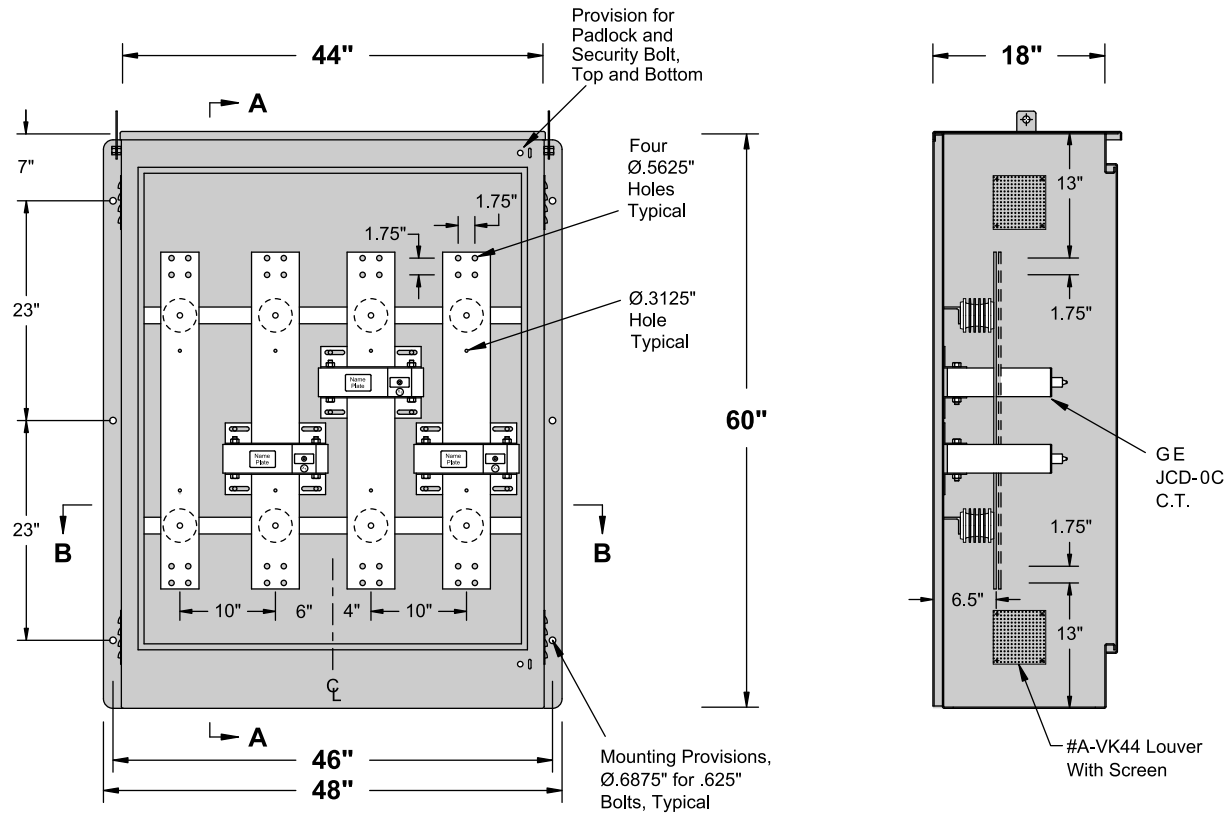




# 600-Volt Wall-Mount Secondary Bus Enclosure with Current Transformers

Three-Phase Indoor/Outdoor

**Bulletin**  
**345-067**  
Page 1 2016



**Standard Bus:**  
 Three Single: 0.25" x 5" Copper Bus  
 One Single: 0.25" x 4" Copper Bus  
 1,200/1,500 Amp at 30/45 degree C rise over 40 degree C Ambient

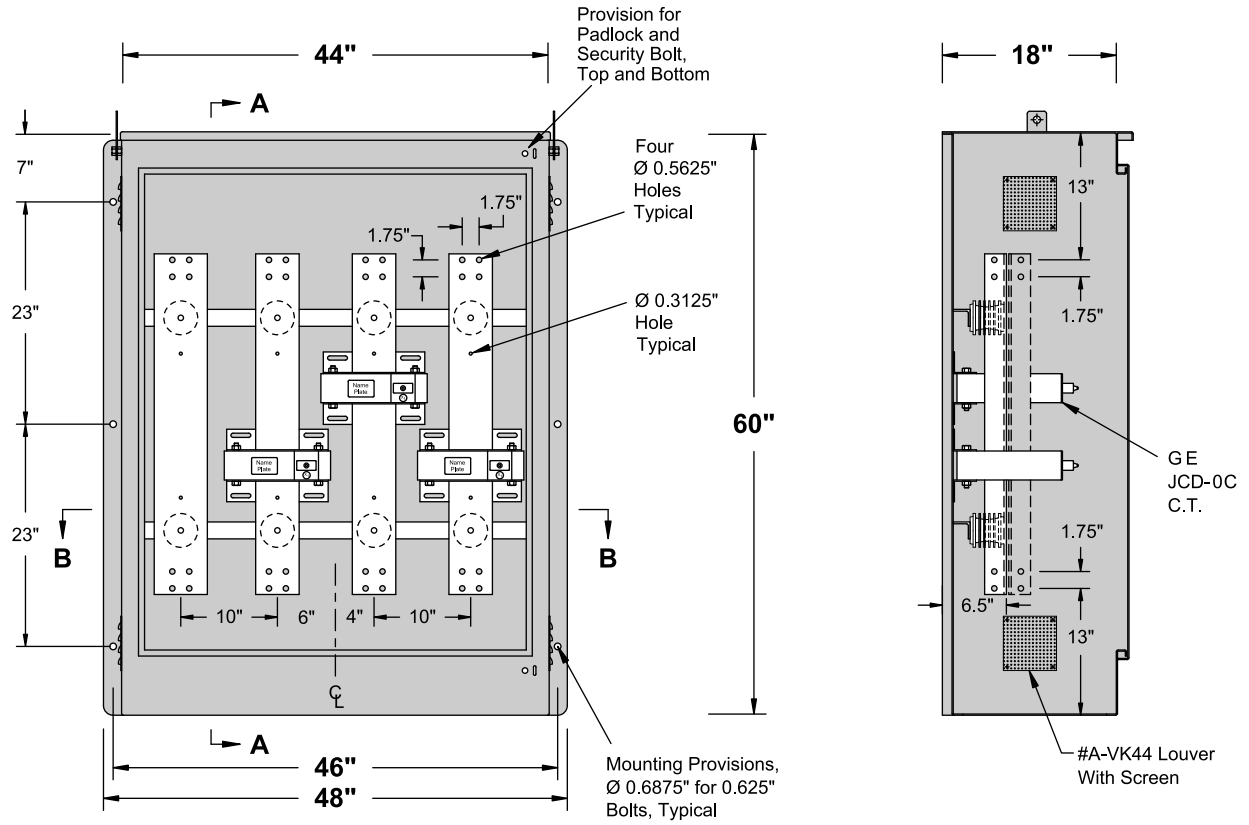
**Alternate Bus:**  
 Three Sets: 2 - 0.25" x 5" Copper Bus  
 One Set: 2 - 0.25" x 4" Copper Bus  
 2,000/2,500 Amp at 30/45 degree C rise over 40 degree C Ambient

Standard Paint: "Grey" Munsell #5BG 7.0/0.4

**ENCLOSURE OPTIONS:**  
 1) 0.125" #5052H32 Aluminum  
 2) 12-gauge #304L Stainless Steel

- 11-gauge Steel Enclosure
- Four Screened Louvers
- Kinked Top
- Stainless Steel Hinges
- Provisions for padlock and stainless steel hex-head (or penta-head) bolt
- 1" Min. Strike Distance to Ground

**Catalog Number**  
**EWM-SBE-0.6-331-CT-44W18D-60H-D95377**



**Rear View**  
Door Removed

**Section AA**

**Section BB**

**Standard Bus:**  
Three Single: 0.25" x 4"W x 2"D Channel Copper Bus  
One Single: 0.25" x 5" Copper Bus  
2,000/2,300 Amp at 30/45 degree C rise over  
40 degree C Ambient

**Alternate Bus:**  
Three Sets: 2 - 0.25" x 4"W x 2"D Channel Copper Bus  
One Single: 0.25" x 4"W x 2"D Channel Copper Bus  
3,000/3,800 Amp at 30/45 degree C rise over  
40 degree C Ambient

Standard Paint: "Grey" Munsell #5BG 7.0/0.4

**ENCLOSURE OPTIONS:**  
1) 0.125" #5052H32 Aluminum  
2) 12-gauge #304L Stainless Steel

- 11-gauge Steel Enclosure
- Four Screened Louvers
- Kinked Top
- Stainless Steel Hinges
- Provisions for padlock and stainless steel hex-head (or penta-head) bolt
- 1" Min. Strike Distance to Ground

**Catalog Number**  
**EWM-SBE-0.6-331-CT-44W18D-60H-D95378**



# 600-Volt Wall-Mount Secondary Bus Enclosure with Current Transformers

Three-Phase Indoor/Outdoor

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## Typical Specification - Page 1 of 2

### General

The wall-mount secondary bus enclosure with current transformers shall be 600 volt class, suitable for use on systems that do not exceed 600 volts to ground (nor 1000 volts phase-to-phase). Each phase bus shall be designed for and contain (or accept) a 600 volt class current transformer (GE JAD-0C or equal). The phase bus(es) and the full-size neutral bus shall be constructed for connection to the electrical system with two-hole and/or four-hole NEMA Standard bolt-on cable-terminal lugs (terminal lugs shall be supplied by the user). Tamper resistance shall meet the Enclosure Security requirements of IEEE Standard C57.12.28 (Pad-Mounted Equipment—Enclosure Integrity) to resist unauthorized entry, protect authorized and unauthorized persons, and provide positive safety features when installed in areas accessible to the general public. The enclosure shall be constructed for indoor and outdoor installation in areas subject to heavy precipitation and in areas of windblown contamination. The equipment shall be completely assembled prior to shipment.

### Enclosure Construction

The wall-mount enclosure shall be tamper-resistant, all-welded construction utilizing 11-gauge minimum sheet steel. The enclosure top shall be kinked to provide watershed and rigidity. The enclosure shall be closed bottom. The door(s) shall be furnished with a stainless steel door holder that will latch the door open 100 degrees and 140 degrees and resist accidental closing. Door(s) shall be provided with provisions for padlocking and a recessed hex-head (or penta-head) security bolt to prevent unauthorized entry (coordinated to prevent installation of the padlock until the security bolt is tightened *when* closing the door(s) and to prevent a wrench from operating the security bolt until the padlock is removed *when* opening the door(s)). The security bolt shall be made captive with a stainless steel washer compressed to an oval shape to severely discourage removal. Hinges shall be stainless steel (with stainless steel pins not less than 0.3125-inch diameter) and shall be welded to both the enclosure and the door(s) to maintain door alignment for the life of the equipment. The enclosure shall be nonventilated to minimize the entrance of airborne contamination, insects, rodents or reptiles. The protective finish shall include necessary grinding, cleaning and phosphatizing, two-component rust-inhibiting epoxy primer and a Light Gray two-component polyurethane top coat finish (Munsell color 5BG 7.0/0.4). The primer

and top coat shall be electronically monitored during application to insure proper ratio and mixing of each component. Total average thickness of paint (after curing) shall be not less than 5 mils. The protective coating shall meet the Enclosure Coating System requirements of IEEE Standard C57.12.28 (Pad-Mounted Equipment—Enclosure Integrity). Removable lift provisions, adequate to withstand handling with normal utility equipment, shall be provided on the outside of the enclosure. Threaded openings for lift provision bolts shall be blind holes to prevent the entrance of wire or other foreign objects into the enclosure when lift provisions are removed.

### Bus and Bus Mountings

Bus shall be bare copper (Alternate #1—tin-plated copper) with all burrs and sharp corners removed prior to installation. It shall be punched with 0.5625-inch diameter holes on 1.75-inch centers to accommodate both two-hole and four-hole NEMA Standard cable-terminal lugs. The bus shall be constructed to allow installation and provide support for 600-volt class current transformers (GE JAD-0C or equal). The insulators shall be cycloaliphatic epoxy and shall be mounted in a manner that will allow field replacement with standard tools without removal of cables that may be bolted to the bus. Insulators and bus bars shall be installed with stainless steel mounting hardware to provide long life and reduced maintenance. All components shall be arranged to allow visual inspection without de-energizing or removing the equipment from service.

### Current Transformers

**Alternate 1:** Current Transformers shall be supplied and installed by the user.

**Alternate 2:** Current Transformers specified by the user shall be supplied and installed by the manufacturer.

### Secondary Wiring

**Alternate 1:** Secondary wiring shall be supplied and installed by the user.

**Alternate 2:** Secondary wiring shall be #10 THW/XHHW stranded-copper wire connecting the instrument transformer secondary to the 10-Terminal Test Switch and 13-Terminal Meter Socket installed on the right-hand exterior wall of the wall mount secondary bus enclosure. The secondary wiring shall be color-coded as specified by the user (or the factory color code when the user does not specify a color code).



# 600-Volt Wall-Mount Secondary Bus Enclosure with Current Transformers

Three-Phase Indoor/Outdoor

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## Typical Specification - Page 2 of 2

### Grounding Provisions

Two high-conductivity bronze eyebolt-type ground lugs, which accept #6 through #2/0 copper conductor, shall be installed on the inside walls of the enclosure (located on each side of the door opening in an accessible position).

### Accessory Equipment

A corrosion proof nameplate with permanent thermal transfer printing shall be installed inside the door. It shall be located at the top corner farthest from the bus when the door is open. The nameplate will provide Type of Equipment, Model Number, Amps Continuous, kV Maximum, BIL, Serial Number, Job Number, Date Manufactured and Weight of Equipment.

When specified, one "Warning - Keep Out! - Hazardous Voltage" sign, Elliott #7201-W2003-316, shall be provided on the outside of the door.

### Packaging

Each wall-mount secondary bus enclosure shall be bolted to a solid-top wood pallet to prevent hidden damage. The equipment shall be wrapped with 0.125-inch thick polyethylene foam and stretchwrap or other suitable material to minimize damage to the finish during shipment.

### Drawings

When specified, drawings shall be furnished for each wall-mount secondary bus enclosure that include:

- 1) enclosure dimensions and location of components.
- 2) location of mounting bolts.

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**If you do not find the design  
you need  
PLEASE CONTACT  
our REPRESENTATIVE or the FACTORY**