Portable Spider Box - 240V Delta Input - (8) Outlets, 4100B9W IEC 60309 100A Pin & Sleeve Male Inlet - Steel/Safety Yellow Instruction Manual

Thank you for your purchase of the Larson Electronics MPD-CS2-309.100AB-DP0-Z-8.L24-M1.

WARNING:

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE. CRITICAL SAFETY INSTRUCTIONS:

- INSTALLATION SHOULD ONLY BE CONDUCTED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH NEC AND ANY RELEVANT LOCAL BUILDING CODES.
- RISK OF FIRE OR ELECTRIC SHOCK. FIXTURE INSTALLATION REQUIRES KNOWLEDGE OF FIXTURE'S ELECTRICAL SYSTEMS. IF NOT QUALIFIED, CONTACT A QUALIFIED ELECTRICIAN.
- BE CERTAIN ELECTRICAL POWER IS OFF BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- MAKE SURE THE SUPPLY VOLTAGE IS THE SAME AS THE FIXTURE'S RATED VOLTAGE.
- TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR SHARP OBJECTS. SUITABLE FOR DAMP LOCATIONS.

IMPORTANT

READ CAREFULLY BEFORE INSTALLING THIS FIXTURE. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. THE MPD-CS2-309.100AB-DP0-Z-8.L24-M1 MUST BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. PROPER GROUNDING IS REQUIRED FOR SAFETY.

WE STRONGLY ENCOURAGE ONLY A LICENSED ELECTRICIAN INSTALL, OPERATE AND MAINTAIN THIS PRODUCT. IF YOU ARE NOT QUALIFIED OR UNFAMILIAR WITH ANY ASPECT OF THIS INSTRUCTION SHEET, CONSULT AN ELECTRICIAN. THERE ARE NO SERVICEABLE PARTS INSIDE.

WARNING: MAKE SURE POWER IS TURNED **OFF** BEFORE STARTING THE INSTALLATION OR PERFORMING ANY MAINTENANCE.

RISK OF FIRE/ELECTRIC SHOCK – DISCONNECT POWER AT BREAKER BEFORE INSTALLING OR SERVICING.
RISK OF PERSONAL INJURY – FIXTURE MAY BECOME UNSTABLE OR DAMAGED IF NOT INSTALLED PROPERLY.
RISK OF BURN – ALLOW FIXTURE TO COOL BEFORE SERVICING.

WARNING:

USER SHOULD BE TRAINED IN THE PROPER USE AND MAINTENANCE OF THIS DEVICE. THIS LINE CORD IS INTENDED TO ALLOW OPERATORS TO EXTEND POWER TO EQUIPMENT WHEN STATIONARY OUTLETS ARE NOT READILY AVAILABLE.

IMPROPER USE OF THIS CORD, PLUG, AND RECEPTACLE CAN LEAD TO SERIOUS INJURIES OR DEATH TO PERSONNEL.

PERIODIC INSPECTION OF THE CORD IS NECESSARY.

THE CORD MUST BE ROUTINELY CHECKED FOR CUTS, BREAKS, OR ANY SEVERE ABRASIONS, AND IF ANY ARE FOUND, THE CORD MUST BE REPLACED BEFORE RESUMING USE.

The MPD-CS2-309.100AB-DE0-Z-8.L26-M1 from Larson Electronics is a Portable Spider Box for indoor, outdoor, and rugged applications. This unit allows operators to use three-phase 480V Delta power via a 4100B7W IEC 60309 100A pin & sleeve male inlet. The device is equipped with eight, 20-amp primary outlets for equipment. For robust protection, the safety yellow spider box is NEMA 3R rated and protected by impact/flame resistant weatherproof covers.

WIRING

Standard pigtail(flying leads) wiring

We strongly encourage a licensed electrician install this product, in all locations especially in outdoor areas where weatherproofing may be required. Universal voltage driver permits operation at 240V AC.

Warning: *Check product label for correct input voltage!*

Installation and Operating Instructions

SPECIFICATION

These installation and operation instructions apply to the following temporary power branch distribution system components. Do not discard these instructions, save for future Reference.

PORATBLE POWER DISTRIBUTION UNITS

These units are rated for 100 amps, 240V Delta, Three Phase. The max. ampacity for the 100 amp unit is 100A @ 240V. The 20 amp, 240 volt outlets are individually protected by circuit breakers and GFCI circuit modules.

INTRODUCTION

Temporary power distribution units equipped with GFCI products will protect you from electrocution hazards resulting from ground faults. Ground faults are current leaks and can result in electric shock. Currents of only 60/1000 of an ampere can be fatal. The GFCI protection provided by temporary power distribution units significantly minimizes shock hazards. Temporary power distribution units, which are Class A, Group I interrupters, respond to fault currents as low as 3-6 milliamperes, and will shut of the current within 1/40th of a second. The temporary power distribution unit is designed to provide protection against electrical shock hazards due to line-to-ground faults. Although the GFCI Module does not eliminate the hazard of a shock, it does limit the duration of the shock to a period considered safe for normally healthy persons.

GFCI Modules will provide protection against ground faults only. They will not protect against overloads or short circuits. There is no known device that will guard against the electrical shock hazard resulting from contact with both the “hot” and neutral wires of the electrical circuit.

ELECTRICITY IS DANGEROUS.
EVEN WHEN SAFETY DEVICES ARE PRESENT, HANDLE WITH CARE AND USE REASONABLE CAUTION.

LET CAUTION PREVAIL

The temporary power distribution unit is designed to be used on a grounded electrical supply system. It will not operate when supplied from a power source which is not grounded. Over-current protection of the proper rating, according to the National Electric Code, Article 240, must be used on the supply circuit feeding the temporary power distribution units.

TEST PROCUDURE

All Models

Connect the temporary power distribution unit to an appropriate power source.

CAUTION

- Power is immediately available at the 100 amp outlet when the source is energized on all models.

1. Verify all circuit breakers are in the "on" position.
2. Push the test button on the individual GFCI module. The unit should trip.
3. Push the reset button. The indicator light should come on.
4. Repeat steps 2 & 3 for the remaining modules.

TROUBLE SHOOTING

The GFCI Modules within the temporary power distribution unit will trip whenever one or more of the following abnormal conditions exist in the line (supply) side circuit:

1. Either line (hot) conductor is transposed with the neutral conductor.
2. Either line (hot) conductor is open (disconnected)
3. There is an excessive voltage imbalance between line 1 and line 2 circuits. This may be the result of an open neutral conductor in the supply circuit.

When the abnormal condition(s) in the supply circuit is corrected, the unit may be reset for normal use by completely removing and then reapplying line power. It is recommended that the GFCI test procedure be repeated at this time. When a GFCI module trips, attempt to reset it by pressing the reset switch, being careful to look for possible danger to personnel. If the module resets, the fault was momentary and has cleared. If it trips again immediately, the fault is still present and the GFCI module is performing its safety function. To locate the fault, disconnect all loads and again try pressing the reset switch. The module should reset. Reconnect the loads one at a time.

The module will trip when the faulted load is reconnected. Inspect all tools, appliances and extension cords in the faulted load circuit, repairing or replacing any that are not in good condition.

NOTE: Tripping of a circuit breaker in these models can only result from an overload or short circuit condition in its individual load circuit. When the fault in the load circuit is corrected or removed, the circuit breaker can be reset for normal use by switching handle to "OFF" position and then to the "ON" position.

NUISANCE TRIPPING

All cables have some capacitive leakage. In a 240 volt system, there is a limit to the length of cable which can be run before sufficient leakage to ground will build up causing a GFI to trip. Individual 240 volt branch circuit load cords should be limited to 250 feet in length.

APPLICATION NOTES

Enclosure is a NEMA Type 3R; enclosures are intended for use outdoors to protect the enclosed equipment against windblown dust and water and to provide for its operation when the enclosure is covered by external ice or sleet.

HIGH VOLTAGE LIGHT

An illuminated high voltage light indicates the input wiring is incorrect; check the power source.

CONTACT MONITOR LIGHT

The red monitor light is a welded contact indicator. If the monitor light is on with the unit tripped, it indicates the contact is welded, and the unit should be replaced immediately -- there is no GFCI protection. When the TEST button is pressed, both the POWER light and MONITOR light should go out, and come back on when the RESET button is pressed.

MAINTENANCE & REPAIR

CAUTION: Electrical power supply MUST BE OFF AND DISCONNECTED before and during any repair or maintenance. Repair and maintenance must be performed by a trained and competent electrician.

WARNING: If any parts or components of this temporary distribution box appear to be missing, broken or show signs of damage, DISCONTINUE USE IMMEDIATLEY! Do not modify these devices in any way. Replace worn or damaged components. Failure to do so could cause serious personal injury or death.

GROUND-FAULT CIRCUIT INTERRUPTER (GFCI)

In the event of a ground fault, a GFCI will trip and quickly stop the flow of electricity to prevent serious injury.

Definition of a ground fault:
Instead of following its normal safe path, electricity passes through a person's body to reach the ground. For example, a defective appliance can cause a ground fault.

A GFCI receptacle does **NOT** protect against circuit overloads, short circuits, or shocks. For example, you can still be shocked if you touch bare wires while standing on a non-conducting surface, such as a wood floor.

NOTE:
GFCI's contain a lockout feature that will prevent RESET if:

- There is no power being supplied to the GFCI.
- The GFCI is miswired due to reversal of the LINE and LOAD leads.
- The GFCI cannot pass its internal test, indicating that it may not be able to provide protection in the event of a ground fault.

GFCI TEST

Use an approved GFCI tester or plug an electrical device, such as a lamp into the receptacle on which you are working. Turn the lamp or device ON. Then, press the TEST button on the GFCI box and power should immediately be switched off. If not, contact an electrician. Press the RESET button to restore power.

USE AND CARE

Unauthorized modification may impair the function and/or safety of this device and could affect the life of the equipment. Always check for damaged or worn out parts before using the device. Store it in a secure place out of the reach of children when not in use. Inspect for good working condition prior to storage and before re-use.

REPLACEMENT PARTS

The MPD-CS2-309.100AB-DP0-Z-8.L24-M1 is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.