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MPD-RMU-VCB-3P3W-11-12KV-200A-21K-FM-BE-TLF-CU-N3

Ring Main Unit, Vacuum Circuit Breaker, 200A, 12kV AC, 3-Pole 3-Wire, 1 Tee-Off/1 Breaker, SF6 Gas-Insulated, Floor/Pad Mount Bottom Entry, Copper Bus, NEMA 3

Product ID: 341424

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



Image: MPD-RMU-VCB-3P3W-11-12KV-200A-21K-FM-BE-TLF-CU-N3

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.

MPD-RMU-VCB-3P3W-11-12KV-200A-21K-FM-BE-TLF-CU-N3 Ring Main Unit
Unit Type: Ring Main Unit, Non-Extensible Circuit Breaker, CT/Trip-Coil Protection (No Relay)

Made in the USA

Configuration: 3-Phase, 3-Wire

Rated Voltage: 12kV

BIL: 75kV

Frequency: 50/60Hz

Application: Transformer Protection, up to 1.6MVA at 11kV
Assembly Type: 1 Tee-Off (Ring) Way / 1 Circuit Breaker Way
Circuit Breaker Rated Current: 200A, Short Bushing
Busbar Rated Current: 630A
Short-Circuit Breaking Current: 21kA, 3s
Cable Earth Switch: 21kA, 3s
Transformer Earth Switch: 3.15kA, 3s
Internal Arc Class: IAC AF 21kA/1s (outdoor) / 12.5kA/1s (indoor)
Mounting Style: Floor/Pad-Mounted
Cable Entry: Bottom Entry / Bottom Exit
Bus Material: Copper

Features of Every Assembly
SF6 gas-insulated, sealed pressure system (maintenance-free)
Independent manual operation mechanism
CT-operated overcurrent/earth fault trip, with Time Limit Fuse provision
Mechanical tripped-on-fault flag indication
Mechanical ON/OFF indicator
Mechanical Earth/Main indicator
SF6 gas gauge
CB auxiliary contacts: 1NO, 2NC
Integral cable test facility
Anti-reflex operating handle

Enclosure Rating: IP54 (Indoor/Outdoor Design)

Protection Package
Protection CTs: Dual Ratio, 100/50/5A, Class X
Multi-Voltage Shunt Trip Coil: 20-250VDC / 110-250VAC
Time Limit Fuse Provision (Fuse Selection Per Application)
CB Auxiliary Contacts: 1NO, 2NC

Cable Connection
Main Cable Box, Bottom Entry Configuration
Gland Plate: 1 × 3-Core Cable, up to 300mm²

Mechanism
Independent Manual Operation
Provision for Motorized 24VDC Mechanism (Optional Kit)

Construction
SF6 Gas-Insulated, Sealed Pressure System
Rectangular Compartmental Enclosure, Dead-Front, Lockable Doors

Ratings & Approvals
Designed in accordance with applicable IEC 62271-200
Complies with applicable IEC and BS standards
Ingress Protection: IP54
Order Rating Code Reference: 12kV, 21kA, 75kV BIL, CN2-T6
All grounding shall comply with applicable NEC and local electrical codes

Dimensions & Shipping
Overall Dimensions: 32 in W × 33 in D × 70 in H (estimated)
Approximate Weight: 772 lbs (estimated)
Shipping Dimensions: TBD
Shipping Weight: TBD

Shipping
Shipped on pallet or skid
Crated shipment available upon request
Final shipping configuration subject to approved design

Options Available (Not Included in Base Unit)
Cable Voltage Present Indication (VPIS), with or without Voltage Output
Tripped-on-Fault Auxiliary Contact
Low Gas Pressure Indicator (-25°C to +55°C)
Emergency Circuit Breaker Trip Push Button
Motor Kit, 24VDC, for Circuit Breaker Operation
Metering Unit (Separate Add-On, Ref. MU2d Series)
Alternate Gland Plate/Cable Configurations (3×1C up to 630mm², Blank, Top Entry)
Anti-Vandal Fixings
Phase Indication Device
Keylock Options (Earth ON / Main OFF)

Special Orders – Special Requirements
Contact us for special requirements
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Customer Compliance
Final arrangements, sizes, ratings, and installation details will be finalized during detailed engineering review and customer approval prior to release for manufacture.

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 applicable drawings.

Made in the USA

The Larson Electronics MPD-RMU-VCB-3P3W-11-12KV-200A-21K-FM-BE-TLF-CU-N3 Ring Main Unit is designed to provide reliable, maintenance-free medium-voltage

switching and protection for utility and industrial ring distribution applications, including transformer protection up to 1.6MVA at 11kV. This floor/pad-mounted ring main unit incorporates one tee-off (ring) section and one non-extensible vacuum circuit breaker section, SF6 gas-insulated sealed construction, and CT-operated overcurrent/earth fault protection with Time Limit Fuse provision, within a dead-front compartmental enclosure.

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

The **MPD-RMU-VCB-3P3W-11-12KV-200A-21K-FM-BE-TLF-CU-N3** is engineered as a complete, sealed ring main switching assembly, combining an independently, manually operated vacuum circuit breaker section with a tee-off ring section and SF6 gas-insulated construction within a single compartmental enclosure. This maintenance-free design eliminates exposure of live parts to atmospheric conditions, providing reliable long-term service for ring distribution network applications.

Ring Main / Switching Package:
The assembly incorporates one vacuum circuit breaker section rated 200A continuous current with short bushing, and one tee-off (ring) section. The unit carries a 21kA short-circuit breaking current rating (3-second), a cable earth switch rated 21kA (3-second), and a transformer earth switch rated 3.15kA (3-second). The busbar is rated 630A continuous. An independent manual operation mechanism is provided, with provision for an optional motorized 24VDC mechanism kit.

Protection Package:
The unit incorporates CT-operated overcurrent and earth fault protection with Time Limit Fuse (TLF) provision — this configuration does not include a microprocessor-based relay. Dual-ratio protection current transformers (100/50/5A, Class X) are provided, along with a multi-voltage shunt trip coil (20-250VDC / 110-250VAC). Mechanical indication is provided for tripped-on-fault flag, ON/OFF status, and Earth/Main position, along with an SF6 gas gauge. CB auxiliary contacts (1NO, 2NC) and an integral cable test facility are included.

Bus System:
The assembly utilizes a copper bus system throughout, with bottom entry/bottom exit cable arrangement for both incoming and outgoing connections via a main cable box with gland plate sized for 1×3-core cable up to 300mm².

Assembly Construction:
The ring main unit is furnished as a complete floor/pad-mounted assembly incorporating the vacuum circuit breaker section, tee-off section, earth switches, and protection package within a single SF6 gas-insulated, dead-front compartmental enclosure with lockable doors and an anti-reflex operating handle.

Construction:
The assembly features SF6 gas-insulated, sealed pressure system construction, providing a maintenance-free switching environment protected from atmospheric exposure. The enclosure is rectangular and compartmental, with dead-front construction and lockable access doors, rated IP54 for indoor/outdoor service.

Available Options (Not Included in Base Configuration): Cable voltage present indication (VPIS), tripped-on-fault auxiliary contact, low gas pressure indicator, emergency trip push button, 24VDC motor kit, separate metering unit (MU2d series), alternate gland/cable configurations, anti-vandal fixings, phase indication device, and keylock options.

Ratings & Approvals:
The assembly is designed in accordance with applicable IEC 62271-200 and complies with applicable IEC and BS standards. Ingress protection is rated IP54. All grounding provisions shall comply with applicable national, state, and local electrical codes, meeting the minimum requirements of NEC Section 250.

Customer Compliance: The final arrangements, sizes, ratings, settings, configuration, and installation details of this equipment will be established in accordance with detailed engineering review, applicable project documentation, and customer approval prior to manufacture.

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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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