Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EXP-VFD-3P-230-10HP-29.5A-DCM-R1

10HP Explosion Proof VFD Phase Converter - C1D1/C2D1 - 230 (220-240V) AC 3PH Input/Output - 29.5 Amps - 7.5kW

Product ID: 239010

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.

EXP-VFD-3P-230-10HP-29.5A-DCM-R1 Explosion Proof Variable Frequency Device

Unit Type: 3 Phase Input/3 Phase Output Delta, 3 Wire Variable Frequency Device
Dimensions: 28.38"L x 28.38"W x 14.19"H
Weight: -
Input/Output Voltage: 230V AC (220-240V), 3PH
Output Current: 29.5 Amps
Operating Frequency: 0 to 400 Hz
Kilowatts: 7.5kw
HP: 10
Operators: Start Button, Stop Button, (6) Menu Buttons, Hand-Off-Auto 3-Position Switch, speed potentiometer
Speed Regulation: 1:100
Speed Control Accuracy: =±0.5% of rating synchronous speed
Frequency Resolution: Analog setting: 0.1% of max frequency; Digital setting: 0.01Hz
Frequency Precision: Digital setting: 0.01% max, Analog Setting: Max frequency X 0.2% max
Torque boost: Automatic torque boost; manual torque boost: 0.1%~30.0%
Communication Terminal: RS485 communication interface
Control Mode: V/F Control; Sensorless Vector Control
Overload Capacity: 150% @ 60s, 180% @ 3s
Operating Temp: –10°C to +40°C
Max Operating Humidity: 95% (non condensing)
Materials: -
Mounting: Surface

Features/Ratings

Class I, Divisions 1&2
Class II, Divisions 1&2
Automatic Voltage Regulation
LED Display
Automatic Energy Save Running
Automatic Current Limiting

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
Intl 1-903-270-1187
Fax: 1-903-498-3364

Color: Gray

E-mail: sales@larsonelectronics.com

The EXP-VFD-3P-230-10HP-29.5A-DCM-R1 from Larson Electronics is an Explosion Proof Three-Phase Input, Three-Phase Output, 3-Wire Configuration Variable Frequency Drive that is suitable for improving AC motor performance in combustible work sites. This fan-cooled unit features three-phase 230V AC (220-240V AC) input/output voltage comparability. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the explosion proof device provides an output current of 29.5 amps and an operating frequency range of 0 to 400 Hz with 10 horsepower.

The EXP-VFD-3P-230-10HP-29.5A-DCM-R1 offers accurate AC motor control in industrial facilities. This 7.5kw unit is compatible with three-phase input and three-phase output of 230V AC (220-240V), provides an output current of 29.5 amps and an operating frequency range of 0 to 400 Hz. This 10-HP device has a V/F control mode and sensorless vector control mode with an interior PID controlled, automatic energy save running to optimize the V/F curve, an automatic voltage regulator and automatic current limiting.

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 EXP-VFD-3P-230-10HP-29.5A-DCM-R1 is designed for indoor applications and operating temperatures ranging between −10°C to +40°C. This unit is rated for use in Class I, Divisions 1 & 2 and Class II, Divisions 1 & 2 flammable facilities. This explosion proof VFD is ideal for indoor or outdoor applications where flammable vapors, gases, or dusts exist or stand the potential to exist.

Mounting: Operators may mount the explosion proof unit on compatible surfaces.

Applications: Speed control of AC motors, industrial machines, large compressors, energy savings and more within Class I and II, Divisions 1 & 2 hazardous locations.

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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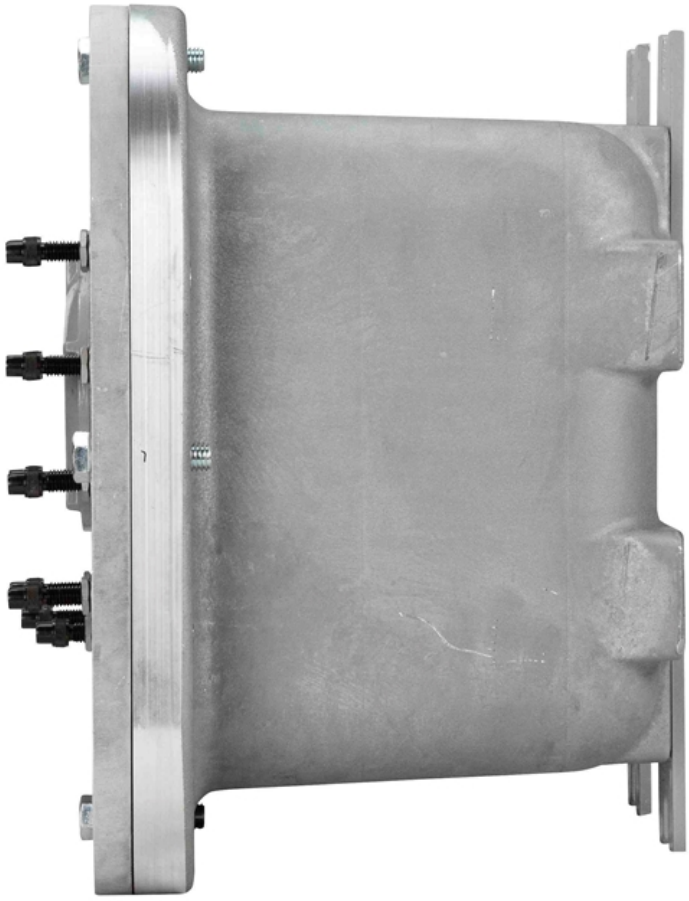

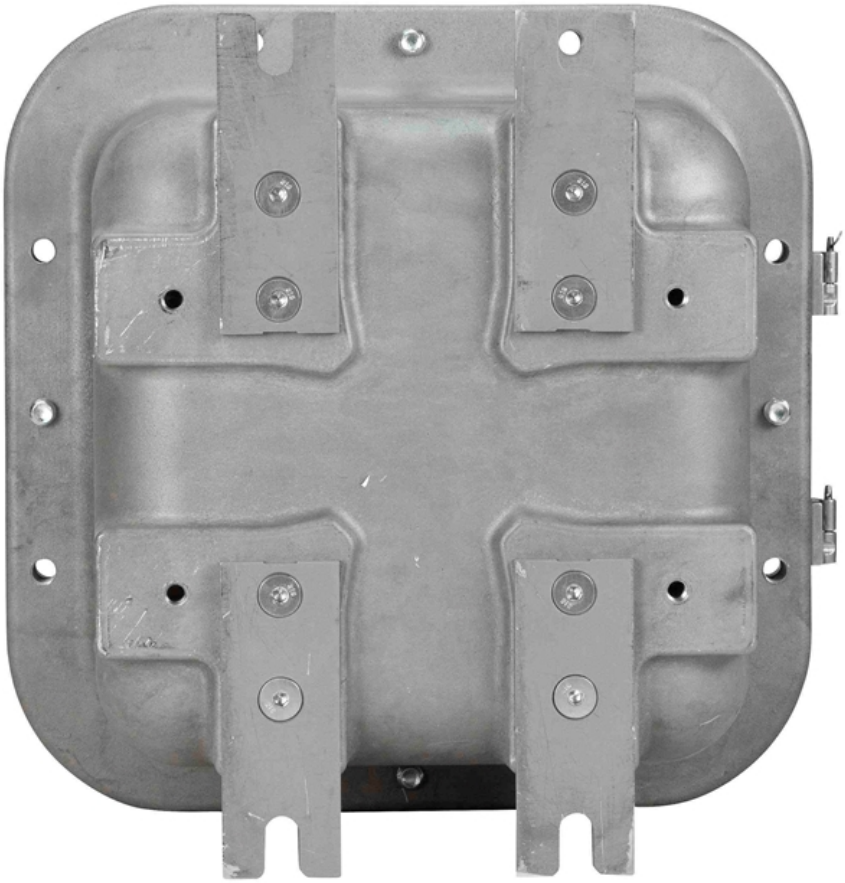

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Product ID: 239010

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- ATEX Certificate (European Explosion Proof)
- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- CE Certificate
- Certificate 1, Misc
- Certificate 2, Misc
- Certificate 3, Misc
- IEC Ex Certificate (International Explosion Proof)
- MSDS (Material Safety Data Sheet
- Operations Manual
- RoHS Certificate (Restriction of Hazardous Substances)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map