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-EMC-MM-3P-480.277V-400.5CT-N1

480V Digital Electrical Metering Cabinet, CT-Only, Revenue Grade, Form 9S, 3-Phase - Dry Type - Wall Mount, Indoor Service, NEMA 1

Product ID: 342258

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



Image: MPD-EMC-MM-3P-480.277V-400.5CT-N1

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-EMC-MM-3P-480.277V-400.5CT-N1 Digital Multi-Meter Assembly
Unit Type: Digital Multi-Meter Assembly, NEMA-1 Enclosure

Made in the USA

Meter Socket Type: Form 9S, 13-Terminal

Configuration: 3-Phase, 4-Wire, Monitored Circuit

Monitored Circuit Voltage: 480Y/277V
Voltage Connection Type: Self-Contained (Direct-Connected), No PTs Required

Monitored Source: Associated Distribution Panelboard

Enclosure: NEMA 1
Mounting: Surface, Wall Mounted
Front Type: Dead Front

Metering Package
Digital Multi-Meter, Revenue Grade, ANSI C12.20 Accuracy Class 0.2%

kWh / Max. Peak Demand Amps / Voltage Display, Pulse/AMI-Ready Output

Current Transformers: (3), Dry Type, 400:5 Ratio, Metering Accuracy Class, Per Phase
In-Line Fuse Protection, Per Phase
Dedicated Branch Circuit Breaker Feed (15A/3-Pole, from Associated Panelboard)

Features of Every Assembly
Digital display with kWh, max. peak demand amps, and voltage monitoring
Form 9S socket-mounted meter base
In-line fuse protection per phase
Current transformers included, sized to the monitored feeder
Dedicated circuit breaker feed from source panelboard
Utility/AHJ meter seal provisions

Ratings & Approvals
NRTL Listed
Meter: ANSI C12.20 Revenue Accuracy
All wiring and grounding shall comply with applicable NEC and local electrical codes

Construction
NEMA 1 Indoor Enclosure
Wall-Mounted, Surface Installation
Dead Front Construction

Dimensions & Shipping
Overall Dimensions: 16 in W × 8 in D × 20 in H (estimated)
Approximate Weight: 35 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

Special Features
Standalone Metering Enclosure, Form 9S, Dry-Type CT-Only Monitoring, Dedicated Panelboard Feed

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

Customer Compliance
Final arrangements, sizes, ratings, settings, configuration, 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-EMC-MM-3P-480.277V-400.5CT-N1 Digital Electrical Metering Cabinet provides revenue-grade, CT-only power monitoring for a 480Y/277VAC, three-phase, four-wire service. This unit consists of a Form 9S socket-mounted digital meter housed in a NEMA 1 enclosure, wall mounted and wired to a dedicated branch circuit within an associated distribution panelboard. The assembly is current-transformer (CT) rated only — voltage inputs are self-contained (direct-connected) at 480Y/277V, while current sensing is provided through externally mounted, dry-type current transformers sized 400:5, eliminating the need for potential transformers at this voltage class.

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

The assembly is engineered to provide reliable, continuous, revenue-accuracy monitoring of panelboard feeder circuits. The digital meter is fed from a dedicated branch circuit breaker within the associated panelboard and connects via a Form 9S, 13-terminal socket base to (3) dry-type current transformers, sized 400:5 ratio, one per phase, with in-line fuse protection provided per phase for instrument circuit protection. The assembly is suitable for facility installations requiring dedicated, standalone, billing-grade power monitoring separate from the primary distribution equipment.

Metering Package
The assembly incorporates a Form 9S, socket-mounted digital revenue meter, ANSI C12.20 Accuracy Class 0.2% (revenue grade), providing continuous display of kilowatt-hour consumption, maximum peak demand amperage, and voltage, with pulse/AMI-ready output for remote reading where required. Current sensing is provided by (3) dry-type, metering-accuracy-class current transformers, 400:5 ratio, rated per phase, sized to the monitored panelboard feeder. Voltage inputs are self-contained (direct-connected, no PTs required at 480Y/277V), consistent with a Form 9S, CT-only configuration. In-line fuse protection is furnished per phase in accordance with the meter manufacturer's installation requirements. The unit is fed from a dedicated branch circuit breaker within the associated panelboard, with power and CT wiring routed via conduit between the panelboard and the meter enclosure.

Construction
The assembly is constructed with a NEMA 1 indoor enclosure suitable for wall-mounted, surface installation. Dead-front construction conceals internal wiring and metering components behind a hinged, latching cover. The current transformers are dry-type (air-insulated), requiring no oil or liquid dielectric medium, consistent with a compact, maintenance-free installation.

Special Features
Special features include a standalone metering enclosure design, Form 9S socket-mounted revenue meter, dry-type CT-only current sensing, self-contained (direct) voltage connection at 480Y/277V, and a dedicated panelboard feeder connection separate from the primary distribution equipment. Provisions for utility/AHJ sealing of the meter socket and cover are included where required for revenue metering applications.

Ratings & Approvals
The assembly is NRTL Listed. The digital meter meets ANSI C12.20 revenue accuracy requirements; current transformers are metering accuracy class, dry-type construction. All wiring and grounding provisions shall comply with applicable state, local, and National Electrical Code requirements.

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.

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.

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

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Frequently Asked Questions (FAQ)

There are no Faqs

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/342258.JPG)
- **Video1**(https://www.youtube.com/watch?v=4-JEyYeYcn8)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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