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MT-GPU-R7-3P-YE-180KVA-GU.SLE-Z6-HB-AZ-1P-CP-Z-IP21-M1

180 kVA 3PH Frequency Converter For Ground Power Units, 480Y/277 Wye-N Primary, 200Y/115V Grounded Wye - 24VDC Dual Secondary, Aluminum, IP21, 60 Hz

Product ID: 306045



Image: MT-GPU-R7-3P-YE-180KVA-GU.SLE-Z6-HB-AZ-1P-CP-Z-IP21-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.

MT-GPU-R7-3P-YE-180KVA-GU.SLE-Z6-HB-AZ-1P-CP-Z-IP21-M1 Frequency Converter Transformer for Ground Power Units

Transformer Type: Frequency Converter Transformer
Transformer Configuration: Dry Type
Application: Used for aircraft AC Power Supply
Phase: Three Phase
Input Frequency: 60Hz
Input Voltage: 480Y/277 Vac (L-L-N), 4-Wire
Rated Input Current: 240A
Input Connection: Wye-N
Capacity: 180 KVA
Output #1 Frequency: 400 Hz+/-0.1%
Output #1 Voltage: 200Y/115
Output #1 Connection: Grounded Wye, 3-Wire
Output #2 Voltage: 24 VDC
Rated Output #2 Current: 600A
Output #2 Connection: DC
Vector Group: Dyn1(II6)
Voltage Stability: +/- 1% FS
Frequency Stability: +/- 0.01% FS
Display mode: Digital display: Voltage, Current, Frequency, Power. Start / Stop, On / Off each output
Phase difference: 120°±2° (1/3 imbalance loads)
Line drop compensation: 1~10V
Output VTHD: < 2%
Modulation: IGBT SPWM 12 Pulse

Standards/Approvals

NRTL Listed for United State
NRTL Listed for Canada
RoHS
IP21 Indoor/Outdoor Steel Enclosure
Meets or Exceeds NEMA ST-20 Standards
Frequency converter Transformer
Dry Type Transformer
Built to UL-50 Standards
Seismic Qualified for Earthquake Loads
CE Certified
MIL-STD-704F
BS 2G 219
EN1915-1&2
EN2282
EN61000-6-2
EN61000-6-4
EN61558-2-6
ISO 6858
SAE ARP 5015
DFS400

Features:

Protection: Over voltage, over current, over load, short circuit, wrong phase sequence, over heat
Communication Interface: Modbus Protocol. RS232 and 485 communication ports
Input Cables: Included, 2/0 AWG, 4-Wire, 50 ft, 237 A Rating
Output Cables: Included, 2/0 AWG, 50 ft Aircraft Cable
Tap Changer: N/A
Tap Qty: N/A
Tap %: N/A
Efficiency : ≥93% at full load
Core Material: Grain Oriented
Winding Material: Aluminum
Protection of Windings: Resin Impregnation & Final Black Paint Coating
Primary Termination (Std): Bus Bars, (3 x 3) AL Busbars 15x3 mm with 1 hole 7mm
Secondary Termination (Std): Bus Bars, (3+1) AL Busbars 25x5 with 1 hole 9mm
Termination Access: Front Access Cover
Mounting: Floor
Cooling: Two-Stage Fans
Insulation: 220°C
Temperature Rise: 150°C
Working Temperature: -25 to 50□
Humidity: 10-95% non condensing
Sound Level: □ 60dB,at 1m
Housing Material: Sheet Steel
Enclosure Rating: IP21
Finish: RAL7035 Grey
Dimensions: 59.06"-W x 36.61"-D x 35.43"-H
Weight: 1873.93 lbs
Shipping Method: Pallet Freight - LTL
Shipping Weight:
Shipping Dimensions:

Fork Pockets
Draw Bar (Towable – Pintle Ring)
Pneumatic Tires / Wheels
D-Rings for Tie Down. Four total with one on each corner

Overload:
125% For 10 min.
150% For 60 sec.
400% For 1 sec.

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
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E-mail: sales@larsonelectronics.com

The MT-GPU-R7-3P-YE-180KVA-GU.SLE-Z6-HB-AZ-1P-CP-Z-IP21-M1 Three Phase 480Y/277 Wye-N primary to 200Y/115V Grounded Wye - 24VDC dual secondary, 180 KVA Frequency Converter Transformer for Ground Power Units from Larson Electronics is powerful, reliable, and designed with the environment in mind. Suitable for both indoor and outdoor applications, the MT-GPU-R7-3P-YE-180KVA-GU.SLE-Z6-HB-AZ-1P-CP-Z-IP21-M1 provides increased reliability and protection against critical equipment failures.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*

Transformer Features: The MT-GPU-R7-3P-YE-180KVA-GU.SLE-Z6-HB-AZ-1P-CP-Z-IP21-M1 Frequency Converter transformer is a three phase transformer with a 180 KVA capacity rating. This inverter transformer is configured with an input voltage of 480Y/277 Wye-N 3-Phase AC on the primary side and a dual output voltages of 200Y/115 Grounded Wye 3-Phase AC and 24VDC on the secondary side. Featuring robust construction, this unit's cores are manufactured with non-aging, cold-rolled silicon steel laminations using state of the art technology.

This unit boasts a low cost of ownership and is highly energy efficient. Lower heat emissions mean less cooling is needed as well. The standard IP21 enclosure makes the unit suitable for both indoor and outdoor applications and is designed to be floor mounted. Wall mount brackets or additional mounting accessories can be purchased separately. This 180 KVA frequency converter transformer features 220°C insulation with a 150°C temperature rise.

Benefits: The MT-GPU-R7-3P-YE-180KVA-GU.SLE-Z6-HB-AZ-1P-CP-Z-IP21-M1 480Y/277 to 200Y/115 - 24VDC general purpose transformer offers many benefits to the consumer. Precision cut aluminum transformer winding material help to improve performance. The close tolerances used during manufacturing also eliminates burrs which hinder performance. Each core is specially coated to prevent the ingress of moisture and are electrically balanced to minimize axial forces during short circuit situations.

This transformer provides owners with significant energy savings as well as offering environmental benefits. Higher efficiency not only extends the life of the transformer, but also turn into cost savings for owners in the form of lower energy bills and decreased cost of ownership. Integrated floor and wall mounting brackets make installation fast and easy and the offset outward facing floor installation holes allow for easy power tool access.

The MT-GPU series of frequency converter transformers from Larson Electronics meet or exceed efficiency standards for United States and Canada. This results is overall lower cost of ownership throughout the life of the transformer.

Safety: The MT-GPU-R7-3P-YE-180KVA-GU.SLE-Z6-HB-AZ-1P-CP-Z-IP21-M1 is an inverter transformer which means that it provides operators with an increased level of protection against electric shock and injury. An inverter transformer can also suppress electrical noise in sensitive devices and transfer power between two circuits which must not be connected. The MT-GPU-R7-3P-YE-180KVA-GU.SLE-Z6-HB-AZ-1P-CP-Z-IP21-M1 achieves these safety features by separating or "isolating" the powered device from the power source and insulation between the primary and secondary power sources.

Applications: Used for aircraft AC Power Supply

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

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Frequently Asked Questions (FAQ)

There are no Faqs