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MT-ACR-VA-R7-3P-AC-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1

Automatic Circuit Recloser, 800 Amp, 15500V AC, 3-Phase, NEMA 4X, Pole Mounted

Product ID: 338850

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

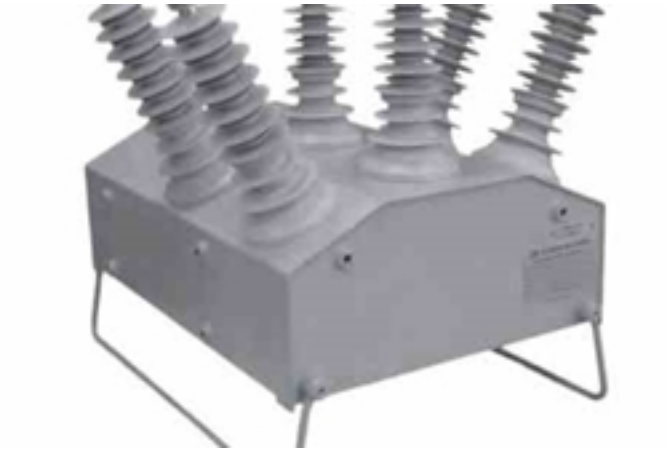


Image: MT-ACR-VA-R7-3P-AC-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1

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-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1 Automatic Circuit Recloser

Product Type: Automatic Circuit Recloser
Current Type: AC
Phases: 3 Phase
Nominal Voltage: 15 kV
Rated Maximum Voltage: 15.5 kV
Rated power frequency: 50/60 Hz
Rated Continuous Current: 800A
Rated power-frequency test voltage (Main circuits, 1 min, dry): 50 kV
Rated power-frequency test voltage (Secondary circuits, 1 min): 2 kV
Rated power-frequency withstand voltage, 10 s, wet: 45 kV
Rated lightning impulse withstand voltage: 110 kV
Partial discharge decay level, not less than (at 10 pC): 13.2 kV
Fault Make Capacity RMS: 12.5 kA
Fault Make Capacity Peak: 40 kA
Fault Break Capacity: 12.5 kA
Mechanical / Full Load Operations: 30,000
Interrupting life operations, CO cycles, not less than (at rated current): 30,000
Interrupting life operations, CO cycles, not less than (at breaking current): 200
Short Time Current Withstand: 16kA/4 secs
Closing time: 50 ms

Ratings/Approvals

IEC60947-2
Complies with ANSI C37.60-2012
Complies with UFGS Standards
Complies with TAA

Opening time: 25 ms
Clearing time: 35 ms
Main contacts resistance, not more than: 85 µΩ
Power Frequency Withstand Phase to Earth (Dry): 50 kV
Power Frequency Across the Interrupter: 50 kV
Operating mechanism: Magnetic actuator
Current Sensing: Included, (3) Internal CTs, 600:1 Ratio, ≤0.3% Accuracy
Voltage Sensing: Included, (6) Capacitive Voltage Sensors, Approx. 8 VAC LEA Input
Control Type: SEL 651R Recloser Control
Bushing Type: Silicon rubber with built-in terminals connectors
Distance between phases: 9.33"
Distance between Phase and Earth: 8.35"
Creepage distance: 19.6"
Control Type Main Parts: The operator panel module which provides the Human machine interface (HMI), The Switchgear Interface Module (SIM) which provides the power supply battery charger and incorporates the capacitors that provide the tripping and closing energy to the tank & The Relay module which provides the main microprocessor and DSP functionality
Terminations: Tin-plated brass connector at the end with options for cable connection as follows:
• A Tunnel terminal arrangement suitable for cable sizes from 40mm2 to 260mm2 . Cables are secured in the connector with two hexagon socket screws.
• Two hole cable palms with NEMA spacing. The cable palms are supplied with two (2) M12x25mm stainless steel bolts together with flat and spring washers
Surge Arresters Mounting Brackets: (6) Surge Arresters, 8.4 kV MCOV
Wildlife Protection: Included
Control Transformer: Included, 240/480 - 120/240 VAC, 75 VA
Control Power Input: 24–240 VAC or 24–250 VDC
Expected life time: 30 Years
Service Condition: Outdoor
Ambient Temperature: -40°C to +55°C
Solar radiation: ≤ 0.335kW/inch
Humidity: 0-100%
Altitude: 9,850 Ft
Control Cabinet Protection: Included, SEL 651R Relay
Protection: Phase Time Overcurrent Protection (51P), Phase Instantaneous Overcurrent Protection (50P-1, 50P-2, 50P-3), Ground Time Overcurrent Protection (51N), Ground Instantaneous Overcurrent Protection (50N-1, 50N-2, 50N-3), Directional Phase Overcurrent Protection (67P), Directional Ground Overcurrent Protection (67N), Negative Sequence Overcurrent Protection (46), Reverse Power Protection (32P, 32N), Multishot Automatic Reclosing (79), Recloser Failure Detection and Lockout, Fault Location (3-Phase Mode), Event Recording and Oscillography, Digital Metering (V, A, kW, kVAR, kWh, PF, Hz)
Control Cabinet Protection Degree: NEMA 4X, Stainless Steel, Lockable
Mounting: Pole Mounted
Finish Paint: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Tank Construction: Aluminum Alloy
Weight: 150 lbs
Dimensions: 29.3"-L, 25.4"-W, 25.6"-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-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1 from Larson Electronics is an Automatic Circuit Recloser (ACR), which designed for use on

overhead distribution lines as well as distribution substation applications for voltage class 15.5 KV.

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

The MT-ACR-VA-R7-3P-AC-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1 is completely supplied with an RC control and communications cubicle. The RC control cubicle provides all the protection, data logging and communications functions in a single device. The MT-ACR-VA-R7-3P-AC-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1 has been designed for use as a stand alone device that is easily integrated into distribution automation and remote control schemes using the in-built communications capability.

The MT-ACR-VA-R7-3P-AC-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1 incorporates vacuum interrupters inside solid dielectric insulated poles which are housed within the arc fault venting designed, stainless steel tank. This ensures maximum life and reliability with a fully insulated arrangement inside the long life housing.

Operation: Each phase of the recloser mechanism is operated by an individual magnetic actuator. In the MT-ACR-VA-R7-3P-AC-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1 three phase operation the magnetic actuators are mechanically interlocked to guarantee correct operation. The device is latched in the closed position by magnetic latching and each magnetic actuator uses a single coil. The recloser can be mechanically tripped using the yellow mechanical hook stick operated lever in the base of the tank. The device Open/Close indication, also located in the base of the tank, uses a green ‘0’ to designate contacts are open and a red ‘I’ to designate contacts closed.

Mount: The MT-ACR-VA-R7-3P-AC-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1 is pole mounted.

Certification: This MT-ACR-VA-R7-3P-AC-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1 complies with the ISO 9001 Standards, certified by an external independent organization, complies with the AS/NZS ISO 14001 & AS/NZS 4801 Standards, certified by an external independent organization and OHSAS 18001 Standards

Applications: This MT-ACR-VA-R7-3P-AC-DTF-800A-12.5KA-56-UPM-Z-Z-N4X-M1 is used in power distribution to control and protect lines, transformer and distribution substations, motors, transformers, capacitor banks, etc.

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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