

**7.5HP Explosion Proof Variable Frequency Drive - C1D1&2/C2D1&2 - 480V AC 3PH Input/3PH Output - 14 Amps - 5.5kW - NEMA 4
EXP-VFD-3P-480-7.5HP-14A-DCM**



EXP-VFD-3P-480-7.5HP-14A-DCM Explosion Proof Variable Frequency Device

Unit Type: 3 Phase Input/3 Phase Output Delta, 3 Wire Variable Frequency Device

Dimensions: 12.00" x 12.00" x 10.00"

Weight: 79.3 lbs

Input/Output Voltage: 3 Phase 480V AC/3 Phase AC 0-Input Voltage

Output Current: 14 Amps

Operating Frequency: 0 to 400 Hz

Kilowatts: 5.5 kw

HP: 7.5

Speed Regulation: 1:100

Speed Control Accuracy: $\pm 0.5\%$ of Rating Synchronous Speed

Frequency Resolution: Analog Setting: 0.1% of Max Frequency; Digital Setting: 0.01Hz

Frequency Precision: Digital Setting: 0.01% Max, Analog Setting: Max Frequency X 0.2% Max

Torque boost: Automatic Torque Boost; Manual Torque Boost: 0.1%~30.0%

Communication Terminal: RS485 Communication Interface

Control Mode: V/F Control; Sensorless Vector Control

Overload Capacity: 150% @ 60s, 180% @ 3s

Operating Temp: -10°C to +40°C

Max Operating Humidity: 95% (Non-condensing)

Materials: -

Mounting: Surface

Color: Gray

Features/Ratings

Class I, Divisions 1 & 2

Class II, Divisions 1 & 2

NEMA 4

Automatic Voltage Regulation

LED Display

3 Phase Input/3 Phase Output Delta, 3-Wire Configuration

Automatic Energy Save Running

Automatic Current Limiting

Indoor or Outdoor Use

Operator Controls

Special Orders- Requirements

Contact us for special requirements

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The EXP-VFD-3P-480-7.5HP-14A-DCM from Larson Electronics is an Explosion Proof Three-Phase Input, 3 Phase Output, 3-Wire Configuration Variable Frequency Drive that is suitable for improving AC motor performance in industrial operations. This 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 14 amps and an operating frequency range of 0 to 400 Hz with 7.5 horsepower. This NEMA 4 rated explosion proof VFD is suitable for indoor or outdoor combustible sites.

The EXP-VFD-3P-480-7.5HP-14A-DCM offers accurate AC motor control in industrial facilities. This 5.5 kw unit is compatible with three-phase input and three-phase output 480V AC voltage, provides an output current of 14 amps and an operating frequency range of 0 to 400 Hz. This device has a V/F control mode and sensorless vector control mode with an interior PID controlled, automatic energy save running to optimize the V/F curve, an automatic voltage regulator and automatic current limiting. Operators on the explosion proof VFD can be used to control the unit. Individuals do not have to open the enclosure to

program or change the settings of the device.

The EXP-VFD-3P-480-7.5HP-14A-DCM is designed for indoor or outdoor locations due to its NEMA 4 rating, as well as operating temperatures ranging between -10°C to +40°C. This explosion proof device is rated for use in Class I, Divisions 1 & 2 and Class II, Divisions 1 & 2 hazardous locations. The explosion proof VFD is ideal for sites where flammable vapors, gases, or dust exist or stand the potential to exist.

Mount: Operators may mount the VFD on compatible surfaces. This explosion proof device measures 12.00" x 12.00" x 10.00" and weighs approximately 79.3 lbs.

Applications: Speed control of AC motors, industrial machines, large compressors, energy savings and more within Class I & II, Divisions 1 & 2 hazardous locations.

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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