

YC1610 High-Performance Vector Frequency Converter



Dual digital displays, customizable to meet diverse customer requirements.

Product Name and Illustration

YC1610 High-Performance Vector Frequency Converter

Dual Display



Product Introduction:

High performance Vector Type frequency converter, dual display, high price compared to modular machines, rich functions, suitable for various scene needs, beautiful and elegant appearance; **E**xcellent heat dissipation performance, smaller size, and more reasonable structural design;

Adopting Vector Control, VF Control, and Permanent Magnet Synchronous Motor Control to achieve precise speed regulation, high efficiency, energy saving, and stable operation; **F**lexible and versatile configuration, supporting customization to meet different customer needs.

Technical Parameter:

The personal function	Excellent functionality	Motor control achieved through high-performance current vector control technology
	Instantly stop without stopping	Maintains inverter operation during momentary power outages by utilizing load feedback energy to compensate for voltage drops
	Timing control	Timer Control Function: Time range setting 0.0Min~3200.0Min
	Communication bus support	R S - 4 8 5 (MODBUS)
	Protection function	Power-on motor short-circuit detection , Input/output phase-loss protection , Overcurrent protection , Overvoltage protection , Undervoltage protection , Overtemperature protection , Overload protection, etc
	Automatic Voltage Regulation(AVR)	Maintains constant output voltage automatically during grid voltage variations

Related parameters:

Name	Date
Input Voltage	Single-phase power supply: 220V , 1.1KW-15KW Three-phase power supply: 220V-480V , 0.75KW-55KW
Rated voltage	1 ~ 380V
Motor rated power	0.1 ~ 1000KW
Control mode	Open-Loop Vector Control (SVC); V/F Control
Maximum frequency	Vector Control: 0-300Hz V/F Control: 0-3000Hz
Carrier Frequency	0.75kHz~15kHz (Maximum carrier frequency depends on the model) Automatically adjusts the carrier frequency based on load characteristics.
Overload capacity	G-Type Unit: 150% rated current for 60s; 180% rated current for 3s P-Type Unit: 120% rated current for 60s; 150% rated current for 3s

For more detailed parameters, please refer to the <Product Manual>,
please refer to <2.3 Technical Specifications> on page X of the Product Manual.

Application scope:

- Metal processing, CNC machine tools, wire drawing machines , etc.
- Food machinery.
- Boiler systems: Forced-draft fans, induced-draft fans, underground exhaust fans for coal mines.
- Municipal engineering: Central air-conditioning energy-saving retrofits
- Fan systems: Counter-rotating fans, centrifugal fans, etc.
- Pump systems: Circulating pumps, booster pumps, oilfield injection pumps, crude oil transfer pumps, musical fountains
- Industrial applications: Paper manufacturing equipment, chemical industry, pharmaceutical industry, textile industry, etc.