Larson Electronics LLC
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MT-CB-VA-R7-3P-AC-DTM-400A-25KA-56-WT-Z-Z-N4X-M1

Vacuum Medium Voltage Circuit Breaker, 400 Amp, 5kV AC, 3-Pole, Motorized, Drawout, Relay Compatible

Product ID: 344624

Image: MT-CB-VA-R7-3P-AC-DTM-400A-25KA-56-WT-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-CB-VA-R7-3P-AC-DTM-400A-25KA-56-WT-Z-Z-N4X-M1 Medium Voltage Circuit Breaker

Unit Type: Medium Voltage Vacuum Circuit Breaker (VCB), Drawout Type
Voltage: 5 kV AC
No. Of Poles: 3-Poles
Continuous Current Rating: 400A
Rated Short-Circuit Interrupting Capacity: 25 kA RMS @ 11 kV *(typical; configurable)*
Rated Short-Circuit Making Capacity [Icm]: 63 kA Peak
Rated Impulse Withstand Voltage (BIL): 60 kV
Frequency: 50/60 Hz
Ground Fault Relay: Included
Shunt Trip Coil: Included
Operating Mechanism: Motorized Spring-Charged
Closing Voltage: 110–220 V AC/DC (customer specified)
Trip Voltage: 110–220 V AC/DC (customer specified)
Control Type: Electrical / Remote with Local Push-Buttons
Operation Counter: Mechanical Counter Included
Power Dissipation: 100 W
Maximum Breaking Time: 25 ms
Maximum Closing Response Time: 70 ms
Mounting Type: Horizontal Drawout

Ratings

Designed in accordance with IEEE C37.04 / IEEE C37.06
Compatible with IEEE C37.20.2 Metal-Clad Switchgear
Made in the USA

Racking Positions: Connected / Test / Disconnected

Interlocking: Mechanical & Electrical Safety Interlocks

Primary Connections: Plug-in Stabs

Secondary Connections: Control Plug

Electrical Durability: 10000 cycles without maintenance

Ambient Temperature Range: -10 °C to +55 °C

Altitude: ≤1000 m above sea level (higher on request)

Mechanical Endurance: ≥10,000 Operations

Electrical Endurance: ≥10,000 Operations at Rated Current

Insulating Medium: Vacuum air

Protection Degree: NEMA 4X Enclosure

Protection: External Numerical Protection Relay Required
Dimensions: 17.36" W - 15.55" D - 17.28" H
Weight: 198.42 Lbs
Shipping Dimensions:
Shipping Weight:
Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

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

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electrical Code section 250

Made in the USA

The MT-CB-VA-R7-3P-AC-DTM-400A-25KA-56-WT-Z-Z-N4X-M1 from Larson Electronics is a 5kV medium voltage vacuum circuit breaker designed for use in indoor metal-clad switchgear assemblies. This 5kV class drawout breaker features vacuum interrupters rated for 25 kA short-circuit interrupting capacity and 60 kV BIL insulation level. The motorized, stored-energy spring mechanism ensures reliable opening and closing performance in demanding utility and industrial substation applications.

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

The MT-CB-VA-R7-3P-AC-DTM-400A-25KA-56-WT-Z-Z-N4X-M1 vacuum medium voltage circuit breaker provides a safe and dependable method for controlling and protecting 5kV distribution feeders, transformer incomers, bus sections and ring circuits. Compatible with three-phase 5kV AC systems, this 3-pole breaker carries an 400A continuous current rating and interrupts up to 25 kA symmetrical fault current. The breaker is designed for integration with external numerical protection relays installed within metal-clad switchgear panels.

Operation: All control and signaling devices are located on the front of the breaker. Mechanical and electrical interlocks prevent unsafe operations. An anti-pumping device is included as standard. The withdrawable breaker features connected, test and disconnected positions and can be safely racked in or out of the switchgear cubicle. The nameplate located on the front panel identifies all electrical characteristics and ratings.

Mount: The MT-CB-VA-R7-3P-AC-DTM-400A-25KA-56-WT-Z-Z-N4X-M1 circuit breaker is a horizontal drawout type designed for installation within compatible 5kV metal-clad switchgear. The breaker is operated by a motor-charged stored energy spring mechanism. Charging is normally performed by an electric motor and may be completed manually using the emergency

charging handle if required.

Certification: Designed and manufactured in accordance with IEEE C37.04 and IEEE C37.06 standards and intended for use in IEEE C37.20.2 compliant metal-clad switchgear assemblies.

Applications: The MT-CB-VA-R7-3P-AC-DTM-400A-25KA-56-WT-Z-Z-N4X-M1 is used in medium voltage power distribution systems to control and protect feeders, transformers, bus couplers, capacitor banks and industrial substations requiring reliable fault interruption and safe isolation.

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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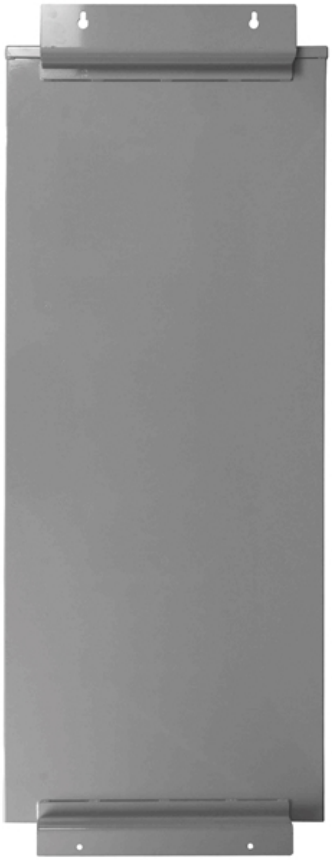

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Frequently Asked Questions (FAQ)

There are no Faqs