

MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1

Automatic Circuit Recloser, 800A, 15000V AC, 3-Phase, 12.5kA Interrupting, Pole Mounted, Outdoor

Product ID: 344160



Image: MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-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-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1 Automatic Circuit Recloser

Ratings/Approvals

Product Type: Automatic Circuit Recloser

Complies with IEEE C37.60

Current Type: AC

Phases: 3 Phase

Nominal Operating Voltage: 15 kV

Rated Maximum Voltage: 15.5 kV Class

Basic Impulse Level (BIL): 125 kV

Rated power frequency: 60 Hz

Power Frequency Withstand, Dry: 50 kV, over 1 minute

Power Frequency Withstand, Wet: 45 kV, over 10 seconds

Rated Continuous Current: 800 A

Symmetrical Interrupting Capacity: 12.5 kA

Maximum Asymmetrical Making Current: 32 kA peak

Protection: Phase Overcurrent & Ground Fault

Interrupting Medium: Vacuum

Mechanical Operation: 10,000 minimum without maintenance

Operating Cycle: O-0.3s-CO-1.8s-CO-1.8s-CL

Current Sensors: Internal, 1000:1 A ratio

Voltage Sensors: 6 Internal Voltage Sensors

Actuator: Magnetic Actuator

Terminals: Flat Pad, 4-Hole

Pole Assembly: 3 Vacuum-Interrupting Pole Assemblies with Epoxy Insulation

Manual Operation Handle: External Manual Open Handle

External Voltage Sensor: Not Included

Auxiliary Contacts: Not Included
Potential Transformer: Not Included
Surge Arresters: Not Included
Event Recording: Event Register and Oscillography
Creepage Distance: 1,040 mm (Terminal-to-Terminal)
Creepage Distance to Ground: 772 mm (Lower Terminal-to-Ground/Earth)
Radio Noise Limit: 100 μ V @ 9.4 kV
Heater Voltage: 127 VAC
Control Power Supply: 127 VAC
Backup Battery: 2 $\times$ 12 VDC, 9 Ah
Control Cable Length: 7 m
Analog Inputs: 4 Current + 7 Voltage Inputs
Position Indicator: Open/Close Contact Position Indicator
Communication Ports: RJ45, LC Duplex, RS232, RS232/RS485, USB 2.0
Communication Protocols: DNP, IEC 60870-5-101/103/104, IEC 61850 Ed. 2, Modbus, SNMP
Digital Inputs/Outputs: 25 Digital Inputs / 10 Digital Outputs
Protection Functions: Phase Overcurrent, Ground, Negative Sequence, Directional Overcurrent, Under/Overvoltage, Under/Overfrequency, Automatic Reclosing, Sync-Check, Breaker Failure
Measurement Functions: Current, Voltage, Frequency, Real/Reactive/Apparent Power, Power Factor, Energy, Harmonics up to 15th Order
Ground Connector: 10–70 mm²
Tank Material: Aluminum
Tank Finish: MUNSELL N6.5, 75 μ m
Control Type: Microprocessor-Based Electronic Control
Control Cabinet Type: Front and Rear Access
Control Cabinet Material: Mild Steel
Protection Degree: IP53
Mounting: Pole-mounted
Mounting Structure: Front Mount Hanger
Supporting Structure: Round Pole, 230 mm Diameter
Weight: 91 kg
Dimensions: Approx. 1,000 $\times$ 413 $\times$ 1,195 mm (W $\times$ D $\times$ H)

Special Orders - Special Requirements

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Made in the USA

The MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1 from Larson Electronics is an Automatic Circuit Recloser (ACR) designed for overhead distribution lines and medium-voltage distribution systems operating at 15 kV class. This outdoor, pole-mounted unit features an 800A continuous current rating, 12.5 kA symmetrical interrupting capacity, 125 kV Basic Impulse Level (BIL), and vacuum interruption technology. The recloser is manufactured and tested in accordance with IEEE C37.60.

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

The MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1 is supplied with a microprocessor-based electronic recloser control housed in a mild-steel control cabinet with an IP53 protection rating. The control system provides programmable protection, metering, event recording, oscillography, automatic reclosing, fault location, and communication capabilities for distribution automation applications.

The MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1 utilizes vacuum-interrupting technology with three vacuum-interrupting pole assemblies with epoxy insulation. The recloser incorporates internal current sensors with a 1000:1 A ratio and six internal

voltage sensors for monitoring and protection. A magnetic actuator provides the operating mechanism, while an external manual open handle and open/close position indicator provide local operation and status indication.

Operation: The MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1 uses a microprocessor-based electronic control to monitor current and voltage conditions and provide programmable protection and automatic reclosing functions. Protection functions include phase overcurrent, ground, negative sequence, directional overcurrent, under/overvoltage, under/overfrequency, automatic reclosing, sync-check, and breaker failure. The control also provides event recording, oscillography, energy measurement, and harmonics measurement up to the 15th order.

Mount: The MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1 is pole-mounted using a front-mount hanger designed for a round pole with a 230 mm diameter. The recloser tank is constructed from aluminum and finished in MUNSELL N6.5 with a 75 µm coating.

Certification: This MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1 is manufactured and tested in accordance with IEEE C37.60. The customer specification does not identify IEC 62271-111 as a required standard, so it should not be stated as a compliance standard for this listing.

Applications: The MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1 is designed for medium-voltage overhead distribution systems requiring automatic fault interruption, reclosing, protection, monitoring, and distribution automation. Its pole-mounted configuration and programmable electronic control make it suitable for utility and industrial distribution applications where automatic fault isolation and service restoration are required.

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Frequently Asked Questions (FAQ)

There are no Faqs