

### EXP-VFD-1P-220.240-1HP-7A-DCM

**1HP Explosion Proof Variable Frequency Device - C1D1/C2D1 - 220-240V AC 1PH Input/Output - 7 Amps**

**Product ID: 224360**

**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-1P-220.240-1HP-7A-DCM Explosion Proof Variable Frequency Device

**Unit Type:** 1 Phase Input/1 Phase Output Variable Frequency Device

**Dimensions:** 12.00" x 12.00" x 10.00"

**Weight:** -

**Input/Output Voltage:** 220-240V AC, Single Phase (Input/Output)

**Output Current:** 7 Amps

**Operating Frequency:** 0 to 3000 Hz

**Kilowatts:** -

**HP:** 1

**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

**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:** -

#### Features/Ratings

Class I, Divisions 1 & 2

Class II, Divisions 1 & 2

Automatic Voltage Regulation

LED Display

1PH Input/1PH Output

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

Mounting: Surface

Color: Gray

Fax: 1-903-498-3364

E-mail: [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com)

**The EXP-VFD-1P-220.240-1HP-7A-DCM from Larson Electronics is an Explosion Proof Single-Phase Input, Single-Phase Output Variable Frequency Drive that is suitable for improving AC motor performance in industrial operations. This fan-cooled unit features single phase 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 7 amps and an operating frequency range of 0 to 3000 Hz with 1 horsepower.**

The EXP-VFD-1P-220.240-1HP-7A-DCM offers accurate AC motor control in flammable work sites and industrial facilities. This 1-HP unit is compatible with single-phase 220-240V AC input/output voltage. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the device provides an output current of 7 amps and an operating frequency range of 0 to 3000 Hz.

The EXP-VFD-1P-220.240-1HP-7A-DCM is designed for indoor applications and operating temperatures ranging between -10°C to +40°C. Rated for use in Class I, Divisions 1 & 2 and Class II, Divisions 1 & 2 hazardous locations, 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 VFD on compatible surfaces. This device measures 12.00" x 12.00" x 10.00".

**Applications:** Speed control of AC motors, industrial machines, large compressors, energy savings and more within Class I & 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](mailto:sales@larsonelectronics.com) for more information about our custom options tailored to meet your specific industry needs.

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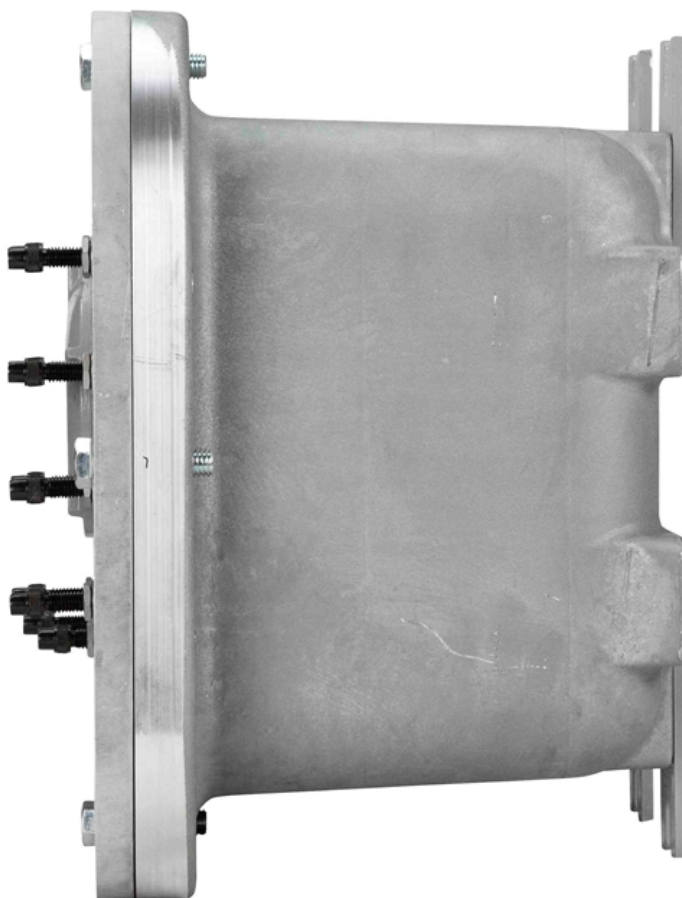


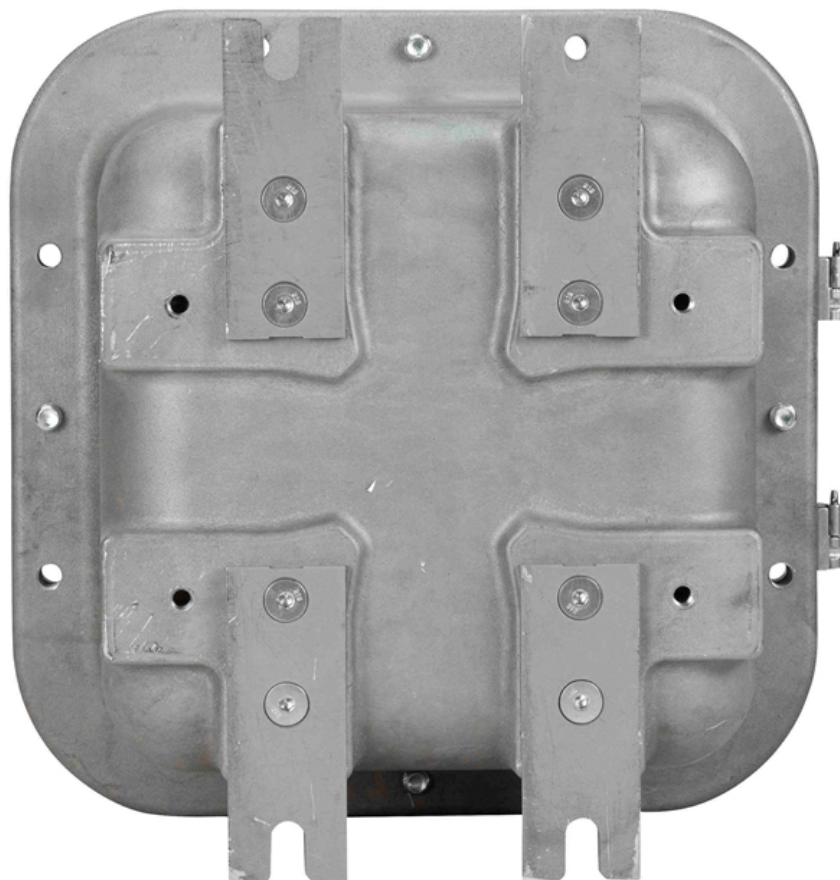
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## Frequently Asked Questions (FAQ)











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**Product ID: 224360**

**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](#)
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