Larson Electronics LLC
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VFD-3P-480-10HP-16A-DCM-N12

10HP Variable Frequency Device – 480V AC 3PH Input/Output – 16 Amps – 7.5 kW – NEMA 12

Product ID: 332141

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



Image: VFD-3P-480-10HP-16A-DCM-N12

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-480-10HP-16A-DCM-N12 Variable Frequency Device

Unit Type: 3 Phase Delta, 3 Wire Variable Frequency Device
Dimensions: 30" x 24" x 10"
Weight: 130 lbs
Input/Output Voltage: 480V (430-525V) AC 3PH
Output Current: 16 Amps
Operating Frequency: 0 to 500.00 Hz
Kilowatts: 7.5 kw
HP: 10
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)
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

Automatic Voltage Regulation
Door-Mounted HMI
3 Phase Delta, 3-Wire Configuration
NEMA 12 Industrial Dust-Tight
65kAIC Circuit Breaker Disconnect Switch
BACnet Communication Module Installed
Internal EMI / RFI Filtering
Advanced Motor Protection
Fault Diagnostics & Alarm Monitoring

UL / cUL Listed Components

Communication Terminal: RS485 (Modbus-RTU) & BACnet
Overload Capacity: 110% of rated current continuous, 120% for 60 seconds (Normal Duty)
Operating Temp: –10°C to +50°C
Humidity: 5%-95%, without condensation
Enclosure Rating: NEMA 12
Mounting: Wall or Floor Mount
Color: Gray

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

The VFD-3P-480-10HP-16A-DCM-N12 from Larson Electronics is a 3 Phase, 3-Wire Configuration Packaged Variable Frequency Device that is suitable for improving AC motor performance in industrial operations. This NEMA 12 enclosed unit features a three-phase 480 VAC input/output voltage compatibility, an integrated 65kAIC circuit breaker disconnect switch, door-mounted HMI, BACnet communications module and 5% line impedance. Designed for steady speed regulation, fast torque response and protection from electrical disturbances, the device provides an output current of 16 amps and an operating frequency range of 0 to 500.00 Hz with 10 horsepower.

The VFD-3P-480-10HP-16A-DCM-N12 offers accurate and reliable AC motor control in demanding industrial facilities. This 7.5 kW unit is compatible with three-phase nominal 480 V (within the range of 430-525 V) AC input/output voltage, provides an output current of 16 amps and supports advanced vector and V/F control modes. The drive includes seven on-off programmable digital inputs, one high-speed pulse input and two programmable analog inputs, as well as relay and analog outputs for integration into automated systems. Operators may control the device through the door-mounted HMI, terminal control, serial communication control or fieldbus communication via BACnet for seamless PLC integration.

The VFD-3P-480-10HP-16A-DCM-N12 is designed for indoor industrial applications and operates in temperatures ranging between -10°C to +50°C. The NEMA 12 enclosure provides protection against circulating dust, falling dirt and dripping non-corrosive liquids, while the integrated through-door disconnect enhances safety during maintenance. The packaged unit may be wall or floor mounted depending on installation requirements.

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

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Export Control Classification Number (ECCN): EAR99

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