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VFD-1P.3P-200.240-1HP-4.8A-DCM

1 HP Variable Frequency Drive – 200-240V AC 1PH Input, 240V AC 3PH Output – 4.8 Amps – 0.75 kW

Product ID: 327043



Image: VFD-1P.3P-200.240-1HP-4.8A-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.3P-200.240-1HP-4.8A-DCM Variable Frequency Device

Unit Type: 3 Phase Variable Frequency Drive
Dimensions: 2.83" W × 5.98" H × 6.77" D (72 mm × 152 mm × 172 mm)
Weight: 2.3 lbs (1.05 kg)
Input Voltage: 200-240V AC, 1-Phase, 50/60 Hz
Output Voltage: 230V AC, 3-Phase
Output Current: 4.8 Amps
Output Frequency: 0 to 500 Hz (programmable)
Kilowatts: 0.75kw
HP: 1
Starting Torque: High starting torque with SVC mode
Carrier Frequency: 2–16 kHz (auto-adjust based on load/temperature)
Frequency Accuracy: Digital setting: 0.01Hz, Analog Setting: Max frequency X 0.05%
Torque boost: Automatic or Manual (0–30%)
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 (AI1: 0~10V or 0/4~20mA A12: 0~10V or 0/4~20mA)
Outputs: 1 programmable open collector, 1 analog (open collector or high-speed pulse), 2 relay, 2 analog (0/4~20mA or 0~10V)
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
Overload: 150% @ 60s, 180% @ 10s, 200% @ 3s
Operating Temp: −10°C to +50°C (no derating)

Features/Ratings

Automatic Voltage Regulation
LED Display
3 Phase Delta, 3-Wire Configuration

Special Orders - Special Requirements

Max Operating Humidity: 95% non-condensing
Enclosure: IP20 / NEMA Open Type (panel mount)
Materials: Electronic assembly, plastic housing
Mounting: Surface / Panel
Color: Gray

Contact us for special requirements

Toll Free: 1-800-369-6671
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The VFD-1P.3P-200.240-1HP-4.8A-DCM from Larson Electronics is a 3-phase motor control Variable Frequency Drive (VFD) designed to enhance AC motor performance in industrial facilities. This fan-cooled unit operates on 200-240V AC single-phase input and provides a 0–230V AC three-phase output for precise motor speed and torque control. The device delivers 4.8 amps of output current with a 1 HP (0.75 kW) power rating and supports an adjustable frequency range of 0 to 500 Hz.

The VFD-1P.3P-200.240-1HP-4.8A-DCM offers accurate and reliable AC motor control through V/Hz and Sensorless Vector Control (SVC) modes. This VFD includes programmable digital and analog inputs, a relay output, and an analog output for flexible integration with industrial control systems. LED status indicators provide real-time diagnostics and monitoring, while built-in overload protection and automatic torque boost ensure dependable motor performance during demanding operations.

The VFD-1P.3P-200.240-1HP-4.8A-DCM is designed for indoor installation within control panels and is suitable for operating temperatures between –10°C to +50°C without derating. This compact VFD measures 2.83" x 5.98" x 6.77" and weighs approximately 2.3 lbs, allowing for easy mounting in space-limited 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.

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Frequently Asked Questions (FAQ)

There are no Faqs