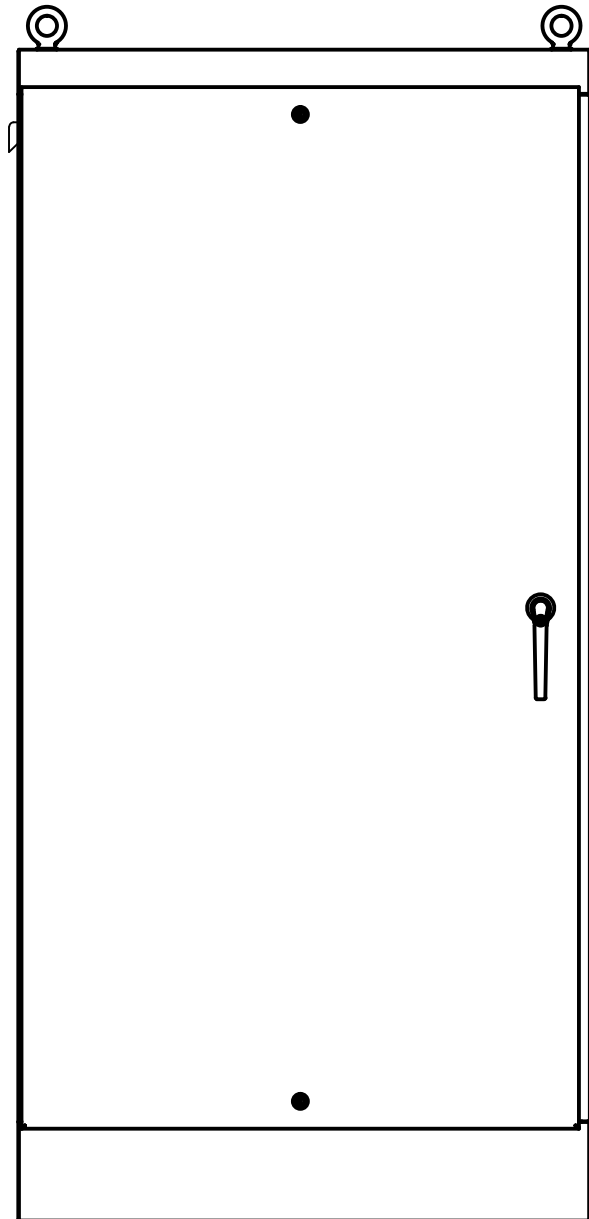




STAINLESS STEEL FREE-STANDING PANELBOARD

Installation, Maintenance,
and Operation Manual



Marina Electrical Equipment, Inc.
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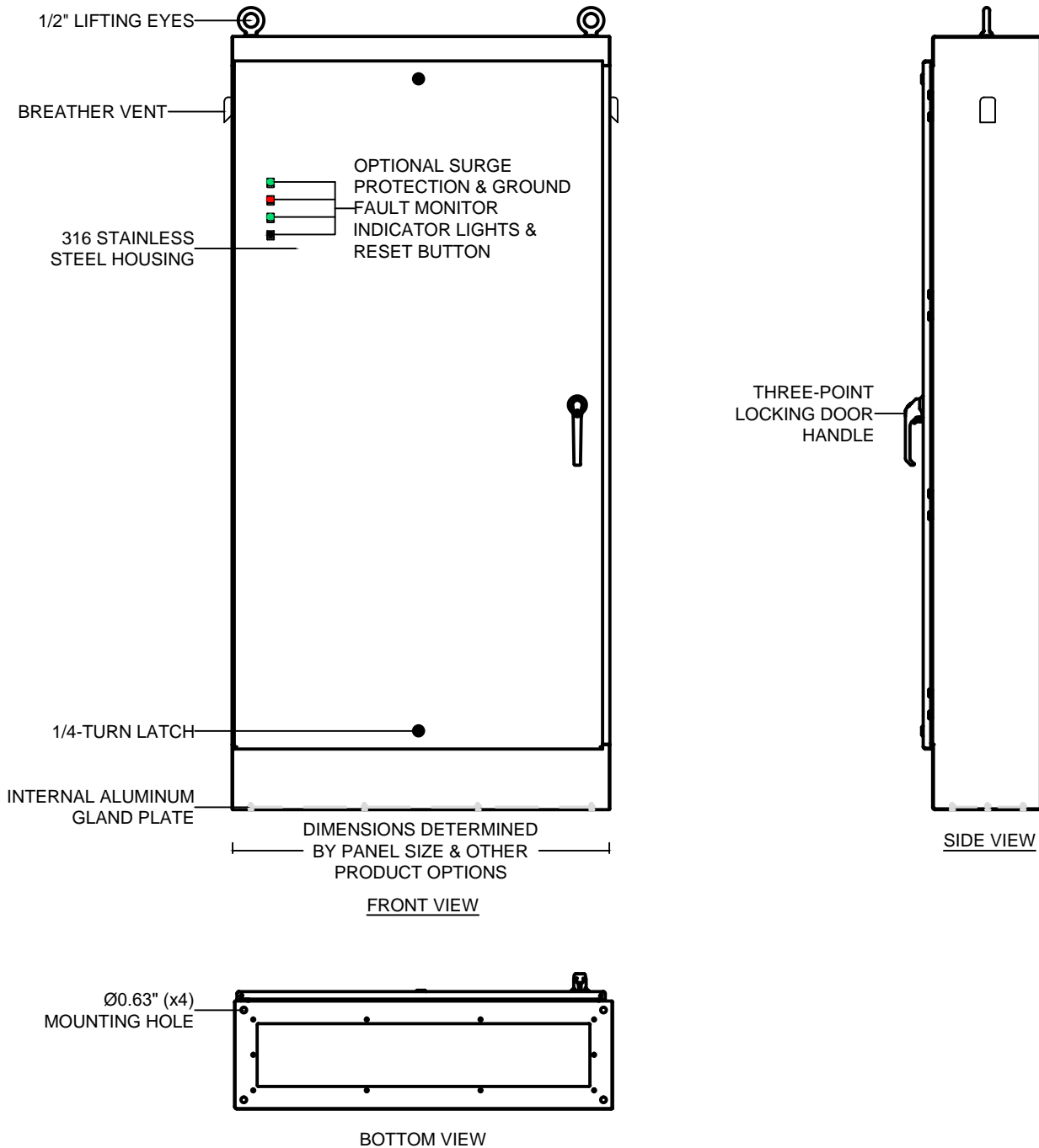
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INTRODUCTION:

PRODUCT DESCRIPTION:

The Stainless Steel Panelboard is designed to provide a load to industrial equipment. The Stainless Steel Panelboard ranges from 100A to 1200A, single or three phase, with copper or aluminum bussing. Main breaker or main lug options are available. Branch breakers are series or fully rated up to 65 kAIC and a current rating up to the main current level of the panel. Removable gutter trims provide easy access to electrical components for installation and field maintenance. The Stainless Steel Panelboard is UL/ETL/CSA-Listed, NEMA 3R rated, and constructed of 16 gauge 316L stainless steel with a white textured powder-coat finish.



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CAUTION

Use lockout/tag-out precautions as prescribed in OSHA, NFPA 70E and other safety manuals during maintenance shutdown of any systems or circuits. Marina Electrical Equipment, Inc. will not assume any responsibility for property damage or personal injury resulting from misuse of the information in this manual.

WARNING: BEFORE INSTALLING OR WORKING ON PANELBOARD ELECTRICAL EQUIPMENT READ THE INSTALLATION INSTRUCTION IN ITS ENTIRETY. ONLY QUALIFIED ELECTRICIANS OR CONTRACTORS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THIS PANELBOARD SHOULD INSTALL THIS EQUIPMENT OR ANY ELECTRICAL DEVICE. INSTALLATION SHOULD BE DONE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRIC CODES.

FOR ALL CONSTRUCTION: **WARNING HAZARDOUS VOLTAGE** CAN CAUSE SEVERE INJURY, DEATH, OR DAMAGE TO EQUIPMENT. DE-ENERGIZE UPSTREAM SOURCE BEFORE OPENING UNIT SUBSTATION. CHECK THAT ALL WIRES HAVE ZERO VOLTAGE.

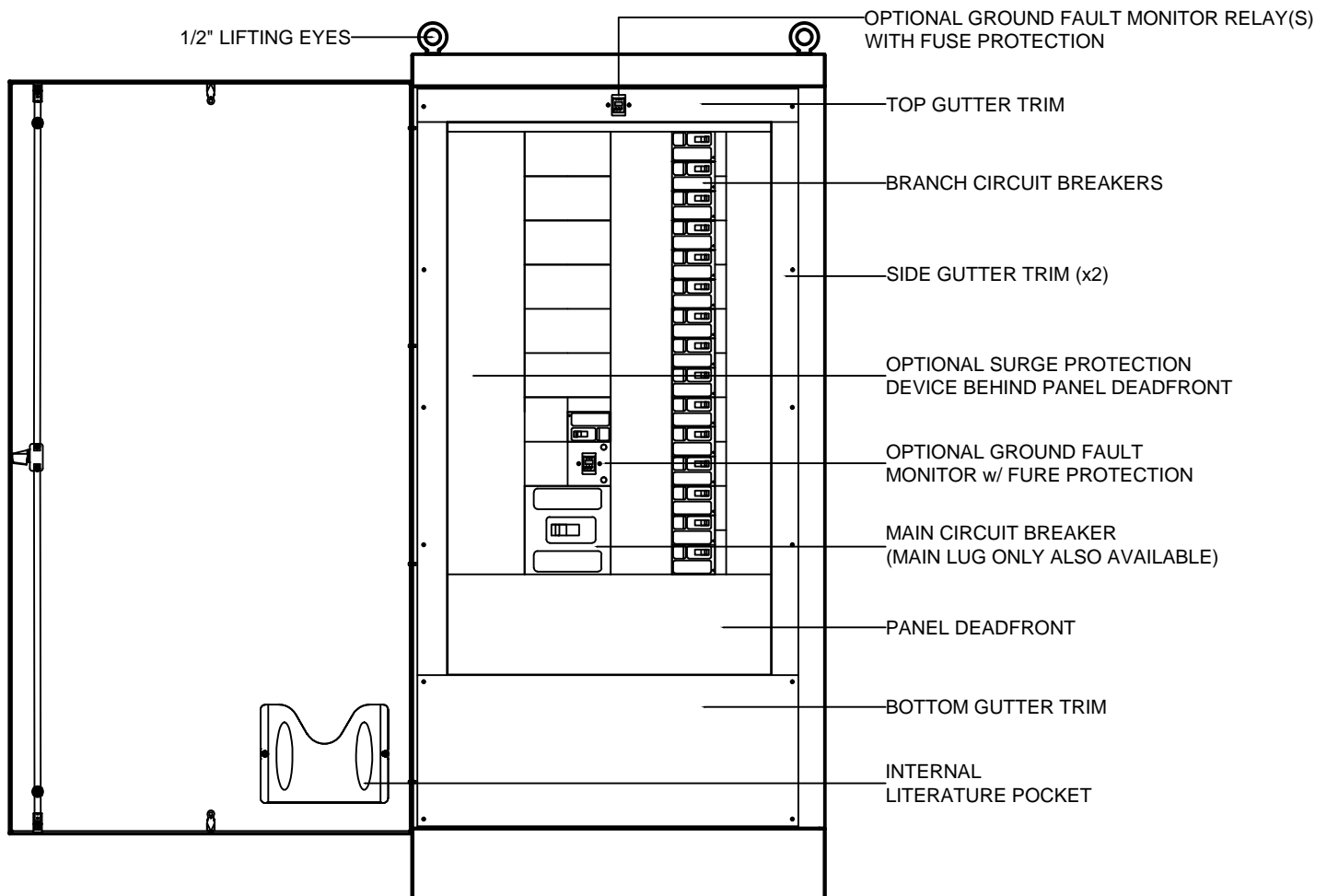
INSTALLATION:

Step 1: Lifting the Panelboard:

- Light the panelboard is accomplished via the two (2) 1/2" lifting eyes provided at the top of the unit.

Step 2: Remove the Gutter Trims and Deadfront

- Open the door of the unit and remove the four (4) gutter rail trim pieces and deadfront to expose the interior of the enclosure.



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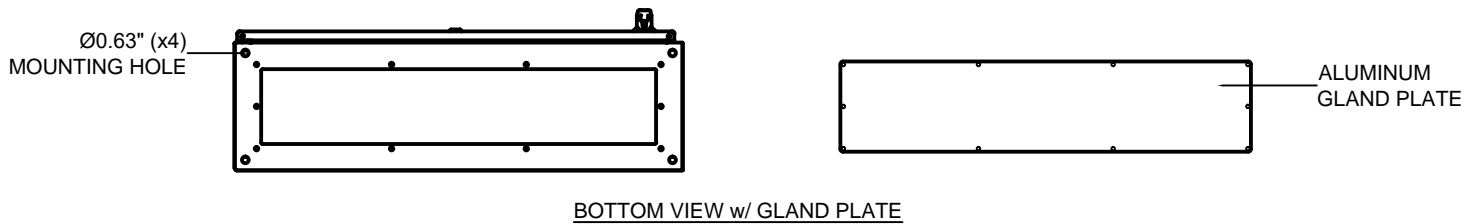
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STEP 3: Mounting the Panel

Note: the panel mounting surface must be flat and level for proper mounting. Warped decking or uneven concrete can be shimmed with stainless steel washers to provide a level surface for mounting.

On Wooden Docks: At each bottom corner, mount the panel enclosure to the dock surface with one (1) ½" stainless steel bolt, nut and two (2) washers for through-bolting, or one (1) ½" stainless steel lag bolt and washer for surface mounting.

On Concrete Docks: At each bottom corner, mount the panel enclosure to the dock surface with one (1) ½" stainless steel compression bolt, nut and washer or (1) ½" stainless steel threaded rod cast in concrete per the appropriate footprint.



STEP 4: Wiring Main & Branches

Remove gland plate from inside the bottom of the enclosure. Punch or cut desired holes in the gland plate for each cable entry and install the appropriate fittings. Secure the gland plate and guide the main feeder and all branch circuit wires through the gland plate to the appropriate termination points (i.e. main lug, main circuit breaker, and branch circuit breakers, etc.). A circuit directory is included on each door for circuit identification.

NOTE: Install all main and branch circuit wires to each breaker following the torque value label marked on each breaker/lug.

STEP 5: Re-Secure Gutter Trim Panels and Dead Front

Re-secure the panel dead front and each gutter trim piece to complete panel board installation.

EXTERIOR MAINTENANCE:

Dirt, grime, bird droppings and insect residue can be removed by use of a mild degreasing solution mixture of one teaspoon per gallon of warm water. Gently scrub the housing exterior and rinse clean. Spiders and other insects can be controlled by use of a **WATER-BASED** insect spray.

INTERIOR MAINTENANCE:

WARNING: Turn off or disconnect the power supplying this equipment before beginning work. This might require you to contact your local utility to disconnect the power to an existing panel board or disconnect. The line side of the main breaker in a panel board is energized unless power is disconnected upstream. Marina Electrical Equipment, Inc. will not assume any responsibility for property damage or personal injury resulting from misuse of the information in this manual.

Annual Main Lug/Main Circuit Breaker and Branch Circuit Breaker Maintenance

Open the main door and remove the gutter rails and dead front to expose the **de-energized** panel interior. The main lug/main circuit breaker and each circuit breaker lug should then be thoroughly examined for signs of excessive heating, loose and/or corroded connections, and any other sign of damage or wear. All loose or damaged connections need to be tightened or replaced.

It is critical that each termination be examined thoroughly for signs of corrosion. Most mechanical lugs are made of aluminum and are highly prone to galvanic corrosion in the harsh marine environment. If any lug set screw cannot be fully tightened, that lug must be replaced before re-energizing.

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Thoroughly examine the copper wire to aluminum lug connections for signs of corrosion. If any corrosion is found, simply remove the copper wire, clean the wire, coat with **synthetic** anti-corrosion grease and reinstall the wire.

WARRANTY POLICY

Housings:

Marina Electrical Equipment, Inc. (MEE) warrants the Panel Board main housing and attached parts (drip shield, door, etc.) will be free from failure resulting from defects in material and/or workmanship, and or covered by a limited warranty of one (1) year. Should any of the above parts fail to comply with the above--mentioned warranty, MEE will either repair or replace the defective part(s), or credit the purchaser for the purchase price of the part. This warranty is voided if any of the above mentioned parts are field-modified without written consent of MEE.

Internal Components:

MEE warrants that all internal electrical components shall be covered by the same warranty offered of the component manufacturer of one (1) year. Items covered include: panelboard interior, circuit breakers, transformers, ground fault monitor relays, terminal blocks, fuses and wiring harnesses. Should any of the above parts fail to comply with this warranty policy, MEE will coordinate the repair or replacement of the defective part(s) with the respective supplier.

This warranty policy does not cover damage or failure resulting from abuse, misuse, negligence or Force Majeure. All warranty claims must be made in writing and all defective products shall be returned to MEE for evaluation unless stated otherwise by MEE. MEE will not be responsible for reimbursing the purchaser for any sort of expense incurred by the purchaser as a result of the repair or replacement of a warranty claim.

Send all warranty claims to:

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