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VFD-3P-400V-100HP-480V-86A-DCM

100HP Variable Frequency Device - 400V AC 3PH Input, 480V AC 3PH Output - 86 Amps - 75 kW

Product ID: 322318



Image: VFD-3P-400V-100HP-480V-86A-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-400V-100HP-480V-86A-DCM Variable Frequency Device

Unit Type: 3 Phase Delta, 3 Wire Variable Frequency Device
Dimensions: 24.33" x 15.66" x 12.04"
Weight: 110 lbs
Input Voltage: 400V (-15% ~ +10%) AC 3PH
Input Frequency: 50 Hz
Output Voltage: 480V
Output Current Rating: 86 Amps
Output Nominal Frequency: 60 Hz ± 0.5 Hz
Operating Frequency: 0 to 90 Hz
Kilowatts: 75 kw
HP: 100
Control Power: 120V power transformer with primary and secondary fuses, and isolation relays
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%
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)

Features/Ratings

Variable Frequency Device
LED Display
3 Phase Delta, 3-Wire Configuration

Communication Terminal: RS485 & RS232C communication interface, support MODBUS-RTU communication protocol

Efficiency (Full Load): > 98% At Full Load PF ≥ 0.95

Ventilation: Natural

Overload: 110% @ 60s, 120% @ 3s
Operating Temp: –10°C to +40°C
Max Operating Humidity: 90% (non condensing)
Enclosures Rating: NEMA 3R
Mounting: Wall
Color: Gray

Special Orders - Special Requirements
Contact us for special requirements
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The VFD-3P-400V-100HP-480V-86A-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 400V AC input/480V AC output voltage comparability. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the device provides an output current of 86 amps and an operating frequency range of 0 to 90 Hz with 100 horsepower.

The VFD-3P-400V-100HP-480V-86A-DCM offers accurate AC motor control in industrial facilities. This 75 kW unit is compatible with three-phase nominal 480V (within the range of 440-540V) AC input/output voltage, provides an output current of 86 amps and an operating frequency range of 0 to 90 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-400V-100HP-480V-86A-DCM is designed for indoor applications and operating temperatures ranging between –10°C to +40°C. Operators may mount the variable frequency drive on walls.

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