

VFD-3P-500V-500A-50HZ-DCM

Variable Frequency Device - 500V AC 3PH Input/Output Voltage Rating - 500 Amps Continuous Rating

Product ID: 312186



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-500V-500A-50HZ-DCM Variable Frequency Drive

Unit Type: Variable Frequency Drive
Dimensions: 39.37" x 27.17" x 16.14"
Weight: 397 lbs
Input Voltage: 415–500V, 3PH
Output Voltage: 0–460V, 3PH
Output Current: 500 Amps
Operating Frequency: 50 Hz
Enclosure: NEMA 12
Panel Mount Digital display Power Quality Meter: Feathers: Phase to Phase Voltages
Phase – Neutral Voltages Line Currents Powers: Apparent, Real, Reactive
Harmonics, Power Factor
Analog Input(s): (2)
Digital Input(s): (2)
Analog Output(s): (2)
Digital Output(s): (2)
Communication Protocol: Modbus/Profibus
Momentary Pushbuttons: Start & Stop
Pilot Lights: Green-Run, Red-Stop, Amber-Fault
Manual Speed Regulator: Door Mounted Potentiometer
Selector Switch: Local/ Off /Remote
Line Reactor: Input AC Line Reactor installed inside enclosure (3-4% rating)
Main Disconnect:: Circuit Breaker with operator handle
Set Points: (3)
Location of Keypad: Door mounted
Cooling System: Fan & Filter
Duty: Continuous with 120% overload capability for 60 seconds
Motor Protection: Motor stalling, Phase loss, Ground Fault, Loss of Load
Drive Protection: Over & Under Voltage, Overheating, Over Current

Features/Ratings

Variable Frequency Drive
LED Display
3 Phase Delta, 3-Wire Configuration

Operating Temp: -10°C to +40°C
Max Operating Humidity: 90% (non condensing)
Materials: -
Mounting: Floor Mounted
Color: Gray

Special Orders - Special Requirements

Contact us for special requirements
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The VFD-3P-500V-500A-50HZ-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 rating of 460V 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 500 amps and an operating frequency range of 0 to 3000 Hz.

The VFD-3P-500V-500A-50HZ-DCM offers accurate AC motor control in industrial facilities. This unit is compatible with three-phase nominal 460V (within the range of 415-500V) AC input/output voltage, provides an output current of 500 amps and an operating frequency range of 0 to 3000 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. (Frequency can be adjusted using either the potentiometer on the control panel, up/down button on the keypad, or through a RS485 Interface.)

The VFD-3P-500V-500A-50HZ-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)