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MT-ACR-VA-R7-3P-AC-DRU-1000A-12.5KA-56-UPM-Z-Z-N3R-M1

Automatic Circuit Recloser, 1000 Amp, 15000V AC, 3-Phase, Pole Mounted, Outdoor Rated

Product ID: 337789

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

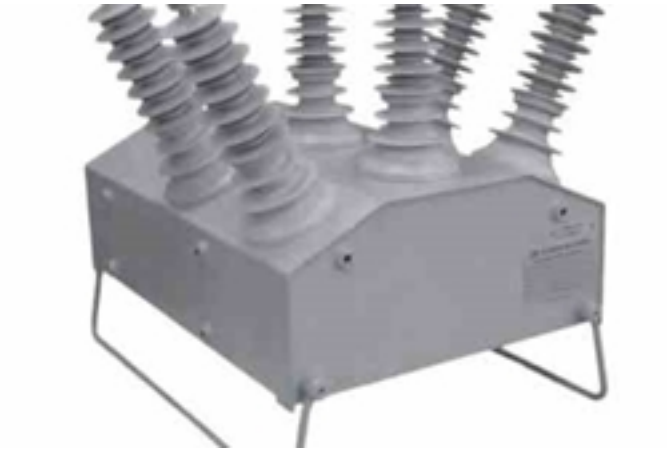

Image: MT-ACR-VA-R7-3P-AC-DRU-1000A-12.5KA-56-UPM-Z-Z-N3R-M1

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-DRU-1000A-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: 15 kV
Rated Maximum Voltage: 15.5 kV
Rated power frequency: 50/60 Hz
Rated Continuous Current: 1000 A
Rated power-frequency test voltage (Secondary circuits, 1 min): 2000V
Rated lightning impulse withstand voltage (BIL): 125 kV
Interrupting Current Rating (Symmetric): 12.5 kA
Fault Make Capacity Peak: 31.5 kA
Mechanical/Full Load Operations: Magnetic actuator (bi-stable, permanent magnet type)
Interrupting life operations, CO cycles, not less than (at rated current): 10,000
Interrupting life operations, CO cycles, not less than (at breaking current): 2,000
Short Time Current Withstand: 12.5 kA / 3 sec
Closing time: 60 ms
Opening time: 40 ms
Clearing time: 40 ms

Ratings/Approvals

Complies with ANSI C37.60-2012

Factory Tests

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

Main contacts resistance, not more than: 60 µΩ
Compatible Controllers: SEL-651R / ABB RER620 / Beckwith M-7679
Terminals: 2-4 Hole Pad Terminals
Operating mechanism: Magnetic actuator (bi-stable)
Manual Operation Handle: External manual trip/close handle
Energy Storage: Capacitor trip and close system for multiple operations after power loss
Current Transformers: (3) 1000:1 Protection Class CTs
Voltage Sensing: Embedded voltage sensing included
Operating Power Source: 120 VAC / 240 VAC
Control Type: Microprocessor-based electronic control
SCADA Interface: RS-232 (DNP3) & Ethernet 100 Base FX (DNP3, Modbus, IEC 60870-5-101/104)
Programmable I/O: (8) inputs and (8) outputs
Operating Modes: Single-phase trip / Three-phase trip selectable
Reclosing Sequence: Programmable (up to 4 shots)
Reclose Intervals: Field configurable
Insulation Material: Cycloaliphatic epoxy insulation
Bushing Design: High creepage outdoor type bushings
Interrupter Type: Vacuum interrupters
Lockout Feature: Mechanical and electrical lockout protection
Position Indicator: Open/closed visual indicator
Surge Arresters: Polymer MOV surge arresters, one per phase
Ambient Temperature: -40°C to +55°C
Relative Humidity: 0-100%, condensing
Altitude: 9,850 Ft
Protection Degree: NEMA 3R
Mounting: Pole-mounted
Mounting Frame: Galvanized steel pole mounting brackets
Finish Paint: ANSI 70 Light Gray
Weight: Approx. 300 lbs
Dimensions: Approx. 31"-W x 12"-D x 25"-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-1000A-12.5KA-56-UPM-Z-Z-N3R-M1 from Larson Electronics is an Automatic Circuit Recloser (ACR) designed for use on overhead distribution lines and utility distribution systems for voltage class 15kV applications. This outdoor-rated automatic circuit recloser provides reliable protection and sectionalizing capabilities for medium voltage power distribution networks.

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

The MT-ACR-VA-R7-3P-AC-DRU-1000A-12.5KA-56-UPM-Z-Z-N3R-M1 features a microprocessor-based control system with programmable protection, reclosing, monitoring, and communications capabilities in a compact integrated design. The system supports SCADA integration through DNP3, Modbus, IEC 61850, and IEC 60870-5-101/104 communication protocols for modern smart grid and automation applications.

The MT-ACR-VA-R7-3P-AC-DRU-1000A-12.5KA-56-UPM-Z-Z-N3R-M1 incorporates vacuum interrupters housed within cycloaliphatic epoxy insulated poles for maximum reliability, long service life, and reduced maintenance requirements. The fully insulated outdoor design

provides dependable operation in harsh environmental conditions while maintaining superior dielectric performance and arc containment.

Operation: Each phase of the recloser mechanism is operated by a magnetic actuator utilizing a bi-stable permanent magnet operating mechanism for fast and reliable switching performance. The device includes programmable single-phase and three-phase tripping modes with field configurable reclosing sequences up to four shots. The recloser can be manually operated using the external trip/close handle and includes a visual open/closed position indicator for operational status verification.

Mount: The MT-ACR-VA-R7-3P-AC-DRU-1000A-12.5KA-56-UPM-Z-Z-N3R-M1 is pole mounted using galvanized steel mounting brackets for outdoor utility distribution installations.

Certification: This MT-ACR-VA-R7-3P-AC-DRU-1000A-12.5KA-56-UPM-Z-Z-N3R-M1 complies with ANSI C37.60 standards for automatic circuit reclosers and is factory tested for dielectric withstand, mechanical endurance, timing operations, and functional performance verification.

Applications: This MT-ACR-VA-R7-3P-AC-DRU-1000A-12.5KA-56-UPM-Z-Z-N3R-M1 is used in medium voltage power distribution systems to protect and sectionalize overhead feeders, substations, transformers, capacitor banks, industrial distribution systems, and utility distribution circuits.

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

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