

IND-SFC-3P-600KVA-400V-50HZ-208Y.120-60HZ

600 KVA Solid-State Frequency Converter System – 400V 50 Hz Input to 208Y/120V 60 Hz Output – Containerized, Non-Mobile

Product ID: 330483



Image: IND-SFC-3P-600KVA-400V-50HZ-208Y.120-60HZ

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-600KVA-400V-50HZ-208Y.120-60HZ Frequency Converter

Unit Type: Solid-state Static Frequency Converter

Dimensions: Approx. 8000 × 2500 × 2900 mm (Container)

Weight: Approx. 4684.82 lbs (Converter Assembly)

Input Voltage: 400 V AC, 3-Phase, 3P3W+G

Input Frequency: 50 Hz +/- 5%

Capacity: 600 kVA / 480 kW – Continuous Duty

Output Voltage: 208 V (Phase-to-Phase) / 120 V (Phase-to-Neutral), 3-Phase, 4W+G

Output Frequency: 60 Hz

Rectification: IGBT

Efficiency Ratio: Up to 95%

Load Stabilization Rate: < +/- 1%

Frequency Stability: < +/- 0.01%

Harmonic Distortion: Pure Sine Wave < 2%

Input Circuit Breaker: (1) 400V, 3-Pole, Sized for 600 kVA System

Input Termination: (12) Terminal Lugs

Input Grounding: (2) Ground Lugs

Output Circuit Breaker: (1) 208Y/120V, 4-Pole, Sized for 600 kVA System

Output Termination: (12) Terminal Lugs

Output Grounding: (2) Ground Lugs

Features/Ratings

NRTL Listed to UL 508A

Advanced Microprocessor Control

True Online Double Conversion

Smart Fan Control

Low Input THDi < 3%

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
Protection: Overload, Short Circuit, Over Temp, Instant Power Failure Protection, Alarm

Control Cabinet: IP43 Rated

Control Cabinet Heater: Included

I/O Interface: I/O Card with Six (6) Relay Outputs

Meters: Digital Frequency Meter (0.1 Hz resolution), Digital Voltage Meter (0.1 V resolution), Digital Ammeter (0.1 A resolution), Digital Watt Meter (0.1 W resolution)

Switchgear Type: MGS Switchgear – Integrated

Converter Type: MGS Frequency Converter

Operating Temp: 0-40C

Humidity: 0-90% (Non-condensation)

Mounting: Floor Mounted Inside Container (Non-Mobile)

Enclosure Type: Containerized Outdoor Enclosure

Corrosion Protection: C5-M Marine Grade

Insulation: 80 mm Rock Wool

Ventilation:: Weatherproof Grilles with Animal Protection, Motorized Louver Inlet/Outlet Dampers, Winter Recirculation Flap

Fire & Safety: CO₂ Fire Extinguisher, Emergency Lighting, Hearing Protection

Electrical Accessories: Internal Power and Control Cabling, Lighting and Service Sockets, Standstill Heating

Color: Tan

Special Orders - Special Requirements

Contact us for special requirements

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The IND-SFC-3P-600KVA-400V-50HZ-208Y.120-60HZ from Larson Electronics is a solid-state Frequency Converter System designed for voltage and frequency conversion in industrial and utility environments. This 600 kVA static frequency converter system features an input voltage/frequency of 400V three-phase 50 Hz and provides an output voltage/frequency of 208Y/120V three-phase 60 Hz, making it suitable for applications requiring reliable 50 Hz to 60 Hz power conversion.

The IND-SFC-3P-600KVA-400V-50HZ-208Y.120-60HZ is engineered to accurately convert power in demanding industrial installations. This 600 kVA / 480 kW unit accepts 400V three-phase 50 Hz input power and delivers 208 V phase-to-phase / 120 V phase-to-neutral at 60 Hz on the output side. During operation, rectification is accomplished using IGBT technology. The system offers advanced microprocessor control, true online double conversion, and low input harmonic distortion for stable and efficient performance.

This solid-state frequency converter system is equipped with multiple protective features, including overload protection, short circuit protection, over-temperature protection, instant power failure protection, and alarm notification. For efficient operation, the system incorporates smart fan control and high-efficiency power conversion. Operators are provided access to a control cabinet housing system controls and digital metering, including digital frequency, voltage, current, and power meters.

Mounting: The IND-SFC-3P-600KVA-400V-50HZ-208Y.120-60HZ is floor mounted inside a non-mobile, containerized outdoor enclosure, complete with corrosion protection, insulation, ventilation, and integrated safety features.

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