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**Product ID: 310059**

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

**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-R7-3P-DMF-250KVA-YE-X6-FZ-CZ-1C-ZZ-Z-N3R-M1 Vacuum Pressure Impregnated Transformer**

**Transformer Type:** Vacuum Pressure Impregnated (VPI) Transformer
**Transformer Configuration:** Dry Type, Ventilated
**Phase:** Three Phase
**Capacity:** 250 KVA
**Vector Group: Dyn11**
**Primary Voltage:** 24940V
**Primary Voltage Class:** 25 kV Class
**Primary Phasor:** Delta
**Primary BIL:** 125 KV
**Secondary Voltage:** 480/277V
**Secondary Voltage Class:** 1.2 kV Class
**Secondary Phasor:** Wye-N
**Secondary BIL:** 30 KV
**Frequency:** 60 Hz
**Temperature Rise:** 115°C
**Cooling:** ANN
**Forced Air (Fans):** None
**Insulation Class:** Class H
**Tap Changer:** 7-Position Tap Changer
**Tap Qty:** (2) FCAN Above, (4) FCBN Below
**Tap %:** 2.5%

**Tap Changer Switch Location:** HV Side

**Impedance (at 120°C):** 4%
**Primary Connection Type:** Terminal Lugs, Bolted
**Primary Surge Arrestors:** N/A
**Primary Surge Arrestor Voltage Rating:** N/A
**Primary Surge Arrestor MCOV Rating:** N/A
**Primary Over Current Protection (OCP):** Included
**Primary Over Current Protection Method:** Fused
**Primary Grounding Provisions:** Included, Ground Bar Kit
**Secondary Connection Type:** Terminal Lugs, Bolted
**Secondary Over Current Protection (OCP):** Included

**Secondary Over Current Protection Method:** Fused

**Secondary Grounding Provisions: Included, Ground Bar Kit**
**Metering Current Transformer (CT):** N/A
**Metering Panel:** N/A
**Auxiliary Control Panel :** N/A
**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), Complies with UL 1561

**Electrostatic Shield:** Included an Independent, Single, Full Width Copper Electrostatic Shield, With a Special Grounding Terminal
**Temperature Sensors in Coil:** Included

**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
Complied with NFPA 70
Complied with 10 CFR 431 DOE16 Efficiency Levels
UL Approved

**Efficiency %:** 98.90%
*Based on transformer operating at 50% of nameplate base kVA.*

**Load Losses at 145°C Reference Temp.**
**No Load Loss (in watts):** +/- 700W
**Full Load Loss(in watts):** +/- 2,900W
**Total Load Loss (in watts):** +/- 3,600W
**Note:** *Losses offered are typical only, not guaranteed*

**Temperature Gauge:** Included
**Seismic Bracing:** Included
**Weather Shield:** N/A
**Space Heaters:** N/A

**The MT-PDT-VPM-R7-3P-DMF-250KVA-YE-X6-FZ-CZ-1C-ZZ-Z-N3R-M1 Vacuum Pressure Impregnated Transformer from Larson Electronics converts three-phase 24940V Delta to three-phase 480/277 Wye-N. This power distribution unit provides operators the ability to safely tap into and distribute 250 KVA AC power from a variety of sources, such as direct grid power. The entire system is secured to a skid mount platform.**

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

**Transformer Features:** With a transformer rating of 250 KVA, the industrial dry type transformer features a primary voltage of three-phase 24940V AC Delta and a secondary voltage of three-phase 480/277 AC Wye-N. This transformer is equipped with a 7-position tap changer with +/- 2.5% taps (two FCAN above and four FCBN below) to allow small changes for voltage. The system has copper windings for high strength and electrical conductivity. This VPI transformer features minimized air gaps and voids in the insulation, leading to increased durability and thermal stability.

The MT-PDT-VPM-R7-3P-DMF-250KVA-YE-X6-FZ-CZ-1C-ZZ-Z-N3R-M1 does not have fans or mounting provision for fans.

**Transformer Efficiency:** The Class H transformer meets standard DOE 2016 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-R7-3P-DMF-250KVA-YE-X6-FZ-CZ-1C-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.

**Electrostatic Shield:** This transformer includes an electrostatic shield. We can add an electrostatic 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 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 power distribution 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-R7-3P-DMF-250KVA-YE-X6-FZ-CZ-1C-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:** General purposes, industrial sites, electrical rooms, underground vaults, manufacturing facilities, steel plants, offshore, commercial, military, processing plants, electric power distribution, utilities, public locations and more. 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)

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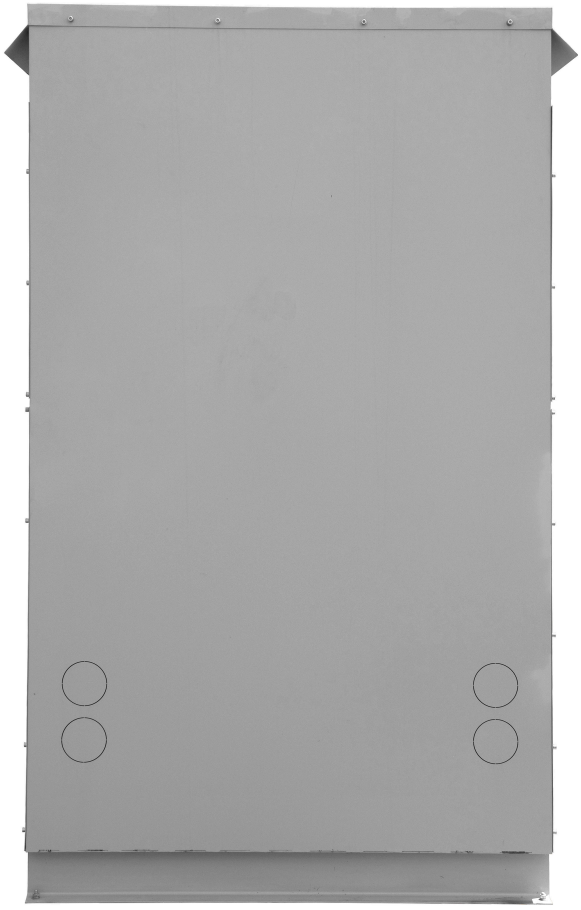
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**Export Control Classification Number (ECCN):** EAR99

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