

# SIEMENS

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Selection  
and  
application  
guide

## 600Y/347V Meter Centres

Made in Canada, for Canada.

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# 600Y/347V Meter Centre

## General

### General Specifications

Siemens 600V metering line offers an ideal solution for restricted space projects. This metering solution for 600Y/347V applications has been designed in Canada based on contractors' feedback. Each meter stack houses features designed with the contractor in mind, to maximize productivity and minimize labour costs

### Voltage

600Y/347V AC

### Amperage

Horizontal bus bars rated for 1200A max.  
Vertical bus bars rated for 800A max.  
Meter socket rated for 200A max.

### Short Circuit rating

42,000A RMS symmetrical @ 600V max.  
when protected by 1200A maximum HRC class L type fuse

### Standard

CSA: C22.2 No. 229-M1988.  
Certified under file #153416

### Service

3-phase 4-wire 600Y/347Vac

### Enclosure

Type 1 enclosure. Meter stack comes standard with dripshield and blank end walls (no knockout). Meter stack enclosure, barriers and end plates are manufactured of galvanized steel. Front covers are fabricated of phosphatized steel finished with ASA 61 light grey paint.

### Meter Socket Jaws

Meter socket jaws consist of tin plated copper with steel spring reinforced clips for reliable contact pressure. Positive alignment of jaws and stabs is assured by bus straps factory installed.

### Sub-Service Breaker

High performance bolt-on circuit breakers can be selected to address site requirements from 70 to 200A. Interrupting ratings up to 25kA combine thermal and magnetic trip elements. Series rating is also available for approved combination up to 42kA when protected by 1200A maximum HRC class L type fuse.

### Breaker Provisions

Each 600V meter stack has provision for four 3-pole 200A max bolt-on type FXD6/HFXD6 circuit breaker. Backfed breakers must be used for this application. Generous gutter space allows for wiring for top or bottom of the meter module. All sub-service breaker mounting hardware is provided with each meter stack.

### Neutral & Ground Provisions

Each stack includes neutral & ground provisions.

Connectors	Wire size
Neutral	#6 @ 350MCM #14 @ 2
Ground	#6 @ 250MCM



### Features

- Robust and compact enclosure standard with dripshield
- Sturdy bussing connections providing durable support for each sub-service breaker
- Breaker and bus bar protection allowing screws recuperation
- Provision to padlock sub-service breaker in the "off" position
- Large wireway separated from meter area for easier connections.
- Trouble-free access to horizontal bars and easy access to cabling area
- Reliable and simple busbar to busbar connections

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## Selection: Sub-service Circuit Breakers

### Sub-service Circuit Breakers

- Assembled circuit breaker without lugs (lugs not required for this application)
- Non-interchangeable trip only
- Breaker mounting hardware provided with meter stack

Catalogue number		Amperage Rating	Number of Poles
22,000 AIC	25,000 AIC		
FXD63B070	HFXD63B070	70A	3
FXD63B080	HFXD63B080	80A	3
FXD63B090	HFXD63B090	90A	3
FXD63B100	HFXD63B100	100A	3
FXD63B125	HFXD63B125	125A	3
FXD63B150	HFXD63B150	150A	3
FXD63B175	HFXD63B175	175A	3
FXD63B200	HFXD63B200	200A	3

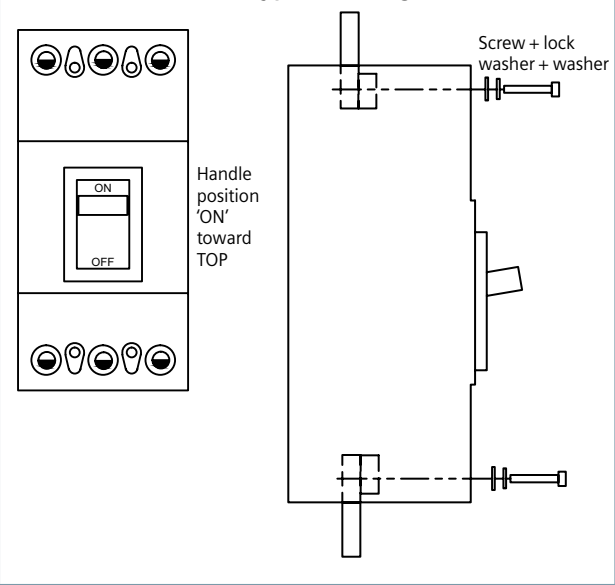
### Short Circuit Rating

Caution: When protected by 1200A maximum HRC class L fuse, this switching and metering centre is suitable for use on a circuit capable of delivering not more than 42KA RMS symmetrical, 600V maximum.

Caution: The short-circuit rating shall be limited to that of the device installed in it having the lowest short-circuit withstand or current-interrupting rating except if the installation is conform to the table below:

Series Combination			
Meter Centre/ Siemens Breaker	When the main protection is:	Meter Module Rating (A)	The maximum RMS short circuit rating (A) 3 phases, 600Y/347V AC
HFXD6 type only	Fuses HRC Class L (1200A max)	70A–200A	42,000

### Breaker FXD6, HFXD6 type Mounting Instruction



Circuit Breaker FXD6 Frame



# 600Y/347V Meter Centre

## Selection: Entry Modules

### Standard Tap Boxes

- Supplied with main service “IN” lugs and bus bar link connectors
- Suitable for left and right hand side entry (standard configuration is left hand side)

Main service voltage	Amperage Rating (Amp)	Catalogue number	Cable lug size per phase – suitable for Al and Cu cables	Overall dimensions in inches (mm)			Weight in lbs (kg)
				H	W	D	
600Y/347V 3Ø4W	600	MLTB3-6006	(4) 1/0 @ 750MCM Cu/Al	25 <sup>1</sup> / <sub>8</sub> (638)	27 <sup>1</sup> / <sub>4</sub> (692)	13 <sup>15</sup> / <sub>16</sub> (354)	68 (30.8)
	1200	MLTB3-12006	(4) 1/0 @ 750MCM Cu/Al	25 <sup>1</sup> / <sub>8</sub> (638)	27 <sup>1</sup> / <sub>4</sub> (692)	13 <sup>15</sup> / <sub>16</sub> (354)	70 (31.8)



MLTB3-6006

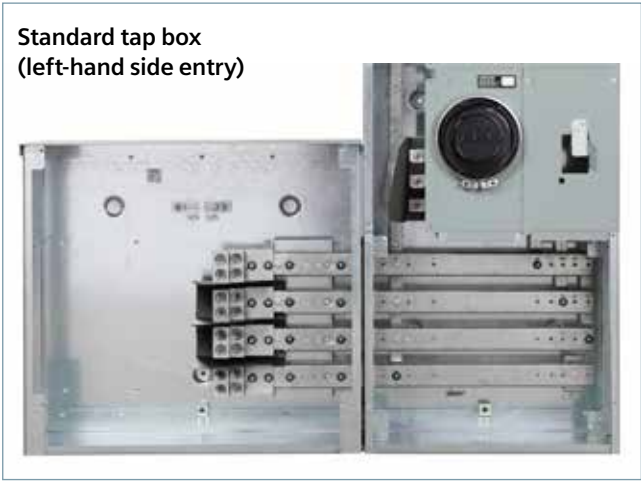
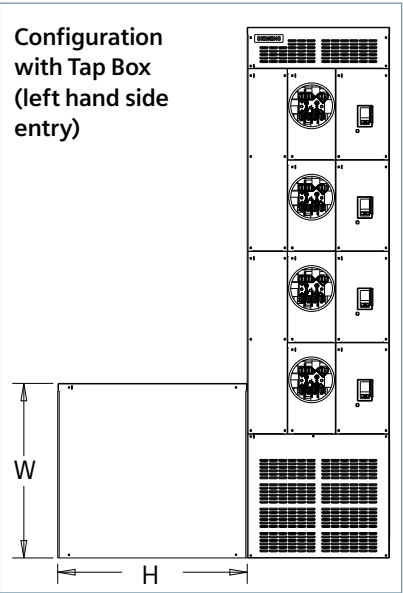
### Feed Through Tap Boxes

- Supplied with main service “IN” lugs, “OUT” lugs and bus bar link connectors
- 600A Feed Through tap box is suitable for left and right hand side entry
- 1200A Feed through tap box is suitable for left hand side entry only

Main service voltage	Amperage Rating (Amp)	Catalogue number	Cable lug size per phase – suitable for Al and Cu cables	Overall dimensions in inches (mm)			Weight in lbs (kg)
				H	W	D	
600Y/347V 3Ø4W	600	MLTB3-600FT6	(1) 250 @ 750 MCM Cu/Al or (2) 3/0 @ 250 MCM Cu/Al	25 <sup>1</sup> / <sub>8</sub> (638)	27 <sup>1</sup> / <sub>4</sub> (692)	13 <sup>15</sup> / <sub>16</sub> (354)	74 (33.6)
	1200	MLTB3-1200FT6	(8) 1/0 @ 750MCM Cu/Al	50 <sup>7</sup> / <sub>8</sub> (1285)	27 <sup>1</sup> / <sub>4</sub> (692)	13 <sup>15</sup> / <sub>16</sub> (354)	145 (65.8)



MLTB3-600FT6



# 600Y/347V Meter Centre

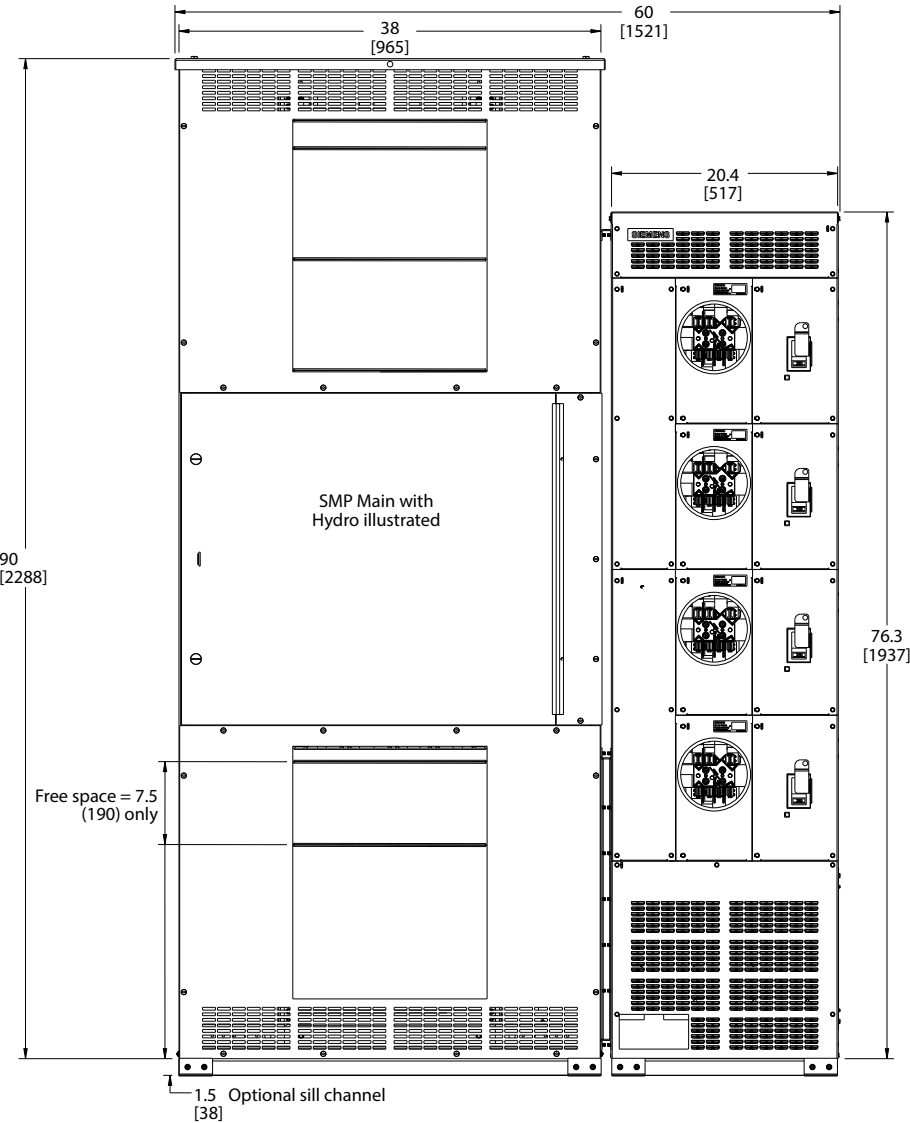
## Selection: Close coupled to SMP

### Close coupled with SMP

- Option available at 1200A only
- Main bus connector kit required to connect stack with SMP
- Suitable for left and right hand side entry based on main bus connector kit selection (standard configuration is left hand side entry as displayed below)

Main service voltage	Amperage Rating (Amp)	Catalogue number	Description	Weight in lbs (kg)
600Y/347V 3Ø4W	1200	MBSMP3-12006	SMP Connector kit 1200A Max	12 (5.4)
	1200	MBSMP3-1200G	SMP Connector kit 1200A Max (left)	12 (5.4)

Meter centre MMC37-42006 with bus bar joining kit MBSMP3-12006 where Meter Centre is on the right of the SMP – Inches (mm)



# 600Y/347V Meter Centre

## Selection: Meter stack

Main service voltage	Sub-service voltage	Catalogue number	Meter socket rating and number of jaws	Number of sub-service	Circuit breaker Type	Vertical Bus Bar rating (Amp)	Overall dimensions in inches (mm)			Weight in lbs (kg)
							H	W	D	
600Y/347V 3Ø4W	600Y/347V 3Ø4W	MMC37-42006	200A 7-Jaw	4	FXD6, HFXD6	800	76 <sup>1</sup> / <sub>4</sub> (1937)	20 <sup>5</sup> / <sub>8</sub> (524)	13 <sup>15</sup> / <sub>16</sub> (354)	220 (100)
	600Y/347V 3Ø4W	MMC37-42006HQ	200A 7-Jaw	4	FXD6, HFXD6	800	76 <sup>1</sup> / <sub>4</sub> (1937)	20 <sup>5</sup> / <sub>8</sub> (524)	13 <sup>15</sup> / <sub>16</sub> (354)	220 (100)

### 600Y/347V Meter Stack

- Cold metering
- Includes 4 meter sockets 7-jaw rated for 200A max
- Horizontal main bus bar rated for 1200A max
- Uses Siemens breakers 200A max, type FXD6 and HFXD6 only
- Includes provisions for 4 sub-service breakers, 200A max.
- Load cables can exit enclosure at top and/or bottom
- Type 1 enclosure, standard with dripshield and blank end walls
- Removable bottom plate to facilitate drilling holes for cable entry
- Option to have wireway covers on hinges

Siemens 600Y/347V meter stack are built to be closed-coupled with Siemens tap boxes, corners or Sentron® SMP Switchboard

Continuous load must not exceed 80% of the nominal rating

Wiring terminals are suitable for 60/75°C Al-Cu conductors including compact stranded.

Each stack includes neutral and ground provisions:

Phase Connectors: #6 – 350MCM

Neutral Connectors: #6 – 350MCM and #14 – 2

Ground Wire Connector: #6 – 250MCM

Tightening Torque	
<b>Mounting Screws</b> #10 25–30 lb in ¼ 80–95 lb in 5/16 120–140 lb in ¾ 220–250 lb in	<b>Breaker connector screws</b> ● 60–80 lb in <b>Horizontal bus joints</b> ● 80–100 lb in
<b>Connectors with Hex. Socket Screw</b> Wire size: #6 @ #4 50–70 lb in #2 @ #1 80–100 lb in 1/0 @ 2/0 130–150 lb in 3/0 @ 4/0 180–200 lb in 250 @ 300MCM 200–250 lb in 400 @ 500MCM 200–250 lb in	<b>Connectors with Slotted Screw</b> Wire size: #14 @ #10 20–25 lb in #8 25–30 lb in #6 35–40 lb in #4 @ 1/0 40–50 lb in



# 600Y/347V Meter Centre

Selection: Meter stack

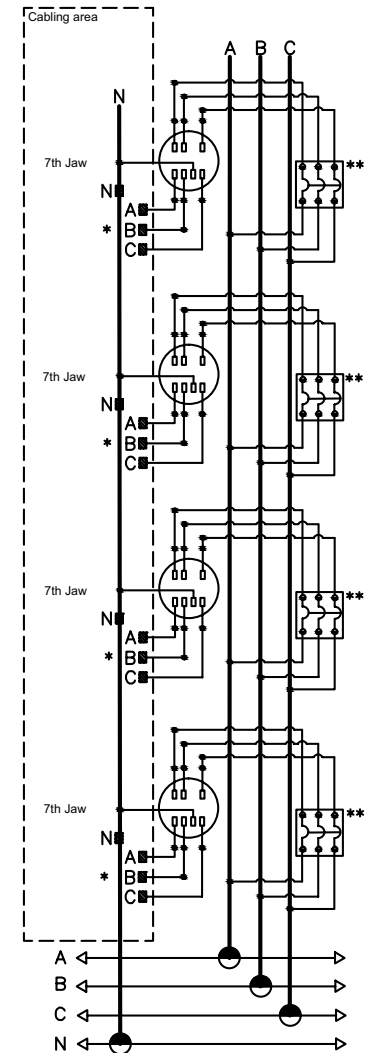


MMC37-42006



MMC37-42006HQ

## Wiring Diagram

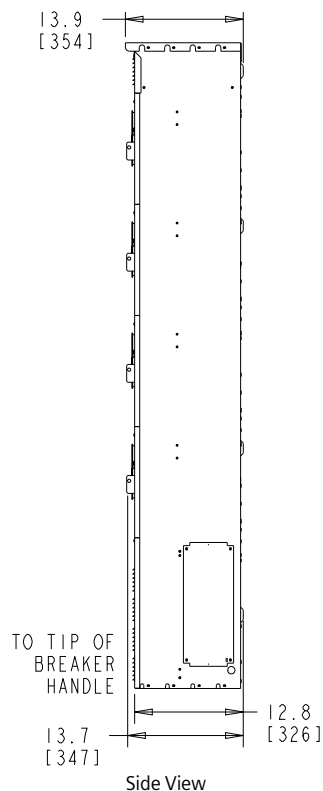


## Dimensions

Front View

Diagram showing the front view of the 6001/347V Meter Stack with dimensions in inches [mm]:

- Overall height: 76.3 [1937]
- Top section height: 13.1 [333]
- Section height: 65.0 [1650]
- Section height: 3.3 [1734]
- Section height: 13.1 TYP. [333]
- Section height: 25.6 [650]
- Section height: 22.3 [566]
- Section height: 13.1 [333]
- Section height: 50.3 [1279]
- Section height: 24.1 [612]
- Overall width: 20.4 [519]



Back View

Dimensions (mm) [Tolerance (mm)]:

- Overall Width: 11.7 [298]
- Overall Height: 72.9 [1853]
- Top Flange Width: 12.3 [313]
- Top Flange Thickness: 4.1 [103]
- Distance from Top Flange to First Hole Row: 4.9 [124]
- Distance from First Hole Row to Second Hole Row: 54.6 [1388]
- Distance from Second Hole Row to Third Hole Row: 28.4 [721]
- Distance from Third Hole Row to Bottom Flange: 8.7 [221]
- Bottom Flange Thickness: 4.3 [109]

Hole Locations (mm):

- Top Flange: Two holes, 4.1 mm from top edge, 12.3 mm apart.
- Second Hole Row: Two holes, 4.9 mm from top edge, 11.7 mm apart.
- Third Hole Row: Two holes, 28.4 mm from second hole row, 11.7 mm apart.
- Bottom Flange: Two holes, 8.7 mm from third hole row, 11.7 mm apart.

FRONT

Section can be easily removed to allow contractor to drill entry hole outside the equipment.

4.5  
[113]

7.2  
[182]

13.1  
[334]

1.2 TYP.  
[30]

18.1  
[461]



# 600Y/347V Meter Centre

## Accessories

### Main Bus Link Connector Kits

- Main Bus Link Connector Kits are required for each additional stack when joining two or more meter stacks.
- The first stack installation does not require bus links when installed with a tap box (standard or Feed through).

Main service voltage	Amperage Rating (Amp)	Catalogue number	Description	Weight in lbs (kg)
600Y/347V 3Ø4W	600	MBSS3-6006	Stack to stack connector kit 600A	2 (0.9)
	1200	MBSS3-12006	Stack to stack connector kit 1200A	4 (1.8)

### Inside Elbow Modules

- Allow the continuation from stack to stack around wall corners.

Main service voltage	Amperage Rating (Amp)	Catalogue number	Overall dimensions in inches (mm)			Weight in lbs (kg)
			H	W	D	
600Y/347V 3Ø4W	600	MEL3-IN-6006	17½ (406)	20½ (521)	13½ (343)	65 (29.5)
	1200	MEL3-IN-12006	17½ (406)	20½ (521)	13½ (343)	75 (34.0)

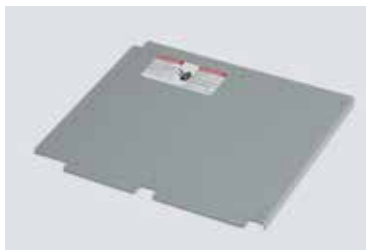
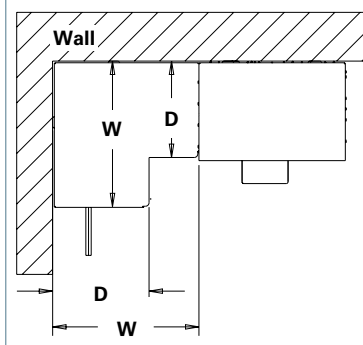
## Accessories

Catalogue number	Description
SFLK-2006	Branch sub-feed lug kit, 200A max for 600Y/347V (includes 4 lugs)
MSSR	1 x meter sealing ring
MUJP-7	3 x jumper bars 7 jaws 200A
MBP2006	1 x blank meter plate covering meter socket and breaker provision

## Replacement Parts

Catalogue number	Description	Content
MC7-200WS	Repl Front cover wiring section	1 replacement plate and mounting hardware
MC7-200FD6	Repl Front cover breaker section	
MC7-2006TC	Repl Top cover plate	
MC7-2006BC	Repl Bottom cover plate	
MC7-2006AP	Repl Access plate	
MC7-200600	Repl Front meter socket cover	12 carriage bolt screws, washers & nuts 4 regular screws & washers
MC7-200WSHQ	Cover wiring with hinged door MC 600V	
SCR-6006	Repl screws Stack to stack conn kit 600A	
SCR-12006	Repl screws Stack to stack conn kit 1200A	6 Allen key type screws & washers 2 long screws for breaker support
SCRFXD6	Repl breaker mounting screws	

Elbow module diagram



MBP2006



MBSS3-6006

# 600Y/347V Meter Centre

## Layout example – Reference only

System: 1200A, 600Y/347V 3Ph 4W, 42kA

Dimension of each stack:

Height: 76¼" (1937mm)

Width: 20⅝" (524mm)

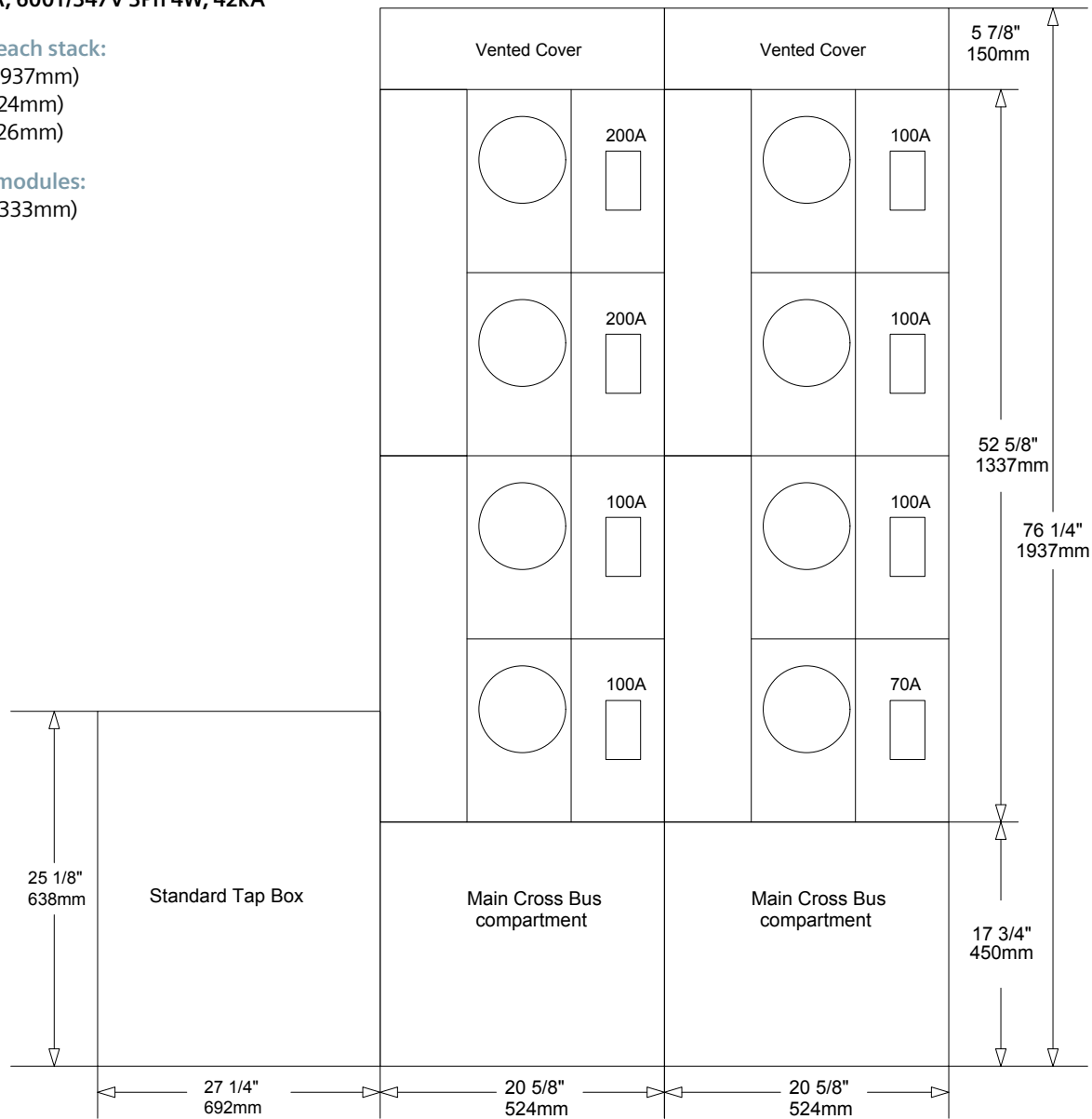
Depth: 12⅞" (326mm)

Height of the modules:

Module: 13⅞" (333mm)

Overall Width:

1740mm



# Notes

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