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MT-ACR-VA-R7-3P-AC-DRB-400A-12.5KA-56-UPM-Z-Z-N3R-M1

Automatic Circuit Recloser, 400A, 38000V AC, 3-Phase, 12.5kA Interrupting, Pole Mounted, Outdoor

Product ID: 343855

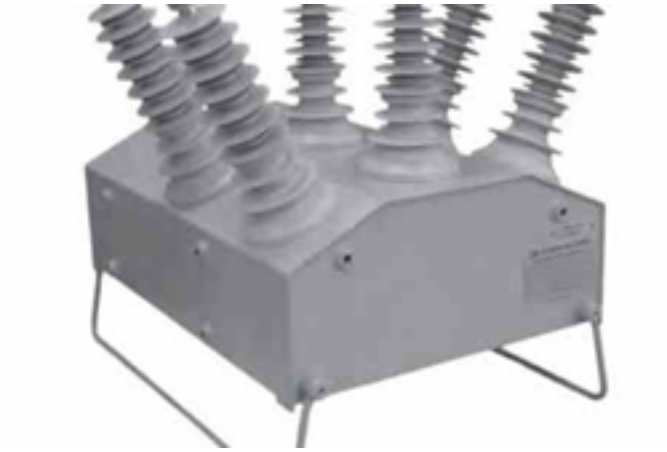


Image: MT-ACR-VA-R7-3P-AC-DRB-400A-12.5KA-56-UPM-Z-Z-N3R-M1

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-DRB-400A-12.5KA-56-UPM-Z-Z-N3R-M1 Automatic Circuit Recloser

Product Type: Automatic Circuit Recloser
Current Type: AC
Phases: 3 Phase
Nominal Operating Voltage: 34.5 kVis t
Rated Maximum Voltage: 38 kV Class
Rated lightning impulse withstand voltage: 150 kV
Creepage Distance: ≥ 900 mm (35.4 inches)
Rated power frequency: 50/60 Hz
Rated Continuous Current: 400 A
Symmetrical Interrupting Capacity: 12.5 kA
Maximum Asymmetrical Current: 31.25 kA
Protection: Phase Overcurrent & Ground Fault
Closing Voltage: 110–220 V AC/DC
Tripping Voltage: 110–220 V AC/DC
Interrupting Medium: Vacuum
Mechanical Operation: 10,000
Full Load Operation: 10,000
Closing Mechanism: Motor-Charged Spring
Tripping Mechanism: Magnetic Trip / Electronic Control
Bushing Type: Silicon Rubber (Polymer)
Terminals: 2-Hole or 4-Hole Pad Terminals

Ratings/Approvals

Complies with ANSI/IEEE C37.60 and IEC 62271-111

Factory Tests

High potential withstand test
Pressure test for sealing verification
Functional and TCC trip tests
Production tests per IEEE C37.60
Dielectric, mechanical life, and heat run tests

Operating mechanism: Motor-Charged Spring with Electronic Controller
Manual Operation Handle: External Manual Open/Close Handle
Energy Storage: Capacitor Backup for Trip/Close Operations
Current Transformers: (3) Integrated CTs
Electronic Controller: Eaton Cooper Power Series Form 6 Recloser Control
Communication Protocols: DNP3.0, Modbus RTU/TCP, IEC 60870-5-101/104
Communication Ports: Ethernet, RS-232, RS-485
Programmable I/O: Minimum (8) Inputs and (8) Outputs
Fault Location: Supported
Remote Monitoring: SCADA Compatible
Operating Modes: Programmable Single-Phase and Three-Phase Reclosing Logic
Event Recorder: Sequence of Events & Fault Recording
Lockout Feature: Electronic and Manual Lockout
Position Indicator: Mechanical Open/Closed Indicator
Ambient Temperature: -40°C to +70°C
Humidity: Up to 95% non-condensing
Altitude: Up to 2,000 m Standard
Protection Degree: NEMA 3R (Control Cabinet)
Mounting: Pole-mounted
Mounting Frame: Hot-Dip Galvanized Steel
Finish Paint: ANSI 70 Light Gray Powder Coat
Weight: ~350 kg (≈ 772 lbs)
Dimensions: Approx. 820 mm (W) × 350 mm (D) × 720 mm (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-DRB-400A-12.5KA-56-UPM-Z-Z-N3R-M1 from Larson Electronics is an Automatic Circuit Recloser (ACR) designed for overhead distribution lines and medium-voltage distribution systems operating at 38 kV class. This outdoor, pole-mounted unit features a 400A continuous current rating, 12.5 kA symmetrical interrupting capacity, and complies with ANSI/IEEE C37.60 and IEC 62271-111 standards for automatic circuit reclosers.

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

The MT-ACR-VA-R7-3P-AC-DRB-400A-12.5KA-56-UPM-Z-Z-N3R-M1 is supplied complete with an Eaton Cooper Power Series Form 6 recloser control housed within a weather-resistant control cabinet. The controller provides programmable protection, metering, fault recording, sequence-of-events logging, and remote monitoring capabilities. The system supports communications and SCADA integration for distribution automation applications.

The MT-ACR-VA-R7-3P-AC-DRB-400A-12.5KA-56-UPM-Z-Z-N3R-M1 utilizes vacuum interrupter technology enclosed within solid dielectric insulated poles to provide reliable fault interruption with minimal maintenance requirements. The sealed construction eliminates the need for insulating gases while providing long service life and dependable operation in harsh outdoor environments. The recloser features a motor-charged spring operating mechanism with programmable automatic reclosing sequences to quickly isolate temporary faults and restore service while minimizing customer outages.

Operation: The recloser is equipped with a motor-charged spring mechanism controlled by a

microprocessor-based relay that continuously monitors phase and ground fault conditions. Following a fault, the controller executes programmable trip and reclose sequences before locking out on permanent faults. Local operation is provided through an external manual open/close handle, while a mechanical position indicator clearly displays contact status. Integrated current transformers and programmable protection settings provide accurate fault detection, event recording, and coordination with upstream and downstream protective devices.

Mount: The MT-ACR-VA-R7-3P-AC-DRB-400A-12.5KA-56-UPM-Z-Z-N3R-M1 is pole-mounted using a heavy-duty hot-dip galvanized steel mounting frame and brackets designed for overhead utility distribution installations.

Certification: This MT-ACR-VA-R7-3P-AC-DRB-400A-12.5KA-56-UPM-Z-Z-N3R-M1 is manufactured in compliance with ANSI/IEEE C37.60 and IEC 62271-111 standards for automatic circuit reclosers. Factory testing includes dielectric withstand, interrupting performance, mechanical endurance, functional operation, and production testing to verify reliable field performance.

Applications: The MT-ACR-VA-R7-3P-AC-DRB-400A-12.5KA-56-UPM-Z-Z-N3R-M1 is ideal for medium-voltage utility and industrial power distribution systems requiring automatic fault isolation and service restoration. Typical applications include overhead distribution feeders, utility substations, industrial facilities, renewable energy interconnections, capacitor banks, transformers, mining operations, oil and gas facilities, and critical infrastructure where dependable feeder protection and SCADA integration 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