

VFD-3P-480V-75HP-115A-DCM

75 HP Variable Frequency Device - 480V AC 3PH Input/Output - 115 Amps - 55kW

Product ID: 335329

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



Image: VFD-3P-480V-75HP-115A-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-3P-480V-75HP-115A-DCM Variable Frequency Device

Unit Type: 3 Phase Delta, 3 Wire Variable Frequency Device

Dimensions: 47.7"-H x 28.1"-W x 19"-D

Weight: 88.18 lbs

Input/Output Voltage: 480V AC 3PH

Output Current: 115 Amps

Nominal Frequency: 60 Hz

Operating Frequency: 0 to 3000 Hz

Kilowatts: 55 kW

HP: 75

Efficiency: 98%

Power Factor: 0.95

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%

Features/Ratings

Variable Frequency Device

LED Display

3 Phase Delta, 3-Wire Configuration

NEMA 1 Rated

External detachable LED keypad used to change input, output, and other settings easily

High performance open or closed-loop sensorless vector control

Compatible with option cards and upgraded LCD keypad
Integrated PID controller

Capable of controlling asynchronous and synchronous permanent magnet motors

DC injection, dynamic, flux, and short-circuit braking compatible

Built-in C3 EMC filter to prevent electromagnetic interference

1:200 speed ratio for motor driving performance

Accurate static and rotating parametric autotuning of the motor

8 digital inputs, 2 open-collector outputs; 2 relay outputs, 2

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: 8 on-off programmable digital, 1 high-speed pulse, 2 programmable analog (AI1: 0~10V or 0/4~20mA AI2: 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 Protocol: JCI

Overload: 150% @ 60s, 180% @ 10s, 200% @ 3s

Enclosure Type: NEMA/UL Type 1

Operating Temp: -10°C to +40°C

Max Operating Humidity: 90% (non condensing)

Materials: -

Mounting: Surface

Color: Gray

form C relay outputs; 3 analog inputs, 2 analog outputs
QR code display for additional parameter information and
fault troubleshooting

Option cards allow communication protocols including
EtherNet/IP (DLR), BACnet/IP, PROFINET IO (MRP), IEC
61850, CC-Link IE Field Basic, SLMP, MELSEC MC, and
AB CSP

Able to mount to a provided movable frame that is
approximately 13 inches in width and 74 inches in height

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 VFD-3P-480V-75HP-115A-DCM 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 fan-cooled unit features a three-phase 480V 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 115 amps and a nominal frequency of 60 Hz with 75 horsepower.

The VFD-3P-480V-75HP-115A-DCM offers accurate AC motor control in industrial facilities. This 55 kW unit is compatible with three-phase nominal 480V AC input/output voltage, provides an output current of 115 amps and a nominal frequency of 60 Hz. 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 Frequency Setting Mode for digital setting, analog setting, pulse frequency setting, serial communication setting, multi-step speed setting & simple PLC, PID setting, etc.

The VFD-3P-480V-75HP-115A-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.

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



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- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/335329.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>)
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