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MT-HV-PT-R7-A11-SXK-138KV-SX.LM-C0.3WXYZZZM-Z-60HZ-OL-OD-M1

138 kV Potential Transformer, Oil Filled - 138,000Y/79,674V Grounded Wye Primary, 115/69V Secondary, 1200:1 Ratio, 0.3 WXYZ, ZZ, M Accuracy Class, Light Gray, Outdoor

Product ID: 340077

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



Image: MT-HV-PT-R7-A11-SXK-138KV-SX.LM-C0.3WXYZZZM-Z-60HZ-OL-OD-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-HV-PT-R7-A11-SXA-138KV-SX.LM-C0.3WXYZZZM-Z-60HZ-OL-OD-M1 Potential Transformer

Unit Type: Potential Transformer, Wound Type, Oil Filled
Application: Revenue Metering, Relaying & SCADA
Phase: Single Phase
Primary Voltage: 138,000V
Primary Voltage Class: 138 kV
Primary Phasor: Single Phase
Primary BIL: 650 kV
60 Hz, 1 min. Withstand Voltage: 230 kV (Wet) / 275 kV (Dry)
Primary to Secondary Ratio: 1200:1
Secondary Voltage: 115/69V
Frequency: 60 Hz
No. Of Bushings: (1)
Rated Voltage Factor: 1.2 Continuous
ANSI Accuracy Class Operation at Rated Voltage (Metering Accuracy): 0.3 W, X, Y, Z, ZZ, M
Cooling Class: ONAN Self-Cooled
Insulator Type: Porcelain or Composite
Primary Connection: High Voltage Terminal

Ratings

Meets IEEE C57.13 Standard
Meets BPA Specification 22-07
Outdoor Service
Non-corroding Stainless Steel Nameplate

Primary Overcurrent Protection (OCP): Non-Fused
Secondary Connection: Terminal Block
Secondary Terminal Box: Weatherproof
Space Heater: N/A
Winding Material: Copper
Nameplate Material: Stainless Steel with IEEE 693 Seismic Identification Plate
Insulation Medium: Mineral Oil, Non-PCB
Oil Level Gauge: Included
Oil Fill Plug: Included
Oil Drain Valve: Included
Pressure Relief Device: Included
Operating Temperature Range: -40°C to +40°C
Average Temperature Rating (24 hrs): +40ºC
Service Condition: Outdoor
Finish: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Housing Materials: Welded Steel Oil-Filled Tank
Mount: Base / Structure Mounted
Total Dimensions: TBD
Total Weight: TBD

Special Orders - Special Requirements
Contact us for special requirements
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The MT-HV-PT-R7-A11-SXK-138KV-SX.LM-C0.3WXYZZZM-Z-60HZ-OL-OD-M1 Potential Transformer from Larson Electronics is designed for outdoor utility and substation applications requiring highly accurate voltage measurement for revenue metering, monitoring, protective relaying, and SCADA systems. This 138kV-class, oil-filled, wound-type instrument transformer is engineered for reliable operation on 69kV power systems while utilizing 138kV insulation class construction, delivering exceptional accuracy, rugged construction, and long service life in demanding transmission and distribution environments.

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

Transformer Features: The potential transformer is rated for a 138,000V primary and 115/69V tapped secondary with a 1200:1 transformation ratio. The unit features a 550kV Basic Insulation Level (BIL) and ANSI/IEEE 0.3 W, X, Y, Z, ZZ, M metering accuracy at 60Hz. Constructed with heavy-duty copper windings and a hermetically sealed oil-filled insulation system, the transformer provides excellent dielectric strength, superior thermal performance, and dependable long-term reliability. The unit complies with IEEE C57.13 and BPA Specification 22-07, and is qualified to IEEE 693-2018 High Seismic Level requirements with a seismic identification plate.

Primary Connections: The transformer is equipped with a single high-voltage primary bushing and a tinned copper high-voltage terminal suitable for utility substations and outdoor transmission installations.

Secondary Connections: The potential transformer is furnished with a weatherproof secondary terminal compartment containing corrosion-resistant terminal blocks for secure field wiring, metering, relaying, and maintenance access.

Benefits: The MT-HV-PT-R7-A11-SXK-138KV-SX.LM-C0.3WXYZZZM-Z-60HZ-OL-OD-M1 transformer delivers precise voltage transformation for revenue metering, protective relaying,

and SCADA applications while minimizing maintenance requirements and ensuring dependable long-term operation. Its hermetically sealed oil-filled construction provides superior insulation performance, moisture resistance, and environmental protection, making it ideal for utility substations and high-voltage transmission systems operating in harsh outdoor conditions.

Applications: Electric utilities, transmission substations, distribution substations, switchyards, renewable energy facilities, power generation stations, revenue metering, protective relaying, SCADA monitoring, transmission and distribution networks, voltage monitoring, and high-voltage power system control.

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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Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/340077.JPG)
- **Video1**(https://www.youtube.com/watch?v=4-JEyYeYcn8)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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