

MT-PDT-CRC-R7-1P-SE-1MVA-SMT-A6-FZ-AZ-1Z-ZZ-Z-N3R-M1

1 MVA Cast Resin Core Step-Up Transformer, 480V Primary, 12000V Secondary, Single Phase, ANN, Class H, W/O Fans

Product ID: 338359

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



Image: MT-PDT-CRC-R7-1P-SE-1MVA-SMT-A6-FZ-AZ-1Z-ZZ-Z-N3R-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-PDT-CRC-R7-1P-SE-1MVA-SMT-A6-FZ-AZ-1Z-ZZ-Z-N3R-M1 Cast Coil Resin Transformer

Transformer Type: Cast Resin Transformer (CRT)

Transformer Configuration: Dry Type, Ventilated

Phase: Single Phase

Capacity: 1 MVA (1000 KVA)

Vector Group: N/A (Single Phase)

Primary Voltage: 480V

Primary Voltage Class: 1.2 kV Clas

Primary Phasor: N/A

Primary BIL: 30 KV

Secondary Voltage: 12000V

Secondary Voltage Class: 15 kV Class

Secondary Phasor: Wye-N

Secondary BIL: 95 KV

Frequency: 60 Hz

Temperature Rise: 115°C

Cooling: ANN

Forced Air (Fans): None

Insulation Class: Class H

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

Efficiency %: 99.20%

Based on transformer operating at 50% of nameplate base kVA.

Load Losses at 145°C Reference Temp.

Tap Changer: 5-Position Tap Changer
Tap Qty: (2) FCAN Above, (2) FCBN Below
Tap %: 2.5%
Tap Changer Switch Location: HV Compartment
Impedance (at 120°C): 5.75% Typical
Primary Connection Type: Terminal Lugs
Primary Surge Arrestors: N/A
Primary Surge Arrestor Voltage Rating: N/A
Primary Surge Arrestor MCOV Rating: N/A
Primary Overcurrent Protection (OCP): N/A
Primary Overcurrent Protection Method: N/A
Primary Grounding Provisions: N/A
Secondary Connection Type: Terminal Lugs
Secondary Overcurrent Protection (OCP): N/A
Secondary Grounding Provisions: Lugs
Metering Current Transformer (CT): N/A
Metering Panel: N/A
Auxiliary Control Pane: : 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)
Temperature Sensors in Coil: Included
Temperature Gauge: Included
Seismic Bracing: Included
Weather Shield: N/A
Space Heaters: N/A
Winding Material: Aluminum
Ambient Temperature Rating: 40°C
Sound Level: 58 dBA
Elevation (Altitude) Rating: 3300ft (1000 meters) Above Sea Level
Enclosure Material: Coated Steel
Enclosure Rating: NEMA 3R Weatherproof
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

No Load Loss (in watts): +/- 1,760W
Full Load Loss (in watts): +/- 11,400W
Total Load Loss (in watts): +/- 13,160W

Note: Losses offered are typical only, not guaranteed

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

The MT-PDT-CRC-R7-1P-SE-1MVA-SMT-A6-FZ-AZ-1Z-ZZ-Z-N3R-M1 Cast Resin Transformer from Larson Electronics converts single-phase 480V electrical current to single-phase 12000V. This power distribution unit provides operators the ability to safely step up and distribute 1000 KVA AC power for medium-voltage applications, utility interconnections, industrial facilities, testing operations and other power distribution requirements. 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 1 MVA (1000 KVA), the industrial dry type transformer features a primary voltage of single-phase 480V AC and a secondary voltage of single-phase 12000V AC. 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 voltage adjustments. The system features aluminum windings for high strength and electrical conductivity. This cast resin transformer features coils cast in epoxy resin under vacuum using molds. The robust construction makes this transformer ideal for harsh industrial environments, utility installations, mining operations, manufacturing facilities and other demanding locations requiring reliable continuous-duty operation.

The MT-PDT-CRC-R7-1P-SE-1MVA-SMT-A6-FZ-AZ-1Z-ZZ-Z-N3R-M1 does not have fans or mounting provisions for fans.

Transformer Efficiency: The transformer meets standard efficiency requirements and is designed for continuous operation at rated power. High efficiency makes this unit suitable for electrical rooms, industrial facilities, utility infrastructure, manufacturing plants and outdoor installations where dependable long-term operation is required.

Temperature Sensor: The MT-PDT-CRC-R7-1P-SE-1MVA-SMT-A6-FZ-AZ-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 cast resin 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 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 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-CRC-R7-1P-SE-1MVA-SMT-A6-FZ-AZ-1Z-ZZ-Z-N3R-M1 transformer

offers significant energy savings, excellent thermal performance and reliable operation. The cast resin coil design provides enhanced resistance to moisture, contamination and environmental stresses while reducing maintenance requirements. Higher efficiency extends transformer life and reduces operating costs over the life of the equipment.

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.



Frequently Asked Questions (FAQ)

There are no Fags



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Export Control Classification Number (ECCN): EAR99

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