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

www.LarsonElectronics.com
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VFD-1P-120-3P-0.5HP-3A-DCM

1/2HP VFD Phase Converter - 120V AC 1PH Input/3PH Output - 3 Amps - 0.4kW

Product ID: 307176

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



Image: VFD-1P-120-3P-0.5HP-3A-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.

VFD-1P-120-3P-0.5HP-3A-DCM Variable Frequency Device

Unit Type: 1 Phase Input/3 Phase Output Delta, 3 Wire Variable Frequency Device
Dimensions: 5.59" x 3.34" x 4.44"
Weight: 4.4 lbs
Input/Output Voltage: 1 Phase 120V AC/3 Phase AC 0-Input Voltage
Output Current: 3 Amps
Operating Frequency: 0 to 400 Hz
Kilowatts: 0.4kw
HP: 1/2
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 +40°C
Max Operating Humidity: 95% (non condensing)
Materials: -

Features/Ratings

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

Special Orders - Special Requirements

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

Mounting: Surface
Color: Gray

Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

The VFD-1P-120-3P-0.5HP-3A-DCM 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 120V 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 3 amps and an operating frequency range of 0 to 400 Hz with 1/2 horsepower.

The VFD-1P-120-3P-0.5HP-3A-DCM offers accurate AC motor control in industrial facilities. This 0.4kw unit is compatible with single-phase input and three-phase output 120V AC voltage, provides an output current of 3 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-120-3P-0.5HP-3A-DCM is designed for indoor applications and operating temperatures ranging between –10°C to +40°C. Operators may mount the VFD phase converter on compatible surfaces. This device measures 5.59" x 3.34" x 4.44" and weighs approximately 4.4 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

Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/307176.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/307176.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/307176.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/307176.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/307176.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/307176.JPG)
- **HigResPic6**(https://www.larsonelectronics.com/images/product/HigResPic6/307176.JPG)
- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/307176.JPG)
- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/307176.JPG)
- **HigResPic9**(https://www.larsonelectronics.com/images/product/HigResPic9/307176.JPG)
- **HigResPic10**(https://www.larsonelectronics.com/images/product/HigResPic10/307176.JPG)
- **Video1**(https://www.youtube.com/watch?v=FM7BXInKJaY)
- **Video2**(https://www.youtube.com/watch?v=M1i0XweKYE0)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)