Larson Electronics LLC
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MT-PDT-CRC-R7-3P-DE-400KVA-YK-A6-DZ-CC-1Z-ZZ-Z-N4X-M1

400 KVA Cast Resin Core Transformer, 480V Delta Primary, 400Y/231 Wye-N Secondary, AA, Class F, W/O Fans, NEMA 4X

Product ID: 326219

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



Image: MT-PDT-CRC-R7-3P-DE-400KVA-YK-A6-DZ-CC-1Z-ZZ-Z-N4X-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-R7-3P-DE-400KVA-YK-A6-DZ-CC-1Z-ZZ-Z-N4X-M1 Cast Resin Core Transformer

Transformer Type: Cast Resin Core Transformer (CRC)
Transformer Configuration: Dry Type, Ventilated
Phase: Three Phase
Capacity: 400 KVA
Vector Group: Dyn11
Primary Voltage: 480V AC
Primary Voltage Class: 1.2 kV Class
Primary Phasor: Delta
Primary BIL: 30 KV
Secondary Voltage: 400Y/231
Secondary Voltage Class: 1.2 kV Class
Secondary Phasor: Wye-N
Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 80°C

Cooling Class: AA

Forced Air (Fans): N/A
Insulation Class: Class F

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 C57.12.70
Complies with ANSI / IEEE C57.12.59
Meets or Exceeds NEMA ST-20 Standards
Meets/Exceeds DOE 2016 Efficiency Ratings
Meets/Exceeds CSA Efficiency Ratings
Seismic Qualified for Earthquake Loads
NEMA 3R Indoor/Outdoor Steel Enclosure
CE Certified
RoHS Certified

Efficiency %: 99.10%
Based on transformer operating at 50% of nameplate base kVA.

Load Losses at 145°C Reference Temp.

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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): 1.5-7.0% ±7.5%
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 Surge Arrestors: N/A
Secondary Surge Arrestor Voltage Rating: N/A
Secondary Surge Arrestor MCOV Rating: N/A
Secondary Overcurrent Protection (OCP): N/A
Secondary Grounding Provisions: Lugs
Metering Current Transformer (CT): N/A
Transient Voltage Protection (TVP) System: 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)
Temperature Sensors in Coil: Included
Temperature Gauge: Included
Seismic Bracing: Included
Weather Shield: N/A
Space Heaters: N/A
Winding Material: Copper
Ambient Temperature Rating: 40°C
Sound Level: 56 dBA
Elevation (Altitude) Rating: 3300ft (1000 meters) Above Sea Level
Enclosure Material: 316 Stainless Steel
Enclosure Rating: NEMA 4X Weatherproof
System Form Factor: N/A
Paint Type: Epoxy Paint
Finish: ANSI 61 Grey
Mount: Pad Mount / Floor Mount
Dimensions: 63"L x 63"W x 59"H
Weight: 3,860 lbs
*Please note that numbers are approximate and subject to change

No Load Loss (in watts): +/- 1,160W
Full Load Loss (in watts): +/- 6,600W
Total Load Loss (in watts): +/- 7,760W

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-R7-3P-DE-400KVA-YK-A6-DZ-CC-1Z-ZZ-Z-N4X-M1 Cast Resin Transformer from Larson Electronics converts three-phase 480V Delta electrical to three-phase 400Y/231 Wye-N. This power distribution unit provides operators the ability to safely tap into and distribute 400 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 400 KVA [Natural Cooled], the industrial dry type transformer features a primary voltage of three-phase 480V AC Delta and a secondary voltage of three-phase 400Y/231 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 in voltage. The system has copper windings for high strength and electrical conductivity. This cast coil transformer features coils casted in epoxy resin under a vacuum using molds. The structure makes this type of transformer ideal for installations in extreme weather environments, offshore platforms, mining and rugged sites.

The MT-PDT-CRC-R7-3P-DE-400KVA-YK-A6-DZ-CC-1Z-ZZ-Z-N4X-M1 doesn't have fans for forced air cooling, but has mounting provisions for future 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-CRC-R7-3P-DE-400KVA-YK-A6-DZ-CC-1Z-ZZ-Z-N4X-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 CRC transformer does not include a load break switch. We can add a load break switch at an additional cost.

Surge Arresters: This transformer doesn't include surge arresters on the primary side. 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 CRC 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 CRC transformer is protected by a stainless steel housing. The enclosure carries a NEMA 4X 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-R7-3P-DE-400KVA-YK-A6-DZ-CC-1Z-ZZ-Z-N4X-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)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/326219.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/326219.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/326219.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/326219.JPG)
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