Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

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VFD-1P-230V-3P-10HP-30A-DCM-N4X

10 HP VFD Phase Converter - 230V AC 1PH Input/3PH Output - 30 Amps - 7.5 kW - NEMA 4X

Product ID: 321855

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



Image: VFD-1P-230V-3P-10HP-30A-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-1P-230V-3P-10HP-30A-DCM-N4X Variable Frequency Device

Unit Type: 1 Phase Input/3 Phase Output Delta, 3 Wire Variable Frequency Device
Dimensions: 16.65" x 10.15" x 9.05"
Weight: 39.6 lbs
Input/Output Voltage: 1 Phase 230V AC/3 Phase 230V AC
Output Current: 30 Amps
Operating Frequency: 0 to 400 Hz
Kilowatts: 7.5 kw
HP: 10
Control Input: Digital ON/OFF via 9–24VDC input
Speed Regulation: 1:100
Speed Control Accuracy: =±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 +60°C
Max Operating Humidity: 95% (non condensing)

Features/Ratings

Automatic Voltage Regulation
LED Display
1 Phase Input/3 Phase Output Delta, 3-Wire Configuration
Automatic Energy Save Running
Automatic Current Limiting
NEMA 4X Rated

Special Orders - Special Requirements

Contact us for special requirements

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Materials: -
Mounting: Surface
Color: Gray

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Intl: 1-903-270-1187
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The VFD-1P-230V-3P-10HP-30A-DCM-N4X from Larson Electronics is a Single-Phase Input, 3 Phase Output, 3-Wire Configuration Variable Frequency Drive Phase Converter that is suitable for improving AC motor performance in industrial operations. This fan-cooled unit features a 230V AC input/output voltage compatibility. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the device provides an output current of 34 amps and an operating frequency range of 0 to 400 Hz with 10 horsepower.

The VFD-1P-230V-3P-10HP-30A-DCM-N4X offers accurate AC motor control in industrial facilities. This 7.5 kW unit is compatible with single-phase input and three-phase output 230V AC voltage, provides an output current of 34 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.

The VFD-1P-230V-3P-10HP-30A-DCM-N4X is designed for indoor applications and operating temperatures ranging between –10°C to +40°C. This unit carries a NEMA 4X rating, offering protection from exposure to water, dust, corrosion and external ice formation. Operators may mount the VFD phase converter on compatible surfaces. This device measures 16.65" x 10.15" x 9.05" and weighs approximately 40 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

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Export Control Classification Number (ECCN): EAR99

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Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/321855.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/321855.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/321855.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/321855.JPG)
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- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/321855.JPG)
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- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/321855.JPG)
- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/321855.JPG)
- **Video1**(https://www.youtube.com/watch?v=FM7BXInKJaY)
- **Video2**(https://www.youtube.com/watch?v=M1i0XweKYE0)
- **Video4**(https://www.youtube.com/watch?v=FM7BXInKJaY)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
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