

MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1

1000 KVA Solid-State Frequency Converter - 480V/60 Hz Input to 400V/50 Hz Output - Floor Mount

Product ID: 325584

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1

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.

MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1 Frequency Converter

Unit Type: Solid-State Static Frequency Converter

Dimensions: 192.91"L x 62.99"W x 81.89"H

Weight: 9,920.8 lbs

Rated Input Voltage: 480V +/- 10% 3PH Delta, 3P3W+G

Rated Input Frequency: 60 Hz

Power Factor: 0.99

Capacity: 1000 kVA

Rated Output Voltage: 400V adjustable (0-520V) 3PH+N +/- 1%, 3P3W+G

Rated Output Frequency: 50 Hz adjustable (40-120Hz) +/- 0.01%

Input Circuit Breaker: 1,200A

Output Circuit Breaker: 1,500A

Distribution Circuit Breaker: 3P, 650A; 3P, 30A

Circuit Breaker Dimensions: 12.20" x 12.20" x 72.23"

Rectification: IGBT

Efficiency Ratio: Up to 95%

Load Stabilization Rate: < +/- 1%

Frequency Stability: < +/- 0.01%

Harmonic Distortion: Pure Sine Wave < 2%

Output Waveform: Pure Sine Wave

Overload: 150% for 5 sec.

Features/Ratings

NRTL Listed to UL 508A

Advance Microprocessor Control

True Online Double Conversion

Smart Fan Control

Low Input THDi < 2%

Total Harmonic Distortion (THD): < 2% (Linear load)

Efficiency: Up to 95%

Dynamic Response (0 to 100% load): 5%, ≤ 50ms

Display: LCD + 4-digit Meters (Digital Frequency Meter – Resolution 0.1Hz; Digital Voltage Meter – Resolution 0.1V; Digital Ammeter – Resolution 0.1A; Digital Watt Meter – Resolution 0.1W)

Running Mode: Working continuously

Electrical Insulation Properties: 2 kV, 1 Minute

Cooling Method: Fan-cooled

Input Termination: (12) Terminal Lugs

Input Grounding: (2) Ground Lugs

Output Termination: (12) Terminal Lugs

Output Grounding: (2) Ground Lugs

Short-circuit Protection: No automatic recovery, need to restart the machine

Other Protections: Overload, Short circuit, Over Temperature, Instant Power Failure Protection, Alarm

Enclosure Protection Class: IP20

Enclosure: Floor Mounted, Complies with NEMA 250

Altitude: ≤ 6,600ft Above Sea Level

Noise Level: ≤150 dBA at 3.3 feet

Operating Temp. Range: -15°C to +55°C

Relative Humidity: 0-95% (Non-condensation)

Mounting: Floor Mounted

Color: ANSI 49 Gray or ANSI 61 Gray

Special Orders - Special Requirements

Contact us for special requirements

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The MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1 from Larson Electronics is a Solid-State Frequency Converter that is designed for voltage and frequency rectification in industrial locations. This 1000 kVA static converter comes with an input voltage/frequency of 480 V Delta three-phase 60 Hz and an output voltage/frequency of 400 V Delta three-phase 50 Hz. This unit is floor mounted.

The MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1 can be used to accurately convert frequencies in industrial sites. This 1000 kVA unit offers three-phase 480 V, 60 Hz on the input side and three-phase 400 V, 50 Hz on the output side. During operation, rectification is completed via IGBT. The static frequency converter provides robust microprocessor control, true online double conversion, and active input power factor correction.

This solid-state frequency converter is equipped with several protective features, including overload, short circuit, over temp, instant power failure connection and alarm. For efficient operation, the unit features smart fan control and ultra high efficiency (98% in Smart Eco Mode). Operators are provided access to a panel, which houses various controls for meters. Available meter components include digital frequency meter, digital voltage meter, digital ammeter, and digital watt meter.

Mounting: The MPD-IND-SFC-3P-1000KVA-480V-60HZ-400V-50HZ-M1 is secured inside a fixed enclosure to be floor mounted in the work site.

Applications: Industrial facilities, laboratories, air compressor testing, power supply testing, motor equipment testing, quality assurance, lighting systems, 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)

There are no Faqs



Export Control Classification Number (ECCN): EAR99



Links (Click on the below items to view):

- **Dimensional Drawing 2D**(<https://www.larsonelectronics.com/images/product/DimensionalDrawing/325584.PDF>)
- **Wiring Diagram**(<https://www.larsonelectronics.com/images/product/WiringDiagram/325584.PDF>)
- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/325584.JPG>)
- **Video1**(<https://www.youtube.com/watch?v=jVnTdFuOqt0>)
- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate**(<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
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