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MT-PDT-VPM-GZ-R7-3P-GMP-600KVA-A6-HZ-CZ-1Z-ZZ-Z-N3R-M1

600 KVA Vacuum Pressure Impregnated Grounding Transformer, 13800V Zig-Zag, AA Cooling Class, R Insulation Class, VPI

Product ID: 314752

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-PDT-VPM-GZ-R7-3P-GMP-600KVA-A6-HZ-CZ-1Z-ZZ-Z-N3R-M1 Vacuum Pressure Impregnated Grounding Transformer

Transformer Type: Vacuum Pressure Impregnated (VPI) Transformer
Transformer Configuration: Dry Type Grounding Transformer, Ventilated
Phase: Three Phase
Capacity: 600 KVA
Vector Group: Zn
Primary Voltage: 13800V
Primary Voltage Class: 15 kV Class
Primary Phasor: Zig-Zag
Primary BIL: 95 KV
Secondary Voltage: N/A
Secondary Voltage Class: N/A
Secondary Phasor: N/A
Secondary BIL: N/A
Frequency: 60 Hz
Temperature Rise: 150°C

Cooling Class: AA

Forced Air (Fans): None

Insulation Class: Class R (220°C)
Tap Changer: 5-Position De-energized Tap Changer
Tap Qty: (2) FCAN Above Taps, (2) FCBN Below Taps
Tap %: 2.5%

Tap Changer Switch Location: -

Zero Sequence Impedance (Z_0): 19 /Ph @ 170oC

Zero Sequence Resistance (R_0): 1.9 @ 25oC

Continuous Phase Current: 23.33 A

Ratings

NRTL Listed for United States and Canada
Complies with ANSI / IEEE C57.12.00
Complies with ANSI / IEEE C57.12.01
Complies with ANSI / IEEE C57 12.35
Complies with ANSI / IEEE C57.12.59
Complies with ANSI / IEEE C57.12.70
Meets/Exceeds DOE 2016 Efficiency Ratings
Meets/Exceeds CSA Efficiency Ratings
Meets or Exceeds NEMA ST-20 Standards
NEMA 3R Indoor/Outdoor Steel Enclosure
Seismic Qualified for Earthquake Loads
RoHS Certified
CE Certified
Made in USA
Efficiency %: 99.20%
Based on transformer operating at 50% of nameplate base kVA.

Load Losses at 145°C Reference Temp.
No Load Loss (in watts): +/- 1,500W
Full Load Loss(in watts): +/- 9,300W
Total Load Loss (in watts): +/- 10,800W

Note: ***Losses offered are typical only, not guaranteed***

Continuous Neutral Current: 70 A

Short Circuit Neutral Current: 500 A For 2 Seconds

Primary Connection Type: 0.25" x 1.5" Copper 2-Hole Pad, 0.56" Hole Diameter
Primary Surge Arrestors: N/A
Primary Surge Arrestor Voltage Rating: N/A
Primary Surge Arrestor MCOV Rating: N/A
Primary Over Current Protection (OCP): N/A
Primary Over Current Protection Method: N/A
Primary Grounding Provisions: N/A
Secondary Connection Type: N/A
Secondary Over Current Protection (OCP): N/A
Secondary Grounding Provisions: N/A
Metering Current Transformer (CT): N/A
Metering Panel: N/A
Auxiliary Control Panel: N/A

Grounding Pads: 0.25" x 2" Copper Bus

Load Break Switch: N/A
Load Break Switch Qty: N/A
Load Break Switch Location: N/A
Efficiency Standard(s): DOE 2016, IEEE, ANSI

K-Factor Rating (Harmonic Mitigation): K-1 (Standard)

Temperature Sensors in Coil: Included
Temperature Gauge: Included
Seismic Bracing: N/A
Weather Shield: N/A
Space Heaters: N/A
Winding Material: Copper
Ambient Temperature Rating: 40°C
Sound Level: 58 dBA
Elevation (Altitude) Rating: 3300ft (1000 meters) Above Sea Level

Vibration Pads: Included, Internal

Enclosure Material: Coated Steel

Enclosure Rating: NEMA 3R Weatherproof Mild Steel Enclosure

Nameplate Material: Stainless Steel

System Form Factor: N/A

Paint Type: Epoxy Paint
Finish: ANSI 61 Grey, Powder Coated

Mount: Pad Mount / Floor Mount

Dimensions: 48"L x 90"W x 91"H

Weight: 4,100 lbs

*Please note that numbers are approximate and subject to change

Special Orders - Special Requirements
Contact us for special requirements

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The MT-PDT-VPM-GZ-R7-3P-GMP-600KVA-A6-HZ-CZ-1Z-ZZ-Z-N3R-M1 Vacuum Pressure Impregnated Grounding Transformer from Larson Electronics is powerful, reliable, and designed with the environment in mind. Suitable for both indoor and outdoor applications, the MT-PDT-VPM-GZ-R7-3P-GMP-600KVA-A6-HZ-CZ-1Z-ZZ-Z-N3R-M1 provides increased reliablity and protection against critical equipment failures. The lower operating costs, lower heat emissions, and lower cost of ownership make this transformer ideal for a wide range of applications and businesses.
****PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS****
Transformer Features: With a transformer rating of 600 KVA, the MT-PDT-VPM-GZ-R7-3P-GMP-600KVA-A6-HZ-CZ-1Z-ZZ-Z-N3R-M1 grounding transformer generates a neutral. On an ungrounded three-phase system, this type of transformer creates a grounded neutral connection which provides a path for ground-fault zero sequence currents. This zig zag transformer is a three phase unit with a primary voltage of 13800V Zig-Zag. Featuring robust construction, this unit's cores are manufactured with non-aging, cold-rolled silicon steel laminations using state of the art technology.
The MT-PDT-VPM-GZ-R7-3P-GMP-600KVA-A6-HZ-CZ-1Z-ZZ-Z-N3R-M1 does not

have fans or mounting provision for fans.
Transformer Efficiency: The insulation class R transformer meets standard efficiency requirements. High efficiency makes this unit suitable for use in electrical rooms, air conditioned spaces in buildings, underground vaults and similar locations, in addition to outdoor areas.
Temperature Sensor: The MT-PDT-VPM-GZ-R7-3P-GMP-600KVA-A6-HZ-CZ-1Z-ZZ-Z-N3R-M1 is equipped with temperature sensors inside the system for controls and monitoring. A monitoring service is not included with the transformer.
Temperature Gauge: This transformer comes with a temperature gauge.
Load Break Switch: This VPI transformer does not include a load break switch. We can add a load break switch at an additional cost.
Surge Arresters: This transformer does not include surge arresters. Designed for over-voltage and transient voltage protection, the components prevent damage caused by lightning, internal switching or voltage surges. We can offer models without surge arresters that have mounting provisions for customer-provided surge arresters.
Control Transformer: This VPI transformer does not include a control transformer. We can add a control transformer for operating equipment at an additional cost.
Seismic Bracing: This system does not include seismic bracing. We can add seismic bracing for added protection in areas prone to earthquakes at an additional cost.
Weather Shield: This transformer does not include a weather shield. We can add a weather shield for protection in outdoor areas, humid environments and rodents at an additional cost.
Space Heaters: This system does not include a space heater. We can add a space heater for preventing condensation during extended shutdown at an additional cost.
Enclosure Design: This VPI grounding transformer is protected by a steel housing. The enclosure carries a NEMA 3R rating for protection from exposure to moisture, rain, dust and debris.
Mount: The VPI grounding unit is mounted atop a skid plate base that allows this transformer to easily be moved from one location to another using a forklift. The skid platform is designed for serious use and is ruggedly constructed to withstand demanding conditions and heavy duty industrial applications. The industrial grade skid platform can be modified to meet the needs of job-site requirements.
Benefits: The MT-PDT-VPM-GZ-R7-3P-GMP-600KVA-A6-HZ-CZ-1Z-ZZ-Z-N3R-M1 transformer offers many benefits to consumers. 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 turns into cost savings for owners in the form of lower energy bills and decreased cost of ownership.
Applications: Grounding transformer purposes.
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)