

VFD-3P-400-7.5HP-12A-DCM

7.5HP Variable Frequency Device - 400V AC 3PH Input/Output - 12 Amps - 5.5kW

Product ID: 314382

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



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-400-7.5HP-12A-DCM Variable Frequency Device

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

Dimensions: 5.04" Wide x 7.48" Deep x 11.5" High

Weight: 11.02 lb

Input Current: 12 Amps

Input/Output Voltage: 400 V (380-500V) AC 3PH -15%/+10% at 50-60Hz (± 10%)

Output Current: 12 Amps

Operating Frequency: 50 to 60 Hz

Kilowatts: 5.5 kW

HP: 7.5

Starting Torque: 1 Hz/150%

Frequency Precision: Digital setting: max frequency $\pm 0.01\%$; Analog setting: max frequency $\pm 0.2\%$

Frequency Resolution: Analog setting: 0.1% of max frequency; Digital setting: 0.01Hz

Torque boost: Automatic torque boost; manual 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 (AI1: 0~10V or 0/4~20mA AI2: 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

Features/Ratings

Automatic Voltage Regulation

LED Display

3 Phase Delta, 3-Wire Configuration

Parameter setting via keypad

2 Analogue Inputs, 3 x Digital Inputs 1 x Analogue Output,

1 Relay Contact set and RS485 Communications

EMC Filters to EN61800-3 category C2 1st and 2nd environments (Domestic and Industrial)

communication protocol

Overload: 200% Output Current x 2 seconds every 20 seconds and 150% x 60 seconds every 10 minutes at 4kW High Overload.

Overload: 110% Output Current x 60 seconds on 5.5kW when Fan/Pump rated

Braking: To 63 Ohm minimum external resistor (not supplied)

Operating Temp: -10°C to +40°C

Humidity: 5%-95%, without condensation

Enclosure Rating: IP54

Mounting: Surface

Color: Gray

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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The VFD-3P-400-7.5HP-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 fan-cooled unit features a three-phase 400 V 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 frequency range of 50 to 60 Hz with 7.5 horsepower.

The VFD-3P-400-7.5HP-12A-DCM offers accurate AC motor control in industrial facilities. This 5.5 kw unit is compatible with three-phase nominal 400 V (within the range of 380-500 V) AC input/output voltage, provides an output current of 12 amps and an operating frequency range of 50 to 60 Hz. 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 Frequency Setting Mode for digital setting, analog setting, pulse frequency setting, serial communication setting, multi-step speed setting & simple PLC, PID setting, etc. The VFD-3P-400-7.5HP-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 5.04" Wide x 7.48" Deep x 11.5" High and weighs approximately 11.02 lb.

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)









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