modbus-RTU | Optional |
| PROFIBUS-DP | Optional |
| CANopen | Optional |
| PROFINET | Optional |
| | |

Model Description AC310-T3-037 G/45 P-B (L) Integrated accessories B: Built-in braking unit Series name ⊙ L: Built-in DC reactor AC310 BL: Built-in braking unit and DC reactor LD: Cabinet units with Voltage level⊙ built-in DC reactors → Drive type Codename Definition Codename Definition G: Heavy load mode S Single phase 2 220V P: Light load mode Three phase 3 380V o Power level 6 660V 2R2: 2. 2kW 004: 4kW

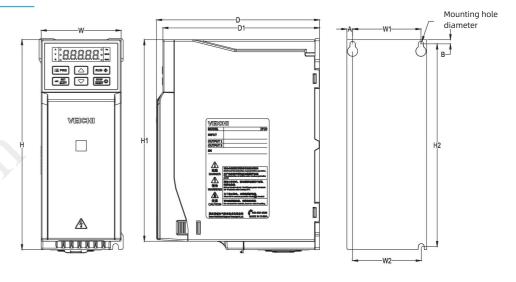
Rated output current

| Voltage | 220V | 380V | 660V |
|-----------------|------|-------|------|
| Power level(kW) | Rate | t (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 | 28 |
| 30 | 110 | 60 | 35 |
| 37 | 130 | 75 | 45 |
| 45 | 160 | 90 | 52 |
| 55 | 200 | 110 | 63 |
| 75 | 260 | 150 | 86 |
| 90 | 320 | 180 | 98 |
| 110 | 380 | 210 | 121 |
| 132 | 420 | 250 | 150 |

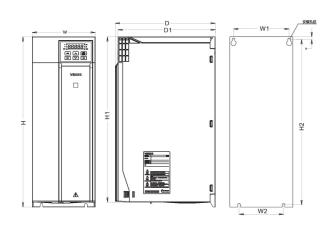
| Voltage | 220V | 380V | 660V | | | | | | |
|-----------------|--------------------------|------|------|--|--|--|--|--|--|
| Power level(kW) | Rated output current (A) | | | | | | | | |
| 160 | 550 | 310 | 175 | | | | | | |
| 185 | 600 | 340 | 198 | | | | | | |
| 200 | 660 | 380 | 218 | | | | | | |
| 220 | 720 | 415 | 235 | | | | | | |
| 250 | | 470 | 270 | | | | | | |
| 280 | | 510 | 330 | | | | | | |
| 315 | | 600 | 345 | | | | | | |
| 355 | | 670 | 380 | | | | | | |
| 400 | | 750 | 430 | | | | | | |
| 450 | | 810 | 466 | | | | | | |
| 500 | | 860 | 540 | | | | | | |
| 560 | | 990 | 600 | | | | | | |
| 630 | | 1200 | 690 | | | | | | |
| 710 | | 1340 | 760 | | | | | | |
| 800 | | 1500 | 860 | | | | | | |
| 900 | | 1600 | 932 | | | | | | |
| 1000 | | 1720 | 1080 | | | | | | |
| 1120 | | 1980 | 1200 | | | | | | |

Installation Dimension Diagram

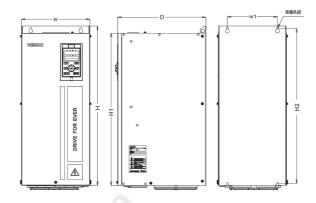
Plastic case model



| Model | Dimension (mm) | | | | | Installation size (mm) | | | | | Installation | |
|----------------------|------------------|---------------|-------|-----------|-----------|--------------------------|------|-------|-------|-----|--------------|--------|
| Model | W | Н | Н1 | D | D1 | W1 | W2 | H2 | А | В | aperture | |
| AC310-T/S2-R75G-B | 76 | 200 | 192 | 155 | 149 | 65 | 65 | 193 | 5.5 | | 3-M4 | |
| AC310-T/S2-1R5G-B | 76 | 200 | 192 | 155 | 149 | 65 | 65 | 193 | 5.5 | 4 | 3-IVI4 | |
| 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 | 251 | 155 | 149 | 04 | 00.3 | 231.3 | 0 | 5.5 | 3-1414 | |
| AC310-T/S2-5R5G-B | 116 | 320 | 307.5 | 175 | 169 | 98 | 100 | 307.5 | 9 | 6 | 3-M5 | |
| AC310-T3-R75G/1R5P-B | | | | | | | | | | | | |
| AC310-T3-1R5G/2R2P-B | 76 | 200 | 192 | 155 | 149 | 65 | 65 | 193 | 5.5 | 4 | 3-M4 | |
| 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 | 242 | 242 231 | 231 133 | 149 | 64 | 80.3 | 231.5 | 0 | 3.3 | 3-1014 |
| AC310-T3-7R5G/011P-B | 116 | 116 320 307.5 | 207.5 | .5 175 | 160 | 98 | 400 | 207.5 | | _ | 3-M5 | |
| AC310-T3-011G/015P-B | 110 | | 307.3 | 173 | 169 | 90 | 100 | 307.5 | 9 | 6 | 3-1013 | |

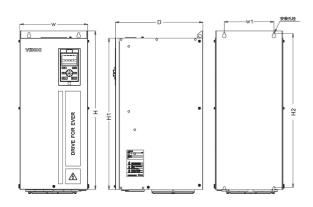


| Model | Dimension (mm) | | | | | Installation size (mm) | | | | Installation |
|----------------------|------------------|-----|-----|-----|------|-----------------------------|-----|-------|-----|--------------|
| riodet | | Н | Н1 | D | D1 | W1 | W2 | H2 | | aperture |
| AC310-T/S2-7R5G-B | | 202 | | 225 | 24.0 | 425 | | | | |
| AC310-T/S2-011G-B | 142 | 383 | 372 | 225 | 219 | 125 | 100 | 372 | 6 | 4-M5 |
| AC310-T/S2-015G | | | | | | | | | | |
| AC310-T2-018G | 172 | 430 | / | 225 | 219 | 150 | 150 | 416.5 | 7.5 | 4-M5 |
| AC310-T2-022G | | | | | | | | | | |
| AC310-T3-015G/018P-B | | | | | | | | | | |
| AC310-T3-018G/022P-B | 142 | 383 | 372 | 225 | 219 | 125 | 100 | 372 | 6 | 4-M5 |
| AC310-T3-022G/030P-B | | | | | | | | | | |
| AC310-T3-030G/037P | 172 | 430 | / | 225 | 219 | 150 | 150 | 416.5 | 7.5 | 4-M5 |
| AC310-T3-037G/045P | 1/2 | 450 | | 225 | 219 | 130 | 150 | 410.5 | 7.5 | 4-IVI5 |



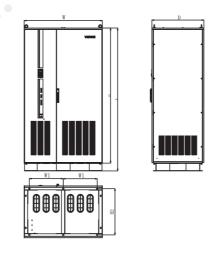
| Model | D | imensio | on (mn | Install size (| | Installation | |
|----------------------|-----|---------|---------|-------------------|-----|--------------|----------|
| Model | | н | H1 | D | W1 | H2 | aperture |
| AC310-T3-315G/355P-L | | | | | | | |
| AC310-T3-355G/400P-L | 400 | 1250 | 1140 | 545 | 240 | 1213 | 4-M16 |
| AC310-T3-400G/450P-L | | | | | | | |
| AC310-T3-450G/500P-L | | | | | | | |
| AC310-T3-500G/560P-L | 460 | 1400 | 1293 | 545 | 300 | 1363 | 4-M16 |
| AC310-T3-560G/630P-L | | | | | | | |
| AC310-T6-315G/355P-L | | | | | | | |
| AC310-T6-355G/400P-L | 400 | 1250 | 1140 | 545 | 240 | 1213 | 4-M16 |
| AC310-T6-400G/450P-L | | | | | | | |
| AC310-T6-450G/500P-L | | | | | | | |
| AC310-T6-500G/560P-L | 460 | 1400 | 1293 | 545 | 300 | 1363 | 4-M16 |
| AC310-T6-560G/630P-L | | | | | | | |

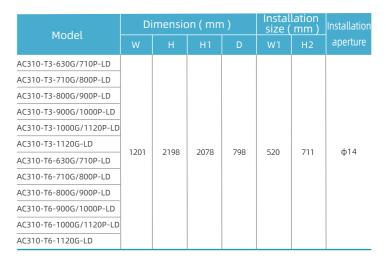
Iron case model



| Model | Di | mensic | on (mm | | lation mm) | Installation | | |
|----------------------|-----|----------|---------|-----|----------------|--------------|----------|--|
| Plouct | W | Н | H1 | D | W1 | H2 | aperture | |
| AC310-T2-030G | | | | | | | | |
| AC310-T2-037G | 240 | 560 | 535 | 310 | 176 | 544 | 4-M6 | |
| AC310-T2-045G | | | | | | | | |
| AC310-T2-055G | 270 | 638 | 580 | 350 | 195 | 615 | 4-M8 | |
| AC310-T3-045G/055P | | | | | | | | |
| AC310-T3-055G/075P | 240 | 560 | 535 | 310 | 176 | 544 | 4-M6 | |
| AC310-T3-075G/090P | | | | | | | | |
| AC310-T3-090G/110P | | | | | | | | |
| AC310-T3-110G/132P | 270 | 638 | 580 | 350 | 195 | 615 | 4-M8 | |
| AC310-T3-132G/160P-L | | 738 | 680 | 405 | 220 | 715 | | |
| AC310-T3-160G/185P-L | 350 | | | | | | 4-M8 | |
| AC310-T3-185G/200P-L | 360 | | | | | | | |
| AC310-T3-200G/220P-L | | 940 | 850 | 480 | 200 | 910 | 4-M16 | |
| AC310-T3-220G/250P-L | | | | | | | | |
| AC310-T3-250G/280P-L | 270 | 1140 | 1050 | 545 | 200 | | | |
| AC310-T3-280G/315P-L | 370 | | | | | 1110 | 4-M16 | |
| AC310-T6-022G/030P | | | | 310 | 176 | 544 | 4-M6 | |
| AC310-T6-030G/037P | | | | | | | | |
| AC310-T6-037G/045P | | | | | | | | |
| AC310-T6-045G/055P | 240 | 560 | 535 | | | | | |
| AC310-T6-055G/075P | | | | | | | | |
| AC310-T6-075G/090P | | | | | | | | |
| AC310-T6-090G/110P | 270 | 620 | 500 | 350 | 195 | 615 | | |
| AC310-T6-110G/132P | 270 | 638 | 580 | | | | 4-M8 | |
| AC310-T6-132G/160P-L | 250 | 720 | 600 | 405 | 220 | 715 | 4 140 | |
| AC310-T6-160G/185P-L | 350 | 350 738 | 680 | | | | 4-M8 | |
| AC310-T6-185G/200P-L | | | | | | | | |
| AC310-T6-200G/220P-L | 360 | 940 | 850 | 480 | 200 | 910 | 4-M16 | |
| AC310-T6-220G/250P-L | | | | | | | | |
| AC310-T6-250G/280P-L | 270 | 1140 | 1050 | F4F | 200 | 1110 | 4 M16 | |
| AC310-T6-280G/315P-L | 370 | 370 1140 | 1050 | 545 | 200 | 1110 | 4-M16 | |

Cabinet model





Accessory List

AC300PG01

AC300RT1

is 0.5

5V and 12V power PG cards available here support the incremental differential output encoder and the open collector output encoder.

Support four different ratios of 0.219,

0.286,0.5,0.58,the factory default ratio



AC300IO1

Four digital inputs(X10 supports 50k pulse input), one digital output, one analog input and one relay



Support temperature detection(PT100,PT1000 and KTY84)

KBD10-15

External LED five-digit display keyboard ,potentiometer speed control



AC300PN card

Support standard profinet



AC300CAN1

CANopen expansion card





AC300DP01

Profibus communication expansion card



KBD300-25

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



AC300-GPRS

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

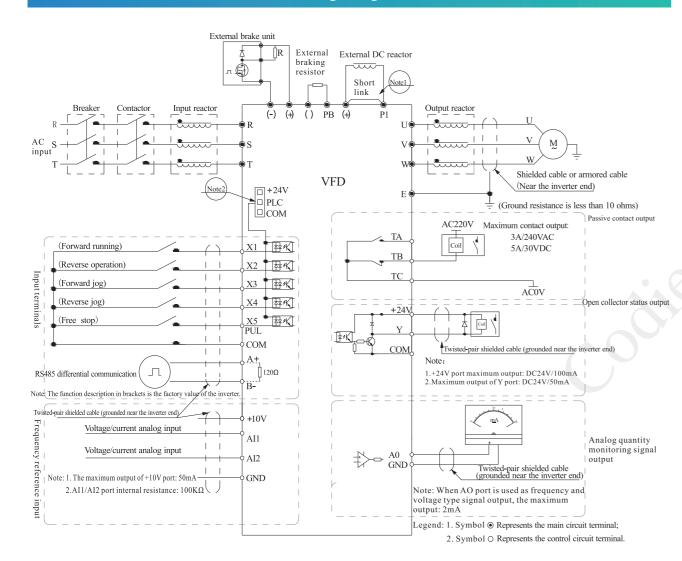


KBD300-L1 LCD keyboard

User-friendly LCD interface



Wiring Diagram



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

2. Choose NPN or PNP transistor signal as input for multi-function input terminals (X1~ X5/PUL), and choose the drive internal power supply (+24V terminal), or the external power supply (PLC terminal) for bias voltage. The factory default "+24V" and "PLC" are shorted, and the position of the shorting tab is placed between RJ45 and the terminal.

Applications



Automated production line



Industrial mining



Machine tool



Municipal environmental protection



Lifting



Oilfield



Wires and cables



Woodworking machinery



Printing and packaging



Chemical industry



Industrial power



Plastics machinery



Textile



Elevator



Ceramics machinery



Food processing

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