Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
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## VFD-1P-120.208-3P-7.5HP-24A-DCM

# 7.5HP VFD Phase Converter - 120/208V AC 1PH Input / 230/240V 3PH Output - 24 Amps - 5.5kW

**Product ID: 322858**

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

Image: VFD-1P-120.208-3P-7.5HP-24A-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.**

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**VFD-1P-120.208-3P-7.5HP-24A-DCM Variable Frequency Device**

**Unit Type:** 1 Phase Input/3 Phase Output Delta, 3 Wire Variable Frequency Device
**Dimensions:** 13.34" x 9.09" x 8.42"
**Weight:** 24.2 lbs
**Input Voltage:** 1 Phase 120/208V AC
**Output Voltage:** 3 Phase 230/240V AC
**Output Current:** 24 Amps
**Operating Frequency:** 0 to 400 Hz
**Kilowatts:** 5.5kw
**HP:** 7.5
**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)

**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

**Materials:** -
**Mounting:** Surface
**Color:** Gray

**Toll Free:** 1-800-369-6671
**Intl:** 1-903-270-1187
**E-mail:** sales@larsonelectronics.com

**The VFD-1P-120.208-3P-7.5HP-24A-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 120/208V AC input / 230/240V output voltage comparability. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the device provides an output current of 24 amps and an operating frequency range of 0 to 400 Hz with 7.5 horsepower.**

The VFD-1P-120.208-3P-7.5HP-24A-DCM offers accurate AC motor control in industrial facilities. This 5.5kw unit is compatible with single-phase input 120/208V AC and three-phase output 230/240V AC voltage, provides an output current of 24 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-120.208-3P-7.5HP-24A-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 13.34" x 9.09" x 8.42" and weighs approximately 24 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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