

VFD-1P-230V-3P-4HP-9.8A-DCM

4HP Variable Frequency Device – 230V AC 1PH Input / 230V AC 3PH Output – 9.8 Amps

Product ID: 330995



Image: VFD-1P-230V-3P-4HP-9.8A-DCM

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

VFD-1P-230V-4HP-9.8A-DCM Variable Frequency Device

Unit Type: Variable Frequency Device

Dimensions: 4.92" x 3.08" x 5.85"

Weight: 2.65 lbs

Input Voltage: 200–240V AC, 1 Phase ($\pm 10\%$)

Output Voltage: 230V AC, 3 Phase

Output Current: 9.8 Amps

Operating Frequency: 0 to 400 Hz

HP: 4

Signal Voltage: 0-10V

Starting Torque: 1 Hz/150%

Carrier Frequency: 1.0-16kHz, auto adjusted according to temperature and load

Frequency Accuracy: Dial setting: 0.01Hz, Analog Setting: Max frequency X 0.05%

Torque boost: Automatic torque boost; manually torque boost: 0.1%~30.0%

V/f curve: Linear, multiple point and square type (1.2 power, 1.4 power, 1.6 power, 1.8 power, square)

Inputs: 7 on-off programmable digital, 1 high-speed pulse, 2 programmable analog

Outputs: 1 programmable open collector, 1 analog (open collector or high-speed pulse), 2 relay, 2 analog

Analog Input/Output: 2 Input (0~10V or 0/4~20mA), 2 Output (0/4~20mA or 0~10V)

Communication Terminal: RS485 communication interface, support MODBUS-RTU communication protocol

Features/Ratings

Automatic Voltage Regulation

LED Display

NEMA 1 Rated



Overload: 150% @ 60s, 180% @ 10s, 200% @ 3s

Braking Method: DC Injection Braking standard; Dynamic braking supported via external brake resistor

Operating Temp: -10°C to +40°C

Max Operating Humidity: 90% (non condensing)

Materials: -

Mounting: Surface

Color: Grey

Special Orders - Special Requirements

Contact us for special requirements

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The Larson Electronics VFD-1P-230V-3P-4HP-9.8A-DCM Variable Frequency Device is suitable for improving AC motor performance in industrial operations. This fan-cooled unit features a single-phase 230V AC input and three-phase 230V AC output. This device supports seven on-off programmable digital inputs, one high-speed pulse input and two programmable analog inputs, as well as one programmable open collector output, one analog output (open collector or high-speed pulse), two relay outputs and two analog outputs. The device also features a total of four operating modes: Keypad control, Terminal control, Serial communication control, and Operation Command Mode for digital setting, analog setting, pulse frequency setting, serial communication setting, multi-step speed setting, simple PLC and PID setting.

The VFD-1P-230V-3P-4HP-9.8A-DCM offers accurate AC motor control in industrial facilities. This unit is compatible with 200–240V AC ($\pm 10\%$) single-phase input power and provides a three-phase 230V AC output. Designed for steady speed control, fast torque response and protection from resonance vibrations, the device provides a rated output current of 9.8 amps and supports an operating frequency range of 0 to 400 Hz.

The VFD-1P-230V-3P-4HP-9.8A-DCM is designed for indoor applications and operating temperatures ranging between -10°C to +40°C. Operators may mount the variable frequency device on compatible surfaces. This unit is housed in a NEMA 1 rated enclosure and is designed for surface mounting in industrial environments.

Applications: Speed control of AC motors, industrial machines, large compressors, energy savings and more.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.











Frequently Asked Questions (FAQ)

There are no Faqs