

YC5000 Heavy-Duty Universal Frequency



Delivers low-speed high-torque output with excellent dynamic response and superior overload capacity

Product Name and Image

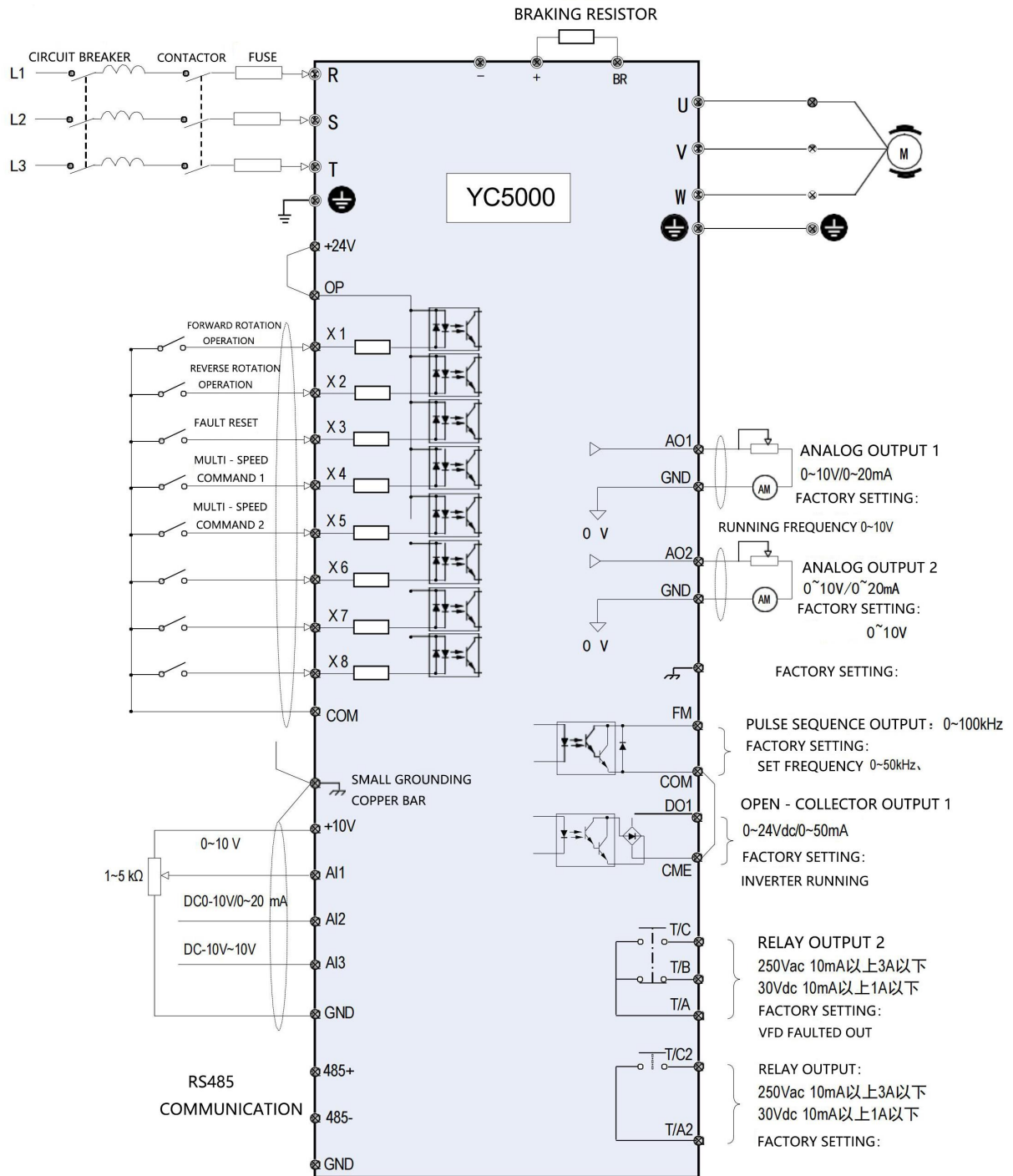
Universal High-Performance Current Vector Frequency Converter



Product Introduction:

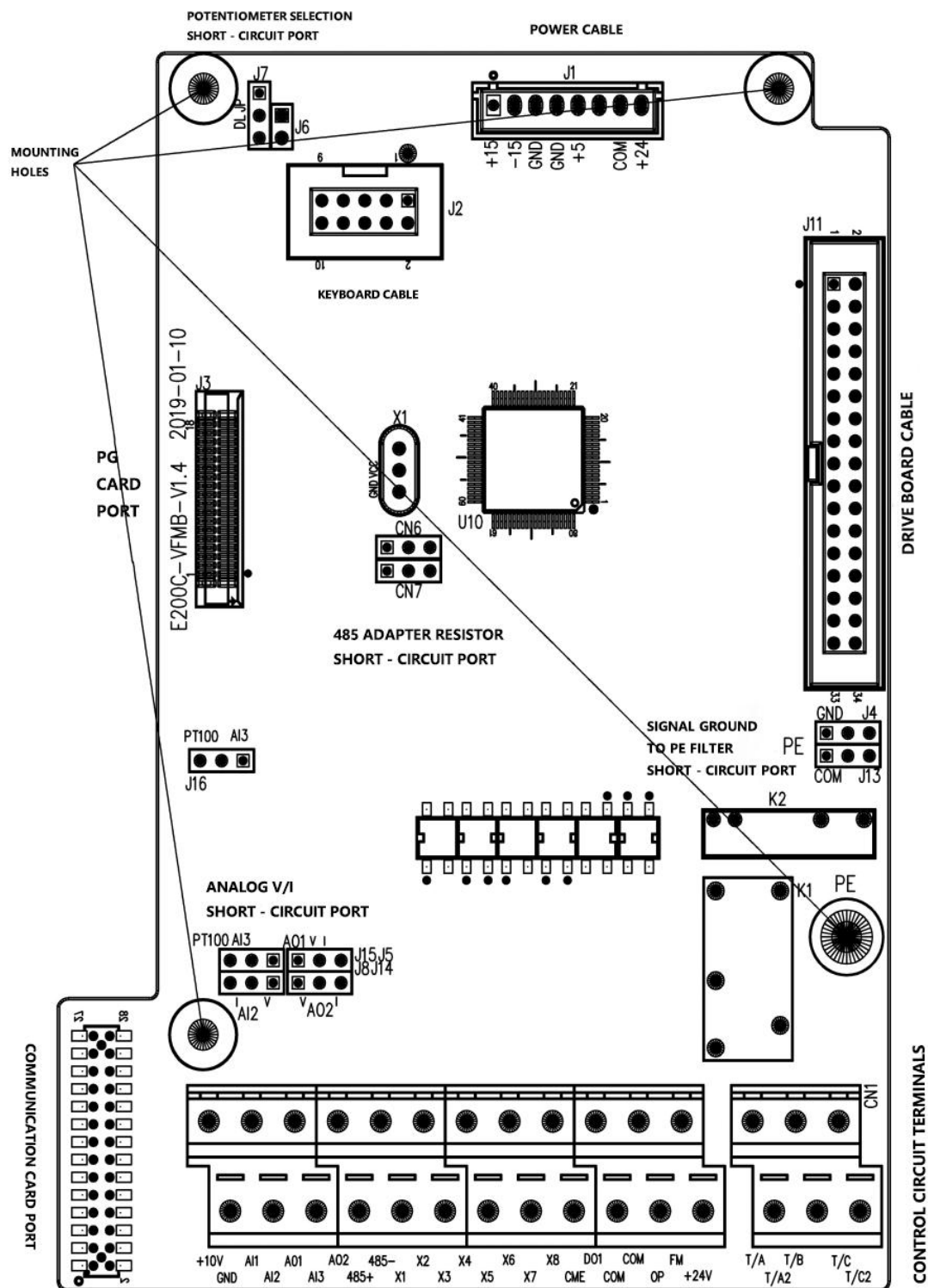
The **YC5000 Series** is a **universal high-performance current vector frequency converter**, primarily designed for **speed and torque control of three-phase AC induction motors**. The YC5000 series employs high-performance vector control technology, delivering high torque output at low speeds with excellent dynamic response and superior overload capacity. It features user-programmable functions, background software monitoring, and communication bus capabilities, while supporting multiple encoder types. With its robust combination of powerful functions and stable performance, this drive is ideal for a wide range of applications including textile machinery, paper manufacturing, wire drawing, machine tools, packaging equipment, food processing, fans, pumps, and various automated production systems.

Installation and Wiring



"NOTE: SHIELDING LAYER"

*THIS IS THE 380 - 480V TYPICAL WIRING DIAGRAM.



Name	Value
------	-------

**Input Voltage
Range**

1~380V

**Motor Rated
Voltage**

1V-2000V

Motor Rated Power

0.1kW- 1000.0kW

Control Mode

0: Sensorless Vector Control
1: Vector Control with Speed Sensor"
3、 V/FControl

**Maximum
Frequency**

50.00Hz~500.00Hz

**Motor Rated
Current**

0.01A~655.35A (VFD Power≤55KW)
0.1A~6553.5A(VFD Power > 55KW)

Motor Rated Speed

1rpm~65535rpm

Accel/Decel Mode

Linear Accel/Decel

Application Scope:

- **Metal processing, CNC machines, wire drawing machines** and other mechanical equipment
- **Food machinery**
- **Boiler blowers, induced draft fans, underground mine exhaust fans**
- **Municipal engineering, central air conditioning energy-saving retrofits**
- **Counter - rotating fans, centrifugal fans, etc.**
- **Circulating water pumps, makeup water pumps, oilfield water injection pumps, oil transfer pumps, musical fountains**
- **Paper making equipment, chemical industry, pharmaceutical industry, textile industry, etc.**