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VFD-3P-400V-15HP-20A-DCM-N4X

15 HP Variable Frequency Device - 400V AC 3PH Input/Output - 20 Amps - 11kW - NEMA 4X

Product ID: 344800



Image: VFD-3P-400V-15HP-20A-DCM-N4X

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-15HP-20A-DCM-N4X 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 Current: 20 Amps

Input Voltage: 400 V AC 3PH

Output Voltage: 400 V AC 3PH

Input Frequency: 60 Hz

Output Frequency: 50 Hz

Normal Duty Rated Output Current: 20 Amps

Heavy Duty Peak Output Current: 20 Amps

Normal Duty Kilowatts: 11 kW
Normal Duty HP: 15
Starting Torque: 1 Hz/150%
Frequency Precision: Digital setting: max frequency x± 0.01%; Analog setting: max frequency x± 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 A12: 0~10V or 0/4~20mA)

Features/Ratings

Automatic Voltage Regulation
LED Display
3 Phase Delta, 3-Wire Configuration
Parameter setting via keypad
EMC Filters to EN61800-3 category C2 1st and 2nd environments (Domestic and Industrial)

Outputs: 1 programmable open collector, 1 analog (open collector or high-speed pulse), 2 relay, 2 analog (0/4~20mA or 0~10V)
Control Input/Output: 3 x Analogue input (1 x differential, 2 x single ended), 2 x Analogue output, 3 x Digital I/O programmable, 3 x Digital input (including 2 x high speed – 250µs), 1 x NO relay 250Vac Max., 6 x 0V common, 1 x 24V supply input, 1 x 24V user output, 1 x 10V user output, 1 x Safe Torque Off input
Communication Terminal: RS485 communication interface, support MODBUS-RTU communication protocol

Overload: 110% for 165s, 150% for 60s, 136% for 81s

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

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

Operating Temperature: –20°C to +40°C
Altitude: < 3,300ft Above Sea Level
Humidity: 0%-95%, without condensation
Enclosure Rating: IP66 / NEMA 4X
Mounting: Surface mount via supplied mounting brackets or through-panel mount via optional mounting brackets
Color: Gray

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671

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The VFD-3P-400V-15HP-20A-DCM-N4X 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 configuration. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the device provides an output current of 20 amps and an operating frequency of 50 Hz with 15 horsepower.

The VFD-3P-400V-15HP-20A-DCM-N4X offers accurate AC motor control in industrial facilities. This 11 kW unit is compatible with three-phase 400 V AC input/output voltage, provides an output current of 20 amps and operates with a 60 Hz input frequency and 50 Hz output frequency. 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-15HP-20A-DCM-N4X 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.

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Frequently Asked Questions (FAQ)

There are no Faqs