SMS Surface Mount System
PN 3113 / PN 3116 / PN 3117 / PN 3118 / PN 3119 / PN 3120
Meets ABYC E11 when used with an ELCI Main circuit breaker and mounted within 10 feet of the shore power inlet.

WARNING

The Surface Mount System panel enclosure should be installed by a certified marine electrician.

DANGER

Hazardous voltage. Improper handling can cause death or serious injury. Turn off any shore sources and disconnect shore cord(s). Lock out other AC power sources before beginning electrical installation.

- Models available with ELCI Main circuit breakers for 120V 30A, 120V 50A, and 120/240V 50A
- Blank apertures for custom breaker loading
- Glass filled polycarbonate base
- Clear cover allows easy view of circuit breaker status
- Overlapping cover for strength and increased gasket protection
- Blank circuit positions accommodate Carling Technologies™ A and C Series Flat or Raised Rocker and ELCI Main circuit breakers
- Stainless steel mounting hardware included
- Includes waterproof glands (3116, 3117, 3118, 3119, 3120)
- LED lights for back lighting and ON indication (3116, 3117, 3118, 3119, 3120)

GUARANTEE: Blue Sea Systems stands behind its products for as long as you own them. Find detailed information at www.bluesea.com/about. For customer service, call 800-222-7617.

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Specifications

Box Specifications
- Temperature Range: ~40°C to +85°C
- Cover Screws and Hardware: 10-32, stainless steel
- Mounting Hardware: 1/8" diameter, #12, (6 mm)

Regulatory
- IP66—Protected against powerful water jets
- Flammability rating—Per UL 508
- Toxicity—Non-toxic, halogen free, RoHS compliant
- UL Listed and NEMA 4X rated, NEMA Type 4, 4X, 6, 6P, 12, and 13

Specifications subject to change. See www.bluesea.com for additional information and specifications

Drill Guides

Enclosure Dimensions

PN 3116

PN 3117

PN 3118, 3119, 3120
Installation

Required Tools
- Hole Saw, drill or step drill suitable for cable glands (see information on back).
- Drill motor suitable for above
- Screw Drivers
- Knife
- Measuring device
- Wire cutters and Crimpers

Required Parts
- Suitable ring terminals for circuit breaker and grounding connections
- In some installations it may be desirable to attach a mounting substrate to the hull with adhesive or epoxy instead of screwing directly to the hull.

Installing the Enclosure Panel
- The Surface Mount System Enclosure Panel should be installed by a certified marine electrician.
- Plan the installation by determining where the enclosure will be mounted
  - Per ABYC, the enclosure cannot be mounted further than the reach of a 10' cable from the AC power inlet
  - Consider the needed clearances to access the enclosure and open the sealed cover
  - Allow for a wire drip loop outside the enclosure and sufficient service loop for wires inside the enclosure
- Determine which included glands are needed. It is recommended that glands be installed on the bottom of the enclosure to maintain the waterproof integrity of the sealed enclosure.
- Smaller glands may permit convenient installation of a galvanic isolator if used in the systems. In this case the line safety ground wire would exit the enclosure to join the internal connections and the ground from the load side power cable.
- Try all cable glands on the wire for correct fit before proceeding.
- Flat cables can be manipulated to a nearly round shape to fit and seal better in the gland.
- Large round cables with #6 Wire may be a very tight fit in the cable gland. Dismantle the gland and use wire lubricant to ease cable through the rubber seal if necessary.
- When drilling holes for cable glands, be sure to allow sufficient clearance inside for the nut. The best location is as close to the back of the enclosure as possible and still allow for the nut.

Components Included

3113 SMS Panel Enclosure Includes:
- 6 blank circuit positions
- 6 LED plugs
- 12 circuit breaker mounting screws
- 30 Basic DC labels, 4205
- 30 Basic AC labels, 4206
- Panel Voltage ID labels
- 12V DC, 24V DC
- 120V AC, 230V AC, 120/240V AC

3116 SMS Panel Enclosure Includes:
- ELCI Main + 3 blank circuit positions
  - 1 ELCI Main 120V 30A, 30mA, 3102
  - 2 small wire glands, 3124
  - 3 medium wire glands, 3125
  - 4 green “ON” indicating 120V AC LEDs, 8034
  - 1 red “Reverse Polarity” indicating 120V AC LED, 8066
  - 1 LED plug
  - 12 circuit breaker mounting screws
  - 6 Backlit circuit label positions
  - 1 AC Main label, 1 Reverse Polarity label, 1 ELCI label
  - 30 Basic AC labels, 4206
  - Panel Voltage ID label-120V AC

3117 SMS Panel Enclosure Includes:
- 2 x 120V AC / 30A ELCI Main
  - 2 ELCI Main 120V 30A, 30mA, 3102
  - 2 small wire glands, 3124
  - 4 medium wire glands, 3125
  - 2 green “ON” indicating 120V AC LEDs, 8034
  - 2 red “Reverse Polarity” indicating 120V AC LEDs, 8066
  - 2 LED plugs
  - 12 circuit breaker mounting screws
  - 6 Backlit circuit label positions
  - Source Selection Label Set (10 labels)
  - 2 Reverse Polarity labels, 2 ELCI labels
  - Panel Voltage ID label-120V AC

3118 SMS Panel Enclosure Includes:
- ELCI Main + 2 blank circuit positions
  - 1 ELCI Main 120V 50A, 30mA, 3103
  - 2 small wire glands, 3124
  - 1 medium wire gland, 3125
  - 2 large wire glands, 3126
  - 3 green “ON” indicating 120V AC LEDs, 8034
  - 1 red “Reverse Polarity” indicating 120V AC LED, 8066
  - 2 LED plugs
  - 12 circuit breaker mounting screws
  - 5 Backlit circuit label positions
  - 1 AC Main label, 1 Reverse Polarity label, 1 ELCI label
  - 30 Basic AC labels, 4206
  - Panel Voltage ID label-120V AC

3119 SMS Panel Enclosure Includes:
- ELCI Main + 1 blank circuit position
  - 1 ELCI Main 120/240V, 50A, 30mA, 3104
  - 2 small wire glands, 3124
  - 1 medium wire gland, 3125
  - 2 large wire glands, 3126
  - 2 green “ON” indicating 120V AC LEDs, 8034
  - 1 red “Reverse Polarity” indicating 120V AC LED, 8066
  - 3 LED plugs
  - 12 circuit breaker mounting screws
  - 4 Backlit circuit label positions
  - 1 AC Main label, 1 Reverse Polarity label, 1 ELCI label
  - 30 Basic AC labels, 4206
  - Panel Voltage ID label-120/240V AC

3120 SMS Panel Enclosure Includes:
- ELCI Main for Isolation Transformer
  - 1 ELCI Main 240V, 50A, 30mA, 3093
  - 2 small wire glands, 3124
  - 1 medium wire gland, 3125
  - 2 large wire glands, 3126
  - 2 green “ON” indicating 240V AC LEDs, 6806
  - 4 LED plugs
  - 12 circuit breaker mounting screws
  - 2 backlit circuit label positions
  - 1 AC Main label, 1 ELCI label
  - Panel Voltage ID Label-240V AC

Gland Specifications

<table>
<thead>
<tr>
<th>Gland Type</th>
<th>Wire Size</th>
<th>Cable Dia. Range</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>Small 3124 (PG7)</td>
<td>#14 to #10 Single Wire</td>
<td>.114 in (2.9 mm) to .250 in (6.4 mm)</td>
<td>A. Clearance Hole .492 in (12.5 mm)</td>
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<tr>
<td>Medium 3125 (PG16)</td>
<td>#14 to #10 Cable, 3 Conductor</td>
<td>.330 in (8.3 mm) to .530 in (13.9 mm)</td>
<td>A. Clearance Hole .886 in (22.5 mm)</td>
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<tr>
<td>Large 3126 (PG29)</td>
<td>#6 Cable, 4 Conductor</td>
<td>.590 in (15.0 mm) to .990 in (25.4 mm)</td>
<td>A. Clearance Hole 1.470 in (37.3 mm)</td>
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Suggested Clearance Hole for Nonthreaded Mounting

Sealing Nut