Larson Electronics LLC
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EXP-VFD-3P-480-10HP-17A-DCM

10HP Explosion Proof Variable Frequency Device - C1D1, 480V AC 3PH Input/Output - 17 Amps - 7.5kW

Product ID: 322851

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



Image: EXP-VFD-3P-480-10HP-17A-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.

EXP-VFD-3P-480-10HP-17A-DCM Variable Frequency Device

Unit Type: Explosion Proof 3 Phase Delta, 3 Wire Variable Frequency Device
Dimensions: -
Weight: -
Input/Output Voltage: 480V AC 3PH
Input Frequency: 50/60Hz
Output Current: 17 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

Features/Ratings

NRTL Listed for United States and Canada
Class I, Division 1
Automatic Voltage Regulation
LED Display
3 Phase Delta, 3-Wire Configuration
IP20

Special Orders - Special Requirements

Operating Temp: –10°C to +40°C
Max Operating Humidity: 5% to 95% (Non-condensing)
Materials: -
Mounting: Surface
Color: Gray

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The EXP-VFD-3P-480-10HP-17A-DCM from Larson Electronics is a 3 Phase, 3-Wire Configuration Explosion Proof Variable Frequency Drive that is suitable for improving AC motor performance in Class I, Division 1 rated areas. This constant-torque unit features three-phase 480V 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 17 amps and an operating (output) frequency range of 0 to 400 Hz with 10 horsepower.

The EXP-VFD-3P-480-10HP-17A-DCM offers accurate AC motor control in hazardous locations and combustible sites. This 7.5kW unit is compatible with three-phase nominal 480V AC input/output voltage, provides an output current of 17 amps and an operating frequency range of 0 to 400 Hz. This explosion proof 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 EXP-VFD-3P-480-10HP-17A-DCM is designed for combustible sites and operating temperatures ranging between –10°C to +40°C. Operators may mount the variable frequency drive on compatible surfaces.

Applications: Combustible sites, hazardous locations, 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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