

VFD-3P-440-3HP-6A-DCM-ER-10C-EXP-CS-R1

3HP Variable Frequency Device - 440V AC 3-phase Input/Output - 6 Amps, 2.2kW - EXP Remote Control Pendant

Product ID: 282303

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-440-3HP-6A-DCM-ER-10C-EXP-CS-R1 Variable Frequency Device

Unit Type: 3 Phase Delta, 3 Wire Variable Frequency Device w/ EXP Remote Control

Dimensions: 7.24" x 3.85" x 5.31"

Weight: 4.4 lbs (without the Remote)

Input/Output Voltage: 440V (415-500V) AC 3-phase

Output Current: 6 Amps

Operating Frequency: 0 to 3000 Hz

Kilowatts: 2.2kw

HP: 3

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 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 Terminal: RS485 communication interface, support MODBUS-RTU communication protocol

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

Explosion Proof Remote Control Type: Hardwired Pendant

Remote Control Functions: Emergency Stop Mushroom Switch, Start Push Button, Forward/Reverse Switch, Jog/Run Switch and 0-100 Speed Control Dial

Features/Ratings

Automatic Voltage Regulation

LED Display

3 Phase Delta, 3-Wire Configuration

Explosion Proof Remote Control Ratings

NRTL Listed for United States and Canada

Class I, Divisions 1 & 2, Groups C,D

Class I, Zones 1 & 2, Groups IIB, IIA

Class II, Divisions 1 & 2, Groups E,F,G

Class III

NEMA 7(C,D) 9(E,F,G)

Special Orders - Special Requirements

Operating Temp: -10°C to +40°C
Max Operating Humidity: 90% (non condensing)
Materials: -
Mounting: Surface
Remote Cord: 10'

Contact us for special requirements
Intl: 1-903-270-1187
Toll Free: 1-800-369-6671
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The VFD-3P-440-3HP-6A-DCM-ER-10C-EXP-CS-R1 from Larson Electronics is a 3 Phase, 3-Wire Configuration Variable Frequency Drive with Explosion Proof Remote Control that is suitable for improving AC motor performance in industrial operations. This fan-cooled unit features three-phase 440V 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 6 amps and an operating frequency range of 0 to 3000 Hz with 3 horsepower. The system is equipped with an explosion proof pendant remote control that is hardwired to the VFD. This remote control can be used in combustible sites (the VFD does not have explosion proof protection and must only be used in general/non-combustible locations).

The VFD-3P-440-3HP-6A-DCM-ER-10C-EXP-CS-R1 offers accurate AC motor control in industrial facilities. This 2.2kw unit is compatible with three-phase nominal 440V (within the range of 415-500V) AC input/output voltage, provides an output current of 6 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.

Explosion Proof Remote Control: This system comes with an explosion proof remote control pendant that is hardwired to the non-explosion proof VFD unit. The remote control features explosion proof protection and the control device can be used in combustible areas (the VFD does not have explosion proof protection and must be installed in a non-combustible location). Operators may access the following controls on the remote: emergency stop mushroom switch, start push button, forward/reverse switch, jog/run switch and 0-100 speed control dial. The explosion proof remote is connected to the VFD via a 10-foot cord.

The VFD-3P-440-3HP-6A-DCM-ER-10C-EXP-CS-R1 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 7.24" x 3.85" x 5.31" and weighs approximately 4.4 lbs (without the remote).

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)









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Product ID: 282303

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](#)
- [HigResPic10](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)