Larson Electronics LLC
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VFD-3P-240V-1HP-240V-60HZ-N4X

1 HP Variable Frequency Drive - 230V (208-240V) AC 3PH Input, 230V (208-240V) AC 3PH Output - 60Hz - NEMA 4X

Product ID: 312179

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



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-3P-240V-1HP-240V-60HZ-N4X Variable Frequency Drive

Unit Type: 3 Phase Delta, 3 Wire Variable Frequency Drive
Dimensions: 7.3 * 4.9 * 6.3 inches
Weight: 4.41 lbs
Input/Output Voltage: 230V (208-240V) AC 3PH
Output Current: 7 A
Operating Frequency: 0 to 60 Hz (Adjustable)
Kilowatts: 1.5 kW
Motor Power: 1 HP
Starting Torque: 1 Hz/150%
Carrier Frequency: 1.0-16kHz, auto adjusted according to temperature and load
Frequency Accuracy: Digital setting: 0.01Hz, Analog Setting: Max frequency X 0.05%
Torque boost: Automatic torque boost; manual torque boost: 0.1%~30.0%
V/f curve: Linear, multiple point and square type (1.2 power, 1.4 power, 1.6 power, 1.8 power, square)
Inputs: 7 on-off programmable digital, 1 high-speed pulse, 2 programmable analog (AI1: 0~10V or 0/4~20mA A12: 0~10V or 0/4~20mA)
Outputs: 1 programmable open collector, 1 analog (open collector or high-speed pulse), 2 relay, 2 analog (0/4~20mA or 0~10V)
Analog Input/Output: 2 Input (0~10V or 0/4~20mA), 2 Output (0/4~20mA or 0~10V)
Communication Terminal: RS485 communication interface, support MODBUS-RTU communication protocol
Overload: 150% @ 60s, 180% @ 10s, 200% @ 3s
Operating Temp: –10°C to +40°C
Max Operating Humidity: 90% (Non-condensing)

Features/Ratings

Operator Controls
Indoor or Outdoor Use
NEMA 4X
LED Display
3 Phase Delta, 3-Wire Configuration
Automatic Energy Save Running
Automatic Voltage Regulation
Automatic Current Limiting

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187

Materials: -
Mounting: Surface/Wall Mounted
Color: Black

Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The VFD-3P-240V-1HP-240V-60HZ-N4X from Larson Electronics is a 3 Phase, 3-Wire Configuration Variable Frequency Drive that is suitable for improving AC motor performance in industrial operations. This unit features three-phase 240V AC input/output voltage comparability. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the VFD-3P-240V-1HP-240V-60HZ-N4X provides an operating frequency range of 0 to 60 Hz with 1 horsepower. This NEMA 4X rated VFD is suitable for indoor or outdoor combustible sites.

The VFD-3P-240V-1HP-240V-60HZ-N4X offers accurate AC motor control in industrial and combustible facilities. This unit is compatible with three-phase nominal 230V (within the range of 208-240V) AC input/output voltage, provides an operating frequency range of 0 to 60 Hz. The device supports seven on-off programmable digital inputs, one high-speed pulse input and two programmable analog inputs, as well as one programmable open collector output, one analog output (open collector or high-speed pulse), two relay outputs and two analog outputs.

The unit features a total of four operating modes: Keypad control, Terminal control, Serial communication control, and Frequency Setting Mode for digital setting, analog setting, pulse frequency setting, serial communication setting, multi-step speed setting & simple PLC, PID setting, etc. Operators on the 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.

Controls: This unit is equipped with: Start button to start the motor, stop button to stop the motor, (6) control buttons for menu operations to change VFD settings, 3 position HOA switch for selecting operation speed, and (1) potentiometer for controlling motor speeds.

The VFD-3P-240V-1HP-240V-60HZ-N4X is designed for indoor or outdoor locations due to its NEMA 4X rating, as well as operating temperatures ranging between −10°C to +40°C.

Mount: Operators may mount the VFD on compatible surfaces.

Applications: Speed control of AC motors, industrial machines, large compressors, energy savings.

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)

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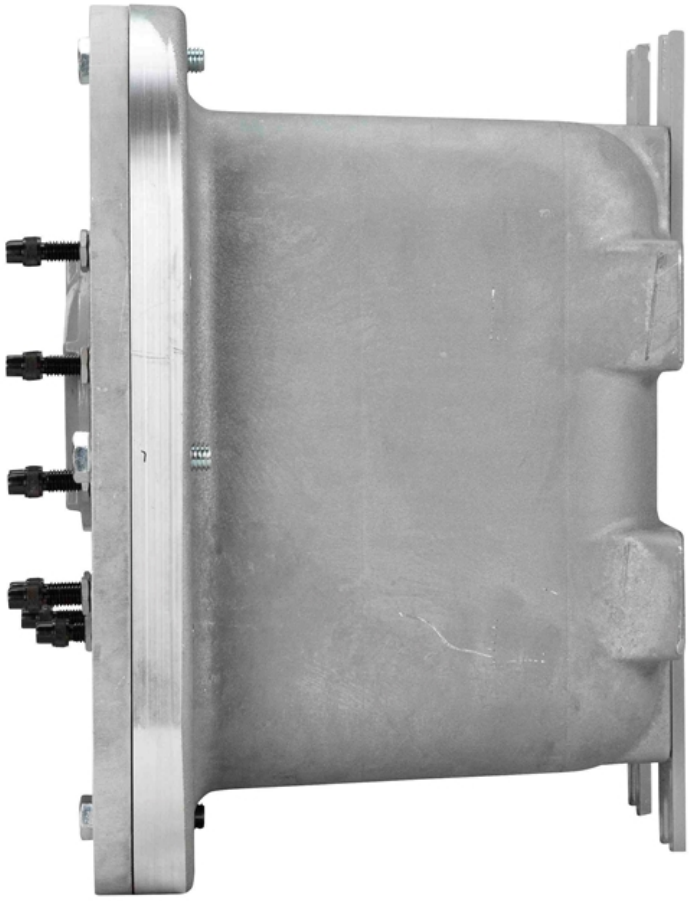

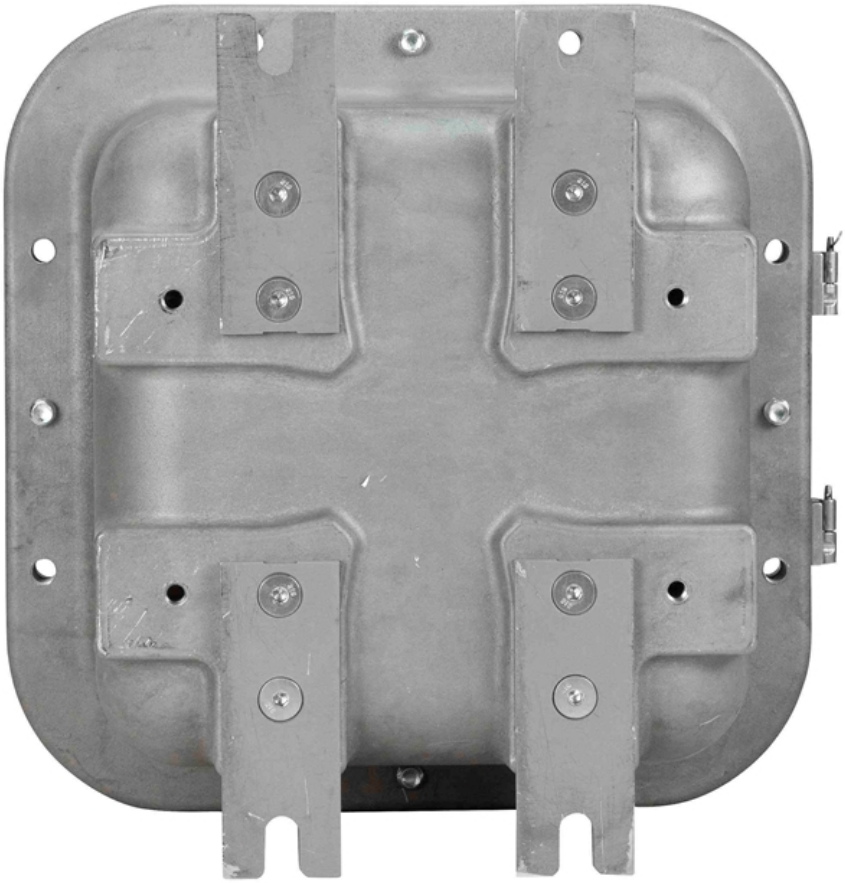

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**