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MPD-MCC-WTC-3P3W-01-480V-1200A-TE-FM-MET-CU-N1

Motor Control Center Lineup, 1200A Main Bus, Common Auxiliaries, 480V AC 3-Phase, 3-Wire, NEMA 1 Indoor, Drawout Units

Product ID: 346308

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



Image: MPD-MCC-WTC-3P3W-01-480V-1200A-TE-FM-MET-CU-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-MCC-WTC-3P3W-01-480V-1200A-TE-FM-MET-CU-N1 - Motor Control Center Lineup

Made in the USA

Unit Type: Motor Control Center Lineup, Drawout Combination Starter and Feeder Breaker Units

Configuration: 3-Phase, 3-Wire
Application: Common Plant Auxiliary Loads, Motor Starters and Feeder Breakers
Nominal Voltage: 480V, Maximum Voltage: 600V
Frequency: 60Hz
Main Bus Continuous Current: 1,200A
Short Circuit Rating: 65kA RMS Symmetrical
System Grounding: 480Y/277V High-Resistance Grounded, 8A, 10 sec, 35Ω
Mounting Style: Free-Standing, Floor Mounted
Cable Entry: Main Source Top Entry; Provisions for Top or Bottom Power and Control Entry
Bus Material: Copper, Isolated
Enclosure Type: NEMA 1 Indoor, Neoprene Gasketed, No. 61 Light Gray Finish

Incoming Section

Main Lugs Only (MLO), Cable Source

Terminal Lugs, 4 x 500 kcmil per Phase, Source from Above

Features of Every Vertical Section

Isolated Main and Vertical Power Bus
Individual Steel-Barriered Compartment for Each Unit
Drawout Combination Starter Units
Lockable External Handles with Door Interlocks
Vertical Wireway with Separate Door

Ratings & Approvals

UL 845 Motor Control Centers
NEMA ICS 1 General Requirements
NEMA ICS 2 Controllers, Contactors and Overload Relays
UL 508 Industrial Control Equipment
Designed in accordance with applicable NEC requirements
All grounding shall comply with applicable NEC and local electrical codes

Bus System
1,200A Copper Main Bus, Isolated
Vertical Bus: Copper, Isolated, Main Source Section Rated Equal to Main Bus, 300A Minimum Elsewhere
Copper Ground Bus, 250 kcmil Copper Lug Provisions at Each End

Starter Units
Drawout, Combination Breaker Type, Full-Voltage Magnetic, 3-Pole
Starter Sizing: Per Final Load Schedule
Solid-State Adjustable Overload Relays
Individual Fused CPT, 120V AC Secondary, Fused Primary and Secondary
CPT Minimum Rating: 150VA (Size 1-2), 200VA (Size 3), 250VA (Size 4-5)
Interposing Relays, Size 3 and Larger
460V Holding Coils with Interposing Relays, Size 5 and Larger
External Lockable Handle, Door and Drawout Interlocked with Breaker

Feeder Breakers
Molded Case, 600V AC, Manually Operated, Trip-Free
External Lockable Handle with On/Off/Tripped Indication
Starter Breakers: Adjustable Instantaneous-Only
Other Breakers: Inverse-Time Thermal and Instantaneous Magnetic
Interrupting Capacity at 480V Not Less Than MCC Short-Circuit Rating, No Current-Limiting Fuses Required
Ambient Compensated to 50°C
Interchangeable Trip Units on 225A Frames and Larger

Control & Wiring
Wiring Class: NEMA ICS 2 Class I, Type B
Control Terminal Blocks: Pull-Apart Type, 20A, 600V
Spare Auxiliary Contacts Wired to Terminal Blocks
Oiltight LED Pilot Devices
Engraved Laminated Plastic Nameplates

Construction
Free-Standing Vertical Sections, Nominally 20 in W Each, Joined for Field Addition
Steel Enclosure, No. 61 Light Gray, Corrosion-Resistant Primer plus Minimum Two Finish Coats
NEMA 1 Indoor, Neoprene Gasketed Enclosure
Vertical Wireway with Separate Door, Top and Bottom Horizontal Wiring Troughs
Spare Space: 10-20%, Guide Rails, Separator Bars and Cover Plates
Permanent Base Leveling Sills

Dimensions & Shipping
Overall Dimensions: 200 in W × 20 in D × 90 in H (estimate)

Approximate Weight: 9,500 lbs (estimate)

Shipping Dimensions: TBD
Shipping Weight: TBD

Shipping
Shipped Standard Freight per Manufacturer Practice
Final shipping configuration subject to manufacturer confirmation

Special Features
Drawout Starter Units, Isolated Bus, Lockable Door Interlocks, Custom Engineered Configuration

Special Orders – Special Requirements

Contact us for special requirements

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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-MCC-WTC-3P3W-01-480V-1200A-TE-FM-MET-CU-N1 Motor Control Center provides centralized motor starting, feeder circuit protection and power distribution for common plant auxiliary loads in rugged industrial and commercial work sites. This unit is compatible with three-phase 480V AC, 3PH 3W systems and features a 1200A copper main bus with drawout combination starter and feeder breaker units. Designed for indoor applications, this unit is NEMA 1 rated.

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

The **MPD-MCC-WTC-3P3W-01-480V-1200A-TE-FM-MET-CU-N1** MCC is designed for use in low voltage motor control systems operating up to 600V AC, 60 Hz, with a short-circuit current rating of 65 kA rms. Each unit is housed in its own isolated compartment with steel barriers, a dedicated vertical wireway and lockable door interlocks, giving operators safe front access to all buses, starters and control devices. The lineup is suited to 480Y/277V high-resistance grounded systems (8A, 10 sec, 35Ω) and accepts main source cable entry from above, with provisions for top or bottom power and control cable entry.

Bus System: The main bus is an isolated 1200A copper bus with isolated copper vertical bus in each section. The vertical bus in the main source section is rated equal to the main bus, and other vertical buses are rated 300A minimum or as required by the connected loads. A copper ground bus accepts 250 kcmil copper ground cable at each end of the lineup. The main source connects through main lugs for 4 x 500 kcmil per phase.

Starter Units: Drawout combination starters use a circuit breaker with a full-voltage magnetic contactor and solid-state adjustable overload relays. Each starter has an individual fused control power transformer with a 120V AC secondary, interposing relays on size 3 and larger starters, and 460V holding coils on size 5 and larger. External lockable handles and door interlocks prevent opening a door or withdrawing a unit unless the breaker is open.

Feeder Breakers: Molded case, 600V AC, manually operated, trip-free breakers with external lockable handles and on/off/tripped indication. Interrupting capacity at 480V is not less than the MCC short-circuit rating, with no current-limiting fuses required. Breakers are ambient compensated to 50°C, and frames of 225A and larger have interchangeable trip units.

Enclosure Design: A freestanding, gasketed NEMA 1 enclosure of vertical sections. The steel enclosure has a No. 61 light gray finish over a corrosion-resistant primer. Sections are joined so additional sections can be added in the field, and permanent base leveling sills simplify installation. Wiring is NEMA ICS 2 Class I, Type B, with pull-apart terminal blocks, spare auxiliary contacts wired to terminals, oiltight LED pilot devices and engraved nameplates. Spare space of 10-20% is provided with guide rails, separator bars and cover plates.

Certification: This MCC is designed to UL 845, UL 508, NEMA ICS 1 and NEMA ICS 2

requirements for motor control center equipment and low voltage power distribution systems.

Applications: This MCC is suitable for indoor use in applications including, but not limited to, power generation facilities, manufacturing facilities, processing plants, industrial automation systems, plant maintenance operations, utility facilities and commercial power distribution systems.

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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

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/346308.JPG)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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