Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

MPD-PB-LB-MB-YE-H-L-30-BF-N3R-30.S10

125A Power Panelboard, 3PH Main Breaker Panel, 30 Circuit, 480Y/277 (30) 20A 1P Breakers, NEMA 3R, Bottom Feed, Wall Mount

Product ID: 288124



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.

This unit is Made In USA - Manufactured in Texas

MPD-PB-LB-MB-YE-H-L-30-BF-N3R-30.S10 - Electrical Panel, Lighting Panelboard

Item Type: Deadfront Lighting Panelboard

Panel Type: Main Breaker Panel (MCB)

System Voltage (V): 480Y/277 AC Wye-N
Phase (PH): 3-Phase (3PH)
Frequency (HZ): 60 Hz (60-cycles)
System Amperage: 125A
Line-In Connection: (3) Terminal Lugs
Line-In Orientation: Bottom Feed
Mains Capacity: 125 Amps
Main Breaker Size: 150AF
Main Breaker Type: Molded Case Circuit Breaker (MCCB)
Main Breaker Short Circuit Current Rating (SCCR) : 35 kAIC
Circuit Count: (30 Ckt Total - (30) Circuit MCB
Branch Breakers: (30) 20A 1-Pole Breakers, MCB, 10 kAIC, Din Rail Mount;
Branch Breaker Size: 35mm Din Rail Mount Breakers; (Not compatible with Ground Fault Indicator Breakers)
Branch Breaker Type: Miniature Circuit Breaker (MCB), UL 1077, Not Compatible w/ GFCI Din Rail Breakers
Branch Breaker Short Circuit Current Rating (SCCR): 10 kAIC
Neutral Connection: Insulated Neutral Bar Kit Included
Ground Connection: Ground Bar Kit Included
Line-In Connection: Breaker Outputs
Line-In Orientation: Bottom, Side Knockouts
Feed Thru Capacity: Not Capable of Feed Thru Line-Outs
Mount: Wall Mounted
Enclosure Door: (1) Left Hinged Door w/ Handle

Ratings

Max Primary OCP: 125A @ 480V

Made in the USA
NRTL Certified to UL 508A
NRTL Certified to UL 1640
NEMA 3R Rated Indoor/Outdoor Use

Enclosure Rating: NEMA 3R
Enclosure Material: CNC formed carbon sheet steel
Bus Material: Tin Plated Copper

Finish Color: ANSI 70 Light Grey

Finish Type: High-strength TGIC Polyester Powder Coated

Dimensions: -

Weight: -

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

Intl: 1-903-270-1187

Toll Free: 1-800-369-6671

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

This unit is Made In USA - Manufactured in Texas

The Larson Electronics MPD-PB-LB-MB-YE-H-L-30-BF-N3R-30.S10 Power Distribution Main Breaker Lighting Panelboard facilitates electrical and power connections in industrial sites. This unit provides operators the ability to safely tap into and distribute three phase 480Y/277 AC power from a variety of sources including generators and direct grid power.

Operation:

• Voltage: 3-Phase 480Y/277 AC 3PH Wye-N
• Panel: 125A MB Hinged 30 Circuit Count
• Branch Breaker(s): (30) 20A 1-Pole Breakers, MCB, 10 kAIC, Din Rail Mount;; Compatible with Larson Electronics Din Rail Mount Breakers. Not compatible with GFCI Style Breakers.
• Enclosure: NEMA 3R for Indoor and Outdoor Applications, Bottom Feed

Panelboard: The MPD-PB-LB-MB-YE-H-L-30-BF-N3R-30.S10 power distribution Lighting panelboard unit gives operators the ability to power and protect their MPD-PB-LB-MB-YE-H-L-30-BF-N3R-30.S10 volt equipment. On the primary side, operators connect three-phase 480Y/277 volt line-in power using a customer-provided cord or line-in conduit. This panelboard distributes power from an electrical feed to various branch circuits. Breaker poles, breaker amperage, circuit count, mains protection, and branch breaker layout can be customized upon request.

Main Breaker Panel vs Main Lug Only Panel: Panelboards are available with a main circuit breaker or as main lug only (MLO). A main circuit breaker provides overcurrent protection and serves as the primary unit serving all branch circuits and controls within the panel. This type of panel offers a single disconnection method for connected loads. A MLO panel typically serves as an add-on or sub panel, which is connected to a main breaker panel. A MLO panel does not have overcurrent protection or devices.

Enclosure: The MPD-PB-LB-MB-YE-H-L-30-BF-N3R-30.S10 is constructed from CNC formed carbon sheet steel and has High-strength TGIC Polyester Powder Coated coating in ANSI 70 Light Grey finish. This panelboard features a Bottom feed for running input conduit and Side Knockouts. This pannelboard is for main panel or sub panel configurations. This panelboard does not provide bus output connections for subpanels. .

*See specification table at the top of the page for more information about the the panel system.

Protective Construction: The power distribution panel is protected from the elements via a steel weatherproof enclosure with drip shield. Equipped with a hinged locking door, the panelboard carries a NEMA 3R rating for use in indoor or outdoor locations and protection from water, debris, corrosion, and external ice formation. This enclosure provides protection against falling rain and light ice formation. The NEMA 3R rated enclosure prevents beating rain from interfering with the successful operation of the apparatus or result in wetting of live parts and wiring within the enclosure under specified conditions. This unit is compatible with wall mounting installations.

This power distribution panel can be modified to meet the needs of job-site breaker requirements. Portable units are available upon request and can be equipped with receptacles, carts, skids or trailer mount.

Certification: All units are built in accordance to NFPA 70 (National Electric Code), NEMA PB1 and NRTL certified to UL 1640.
Grounding: The panel is grounded to the frame and we provide a grounding lug on the frame for the earth ground.
~Please check all motor loads for dual rated motors that will work 208 or 240.~
Applications: This power distribution system is ideal for indoor or outdoor use and applications including but not limited to, construction sites, plant maintenance, plant turnarounds, shows, exhibits, and shipyard operations. These power distribution systems are popularly used in applications where external power sources are often necessary. We also offer class rated transformers for use within explosion proof and hazardous location environments.
Custom Built Systems Available: Larson Electronics is a manufacturer and we can build portable power distribution systems to your specifications. Although we carry several models of portable power distribution systems in stock, 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.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	11/13/2024

MPD-PB-LB-MB-YE-H-L-30-BF-N3R-30.S10

LARSON ELECTRONICS®

CUSTOMER PROVIDED
LINE-IN CORD AND
LINE-IN CORD CAP

CUSTOMER
SUPPLIED
UTILITY

3PH 480Y/277V
125A MAX

3P 480V 125A 35KAIC
UL489 MCCB
CB1-101.05

BRN 1AWG
101.05

ORG 1AWG
101.08

YEL 1AWG
101.11

GROUND BAR KIT

PL1-101.20
GROUND BAR KIT

PL1-101.33

CONNECT ALL THE
GOUNDS TO THE
GROUND BAR

PD 1
PD 2
PD 4
PD 4
PD 5

101.19A
101.19B
101.19C
101.19

1P 277V 20A 10KAIC
UL489 MCB (1)
CB1-101.21
BRN 12AWG
277V 20A
CUSTOMER
LOAD

1P 277V 20A 10KAIC
UL489 MCB (2)
CB1-101.27
ORG 12AWG
277V 20A
CUSTOMER
LOAD

1P 277V 20A 10KAIC
UL489 MCB (3)
CB1-101.33
YEL 12AWG
277V 20A
CUSTOMER
LOAD

1P 277V 20A 10KAIC
UL489 MCB (4)
CB1-101.39
BRN 12AWG
277V 20A
CUSTOMER
LOAD

1P 277V 20A 10KAIC
UL489 MCB (5)
CB1-101.45
ORG 12AWG
277V 20A
CUSTOMER
LOAD

480V N
101.19
to 102.04

480V L1
101.19A
to 102.04

480V L2
101.19B
to 102.04

480V L3
101.19C
to 102.04

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TITLE
MPD-PB-LB-MB-YE-H-L-30-BF-N3R
-30.S10

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L.Calib	11-13-2024	A
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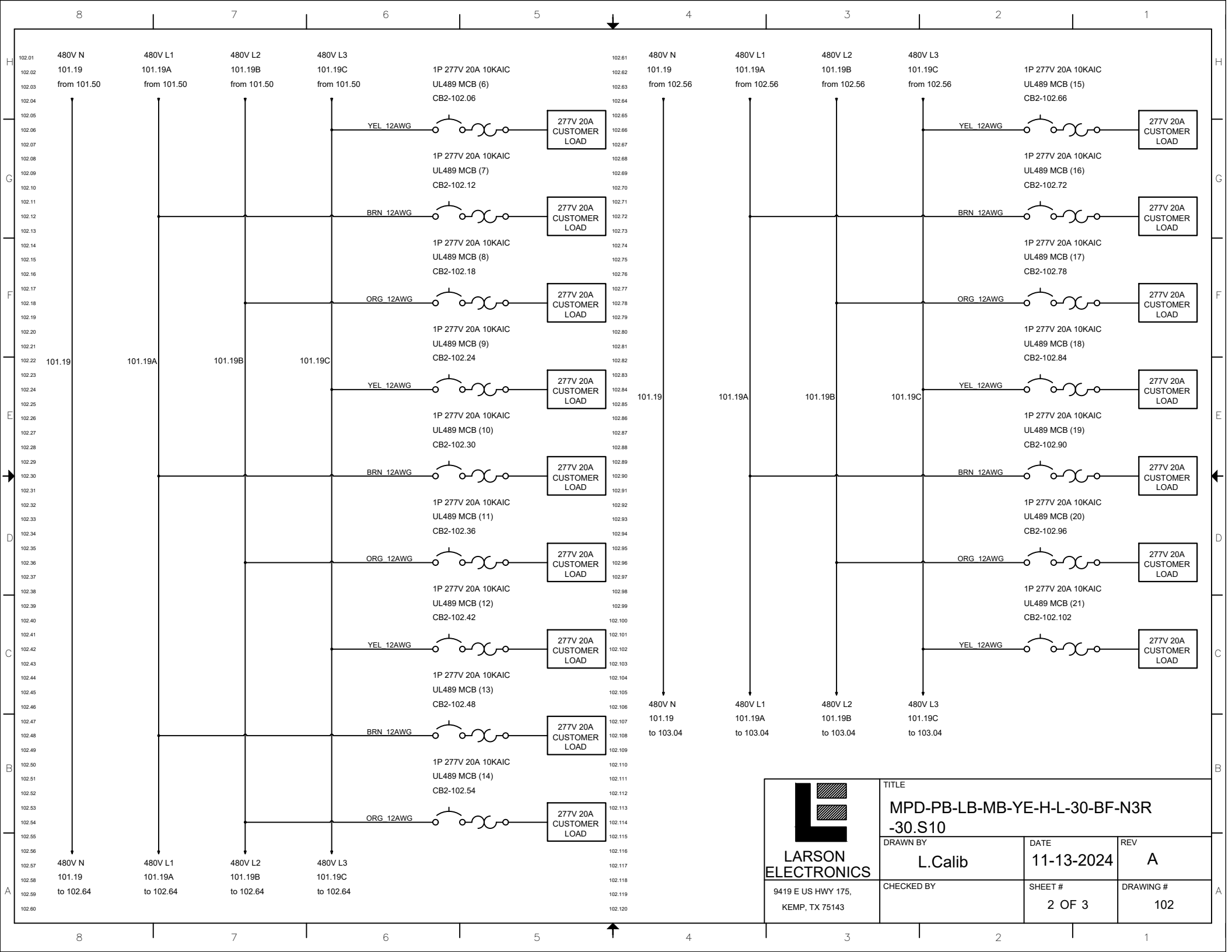
	1 OF 3	101



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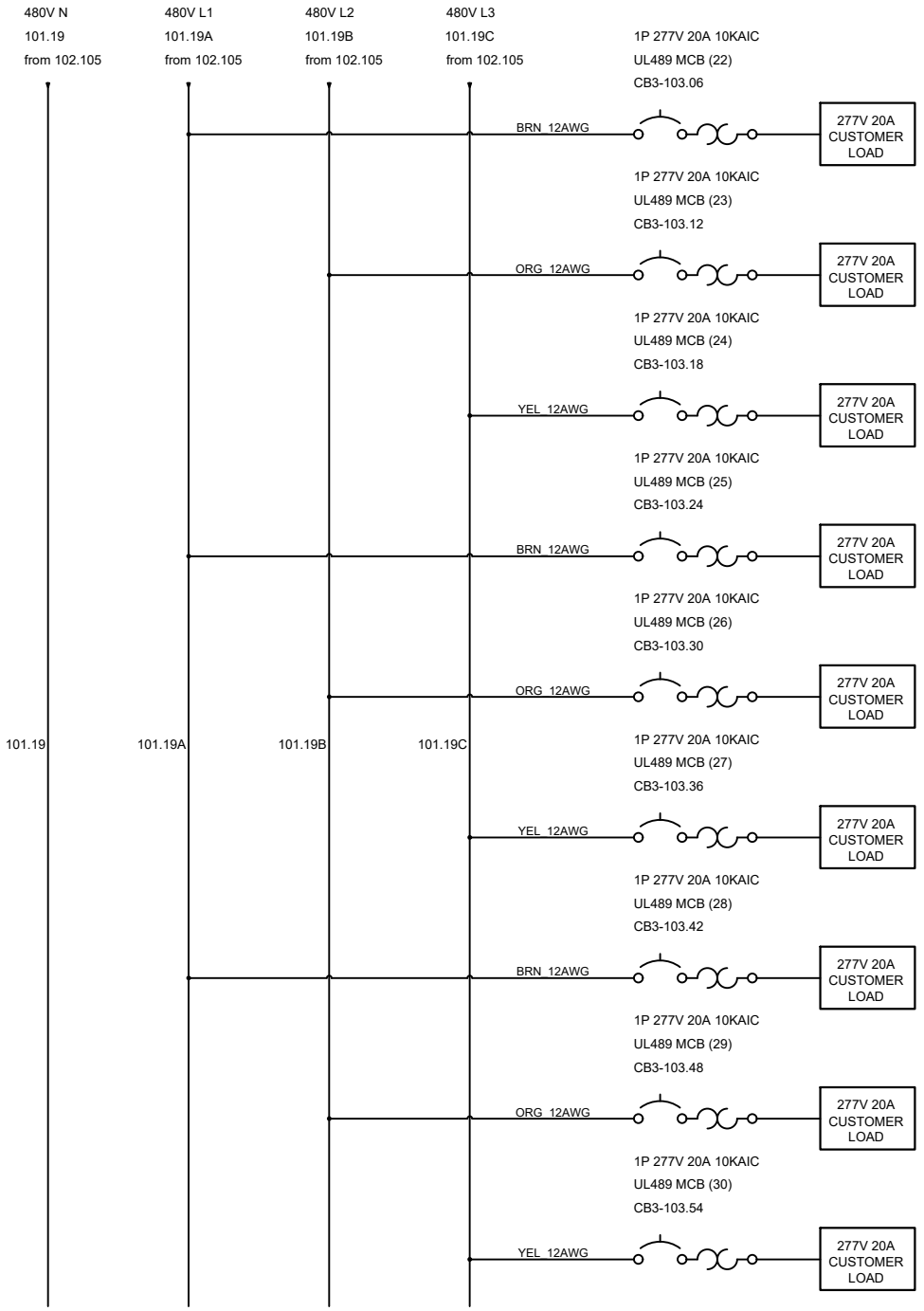
	2 OF 3	102	



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	3 OF 3	103	


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MPO-PB-LB-MB-YE-H-L-12-TF-N3R-Z
LARSONELECTRONICS.COM
877-975-2747
sales@larsonelectronics.com
CAUTION
SHED ALL LOADS
BEFORE TURNING
ON / OFF
WARNING
FOR USE BY QUALIFIED PERSONNEL ONLY - The routing of portable supply conductors, the making and breaking of supply connectors, and the energization and de-energization of supply connectors shall be performed by qualified personnel only.
CAUTION
HIGH VOLTAGE
Suitable for
Use in Damp
Locations
WARNING
FOR USE BY QUALIFIED PERSONNEL ONLY
ATTENTION
À UTILISER
UNIQUEMENT PAR OU
PERSONNEL QUALIFIÉ
WARNING
ALL DOORS MUST BE CLOSED AND FASTENED PRIOR TO LEAVING THE EQUIPMENT UNATTENDED
ATTENTION
TOUTES LES PORTES DOIVENT ÊTRE FERMÉES ET VERROUILLÉES AVANT DE LAISSER L'ÉQUIPEMENT SANS SURVEILLANCE


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12



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

The MPD-PB series of Panels & Panelboards are comprised of a NEC (National Electrical Code, United States) and CEC (Canadian Electrical Code, Canada) Listed fuse assemblies, non fused assemblies, and circuit breakers from various manufacturers. These components are manufactured to NEMA, NEC and CEC requirements. Larson Electronics LLC builds the control panel and housing assembly. This assembly is built to NEC and CEC standards under UL 508A, UL 1640 and CSA C22.2 No 14

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Material Safety Data Sheet

To Whom It May Concern,

Larson Electronics LLC MPD-PB Series industrial line of Panels & Panelboards are considered "ARTICLES" under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS).

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

i. Which is formed to a specific shape or design during manufacture;
ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
iii. Which under normal conditions does not release more than very small quantities.

Regards,

Ray Smith

Ray Smith
Larson Electronics, LLC.

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Product Description

Title:	STAGE & STUDIO PORTABLE WIRING COMPARTMENTS
Company:	LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information:	Power Distribution System, Model Nos. MGL, MPD, MGS, WAL series; Followed by AAK-PBB.FFF-SCC.GGG-EEXCCC.DDD; Where AA = 2,3,5,7,9,15,20,25,30,45,50,75; BB = 1P, 3P; FFF = 480,240,208,120; CC = 1P,3P; GGG = 480,240,208,120; EE = # of outlets; CCC = voltage; DDD = outlet amperage.
Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Stage & Studio Portable Wiring Compartments (UL-1640) and are identified with the ETL Listed Mark.

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Product Description

Title:	INDUSTRIAL CONTROL EQUIPMENT
Company:	LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information:	Industrial Control Panels For General Use. Power Distribution System, Model Nos. MGL, MPD, MGS series; Followed by AAK-PBB.FFF-SCC.GGG-EEXCCC.DDD; Where AA = 2,3,5,7,9,15,20,25,30,45,50,75; BB = 1P, 3P; FFF = 480,240,208,120; CC = 1P,3P; GGG = 480,240,208,120; EE = # of outlets; CCC = voltage; DDD = outlet amperage.
Evaluated to the following:	A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Industrial Control Equipment (CAN/CSA-C22.2 No. 14) and are identified with the cETL Listed Mark.

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Contact Us

ETL listed products that are in doubt or for products that do not appear in the directory, please request a verification of certification.
Americas+1-888-347-5478 (or +1-847-660-7407)
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etldirectory@intertek.com

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

The MPD-PB series complies with the below standards set forth by the listed Association's requirements. Purchased and manufactured components are evaluated to Larson Electronics LLC Quality Control Management system per ISO 9001:2015. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Evaluated Standards:

AISC: Structural steel skid design
NFPA 70: National Electrical Code
ASTM A36: Standard Specification for Carbon Structural Steel
ASTM A123: Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A153: Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM A489: Standard Specification for Carbon Steel Lifting Eyes
ASTM A502: Standard Specification for Rivets, Steel, Structural
ASTM A563: Standard Specification for Carbon and Alloy Steel Nuts
ASTM A500: Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes
ASTM B172: Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members, for Electrical Conductors
ASTM D7803: Standard Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Powder Coating
SAE J429: Mechanical and Material Requirements for Externally Threaded Fasteners
AWS D1.1: Structural Welding – Steel
ICEA S-58-679: Standard for Control, Instrumentation and Thermocouple Extension Conductor Identification
ICEA S-75-381: Portable and Power Feeder Cables for Use in Mines and Similar Applications
NEMA OFP 1-2017: Protection of Receptacle Outlets in Wet Locations According to the National Electrical Code

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NEMA PB 1-2011: Panelboards
NEMA WD 1-1999 (R2015): General Color Requirements for Wiring Devices
ANSI C80.1-2015: American National Standard for Electric Rigid Steel Conduit
ANSI C119.4-2016: American National Standard for Electric Connectors
ANSI Z535.4-2011: American National Standard for Product Safety Signs and Labels
ANSI/IEC 60529-2004 (R2011): American National Standard for Degrees of Protection Provided by Enclosures (IP Code)

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

Evaluated Listings:

CE: DIRECTIVE 2014/35/EU - LOW VOLTAGE DIRECTIVE
CE: DIRECTIVE 2014/30/EU - EMC DIRECTIVE
CE: Regulation (EC) No 1907/2006 - REACH REGULATION
CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

The MPD-PB series complies with the essential protection requirements of the European Parliament of the Council Directive for Low Voltage Directive, EMC Directive, REACH Regulation, and RoHS Directive. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION
CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

This is to certify that products offered by Larson Electronics LLC comply with the Reduction of Hazardous Substances (RoHS) directives. Directive 2002/95/EC became effective on 1 July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. Directive 2015/863/EU amending Annex II to Directive 2011/65/EU announced plans to add four substances from 22 July 2019.

We hereby certify that the equipment specified above conforms to the Directive(s) by containing less of the restricted substances than the stated limits.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION

This letter establishes the opinion of Larson Electronics LLC regarding the status, under the current European Union ("EU") Regulations on Registration, Evaluation, Authorization, and Restriction of Chemical Substances ("REACH").

REACH does not apply to manufactured products which are referred to as "completed articles". Substances (chemicals) are subject to REACH registration, NOT products.

In addition, Articles are exempt from the REACH requirements if (a) the Article does not contain a substance of very high concern or candidate substance in an amount exceeding 0.1% weight by weight, and (b) if substances present in the Article in excess of 1 ton per year per importer are not expected nor intended to be released.

Based on communication with our raw material suppliers, we conclude that to the best of our knowledge our products requiring REACH compliance do not contain any of the currently listed SVHC in concentrations of 0.1% or above.

Accordingly, we foresee no registration or pre-registration requirement for the products we supply.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Manufacturer: Larson Electronics LLC
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Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

Evaluated Listings:

FCC: Radio Frequency Emission & Authorization Status

The MPD-PB Series complies with Federal Communications Commission requirements for Radio Frequency Emission & Authorization Status. This product is not capable of emitting rf energy and does not require FCC authorization. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Frequently Asked Questions (FAQ)