



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP – 0078

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Siemens Industry, Inc.

Manufacturer's Technical Representative: Michael White

Mailing Address: 501 Fountain Parkway, Grand Prairie, TX 75050

Telephone: (817) 652-6460

Email: michaelwhite@siemens.com

Product Information

Product Name: Siemens Panelboards

Product Type: Metalclad Panelboards

Product Model Number: P1, P2, P3, P4, P5, C1, C2 wall mounted panelboards (see attached)

(List all unique product identification numbers and/or part numbers)

General Description: Wall mounted panelboards that divides electrical power to feed to branch circuits

Mounting Description: Rigid wall mounted

Applicant Information

Applicant Company Name: W.E. Gundy & Associates, Inc.


Contact Person: Travis Soppe, SE

Mailing Address: 1199 Shoreline Dr, Suite 310, Boise, ID 83702

Telephone: (208) 342-5989 Ext. 115

Email: tsoppe@wegai.com

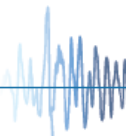
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: 

Date: 11/08/2019

Title: President

Company Name: W.E. Gundy & Associates, Inc.





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: W.E. Gundy & Associates, Inc.

Name: Travis Soppe, SE California License Number: S6115

Mailing Address: 1199 Shoreline Dr, Suite 310, Boise, ID 83702

Telephone: (208) 342-5898 Ext. 115 Email: tsoppe@wegai.com

Supports and Attachments Preapproval

- Supports and attachments are preapproved under OPM- _____
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

Certification Method

- Testing in accordance with: ICC-ES AC156
- Other (Please Specify): _____

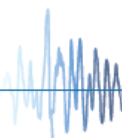
Testing Laboratory

Company Name: Environmental Testing Laboratory / Wyle Laboratories

Contact Name: Jeremy Lange / Greg Mason

Mailing Address: 11034 Indian Trail, Dallas, TX 75229-3513 / 7800 Highway 20 West, Huntsville, AL 35806

Telephone: (972) 247-9657 / (256) 837-4411 Email: Jeremy@etldallas.com / Greg.Mason@wyle.com





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Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = 1.35 (z/h = 1); 1.13 (z/h = 0)

S_{DS} (Design spectral response acceleration at short period, g) = 1.80 (z/h = 1); 2.50 (z/h = 0)

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1 and 0

Equipment or Component Natural Frequencies (Hz) = See Attachments

Overall dimensions and weight (or range thereof) = See Attachments

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____


Tank(s) designed in accordance with ASME BPVC, 2015: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Certified Product Matrix, UUT Summary Sheets, Subcomponent Certification Letter

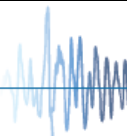
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025

Signature:  Date: May 26, 2020

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable): _____



SIEMENS PANELBOARDS CERTIFIED PRODUCT LINE MATRIX



ID Number	Panel Type	Main Breaker Amperage	NEMA Rating	Enclosure Width (in.)	Enclosure Depth (in.)	Enclosure Height (in.)	Total WT (lbs)	Representative UUT
C1-100 to C1-250	column	100-250A	1	7.6"	5.75"	48" - 85"	100-125	Interpolated
C2-100 to C2-250	column	100-250A	1	8.5"	5.75"	48" - 85"	100-125	Interpolated
C2-250	column	250A	1	8.5"	5.75"	85"	123	UUT _y -18
P1-100 to P1-400	lighting	100-400A	1 / 4 / 4x / 3R / 12	20"	5.75" - 7.75"	26" - 74"	80-250	Interpolated
P1-250	lighting	250A	4x	20"	5.75"	38"	93	UUT _y -16
P1-250	lighting	250A	1	20"	5.75"	44"	132	UUT _x -12
P2-100 to P2-600	lighting	125-600A	1 / 4 / 4x / 3R / 12	20"	5.75" - 7.75"	26" - 74"	80-250	Interpolated
P2-600	lighting	600A	1	20"	7.75"	71"	213	UUT _x -13
P3-250 to P3-600	lighting	250-600A	1 / 4 / 4x / 3R / 12	24"	7.75" - 9.5"	56" - 80"	80-340	Interpolated
P3-250	lighting	250A	3R	24"	7.75"	80"	277	UUT _y -17
P3-600	lighting	600A	1	24"	7.75"	68"	340	UUT _x -15
P4-400 to P4-1200	distribution	400-1200A	1 / 4 / 4x / 3R / 12	32"	10"	60" - 90"	480-720	Interpolated
P4-1000	distribution	1000A	4x	32"	10"	90"	528	UUT _y -19
P5-1200	distribution	1200A	3R	38"	14.25"	90"	760	UUT _y -20
P5-400-P5-1200	distribution	400-1200A	1 / 4 / 4x / 3R / 12	38"	12.75" - 14.25"	60" - 90"	600-900	Interpolated
P5-1200	distribution	1200A	1	38"	12.75"	90"	900	UUT _x -14 ²

General Notes:

¹ Subscripts _x and _y indicate the test report in which the units were qualified: x -46143-2, y-15314

² Denotes the controlling UUT for the product family seismic rating (lowest tested SDS)

SIEMENS PANELBOARDS CERTIFIED SUBCOMPONENT MATRICES



Subcomponent ID	Manufacturer	Description	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Representative UUT	
Table 1: Molded Case Breakers - Sentron								
FD6, FXD6	Siemens	70-250A	2/3P	4.5"	4.0"	9.5"	10	UUT _x -12 / 13 / 14 / 15
FD6, FXD6	Siemens		2/3P	4.5"	4.0"	9.5"	10	UUT _y -16 / 18 / 19
HFD6, HFXD6	Siemens		2/3P, HIC	4.5"	4.0"	9.5"	10	Interpolated
HHFD6, HHFXD6	Siemens		2/3P, EHIC	4.5"	4.0"	9.5"	10	Interpolated
CFD6	Siemens		2/3P, Highest IC & CL	4.5"	4.0"	14.25"	16	UUT _y -19
SCFD6	Siemens		2/3P, ETU, Highest IC & CL	4.5"	4.0"	14.25"	16	Interpolated
JXD2	Siemens		250-400A	2/3P	7.5"	4.0"	11.0"	19.5
JD6, JXD2	Siemens	2/3P		7.5"	4.0"	11.0"	19.5	UUT _x -14 / UUT _y -19
HJ66, HJXD6, HHJD6	Siemens	2/3P, HIC, HHIC		7.5"	4.0"	11.0"	19.5	Interpolated
HHJXD6	Siemens	2/3P, HHIC		7.5"	4.0"	11.0"	19.5	Interpolated
SJD6, SHJD6	Siemens	2/3P, ETU		7.5"	4.0"	11.0"	19.5	Interpolated
CJD6	Siemens	2/3P, Highest IC & CL		7.5"	4.0"	17.0"	31.5	Interpolated
SCJD6	Siemens	2/3P, ETU, Highest IC & CL		7.5"	4.0"	17.0"	31.5	Interpolated
LD6, LXD6	Siemens	250-600A	2/3P,	7.5"	4.0"	11.0"	19.5	UUT _x -13 / 14 / 15
HLD6, HLXD6	Siemens		2/3P, HIC	7.5"	4.0"	11.0"	19.5	Interpolated
HHL6, HHLXD6	Siemens		2/3P, HHIC	7.5"	4.0"	11.0"	19.5	Interpolated
SLD6, SHLD6	Siemens		2/3P, ETU	7.5"	4.0"	11.0"	19.5	Interpolated
CLD6	Siemens		2/3P, Highest IC & CL	7.5"	4.0"	17.86"	31.5	Interpolated
SCLD6	Siemens		2/3P, ETU, Highest IC & CL	7.5"	4.0"	17.86"	31.5	Interpolated

General Notes:

¹ Subscripts _x and _y indicate the test report in which the units were qualified: _x - 46143-2, _y - 15314

² All Sentron breakers can be installed with either thermal mag (no prefix) or electronic trip unit (S prefix)

SIEMENS PANELBOARDS CERTIFIED SUBCOMPONENT MATRICES



Subcomponent ID	Manufacturer	Description	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Representative UUT	
Table 1: Molded Case Breakers - Sentron								
MD6, MXD6	Siemens	500-800A	2/3P	9.0"	6.0"	16.0"	61.5	UUT _x -14
HMD6, HMXD6	Siemens		2/3P, HIC	9.0"	6.0"	16.0"	61.5	Interpolated
SMD6, SHMD6	Siemens		2/3P, ETU & HIC	9.0"	6.0"	16.0"	61.5	UUT _y -20
CMD6	Siemens		2/3P, Highest IC & CL	9.0"	6.0"	16.0"	61.5	Interpolated
SCMD6	Siemens		2/3P, ETU, Highest IC & CL	9.0"	6.0"	16.0"	61.5	Interpolated
LMD6, LMXD6	Siemens		2/3P,	7.5"	4.5"	16.0"	61.5	Interpolated
HLMD6, HLMX6D	Siemens		2/3P, HIC	7.5"	4.5"	16.0"	61.5	Interpolated
ND6, NXD6	Siemens	800-1200A	2/3P,	9.0"	6.0"	16.0"	61.5	UUT _x -14
HND6, HNXD6	Siemens		2/3P, HIC	9.0"	6.0"	16.0"	61.5	Interpolated
SND6, SHND6	Siemens		2/3P, ETU & HIC	9.0"	6.0"	16.0"	61.5	Interpolated
CND6	Siemens		2/3P, Highest IC & CL	9.0"	6.0"	16.0"	61.5	Interpolated
SCND6	Siemens		2/3P, ETU, Highest IC & CL	9.0"	6.0"	16.0"	61.5	UUT _y -20
Table 2: Molded Case Breakers - 3VA								
3VA51	Siemens	125-250A	3/4P, TM, ETU	3.0"	3.68"	5.51"	4.7	Interpolated
3VA52	Siemens		3/4P, TM, ETU	4.13"	4.21"	7.28"	5.2	UUT _y -17 / 19
3VA62	Siemens	150-400A	3/4P, TM, ETU	4.13"	4.21"	7.80"	10.5	UUT _y -19
3VA63	Siemens		3/4P, TM, ETU	5.43"	5.4"	9.75"	10.5	Interpolated
3VA64	Siemens	600A	3/4P, TM, ETU	5.43"	5.4"	9.75"	10.5	Interpolated

General Notes:

¹ Subscripts _x and _y indicate the test report in which the units were qualified: _x - 46143-2, _y - 15314

² All Sentron breakers can be installed with either thermal mag (no prefix) or electronic trip unit (S prefix)

SIEMENS PANELBOARDS CERTIFIED SUBCOMPONENT MATRICES



Subcomponent ID	Manufacturer	Description	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Representative UUT	
Table 3: Molded Case Breakers - VL								
FG6	Siemens	70-250A	2/3P	4.5"	4.0"	9.5"	10	Interpolated
HFG6	Siemens		2/3P, HIC	4.5"	4.0"	9.5"	10	UUT _y -18
HHFG6	Siemens		2/3P, EHIC	4.5"	4.0"	9.5"	10	Interpolated
NJGA	Siemens	250-400A	2/3P	4.2"	4.5"	11.0"	12.6	Interpolated
HJGA	Siemens		2/3P, HIC	4.2"	4.5"	11.0"	12.6	Interpolated
LJGA	Siemens		2/3P, HHIC	4.2"	4.5"	11.0"	12.6	Interpolated
NLGB	Siemens	250-600A	2/3P,	4.2"	5.5"	11.0"	20.9	Interpolated
HLGB	Siemens		2/3P, HIC	4.2"	5.5"	11.0"	20.9	Interpolated
LLGB	Siemens		2/3P, HHIC	4.2"	5.5"	11.0"	20.9	Interpolated
NMG	Siemens	500-800A	2/3P,	4.7"	7.5"	16.0"	35.3	Interpolated
HMG	Siemens		2/3P, HIC	4.7"	7.5"	16.0"	35.3	Interpolated
LMG	Siemens		2/3P, HHIC	4.7"	7.5"	16.0"	35.3	UUT _y -19
Table 4: Molded Case Breakers - 3VL								
3VL400	Siemens	250-600A	3P, TM, ETU, LCD ETU	5.5"	5.5"	11.0"	20.5	UUT _y -19
3VL800	Siemens	600-800A	3P, TM, ETU, LCD ETU	7.5"	6.0"	16.0"	35.0	Interpolated
3VL1200	Siemens	800-1200A	3P, TM, ETU, LCD ETU	9.0"	8.0"	16.0"	55.0	UUT _y -20
Table 5: Lighting Contactors								
LEN00XXX	Siemens	30-200A		4.2"	3.9"	7.4"	9.0	UUT _y -17

General Notes:

¹ Subscripts _x and _y indicate the test report in which the units were qualified: _x - 46143-2, _y - 15314

SIEMENS PANELBOARDS CERTIFIED SUBCOMONENT MATRICES



Subcomponent ID	Manufacturer	Description	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Representative UUT
Table 6: Surge Protection Device							
TPS3AL115XXXX	Siemens	120/240V, 1 Ph 3 W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated
TPS3BL215XXXX	Siemens	120/240V, 3 Ph, 4W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated
TPS3CL115XXXX	Siemens	120/208V, 3 Ph, 4W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	UUT _y -16
TPS3	Siemens	240V, 3Ph, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated
TPS3	Siemens	277/480V, 3 Ph, 4W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated
TPS3	Siemens	480V, 3Ph, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated
TPS3	Siemens	380/220V, 3 Ph, 4W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated
TPS3	Siemens	400/230V, 3 Ph, 4W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated
TPS3F2005XXXX	Siemens	600V, 3 Ph, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	UUT _y -19

General Notes:

¹ Subscripts _x and _y indicate the test report in which the units were qualified: _x - 46143-2, _y - 15314

UUT_x-12

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Wall mounted with 4 - 1/2" diameter grade 5 bolts.



Manufacturer: Siemens Industry, Inc.	Test Location: Wyle Laboratories
Product Line: Panelboards	Test Date: April 1997
Identification Number: P1-250	Report Number: 46143-2
UUT Function: Lighting panelboard that divides electrical power feed to branch circuits.	
UUT Description: The unit is comprised of a NEMA 1 carbon steel P1 enclosure with internally mounted components.	
UUT Component Description: NEMA 1 carbon steel P1 enclosure with Sentron modeled case breakers: (1) FXD63B250, (1) QJ23B225, (8) B3100, (6) BQD3100.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
132	20.0"	5.75"	44"	NA	NA	NA

SEISMIC TEST PARAMETERS - Run #7

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019 / ICC-ES-AC156	1.80	1	1.5	2.88g	2.16g	-	-
CBC 2019 / ICC-ES-AC156	2.50	0	1.5	-	-	1.67g	0.67g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x-14.

Mounting Details: Wall mounted with 4 - 1/2" diameter grade 5 bolts.



Manufacturer: Siemens Industry, Inc.	Test Location: Wyle Laboratories
Product Line: Panelboards	Test Date: April 1997
Identification Number: P2-600	Report Number: 46143-2
UUT Function: Lighting panelboard that divides electrical power feed to branch circuits.	
UUT Description: The unit is comprised of a NEMA 1 carbon steel P2 enclosure with internally mounted components.	
UUT Component Description: NEMA 1 carbon steel P2 enclosure with Sentron modeled case breakers: (1) LXD63B600, (1) FXD63B250, (1) QJ23B, (6) BQD3100.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
213	20.0"	7.75"	71"	NA	NA	NA

SEISMIC TEST PARAMETERS - Run #7

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019 / ICC-ES-AC156	1.80	1	1.5	2.88g	2.16g	-	-
CBC 2019 / ICC-ES-AC156	2.50	0	1.5	-	-	1.67g	0.67g

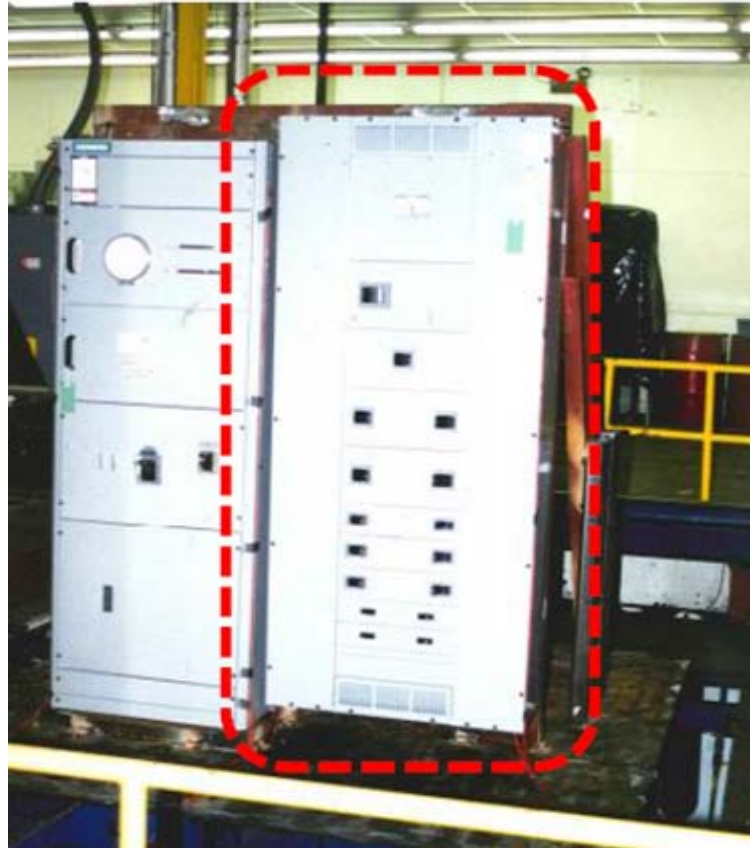
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x-14.

UUT_x-14

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Wall mounted with 4 - 1/2" diameter grade 5 bolts.



Manufacturer: Siemens Industry, Inc.	Test Location: Wyle Laboratories
Product Line: Panelboards	Test Date: April 1997
Identification Number: P5-1200	Report Number: 46143-2
UUT Function: Distribution panelboard that divides electrical power feed to branch circuits.	
UUT Description: The unit is comprised of a NEMA 1 carbon steel P5 enclosure with internally mounted components.	
UUT Component Description: NEMA 1 carbon steel P4 enclosure with Sentron modeled case breakers: (1) NXD63B120, (1) MXD63B800, (2) LXD63B600, (2) JXD63B400, (2) FXD63B250 (2) ED43B125, (4) B3100.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
900	38.0"	12.75"	90.0"	NA	NA	NA

SEISMIC TEST PARAMETERS - Run #5

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019 / ICC-ES-AC156	1.80	1	1.5	2.88g	2.16g	-	-
CBC 2019 / ICC-ES-AC156	2.50	0	1.5	-	-	1.67g	0.67g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. This is the controlling UUT for the Panelboard product line.

UUT_x-15

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Wall mounted with 4 - 1/2" diameter grade 5 bolts.



Manufacturer: Siemens Industry, Inc.	Test Location: Wyle Laboratories
Product Line: Panelboards	Test Date: April 1997
Identification Number: P3-600	Report Number: 46143-2
UUT Function: Lighting panelboard that divides electrical power feed to branch circuits.	
UUT Description: The unit is comprised of a NEMA 1 carbon steel P3 enclosure with internally mounted components.	
UUT Component Description: NEMA 1 carbon steel P3 enclosure with Sentron modeled case breakers: (1) LXD63B600, (1) FXD63D250, (1) ED43B125, (10) ED43B125, (4) B3100.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
340	24.0"	7.75"	68.0"	NA	NA	NA

SEISMIC TEST PARAMETERS - Run #7

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019 / ICC-ES-AC156	1.80	1	1.5	2.88g	2.16g	-	-
CBC 2019 / ICC-ES-AC156	2.50	0	1.5	-	-	1.67g	0.67g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x-14.

UUT_y-16

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Wall mounted with 4 - 3/8" diameter grade 5 bolts.



Manufacturer: Siemens Industry, Inc.	Test Location: Environmental Testing Laboratory
Product Line: Panelboards	Test Date: July 2019
Identification Number: P1-250	Report Number: 15314 Rev. 0
UUT Function: Lighting panelboard that divides electrical power feed to branch circuits.	
UUT Description: The unit is comprised of a NEMA 4x stainless steel P3 enclosure with internally mounted components.	
UUT Component Description: NEMA 4x carbon stainless steel P1 enclosure, FD6 Breaker, BQD breaker, (7) B320 breakers, (6) B115 breakers, and surge protection device (TPS3CL).	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
93	20.0"	5.75"	38.0"	NA	NA	NA

SEISMIC TEST PARAMETERS - Run #5

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x-14.

Mounting Details: Wall mounted with 4 - 3/8" diameter grade 5 bolts.



Manufacturer: Siemens Industry, Inc.	Test Location: Environmental Testing Laboratory
Product Line: Panelboards	Test Date: July 2019
Identification Number: P3-250	Report Number: 15314 Rev. 0
UUT Function: Lighting panelboard that divides electrical power feed to branch circuits.	
UUT Description: The unit is comprised of a NEMA 3R carbon steel P3 enclosure with internally mounted components.	
UUT Component Description: NEMA 3R carbon steel P3 enclosure, lighting contactors (LEN00), Astro Time Clock, 3VA52 breaker, (6) Q350 reakers, and (4) QR breaker.	

UUT PROPERTIES						
Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
277	24.0"	7.75"	80.0"	NA	NA	NA

SEISMIC TEST PARAMETERS - Run #2							
Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x-14.

Mounting Details: Wall mounted with 4 - 3/8" diameter grade 5 bolts.



Manufacturer: Siemens Industry, Inc.	Test Location: Environmental Testing Laboratory
Product Line: Panelboards	Test Date: July 2019
Identification Number: C2-250	Report Number: 15314 Rev. 0
UUT Function: Column panelboard that divides electrical power feed to branch circuits.	
UUT Description: The unit is comprised of a NEMA 1 carbon steel C2 enclosure with internally mounted components.	
UUT Component Description: NEMA1 carbon steel C2 enclosure with VL (HFG6) modeled case breakers, and (10) BQD breakers,.	

UUT PROPERTIES						
Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
123	8.5"	5.75"	85.0"	NA	NA	NA

SEISMIC TEST PARAMETERS - Run #5							
Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x-14.

UUT_y-19

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Wall mounted with 4 - 3/8" diameter grade 5 bolts.



Manufacturer: Siemens Industry, Inc.	Test Location: Environmental Testing Laboratory
Product Line: Panelboards	Test Date: July 2019
Identification Number: P4-1000	Report Number: 15314 Rev. 0
UUT Function: Distribution panelboard that divides electrical power feed to branch circuits.	
UUT Description: The unit is comprised of a NEMA 4x stainless steel P4 enclosure with internally mounted components.	
UUT Component Description: NEMA 4x carbon stainless steel P4 enclosure with sentron TPS3F SPD, (FXD6, JDX6, CFD6), VL (LMG), 3VA (3VA52, 3VA62), and 3VL (3VL400) molded case breakers.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
528	32.0"	10.0"	90"	NA	NA	NA

SEISMIC TEST PARAMETERS - Run #3

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. The UUT required modifications (thru bolt interior panel to enclosure backwall) to pass the test and modifications shall be incorporated in the production units. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x-14.

Mounting Details: Wall mounted with 4 - 3/8" diameter grade 5 bolts.



Manufacturer: Siemens Industry, Inc.	Test Location: Environmental Testing Laboratory
Product Line: Panelboards	Test Date: July 2019
Identification Number: P5-1200	Report Number: 15314 Rev. 0
UUT Function: Distribution panelboard that divides electrical power feed to branch circuits.	
UUT Description: The unit is comprised of a NEMA 3R carbon steel P5 enclosure with internally mounted components.	
UUT Component Description: NEMA 3R carbon steel P5 enclosure with sentron, VL (SMD6, SCND6), 3VL (3VL1200) molded case breakers and surge protection device (TPS3F2005).	

UUT PROPERTIES						
Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
760	38.0"	14.25"	90.0"	NA	NA	NA

SEISMIC TEST PARAMETERS - Run #2							
Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x-14.