

VFD-1P-120V-1HP-6A-DCM

1 HP Variable Frequency Device - 120V AC 1PH Input/Output - 6 Amps

Product ID: 316952

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



Image: VFD-1P-120V-1HP-6A-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-120V-1HP-6A-DCM Variable Frequency Device

Unit Type: Variable Frequency Device

Dimensions: 4.92" x 3.08" x 5.85"

Weight: 2.65 lbs

Input/Output Voltage: 120V AC 1PH

Output Current: 6 Amps

Output Frequency: 120 Hz

Operating Frequency Range: 0 to 3000 Hz

HP: 1

Efficiency: 90%

Power Factor: 0.95

Starting Torque: 1 Hz/150%

Carrier Frequency: 1.0-16kHz, auto adjusted according to temperature and load

Frequency Accuracy: Dial setting: 0.01Hz, Analog Setting: Max frequency X 0.05%

Torque boost: Automatic torque boost; manually 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

Outputs: 1 programmable open collector, 1 analog (open collector or high-speed pulse), 2 relay, 2 analog

Features/Ratings

Variable Frequency Device

LED Display



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)

Materials: -

Mounting: Surface

Color: Gray

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

The Larson Electronics VFD-1P-120V-1HP-6A-DCM Variable Frequency Drive is suitable for improving AC motor performance in industrial operations. This fan-cooled unit features a single-phase 120V AC input/output voltage compatibility. This 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 device also features a total of four operating modes: Keypad control, Terminal control, Serial communication control, and Operation Command Mode for digital setting, analog setting, pulse frequency setting, serial communication setting, multi-step speed setting & simple PLC, PID setting, etc.

The VFD-1P-120V-1HP-6A-DCM offers accurate AC motor control in industrial facilities. This unit is compatible with single-phase 120V AC input/output voltage. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the device provides an output current of 6 amps and an operating frequency range of 0 to 3000 Hz.

The VFD-1P-120V-1HP-6A-DCM is designed for indoor applications and operating temperatures ranging between -10°C to +40°C. Operators may mount the variable frequency drive on compatible surfaces. This device measures 4.92" x 3.08" x 5.85" and weighs 2.65 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.



Frequently Asked Questions (FAQ)

There are no Fags



Image: VFD-1P-120V-1HP-6A-DCM



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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/316952.PDF>)
- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/316952.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/316952.JPG>)
- **HigResPic3**(<https://www.larsonelectronics.com/images/product/HigResPic3/316952.JPG>)
- **HigResPic4**(<https://www.larsonelectronics.com/images/product/HigResPic4/316952.JPG>)
- **HigResPic5**(<https://www.larsonelectronics.com/images/product/HigResPic5/316952.JPG>)
- **HigResPic6**(<https://www.larsonelectronics.com/images/product/HigResPic6/316952.JPG>)
- **HigResPic7**(<https://www.larsonelectronics.com/images/product/HigResPic7/316952.JPG>)
- **HigResPic8**(<https://www.larsonelectronics.com/images/product/HigResPic8/316952.JPG>)
- **HigResPic9**(<https://www.larsonelectronics.com/images/product/HigResPic9/316952.JPG>)
- **HigResPic10**(<https://www.larsonelectronics.com/images/product/HigResPic10/316952.JPG>)
- **Video1**(<https://www.youtube.com/watch?v=FM7BXInKJaY>)
- **Video4**(<https://www.youtube.com/watch?v=FM7BXInKJaY>)
- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate**(<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
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