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MPD-MES-LBSG-3P3W-1-35KV-1200A-FX-FM-R.M.-N4.C-WSP-M1

Metal Enclosed Switchgear, SF6 Load Break Switch, 3-Ph, 3-Wire, Single Unit, 35kV, 1200A, Floor-Mounted, Relay + Meter, Motor Operator, NEMA 4 (Cont. Cabinet)

Product ID: 339099

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



Image: MPD-MES-LBSG-3P3W-1-35KV-1200A-FX-FM-R.M.-N4.C-WSP-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.

MPD-MES-LBSG-3P3W-1-35KV-1200A-FX-FM-R.M.-N4.C-WSP-M1 Metal Enclosed Switchgear

Unit Type: SF□ Load Break Switch
Configuration: 3-Phase, 3-Wire
Assembly Type: Single Unit
Voltage Class: 35kV AC
Frequency: 60Hz
Continuous Current Rating: 1200A
Mounting Style: Fixed Type
Mounting Configuration: Floor Mounted
Protection & Monitoring: Relay + Meter
Additional Controls: Motor Operator

Made in the USA

Features of Every Assembly

SF□ Gas Insulated Switching Device
Motor Operator
Internal Spring Assisted Operating Mechanism
Relay & Meter Integration
PT & CT Integration
Local & Remote Operation
NEMA 4 Control Cabinet
Dual 120VAC Control Inputs
Battery Backup
Position Monitoring
Factory Wired Control Assembly
Final Control Philosophy Subject to Customer Approval

Ratings & Approvals

Designed in accordance with applicable ANSI, IEEE C37.74, ANSI C57.12.28, NEC and NEMA standards
Suitable for Outdoor Utility Applications

All grounding shall comply with applicable state and local codes and NEC requirements

SF□ Load Break Switch Package
Quantity: One (1) Three-Pole SF□ Load Break Switch
Voltage Class: 35kV
Continuous Current Rating: 1200A
Three-Pole Gang Operated
Fixed Mounted Construction
Motor Operated
Manual Operation Capability
Internal Spring Assisted Mechanism
Local / Remote Operation
Open / Closed Position Indication
Mechanical Position Indicator
External Padlocking in All Operating Positions
Internal Tank Mounted Construction
Quick-Change Replaceable Bushings

Relay & Meter Package
Protection Relay
Digital Power Meter
Protection CT Package
Metering CT Package
Protection PT Package
Metering PT Package
Relay Interface Terminal Blocks
Meter Interface Terminal Blocks
Alarm Output Contacts
Status Output Contacts
Remote Monitoring Capability

Instrument Transformer Package
Potential Transformers Installed Within Switch Tank
Current Transformer Package
Protection PT Package
Metering PT Package
Protection CT Package
Metering CT Package
PT Fuse Protection
Factory Wired PT Assembly
PT Connected to Control Circuit

Motor Operator & Control Cabinet
NEMA 4 Control Cabinet
Dual 120VAC Control Inputs
Battery Backup
Convenience Receptacle
12" DIN Rail Mounting Provision
Local Control Switches
Local / Remote Selector Switch
Manual Motor Disconnect
Factory Wired Control Assembly
Factory Pre-Terminated Motor Operator Cable
Control Terminal Blocks

Separate Weatherproof Control Cabinet

Monitoring & Status Package
Internal Position Indication
External Position Indication
Switch Position Monitoring

Remote Alarm Contacts
Remote Status Contacts
De-Energized Status Output
Low Pressure Warning Device (LPWD)
Gas Pressure Monitoring
One (1) Form-C Auxiliary Contact

Bushings & Connections
Quick-Change Replaceable Bushings
Field Replaceable Bushings
Mechanical Cable Connections
Bus Connection Provisions

Tank Construction
1/4" Welded Mild Steel Tank Construction
Welded Steel Fabrication
Galvanized Steel Enclosure
Factory Applied Finish
Outdoor Utility Construction

Bus & Electrical Construction
Three-Phase Bus Construction
Medium Voltage Insulation System
Factory Assembled Construction
Bus Material Subject to Final Engineering

Construction
Heavy Gauge Steel Construction
Floor Mounted Design
Pad Mounting Provisions
Slotted Anchor Holes
Lockable Access Provisions
Lifting Provisions Included

Other Specs
Motor Operated SF□ Load Break Switch
Internal Spring Assisted Operating Mechanism
Relay & Meter Package
PT & CT Integration
NEMA 4 Control Cabinet
Dual 120VAC Control Inputs
Battery Backup
Factory Wired Control Assembly
Factory Pre-Terminated Motor Operator Cable
Convenience Receptacle
Quick-Change Replaceable Bushings
Position Monitoring
Alarm Output Contacts
Status Output Contacts
Gas Pressure Monitoring
Low Pressure Warning Device (LPWD)

Special Features
Motor Operated SF□ Load Break Switch
Internal Spring Assisted Operating Mechanism
Relay & Meter Integration
Integrated PT & CT Package
NEMA 4 Control Cabinet
Dual 120VAC Control Supply

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
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E-mail: sales@larsonelectronics.com

Battery Backup
Factory Wired Control Assembly
Factory Pre-Terminated Motor Operator Cable
Local & Remote Operation
External Padlocking in All Operating Positions
Quick-Change Replaceable Bushings
Convenience Receptacle
Position Monitoring
Alarm Output Contacts
Status Output Contacts
Gas Pressure Monitoring
Low Pressure Warning Device (LPWD)

Final relay model, power meter model, CT/PT manufacturer and ratios, instrument transformer accuracy classes, communications protocol, control philosophy, control wiring, motor operator interface, battery backup arrangement, control cabinet layout, convenience receptacle configuration, alarm philosophy, status outputs, bushing configuration, bus material, enclosure details, cable termination arrangement, finish color, factory testing requirements, and all owner-specific accessories shall be finalized during detailed engineering review and customer approval.

Larson Electronics manufactures a wide variety of custom medium-voltage 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 engineered. The specifics for this configuration are listed in the specification table and applicable drawings.

Made in the USA

The Larson Electronics MPD-MES-LBSG-3P3W-1-35KV-1200A-FX-FM-R.M.-N4.C-WSP-M1 Metal Enclosed Switchgear is designed to provide dependable medium-voltage switching, sectionalizing, and distribution for utility and industrial power systems. This metal enclosed switchgear incorporates a three-pole SF□ load break switch, an integrated protection relay and digital power meter package, instrument transformers, motor operator controls, and a separate NEMA 4 weatherproof control cabinet. Designed for operation on 35kV AC, three-phase, three-wire systems operating at 60Hz, the assembly is rated for 1200A continuous current and features a fixed-mounted floor-standing design suitable for outdoor utility applications. The motor-operated switching mechanism supports both local and remote operation while providing reliable switching performance for medium-voltage distribution systems.

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

The **MPD-MES-LBSG-3P3W-1-35KV-1200A-FX-FM-R.M.-N4.C-WSP-M1** is engineered for applications requiring medium-voltage load switching together with integrated protection, metering, and motorized operation. The assembly combines an SF□ gas insulated load break switch, instrument transformers, relay and meter integration, and a factory-wired control system to provide dependable switching, monitoring, and control for utility and industrial distribution networks.

SF□ Load Break Switch Package:
The assembly incorporates one fixed-mounted, three-pole SF□ gas insulated load break

switch rated for 35kV and 1200A continuous current. The switch features gang-operated contacts, an internal spring-assisted operating mechanism, motorized operation, manual operating capability, open and closed position indication, mechanical position indication, and external padlocking provisions in all operating positions. The switch tank incorporates quick-change replaceable bushings to facilitate maintenance and field servicing.

Relay, Meter & Instrument Transformer Package:
The switchgear incorporates an integrated protection relay and digital power meter together with dedicated protection and metering current transformers, potential transformers, PT fuse protection, and associated interface terminal blocks. Alarm contacts, status contacts, and remote monitoring capability are included to support system supervision and automation. The potential transformers are installed within the switch tank and factory wired to the control system. Final relay model, power meter model, CT/PT manufacturer, ratios, and accuracy classes shall be determined during detailed engineering review and customer approval.

Motor Operator & Control Cabinet:
A separate NEMA 4 weatherproof control cabinet houses the motor operator controls and associated control equipment. The control package includes dual 120VAC control inputs, battery backup, local control switches, local/remote selector switch, manual motor disconnect, convenience receptacle, 12-inch DIN rail mounting provisions, factory-installed terminal blocks, and a factory pre-terminated motor operator cable. The complete control assembly is factory wired and tested prior to shipment.

Monitoring & Status Package:
The assembly provides comprehensive operational monitoring through internal and external position indication, switch position monitoring, remote alarm contacts, remote status contacts, de-energized status output, gas pressure monitoring, and a low pressure warning device (LPWD). One Form-C auxiliary contact is provided to support customer control and monitoring interfaces.

Bushings & Electrical Construction:
The switchgear incorporates quick-change, field-replaceable bushings together with mechanical cable connection provisions and bus connection provisions to facilitate installation and maintenance. The medium-voltage electrical system utilizes three-phase bus construction and factory-assembled insulation components, with final bus material determined during detailed engineering review.

Assembly Construction:
The switchgear is furnished as a complete floor-mounted assembly incorporating the SF□ load break switch, integrated relay and metering package, instrument transformers, motor operator system, separate NEMA 4 control cabinet, monitoring devices, electrical connections, and associated control wiring. The integrated design provides centralized medium-voltage switching and monitoring while supporting local and remote operation.

Construction:
The switch assembly utilizes a welded 1/4-inch mild steel tank with galvanized steel enclosure components and a factory-applied outdoor finish. Construction features include heavy-gauge steel fabrication, floor-mounted installation, pad mounting provisions, slotted anchor holes, lockable access provisions, and lifting points for handling and installation in outdoor utility

environments.

Special Features:
This switchgear incorporates a motor-operated SF load break switch with an internal spring-assisted operating mechanism, integrated protection relay and digital power meter, instrument transformer package, separate NEMA 4 weatherproof control cabinet, dual 120VAC control inputs, battery backup, factory-wired control assembly, factory pre-terminated motor operator cable, quick-change replaceable bushings, gas pressure monitoring, and local/remote operating capability.

Ratings & Approvals:
The switchgear is designed in accordance with applicable ANSI, IEEE C37.74, ANSI C57.12.28, NEC, and NEMA standards. The assembly is suitable for outdoor utility applications, and all grounding provisions shall comply with applicable state and local electrical codes together with NEC requirements.

Final relay model, power meter model, CT/PT manufacturer and ratios, instrument transformer accuracy classes, communications protocol, control philosophy, control wiring, motor operator interface, battery backup arrangement, control cabinet layout, convenience receptacle configuration, alarm philosophy, status outputs, bushing configuration, bus material, enclosure details, cable termination arrangement, finish color, factory testing requirements, and customer-specific accessories shall be finalized during detailed engineering review and customer approval.

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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

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Export Control Classification Number (ECCN): EAR99

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