

MT-PSTS-R7-3P-DMR-2.5MVA-YE-HS-LS-A6-CB-CZ-ZZZ-K4-M1

3.5 MVA Substation Transformer - 12470 Delta Primary, 480Y/277 Secondary - KNAN/KNAF, Grey
Product ID: 284753



Image: MT-PSTS-R7-3P-DMR-2.5MVA-YE-HS-LS-A6-CB-CZ-ZZZ-K4-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-PSTS-R7-3P-DMR-2.5MVA-YE-HS-LS-A6-CB-CZ-ZZZ-K4-M1 Substation

Transformer

Phase: Three Phase

Capacity: 3500 KVA (3.5 MVA) - 65°C w/ Fans, 3125 KVA (3.12 MVA) - 65°C w/o Fans,
2800 KVA (2.8 MVA) - 55°C w/ Fans, 2500 KVA (2.5 MVA) - 55°C w/o Fans

Primary Voltage: 12470V Delta

Primary BIL Class: -

Primary BIL: -

Secondary Voltage: 480Y/277

Secondary BIL Class: -

Secondary BIL: -

Frequency: 60 Hz

Temperature Rise: 55°C/65°C

Capacity @ 55°C Temperature Rise: 2500 KVA (2.5 MVA) w/o Fans, 2800 KVA (2.8 MVA)
w/ Fans

Capacity @ 65°C Temperature Rise: 3125 KVA (3.12 MVA) w/o Fans, 3500 KVA (3.5
MVA) w/ Fans

Forced Air (Fans): Yes

Tap Changer: 5-position Tap Changer, (2) +/- 2.5% Taps Above and (2) +/- 2.5% Taps
Below

K-factor: K4

Efficiency: DOE 2016

Insulation Fluid: Biodegradable Fluid

Fluid Capacity: -

Cooling Class: KNAN/KNAF

Ratings

Listed for United States and Canada

Liquid Level Gauge: Analog
Temperature Gauge: Analog
Pressure/Vacuum Gauge: Analog
Fault Pressure Device: None
Pressure Relief Valve: Included, Automatic
Fill Valve: Included
Drain Valve w/ Sampler Port: Included
Rapid Rise Relay: Included
Surge Arrestors: Included on Primary Side
Protection Fuses: -
Load Break Switch: -
Front: Live Front
Feed: Radial
Primary and Secondary Terminal Connections: Side of Transformer
Winding Material: Copper
Ambient Temperature Rating: -
Sound Level: -
Cabinet Type: -
Housing Material: Coated Steel
Paint Type: Light Grey (ANSI 61) Finish
Mounting: -
Dimensions: 80"-L x 90"-W x 84"-H
Weight: 18,000 lbs

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-PSTS-R7-3P-DMR-2.5MVA-YE-HS-LS-A6-CB-CZ-ZZZ-K4-M1 Substation Transformer from Larson Electronics offers powerful, reliable and efficient power distribution in indoor or outdoor locations. The low operating costs, low heat emissions and low cost of ownership makes 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: The industrial transformer features a primary voltage of three-phase 12470V Delta and a secondary voltage of three-phase 480Y/277. This dual temperature rise system carries the following ratings: 3500 KVA (3.5 MVA) - 65°C with fans, 3125 KVA (3.12 MVA) - 65°C without fans, 2800 KVA (2.8 MVA) - 55°C with fans and 2500 KVA (2.5 MVA) - 55°C without fans. The unit has a primary radial feed and live front primary connections. We also offer systems with loop feed and dead front primary connections. This transformer features a 5-position tap changer with two, +/- 2.5% taps above and two, +/- 2.5% taps below to allow small changes for voltage. There are no load break switches and protection fuses present on the system.

The system features copper windings for high strength and thermal/electrical conductivity. This transformer consists of rectangular coil and five-legged wound core design with three coils and four core loops (this is for three-phase transformers only; single-phase units have one coil and two core loops).

The MT-PSTS-R7-3P-DMR-2.5MVA-YE-HS-LS-A6-CB-CZ-ZZZ-K4-M1 has fans for forced air cooling.

Temperature Rise: This unit features 55°C and 65°C dual temperature rise for reduced heat waste, increased reliability and longer life. At 55°C temperature rise, the transformer offers 2500 KVA (2.5 MVA) without fans or 2800 KVA (2.8 MVA) with fans on. At 65°C temperature

rise, the transformer offers 3125 KVA (3.12 MVA) without fans or 3500 KVA (3.5 MVA) with fans on. The transformer meets DOE 2016 efficiency requirements. The combination of low temperature rise and high efficiency makes this unit suitable for use in outdoor areas.

Insulation Fluid: The MT-PSTS-R7-3P-DMR-2.5MVA-YE-HS-LS-A6-CB-CZ-ZZZ-K4-M1 features biodegradable fluid (KNAN/KNAF). We offer transformers with mineral oil or FR-3 fluid, if needed.

Biodegradable Fluid: Biodegradable cooling fluid (vegetable oil) has a higher heat capacity compared to mineral oil, making the liquid safer to use and more reliable during operations. Vegetable oil has a higher flash point and fire point than mineral oil, hydrocarbon oil, silicone oil and synthetic ester. This cooling fluid is also non-toxic and can tolerate higher breakdown voltages than mineral oil. When operating at high temperatures, biodegradable cooling liquid sustains up to 120% load conditions, which helps preserve the transformer's lifespan and performance.

Gauges: The following gauges are included with the system: liquid level, temperature and pressure/vacuum gauges. Standard liquid level, temperature and pressure/vacuum gauges are analog, manual reading types. These gauges do not have alarm contacts.

Fault Pressure Devices: There are no fault pressure devices on the unit. Fault pressure devices are used to detect high rates of pressure rise within the tank.

Rapid Rise Relay: Rapid rise relays are available on the unit. This safety component is designed for protection when a rapid increase in tank pressure occurs. The relay is suitable for detecting sudden pressure fluctuations above predetermined safe limits.

Surge arresters: This system comes with surge arresters on the primary and secondary 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 high elbow surge arresters that have mounting provisions for customer-provided surge arresters.

Load Breaker Switch: The transformer is not equipped with a load breaker switch.

Valves: The MT-PSTS-R7-3P-DMR-2.5MVA-YE-HS-LS-A6-CB-CZ-ZZZ-K4-M1 is equipped with an automatic pressure relief valve, fill valve and drain valve with sampler port.

Protection Fuses: This transformer does not have bayonet protection fuses on the primary side. For units without protection fuses, up stream protection is provided. We recommend provisions for protection fuses when possible, as blown fuses may require more frequent oil changes.

Terminal Connections: The primary and secondary terminal connections are located on the side of the transformer. We can configure the location to be top located or side located for both the high voltage and low voltage sides.

Benefits: The MT-PSTS-R7-3P-DMR-2.5MVA-YE-HS-LS-A6-CB-CZ-ZZZ-K4-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 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 Faqs