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

MPD-MES-VCB-3P4W-12-38KV-600A-BE-FM-REL-CU-N3R-M2

Metal Enclosed Vacuum Circuit Breaker Switchgear, Medium Voltage - 38 kV, 3-Phase, 4-Wire, 600A, (1) Incomer, (2) Outgoings - NEMA 3R

Product ID: 332685

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



Image: MPD-MES-VCB-3P4W-12-38KV-600A-BE-FM-REL-CU-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.

MPD-MES-VCB-3P4W-12-38KV-600A-BE-FM-REL-CU-N3R-M2 MV Metal Enclosed Switchgear Cabinet

Unit Type: Medium Voltage Switchgear Cabinet, Vacuum Circuit Breaker Switchgear
Line-In: N/A (customer provided)
Line-In Cord Cap: N/A (customer provided)
Line-In Connections: N/A
Line-In Orientation: N/A
Protection: Fused
Nominal Voltage: 38 kV AC
Rated Max Voltage: 38 kV AC
Rated BIL Voltage: 170 KV
Continuous Current Rating: 800A
Short-Time And short-Circuit Interrupting Current: 25 KA (3 Sec.)
Phase: 3-Phase

Features Of Every Vertical Section

Structural design and anchorage adequate to resist loads imposed by 125 mph wind.
Space heater operating at one-half or less of rated voltage, sized to prevent condensation, controlled by thermostats to maintain temperature of each section above expected dew point.
Louvers equipped with insect and rodent screens and filters, and arranged to permit air circulation while excluding rodents and exterior dust.
Weatherproof ground-fault circuit interrupter duplex receptacles
Skid Mounted: Mount each shipping group on an integral base frame as a complete weatherproof unit

Frequency (Hz): 60 Hz
Wire: 4-wire
Neutral Connection: Included

Incoming Breaker:

(1) Vacuum Circuit Breaker, 600A, 25 kA, 3P, 4W, Motorized

Metering Section:
Consists Of Pre-wired CTs and PTs for Protection Relays

Main Breaker Protective Features:
Adjustable trip settings
Overcurrent Protection (50/51)

Ground Fault Protection (50G/51G)

Bonding jumper between neutral and ground installed inside main breaker compartment

Outgoing Breaker(s):
(2) Vacuum Circuit Breakers, 600A Frame, Feeder Rated
• Feeder #1: 30A
• Feeder #2: 70A

Surge Arrestors: Included, 36 kV Class, 29 kV MCOV, Metal Oxide Varistor Type
Feeder Protection Relay: Included, SEL-751 Feeder Protection Relay
Current Transformer(s): Included, 600:5 Ratio, Protection Class
Potential Transformer(s): Included, 100:1 Ratio, 0.3% Accuracy Class, w/ Test Switch
Auxiliary Transformer: Included, 1-Phase, 38kV:120/240V Control Power Transformer
Control Voltage: 24V DC
Support Frame And Enclosure Base Material: Carbon Steel, Reinforced Base Frame
Busbar Material: Copper
Enclosure Finish: ANSI 61 Light Grey Powder Coat
Enclosure Type: NEMA 3R Ventilated, Weatherproof
Cable Entry: Bottom Entry
Mounting: Floor Mount/ Pad Mount
Dimensions: TBD
Weight: TBD
Shipping Dimensions: TBD
Shipping Weight: TBD
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.

Shipping:
Shipped on pallet on open flatbed
Palletized on Wooden Pallet w/ Skid Pockets
Pallet Skid Facing Outward Sides of Truck
Note: *Crated shipping in lieu of palletizing can be done upon request for an additional fee*

Ratings/Approvals
ANSI and IEEE Standards for Switchgear
NEMA 3R Indoor/Outdoor Use
Complies With IEEE C37.74
Complies With IEEE C37.60
Complies With IEEE C2
Complies With IEEE C37.20.3
Complies With Utility Company's (PSEG) Primary Metering Specification Standard CS-8735

Complies With IEEE C57.12.28

Complies With IEEE C37.2
Complies With IEEE 1815
Complies With IEEE 386
Complies With IEEE C62.11
Complies With IEEE 1547
UL Listed
UL Compliant UPS 24 Vdc and Charger
Service Rated
Made in the USA

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

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

Made in the USA

The Larson Electronics MPD-MES-VCB-3P4W-12-38KV-600A-BE-FM-REL-CU-N3R-M2 Medium Voltage Metal Enclosed Switchgear Cabinet provides centralized access to vacuum circuit breakers in rugged industrial and utility environments. This unit

consists of three vertical sections and is compatible with three-phase 38 kV AC systems. Designed for outdoor applications, the NEMA 3R weatherproof system features two outgoing feeder breakers and one incoming main breaker.

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

The MPD-MES-VCB-3P4W-12-38KV-600A-BE-FM-REL-CU-N3R-M2 medium voltage switchgear cabinet protects, controls and isolates equipment in industrial facilities and substations. Compatible with three-phase 38 kV AC, the unit features a 600A incoming vacuum circuit breaker rated for 25 kA short-circuit interrupting capacity. The primary section includes protection-class CTs (600:5 ratio) and PTs connected to a SEL-751 feeder protection relay to provide (50) Instantaneous Overcurrent, (51) Time Overcurrent, and (50G/51G) Ground Fault protection functions. Two outgoing vacuum circuit breaker feeders distribute power safely to downstream loads.

Enclosure Design: A ventilated, metal-enclosed design promotes air circulation and thermal stability while protecting internal components. The enclosure is NEMA 3R rated and suitable for outdoor installation, featuring weather-resistant construction and bottom cable entry.

Certification: This switchgear cabinet complies with ANSI and IEEE standards.

Applications: This switchgear is suitable for outdoor installations and applications including, but not limited to, substations, industrial plants, renewable energy interconnections, oil and gas facilities, utility distribution systems, manufacturing operations, and large commercial power distribution.

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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