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

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IND-SFC-3P-500KVA-480D-60HZ-400Y.231-50HZ-M2

500 KVA Solid-State Frequency Converter - 480V Delta 60 Hz Input to 400Y/231 Wye-N 50 Hz Output - Mobile w/ Wheels - w/ Air Filtration, Prim/Sec MCCB

Product ID: 322380

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



Image: IND-SFC-3P-500KVA-480D-60HZ-400Y.231-50HZ-M2

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.

IND-SFC-3P-500KVA-480D-60HZ-400Y.231-50HZ-M2 Frequency Converter

Unit Type: Solid-State Static Frequency Converter
Dimensions: 44"-W x 63"-D x 71"-H
Weight: 4,409 lb
Input Voltage: 480 V Delta 3PH +/- 5%, 3P3W+G
Input Frequency: 60 Hz +/- 5%
Capacity: 500 KVA - 100% Load
Output Voltage: 400Y/231 V Wye-N 3PH +/- 2%, 3P4W+G
Output Frequency: 50 Hz +/- 5%
Amps: 600A Input/720A Output
Rectification: IGBT
SCCR: 100,000 kA
Primary Main Breaker: 800A 3P 480V
Secondary Main Breaker: 800A 3P 480V
Secondary Branch Breaker: 630A 3P 480V
Ground Bond Size: 1/0
Efficiency Ratio: Up to 95%
Load Stabilization Rate: < +/- 1%
Frequency Stability: < +/- 0.01%
Harmonic Distortion: Pure Sine Wave < 2%
Air Filtration: Included

Features/Ratings

NRTL Listed to UL 508A
Advanced Microprocessor Control
True Online Double Conversion
Smart Fan Control
Low Input THDi < 3%

Cooling Fans: Included

Heat Rejection: Air Cooled via Electric Fans

Bonding/Grounding: Included

4-digit Meters: Digital Frequency Meter- Resolution 0.1Hz/Step; Digital Voltage Meter- Resolution 0.1V; Digital Ammeter- Resolution 0.1A; Digital Watt Meter- Resolution 0.1W

Communication Protocol: Modbus, RS-485

Protection: Overload, Overcurrent, Short Circuit (LSIG), Over Temp, Instant Power Failure Protection, Alarm

Over current Protection Dimensions: 8" x 12" x 16"

Operating Temp: 0-40°C

Humidity: 0-90% (Non-condensation)

Mounting: Mobile Cart w/ Wheels

Minimum Clearance: 6" for Air Circulation, Access to Front of Converter for Wiring and Control Panel Access

Physical Footprint: See Dimensional Drawings

Color: Tan

Special Orders - Special Requirements

Contact us for special requirements

Intl: 1-903-270-1187

Toll Free: 1-800-369-6671

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The IND-SFC-3P-500KVA-480D-60HZ-400Y.231-50HZ-M2 from Larson Electronics is a Solid-State Frequency Converter that is designed for voltage and frequency rectification in industrial locations. The 500 KVA static converter comes with an input voltage/frequency of 480 V Delta three-phase 60 Hz and an output voltage/frequency of 400Y/231 V Wye-N three-phase 50 Hz. This unit is mobile via four wheels at the bottom of the enclosure.

The IND-SFC-3P-500KVA-480D-60HZ-400Y.231-50HZ-M2 can be used to accurately convert voltages and frequencies in industrial sites. This 500 KVA unit offers 480 V Delta three-phase 60 Hz on the input side and 400Y/231 V Wye-N 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 IND-SFC-3P-500KVA-480D-60HZ-400Y.231-50HZ-M2 is secured inside a mobile enclosure with wheels for seamless mobility around 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/322380.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/322380.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/322380.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/322380.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/322380.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/322380.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/322380.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/322380.JPG)
- **HigResPic6**(https://www.larsonelectronics.com/images/product/HigResPic6/322380.JPG)
- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/322380.JPG)
- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/322380.JPG)
- **Video1**(https://www.youtube.com/watch?v=nmrVQAszcQw)
- **Video2**(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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