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VFD-13.2KV-3P-1200HP-N12

1200 HP Variable Frequency Device - 13200 V AC Input - 4160 V AC Output 3PH - 127 Amps - IP54

Product ID: 314881



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-13.2KV-3P-1200HP-N12 Variable Frequency Device

Unit Type: Variable Frequency Device
Dimensions: W4500 x D1525 x H2930 mm
Weight:
Input Voltage: 13200V AC 3PH
Output Voltage: 4160V AC 3PH
Output Current: 127A
Operating Frequency: 0 - 120 Hz
Switching Frequency: 2 - 8 kHz
Nominal Switching Frequency: 2.5 kHz
HP: 1200
KVA: 913.5
Digital Inputs: 4 Inputs
Digital Outputs: 4 Outputs
Analog Input/Output: 4 Inputs, 4 Outputs
Insulation Resistance: > 1 MOhm 500 V DC for 1 minute to earth
Noise Level:<85 dB 86/188/EEC
Communication Protocol: PROFIBUS-DP
Communication Interface: RS-232/422/485
Operating Position: Vertical +/- 10 Degree
Application: Cane Mill/Fan
Associated Engine: 1200 HP/1800 RPM/4.160V
Integrated Phase Shifter transformer: Dry type VPI (Pressure Impregnation Empty)
Refrigeration Type: Forced Ventilation
Minimum Number of Pulses: 18

Features/Ratings

IP00 IEC 61800-5-1
IP00 IEC 60529
Forced Convection Cooling
16 Preset Speeds
Integrated Filter EN/IEC 61800-3 Cat. C3
IP54/NEMA 12
EN/IEC 61800-3
EN/IEC 61800-3 environment 1 Cat. C3 & 2 Cat. C3
UL 508C
EN/IEC 61800-5-1
IEC 61000-3-12
IEC 60721-3
IEC 61508
IEC 13849-1
ATEX zone 2/22
CSA
UL
CE

Technology: PWM

Power factor: 0.98

Minimum Efficiency with Integrated Transformer: 96 %

Front Control Panel: Yes

Motor Winding Temperature Monitoring: Yes

Removable Filters in Operation: Yes

Tropicalized Control cards: Yes

Minimum Protections: Overcurrent, Short Circuit Between Phases, Short Circuit Between Phase and Ground, Input Phase Loss, Output Phase Loss, Motor Overload, Overvoltage, Undervoltage, Overspeed, IGBT Overtemperature, Heat Sink Overtemperature, Other Faults Internal

Commissioning and Training: Yes

Connection Planes: Yes

Operation and Maintenance Manual: Yes

List of Critical Spare Parts: Yes

THDI: <= 48 % full load IEC 61000-3-12

Pollution Degree: 2 EN/IEC 61800-5-1

Vibration Resistance: 1.5 mm peak to peak 2...13 Hz IEC 60068-2-6 1 gn 13...200 Hz IEC 60068-2-6

Shock Resistance: 15 gn 11 ms IEC 60068-2-27

Relative Humidity: 5...95 % without condensation IEC 60068-2-3

Operating Altitude: 1000...4800 m with current derating 1 % per 100 m <= 3280.84 ft (1000 m) without derating

Chemical Pollution Resistance: Class 3C3 EN/IEC 60721-3-3

Dust Pollution Resistance: Class 3S3 EN/IEC 60721-3-3

Integrated Communications: ModBus Serial, ModBus TCP, Ethernet

Operating Temp: –15°C to +50°C

Materials: -

Mounting: Surface

Color: Gray

Special Orders - Special Requirements
Contact us for special requirements

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Made in the USA

The Larson Electronics VFD-13.2KV-3P-1200HP-N12 Variable Frequency Drive is suitable for improving AC motor performance in industrial operations. This fan-cooled unit features three-phase 13200V AC input voltage and 4160V AC output voltage compatibility (127-amp output current). The IP54 rated device supports four digital inputs, four analog outputs, four analog inputs.

The VFD-13.2KV-3P-1200HP-N12 offers accurate AC motor control in industrial facilities. This unit is compatible with three-phase 13200V AC input voltage and 4160V AC output. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the device provides an output current of 127 amps.

This VFD comes with several features to improve motor control. The unit comes with seven preset speeds and three critical speed lockout bands. Operators can set ramp to stop or coast to stop options. For fault functions, the VFD offers the following pre-programmed features: AI (1,2 loss), encoder error, panel loss, assistant external fault, motor thermal protection, stall protection, underload, motor phase loss, ground fault and communications fault. The unit also comes with standard pre-programmed safety features: safe torque off motor and off drive, motor phase break motor and drive, overheating, short-circuit, overspeed, overvoltage, overload, phase loss, undervoltage, overcurrent, and thermal protection of the motor and drive. The motor control profile includes optimized torque mode, constant torque standard and variable torque standard, with a permanent magnetic motor, PROFIBUS-DP Communication Protocol, RS-232/422/485 Communication Interface.

The VFD-13.2KV-3P-1200HP-N12 is protected by a IP54 rated enclosure and may be mounted on compatible surfaces. This device measures W4500 x D1525 x H2930 mm.

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)