

VFD-3P-440.480-25HP-48A-DCM

25HP Variable Frequency Device - 440-480V AC 3PH Input/Output - 48 Amps - 18.5kW

Product ID: 324746

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: VFD-3P-440.480-25HP-48A-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-3P-440.480-25HP-48A-DCM Variable Frequency Device

Unit Type: 3 Phase Delta, 3 Wire Variable Frequency Device

Dimensions: 16.65" x 10.15" x 9.05"

Weight: 39.68 lbs

Input/Output Voltage: 440-480V AC 3PH

Output Current: 48 Amps

Operating Frequency: 0 to 400 Hz

Kilowatts: 18.5kw

HP: 25

Starting Torque: 1 Hz/150%

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

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

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

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

Overload: 150% Rated Current @ 60s; 180% Rated Current @ 10s; 200% Rated Current @ 3s

Operating Temp: -10°C to +40°C

Max Operating Humidity: 90% (non condensing)

Materials: -

Mounting: Surface

Features/Ratings

Automatic Voltage Regulation

LED Display

3 Phase Delta, 3-Wire Configuration

IP20

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Color: Gray

E-mail: sales@larsonelectronics.com

The VFD-3P-440.480-25HP-48A-DCM from Larson Electronics is a 3 Phase, 3-Wire Configuration Variable Frequency Drive designed to improve AC motor performance in demanding industrial environments. This fan-cooled unit features a three-phase 440-480V AC input/output compatibility. Engineered for steady speed accuracy, fast torque response, and protection against resonance vibrations, the device provides an output current of 48 amps with an operating frequency range of 0 to 400 Hz and supports motors up to 25 horsepower.

The VFD-3P-440.480-25HP-48A-DCM delivers precise AC motor control in industrial facilities. This 18.5 kW VFD is compatible with three-phase within the range of 400-480V AC input/output voltage, provides an output current of 48 amps, and supports continuous speed regulation with torque boost functionality. The unit supports eight programmable digital inputs, two analog inputs, two analog outputs, programmable relay outputs, and RS485 communication interface for integration with control systems. It also features multiple operating modes, including keypad control, terminal control, serial communication control, and frequency setting modes for digital setting, analog setting, pulse frequency setting, multi-step speed setting, simple PLC, and PID applications.

The VFD-3P-440.480-25HP-48A-DCM is built for indoor installations with an IP20 enclosure rating and operating temperatures ranging from -10°C to +40°C. Operators may mount the VFD on compatible flat surfaces. This device measures 16.65" x 10.15" x 9.05" and weighs approximately 39.68 lbs.

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



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- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/324746.JPG>)
- **Video1**(<https://www.youtube.com/watch?v=FM7BXInKJaY>)
- **Video4**(<https://www.youtube.com/watch?v=FM7BXInKJaY>)
- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate**(<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
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