

MPD-SWGR-MV-FS-CTC-3P-4W-12KV-630A-BM-N3R-M1

MV Switchgear Cabinet- 12 kV 3-phase, 4-wire - 630A, 2X630A Outgoing - NEMA 3R - Light Grey
Product ID: 311431



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-SWGR-MV-FS-CTC-3P-4W-12KV-630A-BM-N3R-M1 MV Switchgear Cabinet

Unit Type: Medium Voltage Switchgear Cabinet

Nominal System Voltage: 12 kV AC

Rated Max Voltage: 17.5 kV

Rated BIL Voltage: 95 kV

Continuous And Load Interrupting Current: 630A

Short-Time And short-Circuit Interrupting Current: 50 KA, Sym.

Phase (PH): 3-Phase

Wire: 4-wire

Frequency (Hz): 60 Hz (60-Cycles)

System ground: Solidly Grounded

Incoming (Line / Mains) Type: Power Cables

Control Voltage: 110 VAC

Indicating Lights: Included, 0.63 inch Led

Control Power Transformer: Included, 3-Phase, 120V AC Secondary

Space Heaters: Included

Infrared View Ports: Included

Remote Control Panel Provisions: Included

Remote Racking Device: Included, Cord Length 25ft

Ratings:

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 C37.2

Complies With IEEE 1815

Complies With IEEE 386

Complies With IEEE C62.11

Cabinet 1 (Main Generator 1):

Circuit Breaker Frame Size: 630A

Circuit Breaker Current Rating: 630A

Circuit Breaker Nominal Voltage: 12 kV AC, 3-Phase

Circuit Breaker Poles: 3-Poles

Circuit Breaker Instantaneous Short Circuit Current: 20kA

Circuit Breaker 3-Cycle Interrupting: Included
Circuit Breaker Shunt Trip: Included
Circuit Breaker Manual Control: Included
Circuit Breaker Electric Control: Included
Spare Auxiliary Switch Contacts: Included
No. Of Power Cables (Per Phase): (8)
Size Of Power Cables (Per Phase): 500 KCMIL
No. Of Conduits: (8)
Size Of Conduit: 4 inches

Cabinet 2 (Main Generator 2):

Circuit Breaker Frame Size: 630A
Circuit Breaker Current Rating: 630A
Circuit Breaker Nominal Voltage: 12 kV AC, 3-Phase
Circuit Breaker Poles: 3-Poles
Circuit Breaker Instantaneous Short Circuit Current: 20kA
Circuit Breaker 3-Cycle Interrupting: Included
Circuit Breaker Shunt Trip: Included
Circuit Breaker Manual Control: Included
Circuit Breaker Electric Control: Included
Spare Auxiliary Switch Contacts: Included
No. Of Power Cables (Per Phase): (8)
Size Of Power Cables (Per Phase): 500 KCMIL
No. Of Conduits: (8)
Size Of Conduit: 4 inches

Cabinet 3 (PT's):

Quantity: (3)
Rating: 12 kV -120V, 1 KVA

Cabinet 4 (Feeder 1):

Circuit Breaker Frame Size: 630A
Circuit Breaker Current Rating: 630A
Circuit Breaker Nominal Voltage: 12 kV AC, 3-Phase
Circuit Breaker Poles: 3-Poles
Circuit Breaker Instantaneous Short Circuit Current: 20kA
Circuit Breaker 3-Cycle Interrupting: Included
Circuit Breaker Shunt Trip: N/A
Circuit Breaker Manual Control: Included
Circuit Breaker Electric Control: N/A
Spare Auxiliary Switch Contacts: Included
No. Of Power Cables (Per Phase): (8)
Size Of Power Cables (Per Phase): 500 KCMIL
No. Of Conduits: (8)
Size Of Conduit: 4 inches

Cabinet 5 (Feeder 2):

Circuit Breaker Frame Size: 630A
Circuit Breaker Current Rating: 630A
Circuit Breaker Nominal Voltage: 12 kV AC, 3-Phase
Circuit Breaker Poles: 3-Poles
Circuit Breaker Instantaneous Short Circuit Current: 20kA
Circuit Breaker 3-Cycle Interrupting: Included
Circuit Breaker Shunt Trip: N/A
Circuit Breaker Manual Control: Included
Circuit Breaker Electric Control: N/A
Spare Auxiliary Switch Contacts: Included
No. Of Power Cables (Per Phase): (8)

Size Of Power Cables (Per Phase): 500 KCMIL

No. Of Conduits: (8)

Size Of Conduit: 4 inches

Cabinet 6 (Feeder 3):

Circuit Breaker Frame Size: 630A

Circuit Breaker Current Rating: 630A

Circuit Breaker Nominal Voltage: 12 kV AC, 3-Phase

Circuit Breaker Poles: 3-Poles

Circuit Breaker Instantaneous Short Circuit Current: 20kA

Circuit Breaker 3-Cycle Interrupting: Included

Circuit Breaker Shunt Trip: N/A

Circuit Breaker Manual Control: Included

Circuit Breaker Electric Control: N/A

Spare Auxiliary Switch Contacts: Included

No. Of Power Cables (Per Phase): (8)

Size Of Power Cables (Per Phase): 500 KCMIL

No. Of Conduits: (8)

Size Of Conduit: 4 inches

Cabinet 7 (Feeder 4):

Circuit Breaker Frame Size: 630A

Circuit Breaker Current Rating: 630A

Circuit Breaker Nominal Voltage: 12 kV AC, 3-Phase

Circuit Breaker Poles: 3-Poles

Circuit Breaker Instantaneous Short Circuit Current: 20kA

Circuit Breaker 3-Cycle Interrupting: Included

Circuit Breaker Shunt Trip: N/A

Circuit Breaker Manual Control: Included

Circuit Breaker Electric Control: N/A

Spare Auxiliary Switch Contacts: Included

No. Of Power Cables (Per Phase): (8)

Size Of Power Cables (Per Phase): 500 KCMIL

No. Of Conduits: (8)

Size Of Conduit: 4 inches

Primary Fuses: Current-limiting bolt-in single-barrel type suitable for installation in the interrupter switch fuse holders without modification, rated 4.76kV maximum, 720E amperes, capable of interrupting 37.5kA symmetrical

Surge Arrestors: 2.55kV rms MCOV, fully shielded, dead-front, metal-oxide type, station class

Power Cable Entry: Bottom

Power Cable Termination Type: Mechanical

Power Cable Termination: By Customer

Control Cable Entry: Bottom, Front

Max Wind Speed: 116 mph

Snow Load: 5 psf

Altitude: 1800ft

Temperature Operating Range: -20°C to 45°C

Service Location: Indoor/Outdoor

Support Frame And Enclosure Base Material: Powder Coated Steel

Enclosure Finish: Light Grey (ANSI #61)

Enclosure Type: NEMA 3R Ventilated, Weatherproof, Non Walk-In Enclosure

Mounting: Integral skid mounting frame, designed for mounting on a concrete pad, suitable to allow skidding or rolling of the switchgear in any direction, and with provision for anchoring the frame to the pad

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.

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

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-SWGR-MV-FS-CTC-3P-4W-7C40-12KV-630A-BM-N3R-M1 Medium Voltage Switchgear Cabinet provides centralized access to breakers in rugged work sites. This unit consists of seven cabinets and is compatible with three-phase 12 kV AC. Designed for

indoor/outdoor applications, the NEMA 3R system features six branch breakers.

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

The MPD-SWGR-MV-FS-CTC-3P-4W-7C4O-12KV-630A-BM-N3R-M1 Medium voltage switchgear cabinet protects, controls and isolates equipment in industrial facilities. Compatible with three-phase 12kV AC, the unit features an Incoming 2 x 630A main circuit breakers & 2 x 630A Outgoing Circuit Breakers. The primary switch has Multi-Function Protection Relay with the following (50) Instantaneous Overcurrent, (51) Phase Time Overcurrent & (51G) Time Delay Ground Overcurrent.

Enclosure Design: A ventilated design promotes natural cooling and improves performance. The enclosure is NEMA 3R rated and can be used in indoor areas.

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

Applications: This switchgear is suitable for indoor use and applications including, but not limited to, construction sites, plant maintenance, plant turnarounds, manufacturing operations, shows, exhibits, and warehouse operations.

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Frequently Asked Questions (FAQ)