

VFD-3P-400-10HP-12A-DCM

10HP Variable Frequency Device - 400V AC 3PH Input/Output - 12 Amps - 7.5kW

Product ID: 320834



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-400-10HP-12A-DCM Variable Frequency Device

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

Dimensions: 11.02" x 7.12" x 7.2"

Weight: 14.33 lbs

Input/Output Voltage: 400V AC 3PH

Input Frequency: 50/60Hz

Output Current: 12 Amps

Operating (Output) Frequency: 0 to 400 Hz

Kilowatts: 7.5 kW

HP: 10 HP

Starting Torque: 1 Hz/150%

Carrier Frequency: 1.0-14kHz, Auto Adjusted According to Temperature and Load

Frequency Accuracy: Digital Setting: 0.01% (Max), Analog Setting: 0.2% (Max)

Torque Boost: Automatic Torque Boost; Manual Torque Boost: 0.1%~30.0%

Auto Energy Saving Function: Optimize V/F Curve Automatically Based on the Load to Realize Power Save Running

Inputs: FWD/REV Command, 8-channel Programmable Switch Inputs

Outputs: Programmable Open Collector, Relay Output, 0~20KHz Pulse Output

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

Communication Terminal: RS485 Communication Interface

Overload: 150% Rated Current @ 60s, 180% Rated Current @ 3s

Operating Temp: -10°C to +40°C

Max Operating Humidity: 5% to 95% (Non-condensing)

Materials: -

Mounting: Surface

Color: Gray

Features/Ratings

Automatic Voltage Regulation

LED Display

3 Phase Delta, 3-Wire Configuration

IP20

Special Orders - Special Requirements

Contact us for special requirements

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The VFD-3P-400-10HP-12A-DCM from Larson Electronics is a 3 Phase, 3-Wire Configuration Variable Frequency Drive that is suitable for improving AC motor performance in industrial operations. This constant-torque unit features three-phase 400V AC input/output voltage comparability. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the device provides an output current of 12 amps and an operating (output) frequency range of 0 to 400 Hz with 10 horsepower.

The VFD-3P-400-10HP-12A-DCM offers accurate AC motor control in industrial facilities. This 7.5kW unit is compatible with three-phase nominal 400V AC input/output voltage, provides an output current of 12 amps and an operating frequency range of 0 to 400 Hz. This device supports forward/reverse input commands and 8-channel programmable switch inputs, as well as programmable open collector output, relay output and analog outputs. The device also features the following control functions: modulation mode, control mode, frequency precision, frequency resolution, start frequency, torque boost, adjustable V/F and Acc./Dec. curve, DC breaking, etc.

The VFD-3P-400-10HP-12A-DCM is designed for indoor applications and operating temperatures ranging between -10°C to +40°C. Operators may mount the variable frequency drive on compatible surfaces. This device measures 11.02" x 7.12" x 7.2" and weighs approximately 14.33 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.



AC DRIVE

-  **WARNING** Risk of electric shock 
- Read the manual and follow the safety instructions before operation.
 - Do not remove the cover while power is applied.
 - Wait for 10 minutes after disconnecting power supply to open the cover.
 - Do not connect power to output terminals.
 - Must securely ground (earth) the inverter.



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Frequently Asked Questions (FAQ)