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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

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

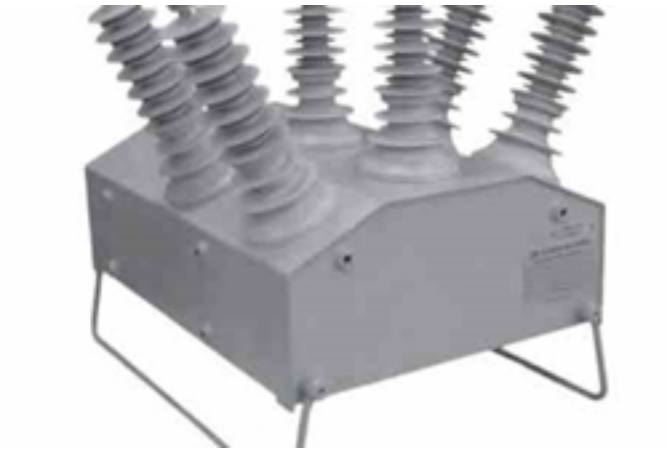

Image: MT-ACR-VA-R7-3P-AC-DRU-800A-12.5KA-6-UPM-Z-Z-IP53-M1

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

Product Type: Automatic Circuit Recloser
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

Ratings/Approvals

Complies with IEEE C37.60

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 µV @ 9.4 kV
Heater Voltage: 127 VAC
Control Power Supply: 127 VAC
Backup Battery: 2 × 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 µm
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 × 413 × 1,195 mm (W × D × H)

Special Orders - Special Requirements
Contact us for 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.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

There are no Faqs

Export Control Classification Number (ECCN): EAR99

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