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MT-PDT-VPE-R7-3P-GMQ-1MVA-YE-A6-DZ-CZ-2Z-ZZ-Z-N3R-M2

1 MVA Vacuum Pressure Encapsulated Transformer, 13200Y/7620 Grounded Wye Primary, 480Y/277 Wye-N Secondary, ANN, Class F, W/O Fans, VPE

Product ID: 313994

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-VPE-R7-3P-GMQ-1MVA-YE-A6-DZ-CZ-2Z-ZZ-Z-N3R-M2 Vacuum Pressure Impregnated Transformer

Transformer Type: Vacuum Pressure Encapsulated (VPE) Transformer
Transformer Configuration: Dry Type, Ventilated
Phase: Three Phase
Capacity: 1 MVA (1000 KVA)
Vector Group: YNyn0
Primary Voltage: 13200Y/7620V AC
Primary Voltage Class: 15 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 95 KV
Secondary Voltage: 480Y/277V AC
Secondary Voltage Class: 1.2 kV Class
Secondary Phasor: Wye-N
Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 80°C

Cooling: ANN

Forced Air (Fans): None

Insulation Class: Class F
Tap Changer: 5-Position De-Energized Tap Changer
Tap Qty: (2) FCAN Above, (2) FCBN Below
Tap %: 2.5%

Tap Changer Switch Location: HV Compartment

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
UL 1562 Listed
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): +/- 1,760W
Full Load Loss(in watts): +/- 11,400W
Total Load Loss (in watts): +/- 13,160W

Impedance: 5.75%
Primary Connection Type: Terminal Lugs in ATC
Primary Surge Arrestors: Included, (3) Distribution Class; Metal-oxide-varistor Type
Primary Surge Arrestor Voltage Rating: 15 kV
Primary Surge Arrestor MCOV Rating: 12.7 kV
Primary Over Current Protection (OCP): N/A
Primary Over Current Protection Method: N/A
Primary Grounding Provisions: N/A
Secondary Connection Type: Terminal Lugs in ATC
Secondary Over Current Protection (OCP): N/A
Secondary Grounding Provisions: Lugs
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
Grounding Pads: Included, (4) Stainless Steel Ground Connection Pads
Efficiency Standard(s): DOE 2016, IEEE, ANSI
K-Factor Rating (Harmonic Mitigation): K-1 (Standard)
Temperature Sensors in Coil: Included
Temperature Gauge: Included, w/ Alarm Contacts
Seismic Bracing: Included, Complies with ASCE/SEI 7
Weather Shield: Included
Space Heaters: N/A
Communication Network Support serial MS/TP and Ethernet IP communications, and able to communicate directly via RS-485 serial networks and Ethernet 10Base-T networks as a native device
Winding Material: Copper
Ambient Temperature Rating: 40°C
Sound Level: 58 dBA, Complies with NEMA TR-1
Elevation (Altitude) Rating: > 3300ft (1000 meters) Above Sea Level
Enclosure Material: Coated Steel
Enclosure Rating: NEMA 3R Weatherproof, Ventilated
System Form Factor: N/A
Paint Type: Epoxy Paint
Finish: ANSI 61 Grey
Mount: Pad Mount / Floor Mount
Dimensions: 64.96"L x 55.11"W x 70.86"H
Weight: 5,401 lbs
*Please note that numbers are approximate and subject to change

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

Factory Tests
Resistance measurements of all windings on rated voltage tap and at tap extremes
Turns ratio, polarity, and phase relation on rated voltage connection
Transformer no-load losses and excitation current at 100 percent of ratings
Impedance voltage and load loss at rated current and rated frequency on rated voltage connection and at tap extremes
Applied voltage and induced voltage tests
Partial discharge test
Leak test
Temperature rise test at minimum and maximum ratings
Impulse test
Insulation power factor test
Insulation resistance test
Audible sound level test
Short-circuit capability test
Operation of all devices

Special Orders - Special Requirements
Contact us for special requirements

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The MT-PDT-VPE-R7-3P-GMQ-1MVA-YE-A6-DZ-CZ-2Z-ZZ-Z-N3R-M2 Vacuum Pressure Encapsulated Transformer from Larson Electronics converts three-phase 13200Y/7620 Grounded Wye to three-phase 480Y/277 Wye-N. This power distribution unit provides operators the ability to safely tap into and distribute 1000 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 1000 KVA, the industrial dry type transformer features a primary voltage of three-phase 13200Y/7620 AC Grounded Wye and a secondary voltage of three-phase 480Y/277 AC Wye-N. This transformer is equipped with a 5-position tap changer with five, +/- 2.5% taps (two FCAN above and two FCBN below) to allow small changes for voltage. The system has copper windings for high strength and electrical conductivity. This VPE transformer features minimized air gaps and voids in the insulation, leading to increased durability and thermal stability.

The MT-PDT-VPE-R7-3P-GMQ-1MVA-YE-A6-DZ-CZ-2Z-ZZ-Z-N3R-M2 does not

have fans or mounting provision for fans.
Transformer Efficiency: The Class F 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-VPE-R7-3P-GMQ-1MVA-YE-A6-DZ-CZ-2Z-ZZ-Z-N3R-M2 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 VPE transformer does not include a load break switch. We can add a load break switch at an additional cost.
Surge Arresters: This transformer includes 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 VPE transformer does not include a control transformer. We can add a control transformer for operating equipment at an additional cost.
Seismic Bracing: This system includes seismic bracing.
Weather Shield: This transformer includes a weather shield.
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 VPE 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-VPE-R7-3P-GMQ-1MVA-YE-A6-DZ-CZ-2Z-ZZ-Z-N3R-M2 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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- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**