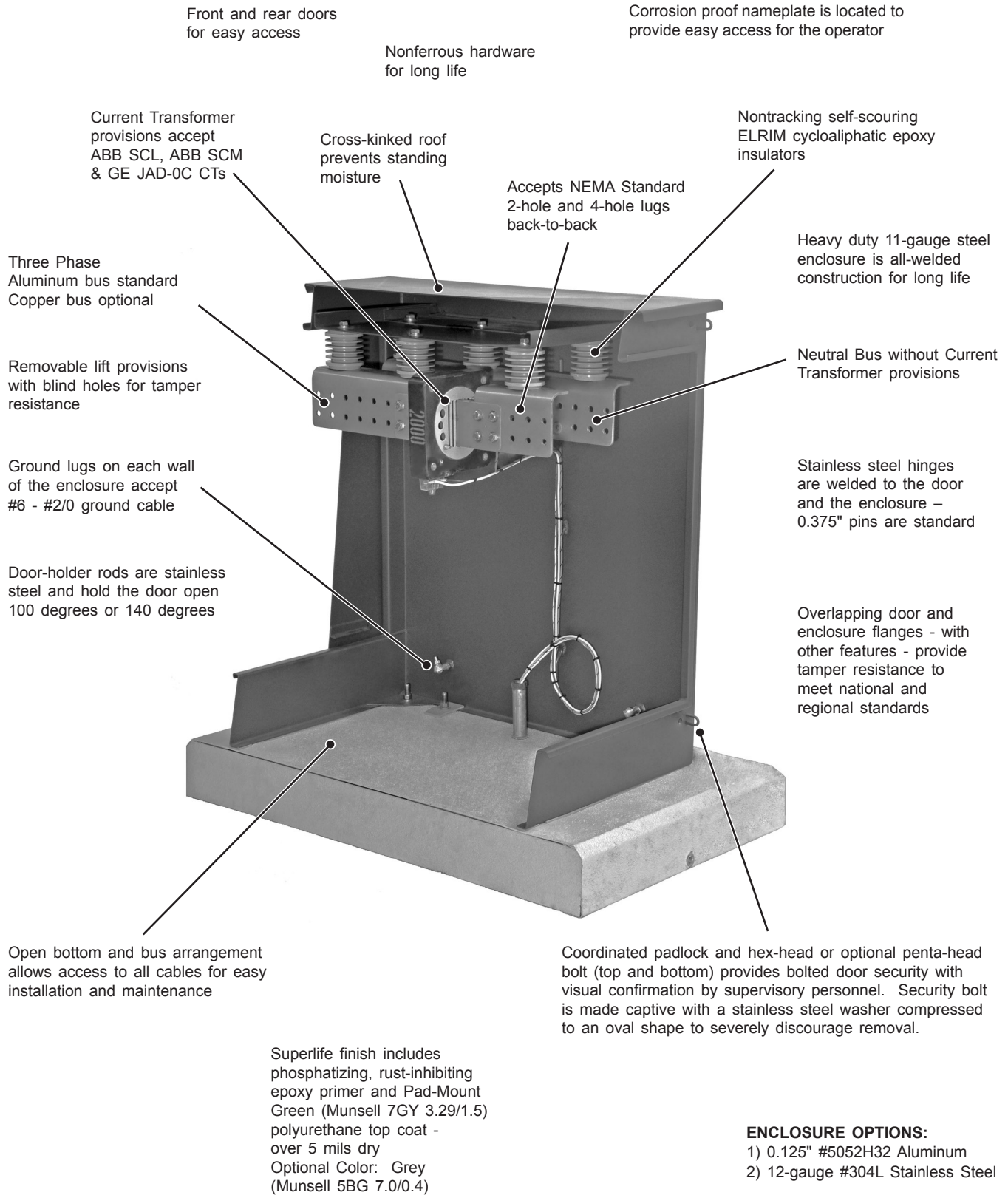
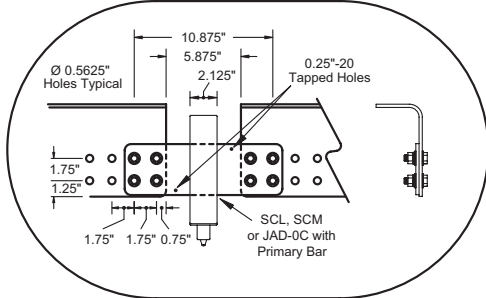


600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor



Bus Selection Information



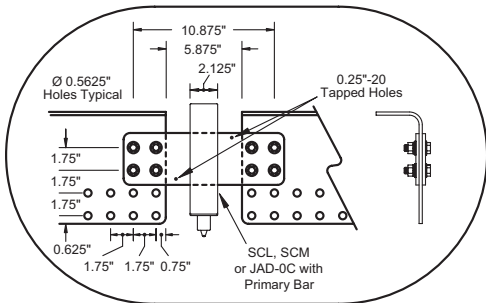
Supplied in 42"W x 42"D Enclosure - See Pages 4 & 5

Standard Bus:

Four Single 0.25" x 10" Aluminum Bus
1,800/2,100 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Single 0.25" x 10" Copper Bus
2,400/2,800 Amp at 30/45 degree C rise
over 40 degree C Ambient



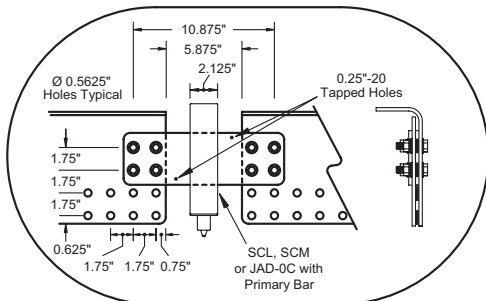
Supplied in 48"W x 48"D Enclosure - See Pages 6 & 7

Standard Bus:

Four Single 0.25" x 12" Aluminum Bus
2,100/2,500 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Single 0.25" x 12" Copper Bus
2,800/3,400 Amp at 30/45 degree C rise
over 40 degree C Ambient



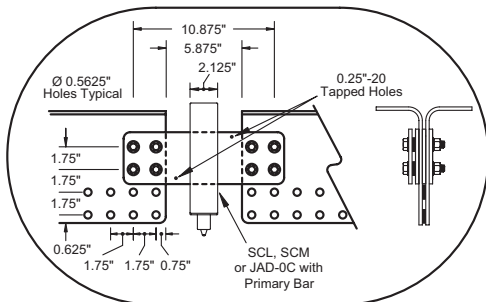
Supplied in 54"W x 54"D Enclosure - See Pages 8 & 9

Standard Bus:

Four Sets: 1 - 0.25" x 12" and
1 - 0.25" x 8" Aluminum Bus
2,700/3,400 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Sets: 1 - 0.25" x 12" and
1 - 0.25" x 8" Copper Bus
3,600/4,500 Amp at 30/45 degree C rise
over 40 degree C Ambient



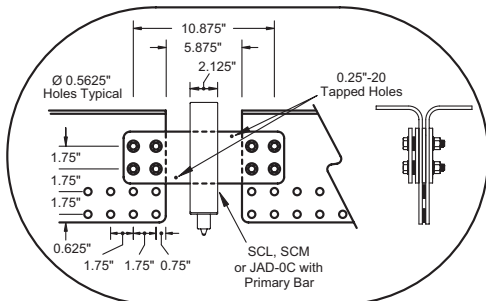
Supplied in 60"W x 60"D Enclosure - See Pages 10 & 11

Standard Bus:

Four Sets: 2 - 0.25" x 12" Aluminum Bus
3,200/4,000 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Sets: 2 - 0.25" x 12" Copper Bus
4,250/5,300 Amp at 30/45 degree C rise
over 40 degree C Ambient



Supplied in 66"W x 66"D Enclosure - See Pages 12 & 13

Standard Bus:

Four Sets: 2 - 0.25" x 12" and
1 - 0.25" x 10" Aluminum Bus
3,750/4,650 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Sets: 2 - 0.25" x 12" and
1 - 0.25" x 10" Copper Bus
5,000/6,200 Amp at 30/45 degree C rise
over 40 degree C Ambient

Current Transformer Information

See Page 15 for Ratios and Catalog Numbers

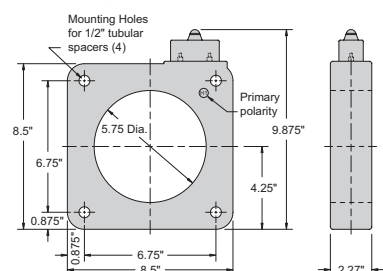
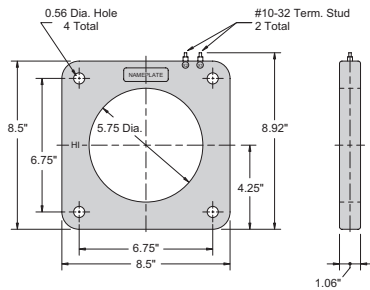
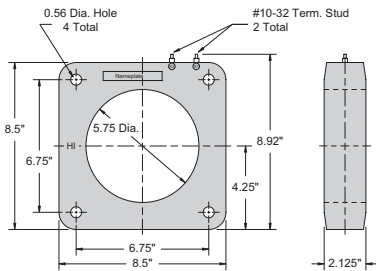
ABB
 SCL



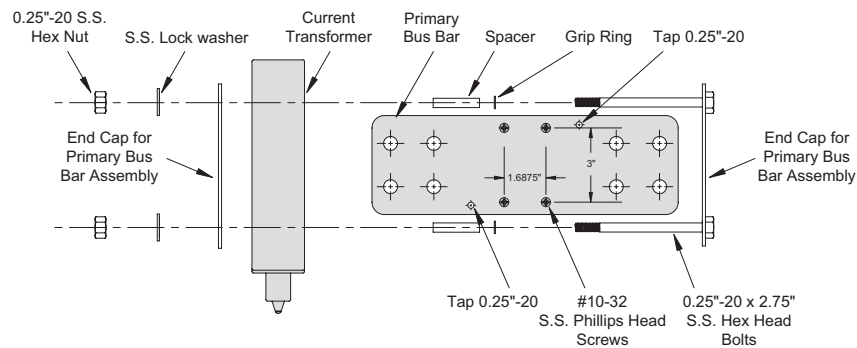
ABB
 SCM



GENERAL ELECTRIC
 JAD-0C

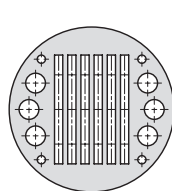


Removable Primary Bus Bars are supplied with all Bus Enclosures

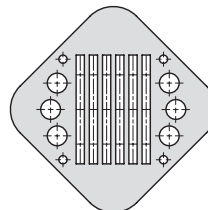


Removable Primary Bus Bar Assembly for SCL, SCM, and JAD-0C Current Transformers

Can be ordered from GE with transformers - specify 10.875" Primary Bar
 or to order end caps with hardware from Elliott - specify Elliott #PBA Assembly



GE End Cap
 Two (2) Required per
 Current Transformer



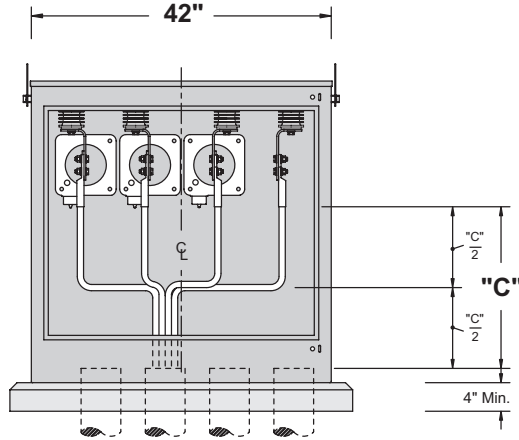
Elliott End Cap
 Two (2) Required per
 Current Transformer



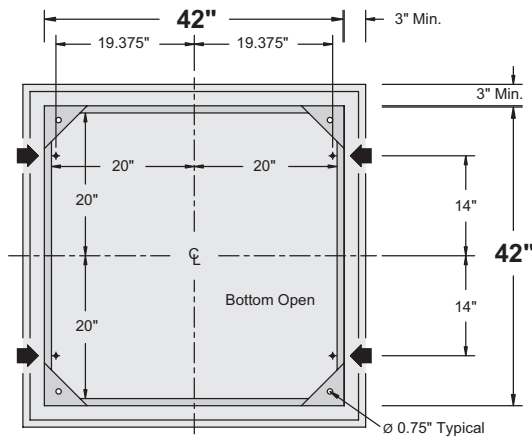
600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor

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340-067
Page 4 2016

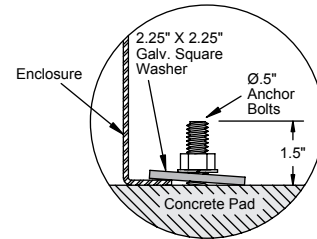


Typical Cable Training
Dim. "C" - Measure in the Field

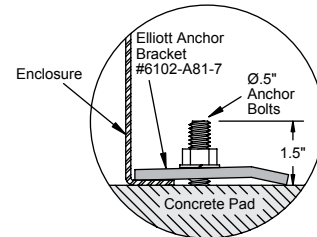


+ ◀ Anchor Bolt Locations

Section BB
and Typical Pad Dimensions



Alternate #1



Alternate #2

Catalog Number	Dim. "C"
ESBE-0.6-331-CT-42W42D-36H-D87231	Measure in the Field
ESBE-0.6-331-CT-42W42D-42H-D87231	Measure in the Field
ESBE-0.6-331-CT-42W42D-48H-D87231	Measure in the Field
ESBE-0.6-331-CT-42W42D-54H-D87231	Measure in the Field

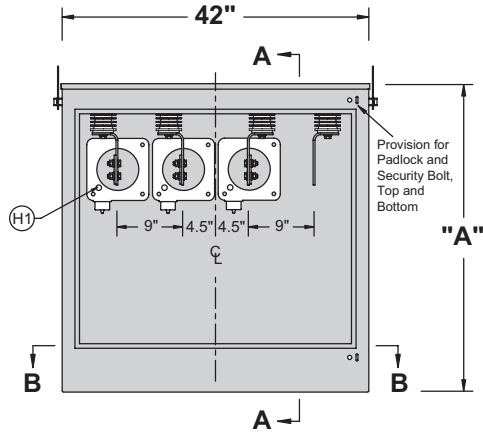
Secondary Bus Enclosures are available in other size enclosures, bus ratings and current transformer provisions. If you do not find a model to fit your need, please contact our representative or the factory.



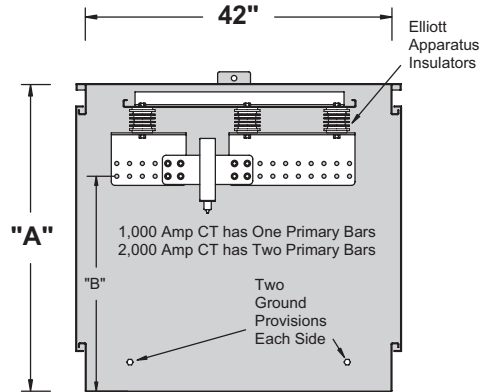
600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor

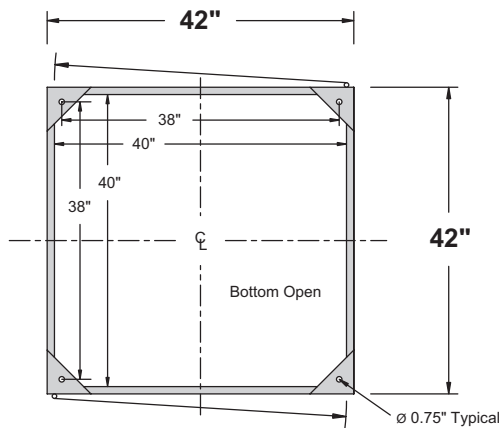
Bulletin
340-067
Page 5 2016



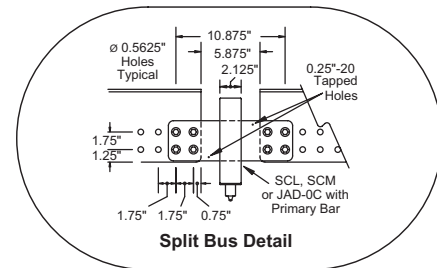
Front View
Rear View Opposite Hand
Door Removed



Section AA



Section BB



Split Bus Detail

Standard Bus:

Four Single 0.25" x 10" Aluminum Bus
1,800/2,100 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Single 0.25" x 10" Copper Bus
2,400/2,800 Amp at 30/45 degree C rise
over 40 degree C Ambient

Catalog Number	Dim. "A"	Dim. "B"
ESBE-0.6-331-CT-42W42D-36H-D87231	36"	23.375"
ESBE-0.6-331-CT-42W42D-42H-D87231	42"	29.375"
ESBE-0.6-331-CT-42W42D-48H-D87231	48"	35.375"
ESBE-0.6-331-CT-42W42D-54H-D87231	54"	41.375"

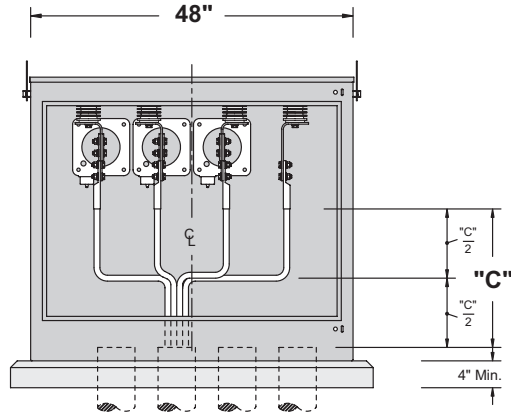
Secondary Bus Enclosures are available in other size enclosures, bus ratings and current transformer provisions. If you do not find a model to fit your need, please contact our representative or the factory.



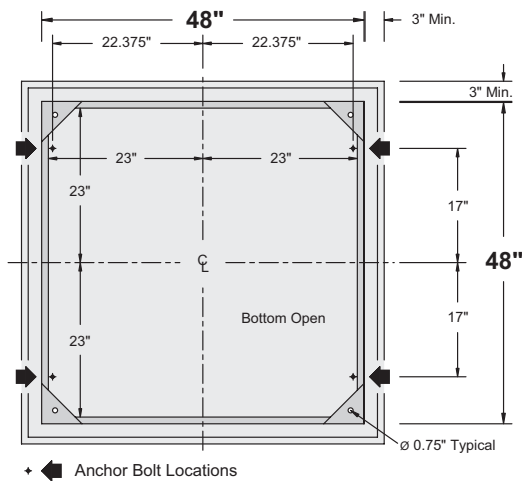
600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor

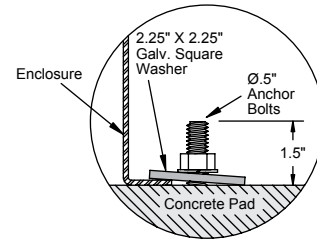
Bulletin
340-067
Page 6 2016



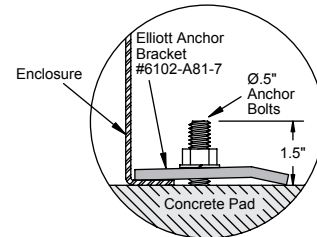
Typical Cable Training
Dim. "C" - Measure in the Field



Section BB
and Typical Pad Dimensions



Alternate #1



Alternate #2

Catalog Number	Dim. "C"
ESBE-0.6-331-CT-48W48D-36H-D2001048	Measure in the Field
ESBE-0.6-331-CT-48W48D-42H-D2001048	Measure in the Field
ESBE-0.6-331-CT-48W48D-48H-D2001048	Measure in the Field
ESBE-0.6-331-CT-48W48D-54H-D2001048	Measure in the Field

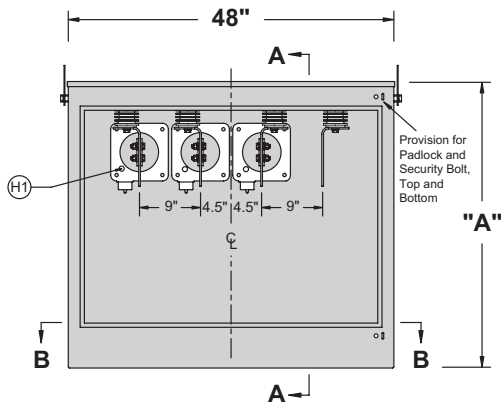
Secondary Bus Enclosures are available in other size enclosures, bus ratings and current transformer provisions. If you do not find a model to fit your need, please contact our representative or the factory.



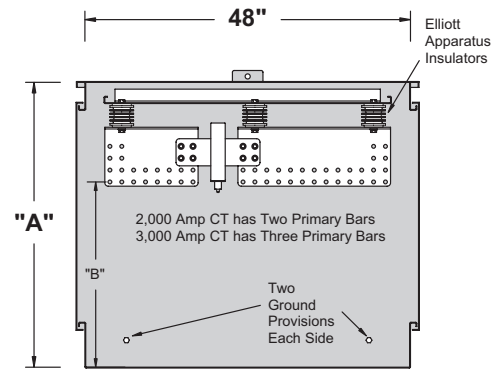
600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor

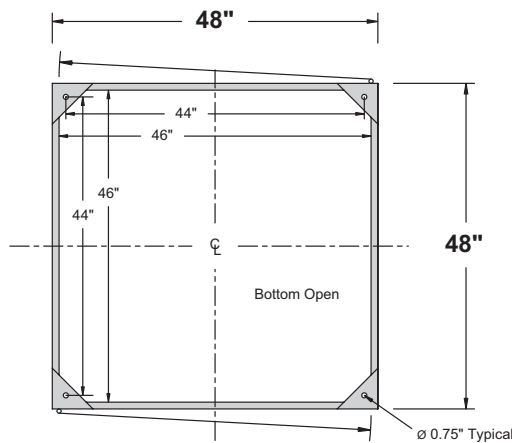
Bulletin
340-067
Page 7 2016



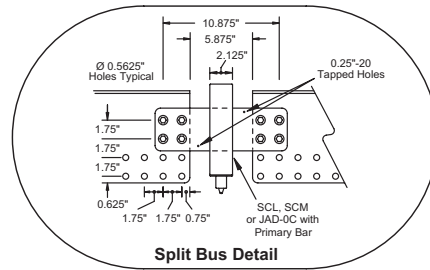
Front View
Rear View Opposite Hand
Door Removed



Section AA



Section BB



Standard Bus:

Four Single 0.25" x 12" Aluminum Bus
2,100/2,500 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Single 0.25" x 12" Copper Bus
2,800/3,400 Amp at 30/45 degree C rise
over 40 degree C Ambient

Catalog Number	Dim. "A"	Dim. "B"
ESBE-0.6-331-CT-48W48D-36H-D2001048	36"	21.375"
ESBE-0.6-331-CT-48W48D-42H-D2001048	42"	27.375"
ESBE-0.6-331-CT-48W48D-48H-D2001048	48"	33.375"
ESBE-0.6-331-CT-48W48D-54H-D2001048	54"	39.375"

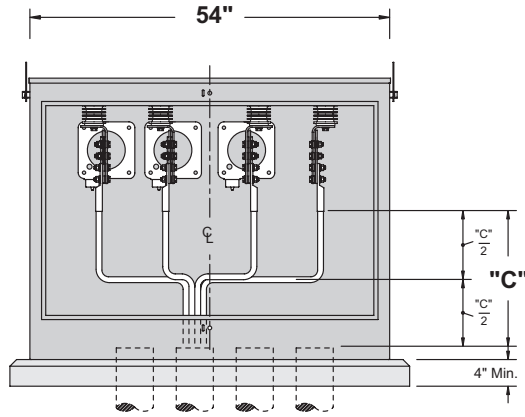
Secondary Bus Enclosures are available in other size enclosures, bus ratings and current transformer provisions. If you do not find a model to fit your need, please contact our representative or the factory.



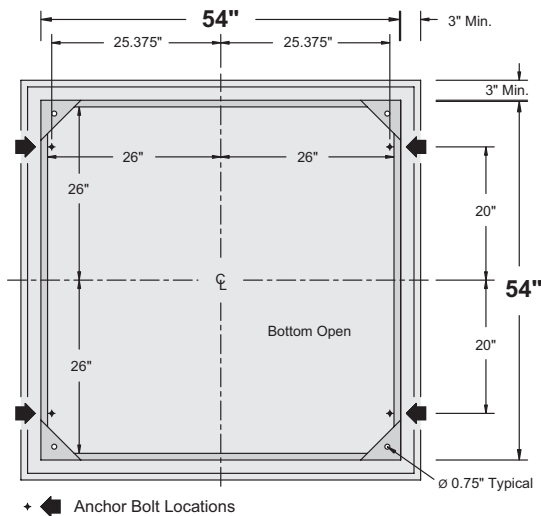
600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor

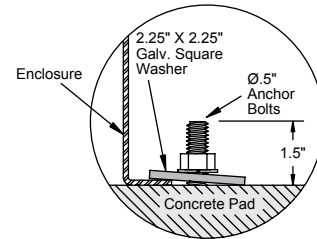
Bulletin
340-067
Page 8 2016



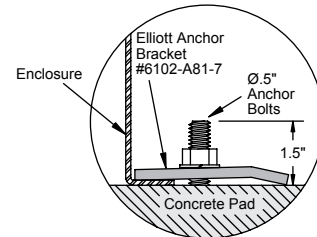
Typical Cable Training
Dim. "C" - Measure in the Field



Section BB
and Typical Pad Dimensions



Alternate #1



Alternate #2

Catalog Number	Dim. "C"
ESBE-0.6-331-CT-54W54D-36H-D2003218	Measure in the Field
ESBE-0.6-331-CT-54W54D-42H-D2003218	Measure in the Field
ESBE-0.6-331-CT-54W54D-48H-D2003218	Measure in the Field
ESBE-0.6-331-CT-54W54D-54H-D2003218	Measure in the Field

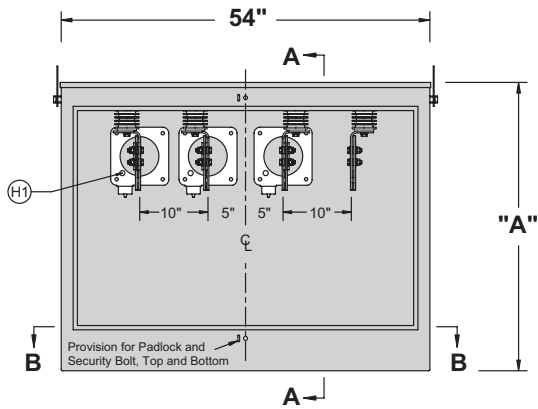
Secondary Bus Enclosures are available in other size enclosures, bus ratings and current transformer provisions. If you do not find a model to fit your need, please contact our representative or the factory.



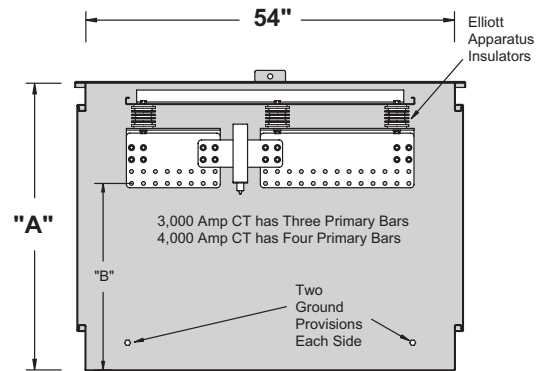
600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor

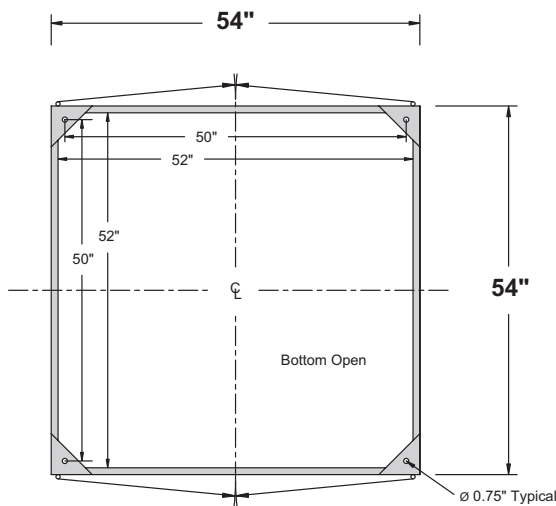
Bulletin
340-067
Page 9 2016



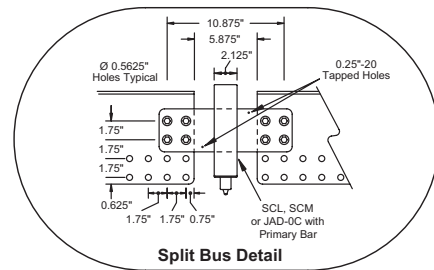
Front View
Rear View Opposite Hand
Door Removed



Section AA



Section BB



Standard Bus:

Four Sets: 1 - 0.25" x 12" and
1 - 0.25" x 8" Aluminum Bus
2,700/3,400 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Sets: 1 - 0.25" x 12" and
1 - 0.25" x 8" Copper Bus
3,600/4,500 Amp at 30/45 degree C rise
over 40 degree C Ambient

Catalog Number	Dim. "A"	Dim. "B"
ESBE-0.6-331-CT-54W54D-36H-D2003218	36"	21.375"
ESBE-0.6-331-CT-54W54D-42H-D2003218	42"	27.375"
ESBE-0.6-331-CT-54W54D-48H-D2003218	48"	33.375"
ESBE-0.6-331-CT-54W54D-54H-D2003218	54"	39.375"

Secondary Bus Enclosures are available in other size enclosures, bus ratings and current transformer provisions. If you do not find a model to fit your need, please contact our representative or the factory.

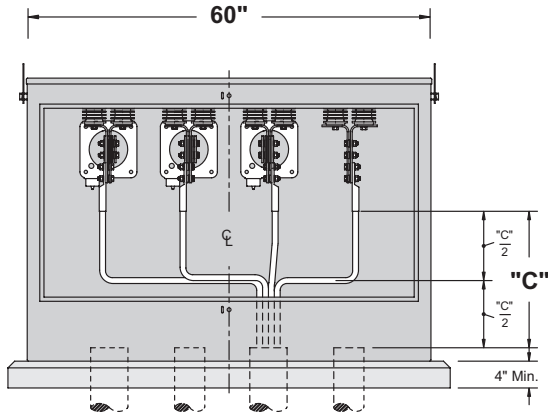


600-Volt Secondary Bus Enclosure with Current Transformers

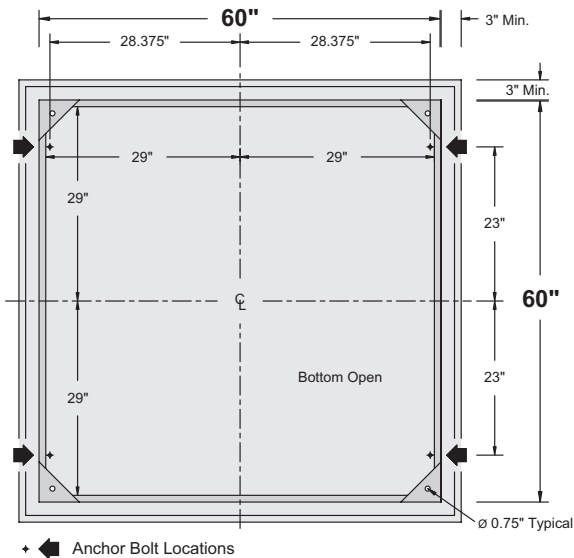
Three-Phase – Pad-Mounted – Outdoor

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340-067
Page 10 2016

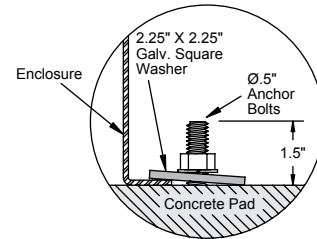
Cable Training and Anchor Bolt Locations



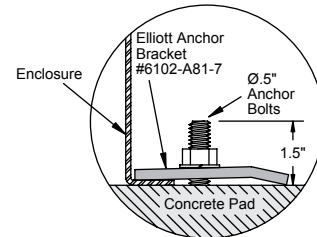
Typical Cable Training
Dim. "C" - Measure in the Field



Section BB
and Typical Pad Dimensions



Alternate #1



Alternate #2

Catalog Number	Dim. "C"
ESBE-0.6-331-CT-60W60D-36H-D2010148	Measure in the Field
ESBE-0.6-331-CT-60W60D-42H-D2010148	Measure in the Field
ESBE-0.6-331-CT-60W60D-48H-D2010148	Measure in the Field
ESBE-0.6-331-CT-60W60D-54H-D2010148	Measure in the Field

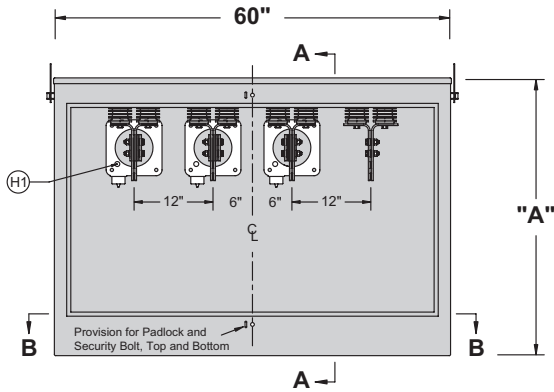
Secondary Bus Enclosures are available in other size enclosures, bus ratings and current transformer provisions. If you do not find a model to fit your need, please contact our representative or the factory.



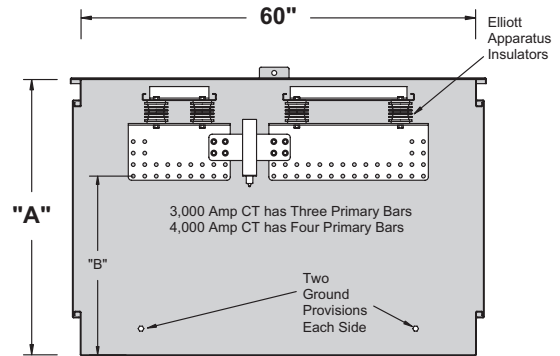
600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor

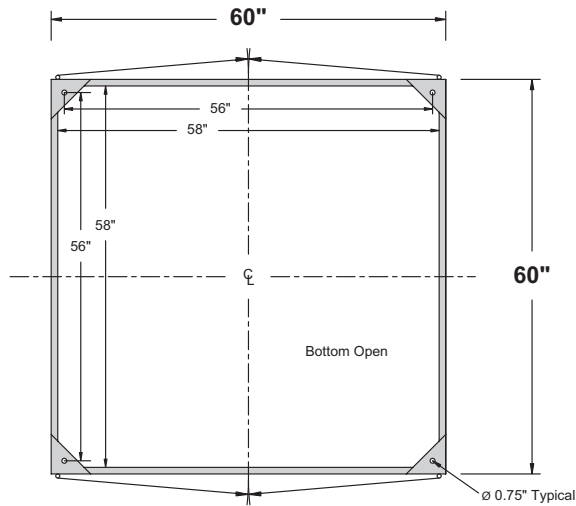
Bulletin
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Page 11 2016



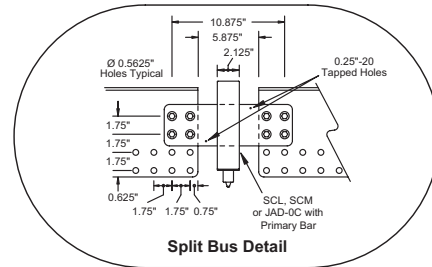
Front View
Rear View Opposite Hand
Door Removed



Section AA



Section BB



Standard Bus:

Four Sets: 2 - 0.25" x 12" Aluminum Bus
3,200/4,000 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Sets: 2 - 0.25" x 12" Copper Bus
4,250/5,300 Amp at 30/45 degree C rise
over 40 degree C Ambient

Catalog Number	Dim. "A"	Dim. "B"
ESBE-0.6-331-CT-60W60D-36H-D2010148	36"	21.375"
ESBE-0.6-331-CT-60W60D-42H-D2010148	42"	27.375"
ESBE-0.6-331-CT-60W60D-48H-D2010148	48"	33.375"
ESBE-0.6-331-CT-60W60D-54H-D2010148	54"	39.375"

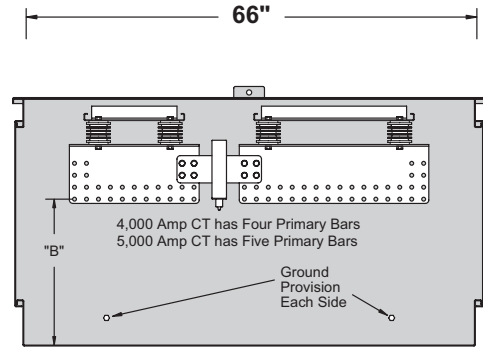
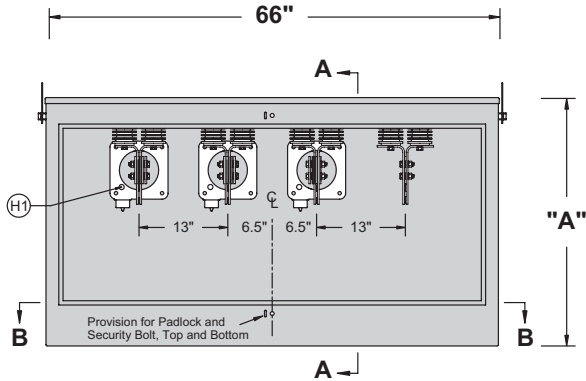
Secondary Bus Enclosures are available in other size enclosures, bus ratings and current transformer provisions. If you do not find a model to fit your need, please contact our representative or the factory.



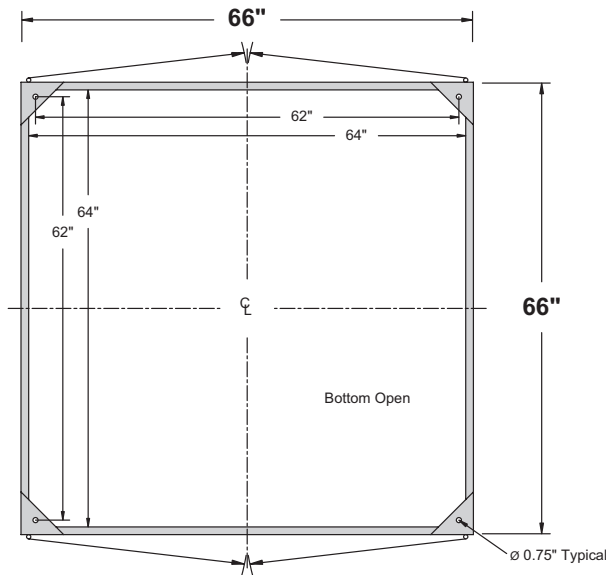
600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor

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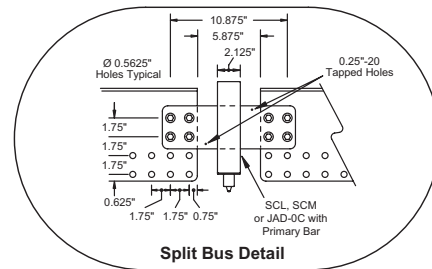


**Front View
Rear View Opposite Hand
Door Removed**



Section BB

Section AA



Standard Bus:

Four Sets: 2 - 0.25" x 12" and
1 - 0.25" x 10" Aluminum Bus
3,750/4,650 Amp at 30/45 degree C rise
over 40 degree C Ambient

Alternate Bus:

Four Sets: 2 - 0.25" x 12" and
1 - 0.25" x 10" Copper Bus
5,000/6,200 Amp at 30/45 degree C rise
over 40 degree C Ambient

Catalog Number	Dim. "A"	Dim. "B"
ESBE-0.6-331-CT-66W66D-36H-D2011103	36"	21.375"
ESBE-0.6-331-CT-66W66D-42H-D2011103	42"	27.375"
ESBE-0.6-331-CT-66W66D-48H-D2011103	48"	33.375"
ESBE-0.6-331-CT-66W66D-54H-D2011103	54"	39.375"
ESBE-0.6-331-CT-66W66D-60H-D2011103	60"	45.375"

Secondary Bus Enclosures are available in other size enclosures, bus ratings and current transformer provisions. If you do not find a model to fit your need, please contact our representative or the factory.



600-Volt Secondary Bus Enclosure with Current Transformers

Three-Phase – Pad-Mounted – Outdoor

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Typical Specification - Page 1 of 2

General

The 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 include (or accept) a 600 volt class current transformer (ABB SCL, ABB SCM, 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 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 enclosure shall be tamper-resistant, all-welded construction utilizing 11-gauge minimum sheet steel. Corner plates and braces shall be used as necessary to assure rigidity. The enclosure top shall be cross-kinked to provide watershed and rigidity. The enclosure shall be open bottom with a 1-inch flange inside, all around. 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 Pad-Mount Green two-component polyurethane top coat finish (Munsell color 7GY 3.29/1.5). 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 aluminum (Alternate #1—bare copper, Alternate #2—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 (ABB SCL, ABB SCM, GE JAD-0C or equal) utilizing the correct number of 0.25-inch by 4-inch primary bars with 10.875-inch outboard centerline mounting holes. The current transformers shall be mounted in a manner that will allow installation or field replacement without the removal of cables that may be bolted to the bus. A minimum of two insulators shall be provided for each bus assembly. 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.

Voltage Transformers

Alternate 1: Voltage Transformers are not required.

Alternate 2: When specified, a mounting plate shall be provided for Voltage Transformers supplied and installed by the user.

Alternate 3: When specified, a mounting plate shall be provided for Voltage Transformers 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 Secondary Bus Enclosure (when facing the front door). 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).



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Barrier Option

When Option B11 is specified, a clear polycarbonate barrier not less than 0.25-inch nominal thickness shall be provided (and installed) that divides the utility access compartment from the consumer access compartment. The clearance from the barrier to each wall shall not exceed two inches. The clearance from the barrier to the bottom of the enclosure shall not exceed twelve inches. Openings to accommodate bus bars extending through the barrier shall provide not less than 0.5-inch clearance nor more than 2-inch clearance from the bus bar in every direction.

Grounding Provisions

Four 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 each door opening in an accessible position as shown on the drawings).

Accessory Equipment

A corrosion proof nameplate with permanent thermal transfer printing shall be installed inside one door on the cable compartment. It shall be located at the top corner farthest from the cables 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 each door.

When specified, four anchor-bolt brackets, Elliott #6102-A81-7 or approved equal, shall be supplied with each secondary bus enclosure to provide a means of clamping the equipment to the concrete pad.

Packaging

Each secondary bus enclosure shall be bolted to a solid-top wood pallet (to prevent the forks of a forklift truck from entering the open bottom of the equipment) to prevent hidden damage. The equipment shall be wrapped with 0.125-inch thick polyethylene foam or other suitable material to minimize damage to the finish during shipment.

Drawings

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

- 1) enclosure dimensions and location of components.
- 2) proposed cable-training layout and dimensions.
- 3) proposed pad dimensions and location of anchor bolts.



SCL

Primary Amps	Style Number	Rating Factor	
		30°C	55°C
200	7526A81G01	2.0	1.5
300	7526A81G02	2.0	1.5
400	7526A81G03	2.0	1.5
600	7526A81G04	2.0	1.5
800	7526A81G05	2.0	1.5
1000	7526A81G06	1.5	1.0
1200	7526A81G07	1.5	1.0
1500	7526A81G08	1.33	1.0
2000	7526A81G09	1.33	1.0
2500	7526A81G10	1.33	1.0
3000	7526A81G11	1.33	1.0
4000	7526A81G12	1.33	1.0



SCM

Primary Amps	Style Number	Rating Factor	
		30°C	55°C
200	7525A36G01	1.33	1.0
300	7525A36G02	1.33	1.0
400	7525A36G03	1.33	1.0
500	7525A36G04	1.33	1.0
600	7525A36G05	1.33	1.0
800	7525A36G06	1.33	1.0
1000	7525A36G07	1.33	1.0
1200	7525A36G08	1.33	1.0
1500	7525A36G09	1.33	1.0
1600	7525A36G10	1.33	1.0
2000	7525A36G11	1.33	1.0
2500	7525A36G12	1.33	1.0
3000	7525A36G13	1.33	1.0
4000	7525A36G14	1.0	0.5

GENERAL ELECTRIC **JAD-0C**

Current Ratio in Amperes Pri : Sec	Catalog Number (with Round Window; without Mounting Base)	Continuous-thermal-current Rating Factor 30°C Ambient
200:5	750X120240	4.0
300:5	750X120241	4.0
400:5	750X120242	4.0
500:5	750X120243	4.0
600:5	750X120244	3.0
800:5	750X120001	3.0
1000:5	750X120002	2.0
1200:5	750X120003	2.0
1500:5	750X120180	3.0
2000:5	750X120005	2.0
2500:5	750X120006	1.5
3000:5	750X120007	1.5
4000:5	750X120008	1.5



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**Information needed to provide a Quotation for a
Secondary Bus Enclosure with Current Transformers**

Catalog Number: _____

Enclosure: Standard 11-gauge Steel 0.125" Aluminum 12-gauge Stainless Steel

Hex Head Security Bolts Penta Head Security Bolts

Actual Secondary Voltage (Optional): _____

Without CTs: With CTs: CT Ratio _____:5 Without VTs: With VTs: VT Ratio _____:1

Preferred Brand of Transformers: ABB GE Either Other _____

CT Style/Catalog Number: _____ VT Style/Catalog Number: _____

Your Name, Company Name, Complete Postal Address and E-mail Address:

Name and Complete Shipping Address:	Project Name:
_____	_____
_____	_____
_____	_____

NOTE: Single phase and two phase Secondary Bus Enclosures are available. Contact our representative or the factory.

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