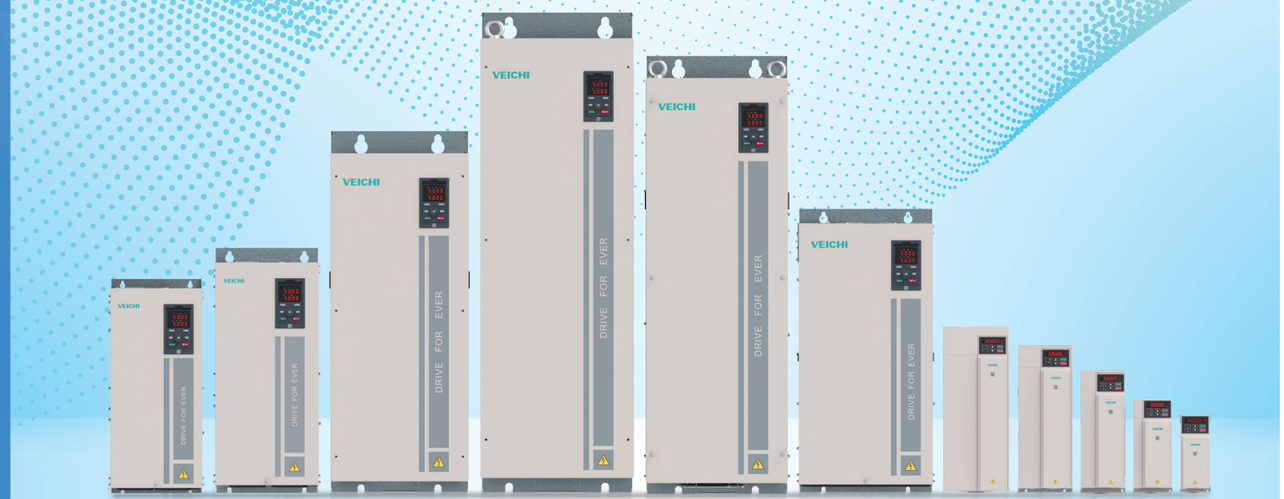
VEICHI

AC310 Series
High-performance Vector AC Drive



VEICHI

Suzhou Veichi Electric Co.,Ltd.

No.1888 Songwei Road, Guoxiang Street, Wuzhong Economic and Technological Development Zone, Suzhou, Jiangsu Province, China.

Tel:+86-512-6617 1988 Fax:+86-512-6617 3610

Facebook: https://www.facebook.com/ veichigroup

WhatsApp:+86-138 2881 8903 Https://www.veichi.com

Official Website

*Version: Y6/2-09

Information in this manual is subject to change without notice.
Copyright © Veichi Electric. All rights reserved. Unauthorized reproduction prohibited.

About Us



Veichi Electric (Stock Code: 688698), a high-tech enterprise specializing in electrical transmission and industrial control, integrates R&D, production, and sales of industrial automation products. With a vision to become a world-class provider of smart industry and green energy solutions, it has three R&D centers in Suzhou, Shenzhen, and Xi'an, three manufacturing bases in Suzhou, Changzhou, and Jiujiang, and wholly-owned subsidiaries overseas. Its business spans multiple countries and regions, continuously delivering competitive, safe, and reliable products and services to global customers.

Under the "One Core, Two New Drivers" strategy, Veichi focuses on industrial automation—AC drives, servo systems, and control systems for heavy and light industries and high-end equipment—supporting manufacturing's digital and intelligent transformation with tailored solutions. In parallel, it pursues two emerging fields: embodied intelligence, offering one-stop solutions for humanoid, collaborative, and mobile robots; and green energy, exploring photovoltaic, energy storage, and hydrogen energy to "connect every device with green power"—fostering synergy between core operations and new ventures.

Sustained R&D has yielded a portfolio of proprietary patented technologies including silicon carbide application, HF injection, motor controls and protections (auto-tuning, flying-start, high-speed flux-weakening, V/F control, vector control), high-density water-cooling layout, and IGBT drive protection. As of June. 30th, 2026, Veichi holds 267 patents, with 75 for invention.

Over two decades of steady growth, Veichi has earned numerous certifications and accolades from national and regulatory authorities, including "High-Tech Enterprise," "Postdoctoral Research Workstation," and provincial honors like "Engineering Technology Research Center," "Enterprise Technology Center," and "Industrial Internet Development Demonstration Enterprise (Benchmark Factory Category)."

Guided by its mission to "Drive Smart Industry, Co-create a Green Future," Veichi will continue to intensify R&D and advance into high-performance, high-reliability fields to propel global progress.

2005
- Start of business in Shenzhen
- First generation of AC drive launched

2013
- First-generation servo system launched
- New energy sector entered to deliver PV water pumping system solutions

2016
- Suzhou VEICHI Phase I put into operation
- First-generation motion control system successfully launched

2020
- Listed on the Science and Technology Innovation Board (STAR Market)
- Recognized as a provincial SRDI "Little Giant" enterprise

2021
- VEICHI-controlled subsidiary established, enhancing industrial chain integration
- Recognized as a SRDI "Little Giant" enterprise

2022
- Xi'an R&D Center established
- VEICHI Digital Energy subsidiary founded, digitalizing the green energy
- Integrated power solutions for humanoid/ collaborative/mobile robots launched, initiating deployment in the robotics sector

2023
- Suzhou VEICHI Phase II put into operation
- VEICHI Medical Equipment subsidiary established, expanding into the healthcare sector

2024
- Strategic acquisition of Changzhou Jiteng, entering the port and marine sector
- Honored with multiple Provincial Science and Technology Progress Awards

2025
- Suzhou VEICHI Phase III digital production base put into operation
- "One Core, Two New Drivers" development strategy adopted
- Shenzhen & Xi'an R&D centers relocated and upgraded

2026
- Changzhou digital production base put into operation
- Jiujiang smart production base topped out

AC310 Series High-Performance AC Drive

Building on the proven AC300-series platform, the AC310-series drives elevate performance with next-generation enhancements. Featuring advanced magnetic field-oriented vector control technology, they deliver precise control for both asynchronous and synchronous motors, supporting multiple control modes including voltage-frequency split.

The optimized component layout retains the compact, book-style design while improving thermal performance and usability. With multiple extension ports and accessories, these drives offer exceptional power density, reliability, and application flexibility - simplifying selection and integration for diverse industrial needs.



Simple outside while fine inside

- Industry-leading vector technology AM/PM compatibility
- Integration of multi-industry applications and optimized selection



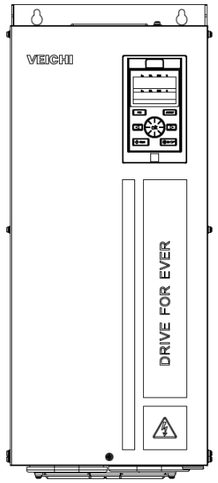
Complexity simplified

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

Slimmer form with aesthetic design

- 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 smaller cabinets

Product Features



Features

01 High-performance vector universal platform,new motor control algorithm

02 Synchronous and asynchronous motor control integrated, open loop and closed loop supported

03 Precise torque excitation decoupling, excellent dynamic response performance

04 Booklet design for full series to minimize installation space

05 Safe and reliable new air duct design of DC fan cooling for full series

06 Comprehensive thermal simulation for rational hardware layout

07 Innovative grounding method for AC310 series to quickly solve electromagnetic interference

08 Modular design of software and hardware for powerful extension capability

09 Overall three-profings for the product and tri-proof paint on PCBA for stable and reliable operation

10 Comprehensive expansion ports and accessories for all sorts of applications

11 Optimized external keypad design

12 Simpler on-site debugging methods for field firmware upgrade

General specification

Power level	Single phase 220V 50/60Hz	0.75kW~15kW
	Three phase 220V 50/60Hz	0.75kW~55kW
	Three phase 380V 50/60Hz	0.75kW~1000kW
	Three phase 660V 50/60Hz	22kW~1000kW
Input	Allowable voltage fluctuation	T/S2：-10%~10%；T3：-15%~10%；T6：-10%~10%；Voltage imbalance rate<3%
	Allowable frequency fluctuation	±5%
	Distortion rate	IEC61800-2
Output	Output voltage	0~Input voltage,deviation ＜5%
	Output frequency range	0Hz~599Hz
	Overload capacity	T3/T6 G：150% rated current for 89s，180% rated current for 10s，200% rated current for 3s
		P：120% rated current for 35s，140% rated current for 7s，150% rated current for 3s
		T/S2：136% rated current for 90s，163% rated current for 10s，180% rated current for 3s

Performance

Multiple types of motors/loads

Built for versatility, the AC310 series drive handles: standard three-phase induction motors，inverter-duty motors，AC servo motors，PM synchronous motors，high-speed synchronous motors，spindle motors，torque motors，linear motors, and more.



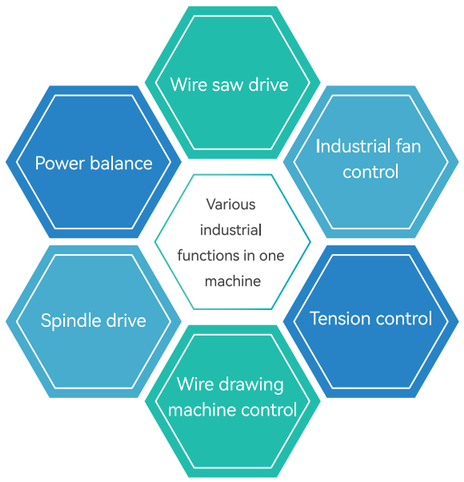
Control mode

Control Mode	Speed Control	Torque Control	Position Control	Applicable Motor
V/F mode	●			Asynchronous motor
V/F separation	●			Torque motor, EPS power supply, series resonance
SVC	●	●		Asynchronous/permanent magnet synchronous motor
FVC	●	●	●	Asynchronous/permanent magnet synchronous/synchronous reluctance motor

Excellent control performance

Control Mode	Speed Control Range	Starting Torque	Applicable Motor
SVC	1:200	150%	Permanent magnet synchronous motor
SVC	1:100	150%	Asynchronous motor
FVC	1:1000	200%	Asynchronous/permanent magnet synchronous motor

Abundant industrial applications



Voltage frequency split

The AC310 series delivers exceptional torque motor control with stable EPS power supply regulation, ensuring precise steady-state performance. Specifically engineered for demanding power applications, it serves as the ideal solution for high-voltage insulation test equipment.



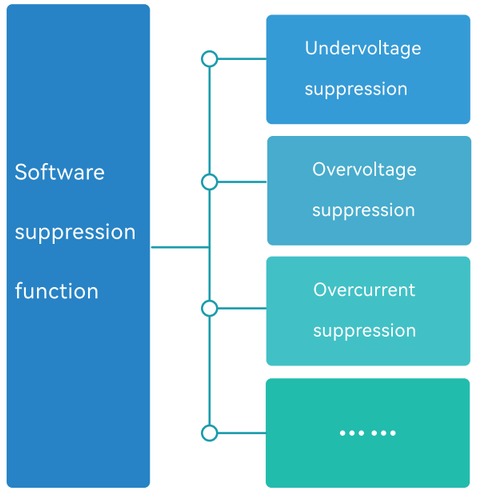
Active response to industry 4.0

As intelligent production systems evolve toward centralized control architectures, the AC310 series delivers universal connectivity to streamline system integration. The drives feature:

- Native interoperability with major DCS and PLC systems
- Direct HMI communication across multiple protocols
- Standard MODBUS-RTU interface
- Optional fieldbus modules (PROFIBUS-DP/CANOPEN/PROFINET)

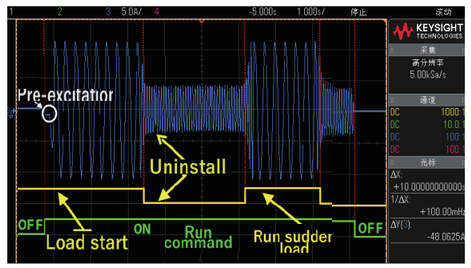


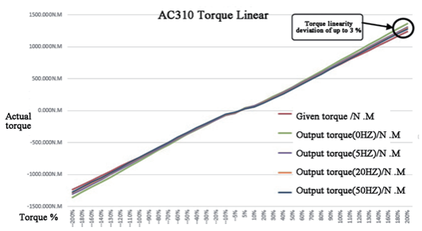
Software suppression function



High starting torque characteristics

- 200% torque at 0Hz – Industry-leading low-frequency performance for demanding applications
- 0.01Hz stable operation – Ensures smooth starts and precise control under full load conditions
- Precision torque control – Maintains ±3% linearity for ultra-stable operation
- Consistent output performance – Ensures equipment reliability in demanding applications



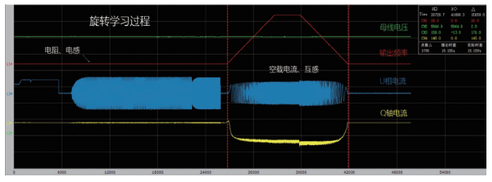


Motor parameter auto-tuning

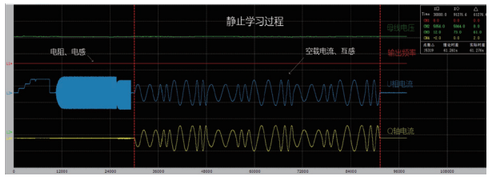
- Smart auto-tuning – Accurate parameter identification whether running or stationary
- Simplified commissioning – Maintains peak control accuracy and dynamic response with minimal setup

Dynamic auto-tuning — Load disconnected during tuning
For occasions with high control accuracy requirements

Static auto-tuning — Tuning performed when motor is still



Rotary self-tuning

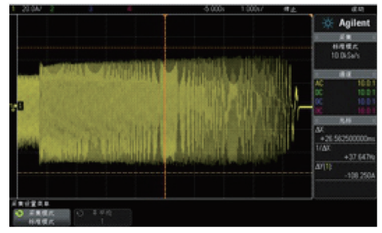


Static self-tuning

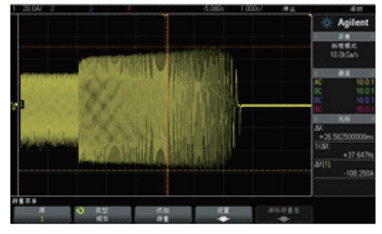
Overexcitation braking function

The AC drive's innovative overexcitation braking function delivers rapid deceleration without requiring external braking resistors. This intelligent system:

- Achieves instant stopping during partial inertia conditions
- Eliminates bus voltage spikes during deceleration
- Prevents overvoltage faults through active voltage control
- Enables power-loss emergency stopping for safety compliance



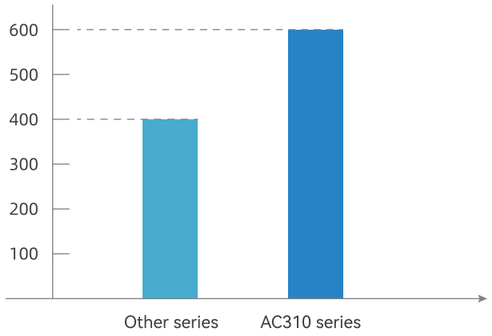
Overexcitation braking function is invalid



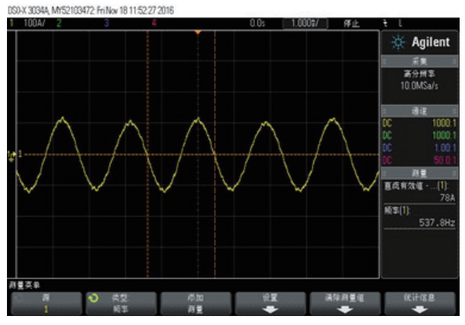
Overexcitation braking function is effective

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.



- Others: Vector control max. output freq 320/400Hz.
- AC310: Vector control max. output freq 600Hz.

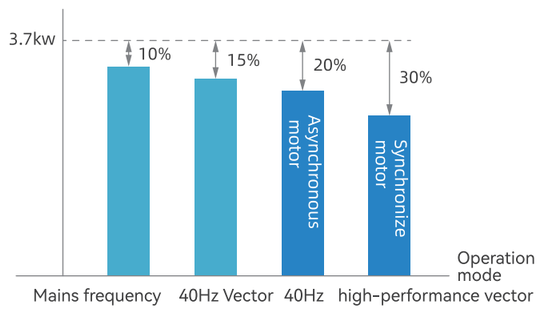


current waveform under 12-fold weak magnetic field

High energy saving

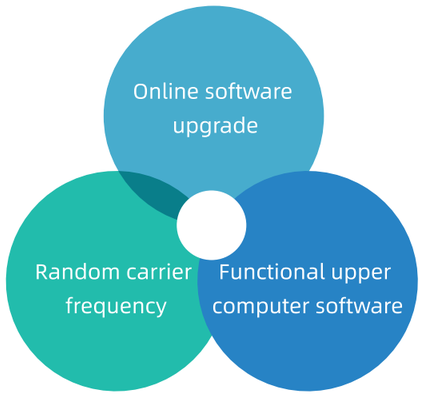
Our advanced energy-saving algorithm dynamically optimizes motor performance by:

- Intelligently adjusting excitation current based on real-time load demands
- Reducing energy losses by up to 30% compared to standard drives
- Maintaining optimal efficiency across all operating conditions



Fan energy saving comparison chart

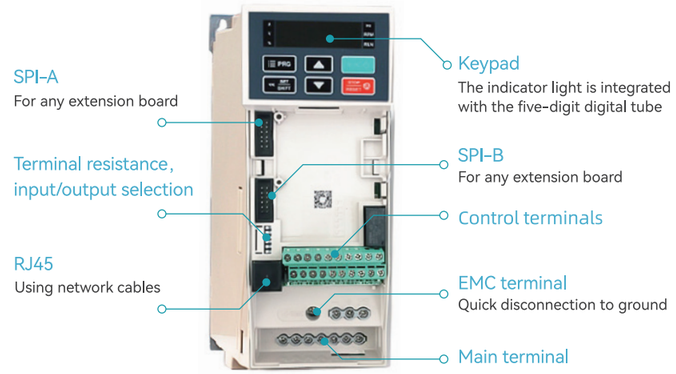
Other software functions



Structural Hardware Characteristics

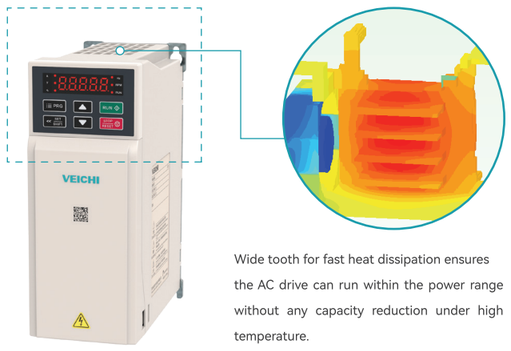
Concise internal layout and convenient wiring

- Slim-profile housing - Packed with full-featured connectivity
- User-friendly layout - Organized terminals for straightforward wiring



New structure design

Electronics isolated from heat sink air duct
Capacitors, MOSFETs, relays with enhanced protection
Both sides sealed for higher environmental resistance



Wide tooth for fast heat dissipation ensures the AC drive can run within the power range without any capacity reduction under high temperature.

Number of standard terminals

No.	Unit Circuit	Quantity	Remarks
1	X terminal	5	Bidirectional input
2	Y terminal	1	Open collector output
3	Relay output	1	NC/NO
4	10V power output	1	50mA
	24V power output	1	100mA
5	Voltage/current analog input	2	Free V/A switching
6	Analog output (optional)	1	0V~10V
			0mA~20mA
			0kHz~100kHz pulse output
7	RS485	1	ModBus-RTU
8	Low speed pulse input	1	X5 0kHz~5kHz pulse input

New book-like housing

Dubbed the "book-sized drive" for 60% space savings with its innovative narrow-body design.

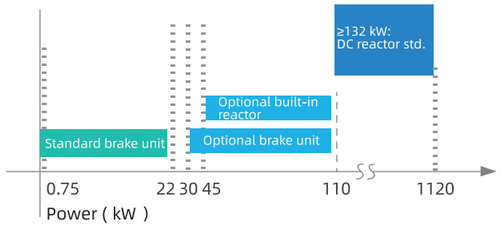


Optimized structure design

Reduced cabinet space, installation footprint and costs.



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

Port characteristics selection via DIP switch

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

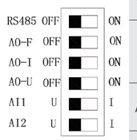


Diagram	Tag	Function	Specification
	RS485	485 terminal resistance	120Ω
	AO-F	Analog frequency output	0.0kHz~100kHz
	AO-I	Analog current output	0mA~20mA or 4mA~20mA
	AO-U	Analog voltage output	0V~10V
	AI1	Analog current/ voltage input1	0mA~20mA/4mA~20mA or 0V~10V
	AI2	Analog current/ voltage input2	0mA~20mA/4mA~20mA or 0V~10V

Keypad operation

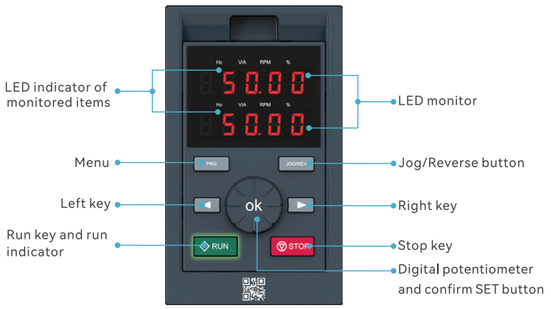
The newly engineered high-sensitivity keypad delivers exceptional tactile response and operational precision. Featuring dual-display capability, the system supports simultaneous use of built-in and external keypads - switching via parameter selection.



Integrated keypad

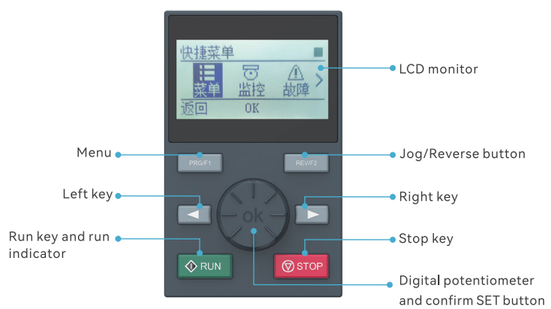


Single-line display external keypad
(opening size: 61*36mm))



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

Note: Single-line keypad for plastic models 37kW and below, dual-line keypad for iron models 37kW and above.



LCD keypad
(opening size: 119*70mm)

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

Tool-free fan replacement

Innovative design for fast, tool-free fan replacement and cleaning—without compromising stability or efficiency.



Find the clip on the fan.



Open the fan cover.



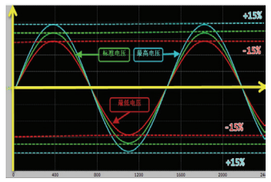
Put the fan back.



Remove the fan for replacement or cleaning.

Wide voltage design

±15% voltage tolerance and protection systems for stable performance in unstable grids.



European-style terminals

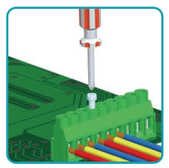
Safe & Reliable
European-style terminals comply with IEC 60998-2-1, UL 1059, and UL 486E standards, ensuring secure electrical connections.
Quick Wiring
Simple 3-step installation: strip → label → tighten. Fast and hassle-free.
Time-Saving
When used in low-power AC310 drive main circuits, they cut wiring time by 50% versus standard terminals, boosting assembly efficiency.

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

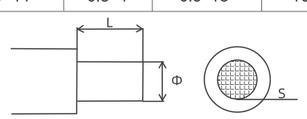


Old-fashioned terminal block

Stripping → Setting wire No. →Screw locking



European terminal

Model	Power(kW)	Dia. (mm)	Area S (mm^2)	Strip L (mm)
Main circuit terminal	0.75~2.2	0.25-2.5	0.05-5.2	7-8
	4.0~5	0.5-2.5	0.2-5.2	6-7
	7.5~11	0.8-4	0.5-13	10-11
Wire stripping diagram				

EMC function

Fast grounding via terminals for effective interference suppression.



EMC grounding

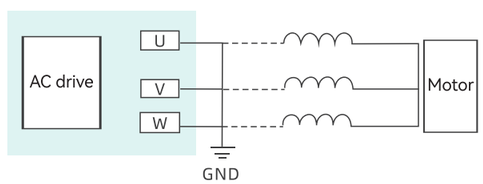
Protection function

The AC drive ensures full protection for internal and peripheral equipment through multiple safeguards, including:

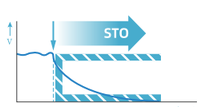
Sys Fault	Input Phase Loss	Overspeed	Accel OC	Output Phase Loss
Load Prot. 1	Accel OV	Fault type	Overheat	PID Fault
Run UV	CT Fault	Follow Fault	Motor OL	Motor Fault

New motor grounding short-circuit detection

- Real-time ground fault monitoring - Active protection from power-on with instant fault response
- Automatic startup prevention - Immediately blocks operation upon short-circuit detection



STO



Certain advanced models feature the optional STO function.

Expandability

Superb expansion capability

Smart expansion made simple - Dual SPI interfaces with auto-detection for plug-and-play customization
Future-ready design - Expandable architecture adapts to your evolving application needs.

Function Extension

Model	Note
IO	Optional, high-speed pulse, relay
Speed tracking card	optional, default software tracking
PG	Optional, multi-type encoder
RT	Optional
Simple logic board	Optional
GPRS	Optional

IO Extension

Attribute	Terminal	Description
Input IO	X6/X7/X8/X10	PLC/COM
High-speed pulse input	X10	0-100KHz
Digital output	Y2	DC24V/50mA
Relay output	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 extension

- PLC-Free Control Solution - AC drive integrates basic PLC functionality.
- Familiar Programming Environment-Mitsubishi MELSEC-compatible development interface with preloaded function blocks .



Veichi IOT

Precision & Easy Deployment
High-accuracy intelligent modules with tool-free installation.

Dual-Mode Connectivity
Reliable GPRS/GSM communication for uninterrupted operation.

Smart Remote Services
Real-time monitoring and remote diagnostics for predictive maintenance.



Communication extension

Model	Note
Modbus-RTU	Optional
PROFIBUS-DP	Optional
CANopen	Optional
PROFINET	Optional
.....	

Model Description

AC310-T3-037G/045P-B-L-I

Series name
AC310

Voltage level
T/S2: Three/single phase 220V
T2: Three phase 380V
T3: Three phase 380V
T6: Three phase 660V

Drive type
037G: 37kW Heavy-duty
045P: 45kW Light-duty

Built-in accessories
I: Built-in STO function
T/S2: 0.75kW~4kW
T3: 0.75kW~560kW
E: Built-in EMC filter (C3);
not compatible with I model.

Integrated options
B: Built-in braking unit
T3: 0.75kW~110kW
T/S2: 0.75kW~11kW
L: Built-in DC reactor
T3/T6: ≥45kW
T2: 30kW~250kW
D: Cabinet type
T3/T6: ≥630kW (parallel units)

Rated output current

Model	Input Voltage (V)	Input Current (A)	Output Power (kW)	Output Current (A)
AC310-T/S2-R75G-B	AC200~240	S2:10 T2:5.8	0.75	4
AC310-T/S2-1R5G-B	AC200~240	S2:17 T2:9.8	1.5	7
AC310-T/S2-2R2G-B	AC200~240	S2:23.5 T2:13.6	2.2	10
AC310-T/S2-004G-B	AC200~240	S2:37.1 T2:21.4	4	16
AC310-T/S2-5R5G-B	AC200~240	S:45.3 T:26.1	5.5	20
AC310-T/S2-7R5G-B	AC200~240	S:67 T2:38.7	7.5	30
AC310-T/S2-011G-B	AC200~240	S:92.5 T2:53.4	11	42
AC310-T/S2-015G-B	AC200~240	S2:119 T2:69	15	55
AC310-T2-018G	AC200~240	81.2	18	70
AC310-T2-022G	AC200~240	92.8	22	80
AC310-T2-030G	AC200~240	126	30	110
AC310-T2-037G	AC200~240	149	37	130
AC310-T2-045G	AC200~240	184	45	160
AC310-T2-055G	AC200~240	230	55	200

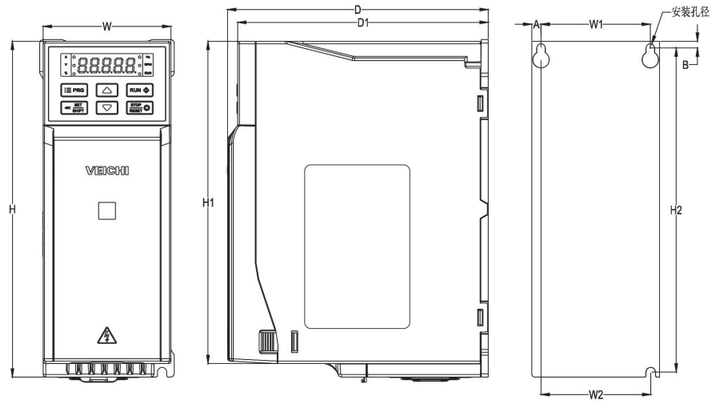
Model	Input Voltage (V)	Input Current (A)	Output Power (kW)	Output Current (A)
AC310-T3-R75G/1R5G-B	AC380~480	4.3	0.75	3
AC310-T3-1R5G/2R2G-B	AC380~480	5.5	1.5	4
AC310-T3-2R2G-B	AC380~480	8.1	2.2	6
AC310-T3-004G/5R5P-B	AC380~480	13.3	4	10
AC310-T3-5R5G/7R5P-B	AC380~480	17.2	5.5	13
AC310-T3-7R5G/011P-B	AC380~480	22.2	7.5	17
AC310-T3-011G/015P-B	AC380~480	32.2	11	25
AC310-T3-015G/018P-B	AC380~480	40.7	15	32
AC310-T3-018G/022P-B	AC380~480	47.6	18	38
AC310-T3-022G/030P-B	AC380~480	55.7	22	45
AC310-T3-030G/037P	AC380~480	69.6	30	60
AC310-T3-037G/045P	AC380~480	87	37	75
AC310-T3-045G/055P	AC380~480	104	45	90
AC310-T3-045G/055P-L	AC380~480	90.8	45	90
AC310-T3-055G/075P	AC380~480	126	55	110
AC310-T3-055G/075P-L	AC380~480	110	55	110
AC310-T3-075G/090P	AC380~480	172	75	150
AC310-T3-075G/090P-L	AC380~480	150	75	150
AC310-T3-090G/110P	AC380~480	207	90	180
AC310-T3-090G/110P-L	AC380~480	180	90	180
AC310-T3-110G/132P	AC380~480	241	110	210
AC310-T3-110G/132P-L	AC380~480	210	110	210

Model	Input Voltage (V)	Input Current (A)	Output Power (kW)	Output Current (A)
AC310-T3-132G/160P-L	AC380~480	250	132	250
AC310-T3-160G/185P-L	AC380~480	309	160	310
AC310-T3-185G/200P-L	AC380~480	339	185	340
AC310-T3-200G/220P-L	AC380~480	379	200	380
AC310-T3-220G/250P-L	AC380~480	414	220	415
AC310-T3-250G/280P-L	AC380~480	469	250	470
AC310-T3-280G/315P-L	AC380~480	509	280	510
AC310-T3-315G/355P-L	AC380~480	599	315	600
AC310-T3-355G/400P-L	AC380~480	669	355	670
AC310-T3-400G/450P-L	AC380~480	749	400	750
AC310-T3-450G/500P-L	AC380~480	799	450	800
AC310-T3-500G/560P-L	AC380~480	858	500	860
AC310-T3-560G/630P-L	AC380~480	988	560	990
AC310-T3-630G/710P-LD	AC380~480	1198	630	1200
AC310-T3-710G/800P-LD	AC380~480	1338	710	1340
AC310-T3-800G/900P-LD	AC380~480	1498	800	1500
AC310-T3-900G/1000P-LD	AC380~480	1598	900	1600
AC310-T3-1000G/1120P-LD	AC380~480	1716	1000	1720
AC310-T6-022G/030P	AC660	37.8	22	28
AC310-T6-030G/037P	AC660	47.6	30	35
AC310-T6-037G/045P	AC660	60	37	45
AC310-T6-045G/055P	AC660	68.9	45	52
AC310-T6-045G/055P-L	AC660	52	45	52
AC310-T6-055G/075P	AC660	82	55	63
AC310-T6-055G/075P-L	AC660	62.5	55	63

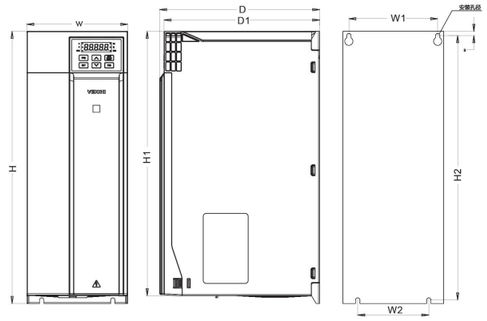
Model	Input Voltage (V)	Input Current (A)	Output Power (kW)	Output Current (A)
AC310-T6-075G/090P	AC660	111	75	86
AC310-T6-075G/090P-L	AC660	85.2	75	86
AC310-T6-090G/110P	AC660	124	90	98
AC310-T6-090G/110P-L	AC660	96.9	90	98
AC310-T6-110G/132P	AC660	152	110	121
AC310-T6-110G/132P-L	AC660	119	110	121
AC310-T6-132G/160P-L	AC660	149	132	150
AC310-T6-160G/185P-L	AC660	172	160	175
AC310-T6-185G/200P-L	AC660	195	185	198
AC310-T6-200G/220P-L	AC660	215	200	218
AC310-T6-220G/250P-L	AC660	231	220	235
AC310-T6-250G/280P-L	AC660	267	250	270
AC310-T6-280G/315P-L	AC660	326	280	330
AC310-T6-315G/355P-L	AC660	341	315	345
AC310-T6-355G/400P-L	AC660	374	355	380
AC310-T6-400G/450P-L	AC660	422	400	430
AC310-T6-450G/500P-L	AC660	460	450	466
AC310-T6-500G/560P-L	AC660	531	500	540
AC310-T6-560G/630P-L	AC660	587	560	600
AC310-T6-630G/710P-LD	AC660	681	630	690
AC310-T6-710G/800P-LD	AC660	748	710	760
AC310-T6-800G/900P-LD	AC660	844	800	860
AC310-T6-900G/1000P-LD	AC660	920	900	932
AC310-T6-1000G/1120P-LD	AC660	1062	1000	1080

Installation Dimension Diagram

Plastic case model

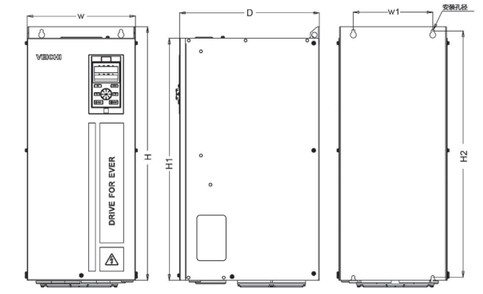


Model	Outer Dimension (mm)					Installation Dimension(mm)					Installation aperture
	W	H	H1	D	D1	W1	W2	H2	A	B	
AC310-T/S2-R75G-*	76	200	192	155	149	65	65	193	5.5	4	3-M4
AC310-T/S2-1R5G-*											
AC310-T3-R75G/1R5P-*											
AC310-T3-1R5G/2R2P-*											
AC310-T3-2R2G-*											
AC310-T/S2-2R2G-*	100	242	231	155	149	84	86.5	231.5	8	5.5	3-M4
AC310-T/S2-004G-*											
AC310-T3-004G/5R5P-*											
AC310-T3-5R5G/7R5P-*											
AC310-T/S2-5R5G-*	116	320	307.5	175	169	98	100	307.5	9	6	3-M4
AC310-T3-7R5G/011P-*											
AC310-T3-011G/015P-*											

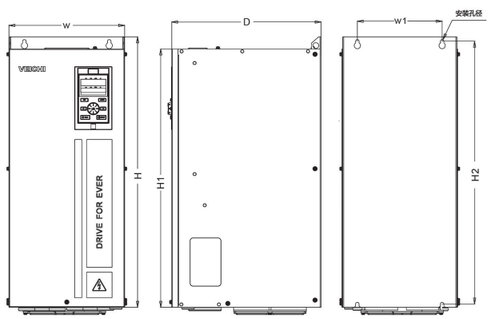


Model	Outer Dimension (mm)				Installation Dimension(mm)		Installation aperture
	W	H	H1	D	W1	H2	
AC310-T/S2-7R5G-*	142	383	372	225	125	372	4-M5
AC310-T/S2-011G-*							
AC310-T3-015G/018P-*							
AC310-T3-018G/022P-*							
AC310-T3-022G/030P-*							
AC310-T/S2-015G-*	172	430	/	225	150	416.5	4-M5
AC310-T2-018G-*							
AC310-T2-022G-*							
AC310-T3-030G/037P-*							
AC310-T3-037G/045P-*							

Iron case model

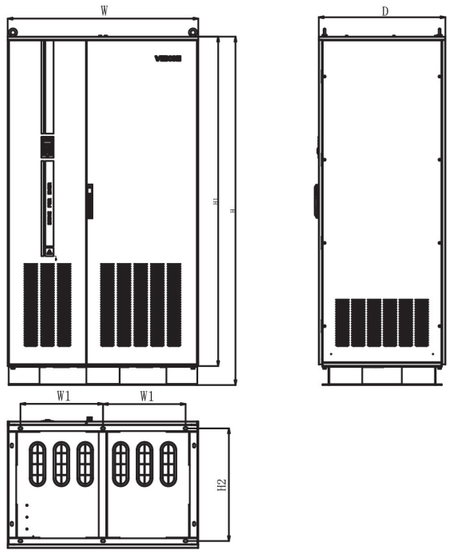


Model	Outer Dimension (mm)				Installation Dimension(mm)		Installation aperture
	W	H	H1	D	W1	H2	
AC310-T2-030G-*	240	560	535	310	176	544	4-M6
AC310-T2-037G-*							
AC310-T2-045G-*							
AC310-T3-045G/055P-*							
AC310-T3-055G/075P-*							
AC310-T3-075G/090P-*							
AC310-T6-022G/030P-*							
AC310-T6-030G/037P-*							
AC310-T6-037G/045P-*							
AC310-T6-045G/055P-*							
AC310-T6-055G/075P-*							
AC310-T6-075G/090P-*							
AC310-T2-055G-*	270	638	580	350	195	615	4-M8
AC310-T3-090G/110P-*							
AC310-T3-110G/132P-*							
AC310-T6-090G/110P-*							
AC310-T6-110G/132P-*							
AC310-T3-132G/160P-*	350	738	680	405	220	715	4-M8
AC310-T3-160G/185P-*							
AC310-T6-132G/160P-*							
AC310-T6-160G/185P-*							
AC310-T3-185G/200P-*	360	940	850	480	200	910	4-M16
AC310-T3-200G/220P-*							
AC310-T3-220G/250P-*							
AC310-T6-185G/200P-*							
AC310-T6-200G/220P-*							
AC310-T6-220G/250P-*							
AC310-T3-250G/280P-*	370	1140	1050	545	200	1110	4-M16
AC310-T3-280G/315P-*							
AC310-T6-250G/280P-*							
AC310-T6-280G/315P-*							



Model	Outer Dimension (mm)				Installation Dimension(mm)		Installation aperture
	W	H	H1	D	W1	H2	
AC310-T3-315G/355P-*	400	1250	1140	545	240	1213	4-M16
AC310-T3-355G/400P-*							
AC310-T3-400G/450P-*							
AC310-T6-315G/355P-*							
AC310-T6-355G/400P-*							
AC310-T6-400G/450P-*							
AC310-T3-450G/500P-*	460	1400	1293	545	300	1363	4-M16
AC310-T3-500G/560P-*							
AC310-T3-560G/630P-*							
AC310-T6-450G/500P-*							
AC310-T6-500G/560P-*							
AC310-T6-560G/630P-*							

Cabinet model

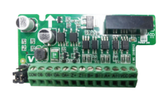


Model	Outer Dimension (mm)				Installation Dimension(mm)		Installation aperture
	W	H	H1	D	W1	H2	
AC310-T3-630G/710P-*	1201	2198	2078	798	520	711	ϕ14
AC310-T3-710G/800P-*							
AC310-T3-800G/900P-*							
AC310-T3-900G/1000P-*							
AC310-T3-1000G/1120P-*							
AC310-T6-630G/710P-*							
AC310-T6-710G/800P-*							
AC310-T6-800G/900P-*							
AC310-T6-900G/1000P-*							
AC310-T6-1000G/1120P-*							

Accessory List

AC300PG01

5V/12V power PG card for the incremental differential encoder and the open collector encoder



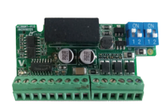
AC300PN2

For standard Profinet communication



AC300RT1

Four different ratios of 0.219, 0.286, 0.5 (by default) and 0.58



AC300IO1

4 × DI (50kHz at X10)
1 × DO + 1 × AI
1 × RO



AC300CAN1

For CANopen communication



KBD10-15

External LED keypad with potentiometer



AC300DP01

For Profibus communication



KBD300-25

Dual-line external keypad with silicone buttons and digital potentiometer



AC310EC1

For EtherCAT communication with Beckhoff, Omron hosts, etc.



KBD300-L1

User-friendly LCD interface



IOT-BMC410-AC300

For 4G wireless communication (device location, maintenance, real-time monitoring, data acquisition. etc.)



AC300TCP1

For Modbus-TCP communication

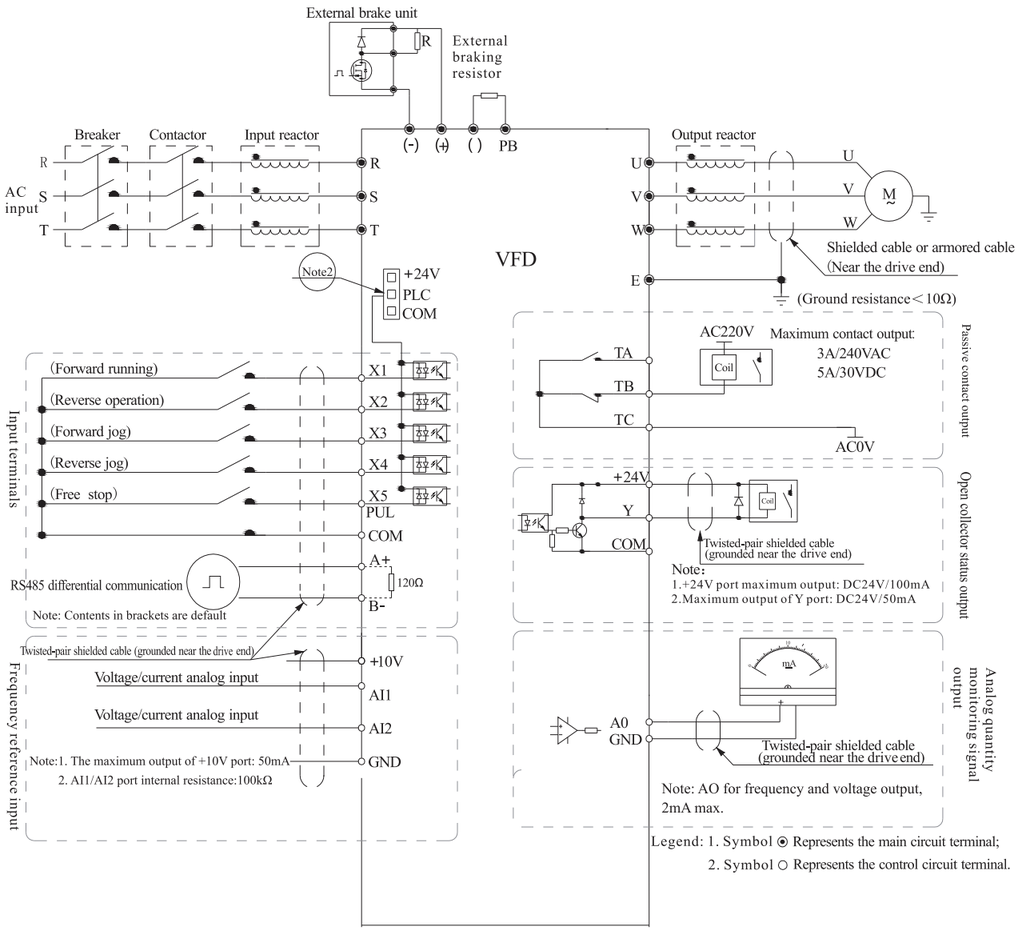


AC300EIP1

For EtherNet/IP communication

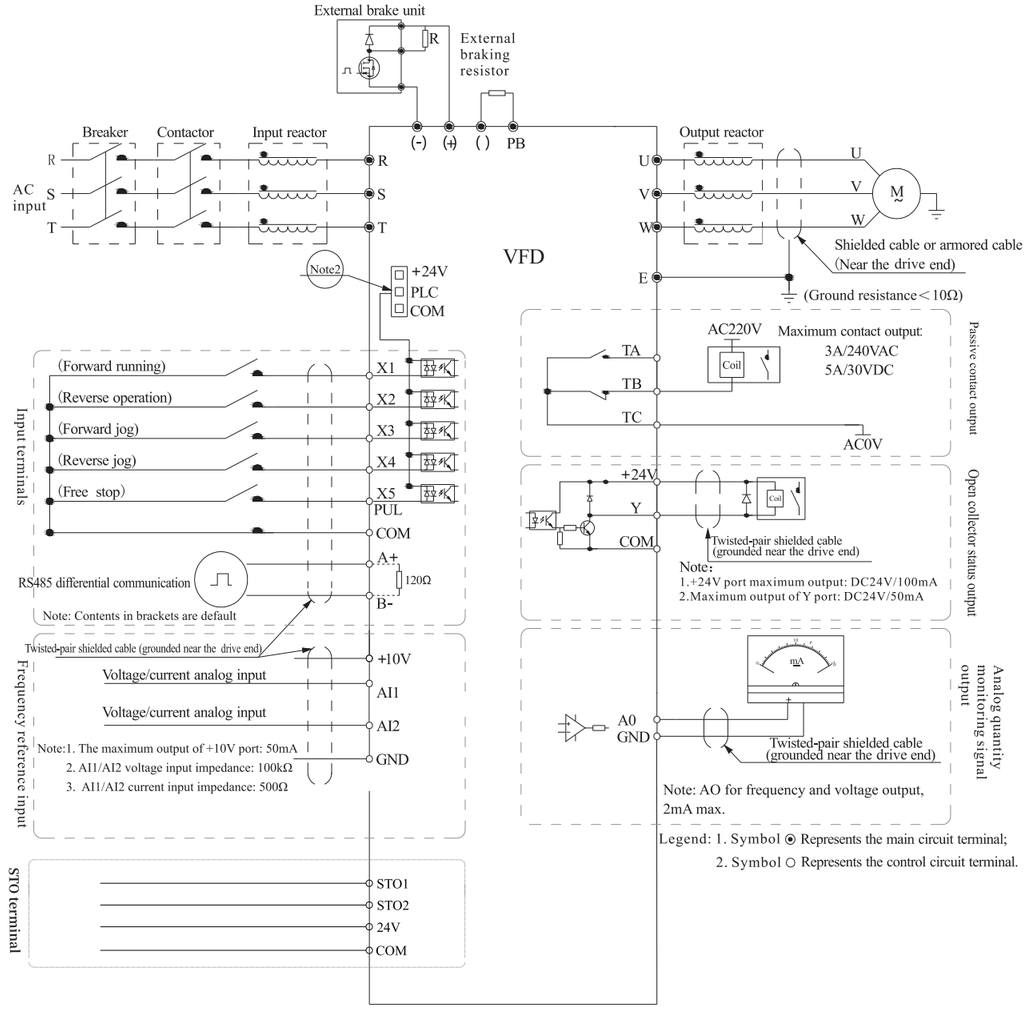


Wiring Diagram



Notes:

1. The multifunction input terminals (X1~X5/PUL) support NPN and PNP transistor signals. The input power can be supplied from the drive's internal +24V terminal or an external supply connected to the PLC terminal. By default, the +24V and PLC terminals are connected by a jumper located between R45 and the terminal block.
2. The analog monitor output is for display instruments only, such as frequency meters, ammeters, and voltmeters. It must not be used for feedback or control purposes.
3. Various pulse signal types may be used. Refer to the detailed descriptions for wiring methods.



Notes:

1. Multifunction input terminals (X1~X5/PUL) support NPN and PNP transistor signals. Input power can come from the drive's internal +24V terminal or an external supply connected to the PLC terminal. By default, a jumper between R45 and the terminal block connects the +24V and PLC terminals.
2. The analog monitor output is for display instruments only, such as frequency meters, ammeters and voltmeters. It must not be used for feedback or control.
3. Various pulse signal types may be used. See the detailed descriptions for wiring methods.

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

Service and Support

VEICHI Electric has established an integrated global service network through its innovative "Region + Industry" marketing strategy, which synergizes cross-sector resources and distribution channels to deliver comprehensive solutions. With permanent business and technical support teams strategically located across 23 major Chinese cities and overseas operations including Indian subsidiaries, the company is supported by an extensive network of 364 domestic and international distributors that ensure seamless market coverage. By consistently delivering superior product quality backed by professional technical support and service excellence, VEICHI Electric continues to enhance its global brand reputation while driving sustainable international growth through reliable, customer-centric solutions.



