Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

MT-ACR-VA-R7-3P-AC-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2

Automatic Circuit Recloser, 630 Amp, 15000V AC, 3-Phase, NEMA 3R, Pole Mounted

Product ID: 333750

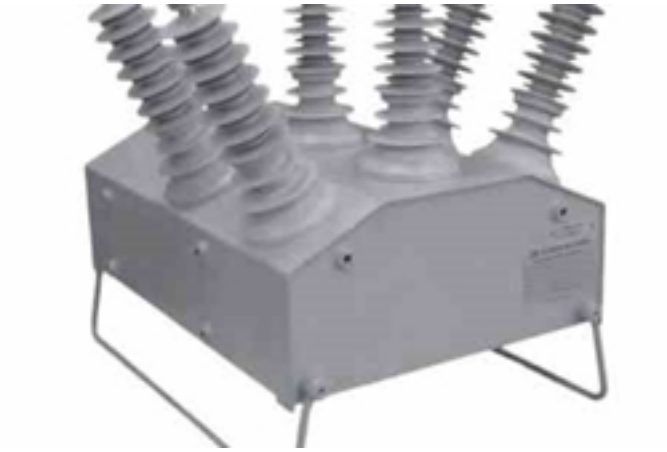

Image: MT-ACR-VA-R7-3P-AC-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2

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-630A-12.5KA-56-UPM-Z-Z-N3R-M2 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: 630 A
Rated power-frequency test voltage (Secondary circuits, 1 min): 2000V
Rated lightning impulse withstand voltage (BIL): 95 kV
Interrupting Current Rating (Symmetric): 12.5 kA
Fault Make Capacity RMS: 20 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
Main contacts resistance, not more than: 60 µΩ
Controller: SEL 651R
Terminals: 2-4 Hole Pad Terminals

Ratings/Approvals

Complies with ANSI C37.60-2012

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: Magnetic actuator (bi-stable)

Manual Operation Handle: Yellow, under sleet hood

Energy Storage: Close and trip capacitors for 100 operations after power loss

Current Transformers: (3) 1000:1, Protection Class (C100–C200)
Voltage Sensing: Included via external CPT and line sensors (LEA)

Effective PT Ratio: 60:1 (via CPT)

Operating Power Source: 120 VAC, 240 VAC, 24 VDC battery backup

Control Transformer: 7200V – 120V external CPT

Control Type: Microprocessor-based SEL-651R

Control Power: 120V, 15A GFCI outlet

Control Cable Length: 35 ft

Space Heater: 250W/240V thermostatically controlled

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: Mode A: Three-phase trip, three-phase lockout / Mode B: Single-phase trip, three-phase lockout / Mode C: Single-phase trip, single-phase lockout

Reclosing Sequence: Programmable (up to 4 shots)

Reclose Intervals: Field configurable

Insulation Material: Cycloaliphatic epoxy (non-brittle, high resistance)

Bushing Design: Alternating minor and major skirts for increased creepage distance

Interrupter Type: Vacuum interrupters

Distance between phases: 13.39 inches
Distance between Phase and Earth: 40.83 inches
Creepage distance: 20.16 inches
Lockout Feature: Manual handle in open position prevents electrical closing
Position Indicator: Red/green flag for open/closed status
Surge Arresters: Included, (3) Polymer-housed MOV, 10.2 kV MCOV, one per phase, wildlife protected
Ambient Temperature: -40°C to +55°C
Humidity: 0-100%
Altitude: 9,850 Ft
Protection Degree: NEMA 3R
Mounting: Pole-mounted Through Mounting Brackets
Mounting Frame: Galvanized cluster-mounting frame for pole mounting
Finish Paint: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Weight: 837.76 lbs
Dimensions: 30.71"-W x 11.3"-D x 24.53"-H

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

Made in the USA

The MT-ACR-VA-R7-3P-AC-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2 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 KV.

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

The MT-ACR-VA-R7-3P-AC-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2 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-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2 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-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2 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-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2 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-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2 is pole mounted.

Certification: This MT-ACR-VA-R7-3P-AC-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2 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-DRU-630A-12.5KA-56-UPM-Z-Z-N3R-M2 are 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