



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0095 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Schneider Electric Inc.

Manufacturer's Technical Representative: Ruslan Drofyak, Engineer

Mailing Address: 4050 Fairview Industrial Dr SE #100, Salem, OR 97302 USA

Telephone: (503) 566-4063 Email: rusdrofyak@schneider-electric.com

Product Information

Product Name: AccuSine+ Power Correction System

Product Type: Power Correction System

Product Model Number: See Certified Product Listing Tables attached

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

General Description: The AccuSine+ Power Correction System (PCS) is an Active Harmonic Filter (AHF) which actively injects opposite harmonic current on the source side of the load. Seismic enhancements made to the test units and modifications required to address the anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Rigid wall mounted and rigid wall/floor mounted.

Applicant Information

Applicant Company Name: Schneider Electric Inc.

Contact Person: Ruslan Drofyak, Engineer

Mailing Address: 4050 Fairview Industrial Dr SE #100, Salem, OR 97302 USA

Telephone: (503) 566-4063 Email: rusdrofyak@schneider-electric.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: Ruslan Drofyak Date: January 7, 2016

Title: Certification Engineer Company Name: Schneider Electric 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: Forell/Elsesser Engineers, Inc.

Name: Marco Scanu, SE California License Number: S4454

Mailing Address: 160 Pine St., 6th Flr., San Francisco, CA 94111

Telephone: (415) 837-0700 Email: m.scanu@forell.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): _____

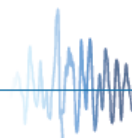
Testing Laboratory

Company Name: Dynamic Certification Laboratories

Contact Name: Kelly Laplace

Mailing Address: 1315 Greg Street, Suite 109 Sparks, Nevada 89431

Telephone: (775) 358-5085 Email: kelly@shaketest.com





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

Seismic Parameters

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

Design Basis of Equipment or Components (F_p/W_p) = See Certified Product Listing Tables

S_{DS} (Design spectral response acceleration at short period, g) = See Certified Product Listing Tables

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) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = $z/h = 1$ & $z/h = 0$

Equipment or Component Natural Frequencies (Hz) = See attachment, UUT Summary Sheets

Overall dimensions and weight (or range thereof) = See attachment, Certified Product Listing Tables

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 Products Listing Tables, Certified Major Subcomponents Listing Tables, UUT Summary Sheets

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature:  Date: 2/24/16

Print Name: M. R. Karim Title: SHFR

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

Condition of Approval (if applicable): _____

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



Certified Product Listing AccuSine+ Power Correction System

Manufacturer: Schneider Electric Inc.

Product Category: Power Correction System

Product Line Models: AccuSine+

Product Options: AccuSine+ Power Correction Systems in NEMA Type 1 Enclosures with Ampacity ratings from 60A to 300A and Voltage rating from 208A to 480A. Components consist of circuit breakers, transformers, contactors and filters (see Certified Major Sub-Components table).

Product Mounting: Rigid Wall Mount

AccuSine Power Correction System												
Voltage Rating (V)	Ampacity Rating (A)	Commercial Reference ¹	Width (in.)	Depth (in.)	Height (in.)	Weight (lbs)	NEMA Enclosure Type ²	Test Status	Certification Level ³			
									z/h = 0		z/h = 1	
									S _{DS}	F _P /W _P	S _{DS}	F _P /W _P
208 – 480	60A	PCSP060D5N1	17	15	60.5	233	1	DCL No. 94002-1501, UUT-1	3.06	1.38	2.84	2.13
		EVCP060D5N1, PCSP060D5IP20, EVCP060D5IP20, PCSP060D2N1, EVCP060D2N1, PCSP060D2IP20, EVCP060D2IP20	17	15	60.5	233	1	Interpolated	3.06	1.38	2.84	2.13
	120A	PCSP120D5N1, EVCP120D5N1, PCSP120D5IP20, EVCP120D5IP20, PCSP120D2N1, EVCP120D2N1, PCSP120D2IP20, EVCP120D2IP20	17	15.5	64.5	255	1	Interpolated	3.06	1.38	2.84	2.13
	200A	PCSP200D5N1, EVCP200D5N1, PCSP200D5IP20, EVCP200D5IP20, PCSP200D2N1, EVCP200D2N1, PCSP200D2IP20, EVCP200D2IP20	23	17.5	63	382	1	Interpolated	3.06	1.38	2.84	2.13

Notes:

- See attached nomenclature sheet for reference.
- Enclosure types are constructed of galvanized carbon steel sheet with powder-coated finished front cover.
- Certification level is limited to the lower rating of either the Certified Product Listing, as listed here, or the internal sub-components, as listed on the Certified Major Sub-Components table



Certified Product Listing

AccuSine+ Power Correction System

Manufacturer: Schneider Electric Inc.

Product Category: Power Correction System

Product Line Models: AccuSine+

Product Options: AccuSine+ Power Correction Systems in NEMA Type 1 Enclosures with Ampacity ratings from 60A to 300A and Voltage rating from 208A to 480A. Components consist of circuit breakers, transformers, contactors and filters (see Certified Major Sub-Components table).

Product Mounting: Rigid Wall Mount

AccuSine Power Correction System												
Voltage Rating (V)	Ampacity Rating (A)	Commercial Reference ¹	Width (in.)	Depth (in.)	Height (in.)	Weight (lbs)	NEMA Enclosure Type ²	Test Status	Certification Level ³			
									z/h = 0		z/h = 1	
									S _{DS}	F _p /W _p	S _{DS}	F _p /W _p
208-480	300A	EVCP300D5N1, PCSP300D5IP20, EVCP300D5IP20, PCSP300D2N1, EVCP300D2N1, PCSP300D2IP20, EVCP300D2IP20	23	18	72.5	556	1	Interpolated	3.06	1.38	2.84	2.13
		PCSP300D5N1	23	18	72.5	504	1	DCL No. 94002-1501, UUT-2	3.06	1.38	2.84	2.13
Notes: 1. See attached nomenclature sheet for reference. 2. Enclosure types are constructed of galvanized carbon steel sheet with powder-coated finished front cover. 3. Certification level is limited to the lower rating of either the Certified Product Listing, as listed here, or the internal components, as listed on the Certified Major Sub-Components table												



Certified Product Listing

AccuSine+ Power Correction System

Manufacturer: Schneider Electric Inc.

Product Category: Power Correction System

Product Line Models: AccuSine+

Product Options: AccuSine+ Power Correction Systems in NEMA Type 1, 2 and 12 Enclosures with Ampacity ratings from 40A to 300A and Voltage from 208V to 690V. Components consist of circuit breakers, transformers, contactors and filters (see Certified Major Sub-Components table).

Product Mounting: Rigid Floor Mount with Wall Restraint

AccuSine Power Correction System												
Voltage Rating (V)	Ampacity Rating (A)	Commercial Reference ¹	Width (in.)	Depth (in.)	Height (in.)	Weight (lbs)	NEMA Enclosure Type ²	Test Status	Certification Level ³			
									z/h = 0		z/h = 1	
									S _{DS}	F _p /W _p	S _{DS}	F _p /W _p
208 – 480	60A	PCSP060D5N2, EVCP060D5N2, PCSP060D5IP31, EVCP060D5IP31, PCSP060D5N12, EVCP060D5N12, PCSP060D5IP54, EVCP060D5IP54	31.5	20	82.5	616	2,12	Extrapolated	3.18	1.43	2.75	2.06
		PCSP060D2N2, EVCP060D2N2, PCSP060D2IP31, EVCP060D2IP31, PCSP060D2N12, EVCP060D2N12, PCSP060D2IP54, EVCP060D2IP54	31.5	22	82.5	616	2,12	Extrapolated	3.18	1.43	2.75	2.06
	120A	PCSP120D5N2, EVCP120D5N2, PCSP120D5IP31, EVCP120D5IP31, PCSP120D5N12, EVCP120D5N12, PCSP120D5IP54, EVCP120D5IP54	31.5	20	82.5	650	2,12	Extrapolated	3.18	1.43	2.75	2.06
Notes: 1. See attached nomenclature sheet for reference. 2. Enclosure types are constructed of galvanized carbon steel sheet with powder-coated finished front cover. 3. Certification level is limited to the lower rating of either the Certified Product Listing, as listed here, or the internal components, as listed on the Certified Major Sub-Components table												



Certified Product Listing

AccuSine+ Power Correction System

Manufacturer: Schneider Electric Inc.

Product Category: Power Correction System

Product Line Models: AccuSine+

Product Options: AccuSine+ Power Correction Systems in NEMA Type 1, 2 and 12 Enclosures with Ampacity ratings from 40A to 300A and Voltage from 208V to 690V. Components consist of circuit breakers, transformers, contactors and filters (see Certified Major Sub-Components table).

Product Mounting: Rigid Floor Mount with Wall Restraint

AccuSine Power Correction System												
Voltage Rating (V)	Ampacity Rating (A)	Commercial Reference ¹	Width (in.)	Depth (in.)	Height (in.)	Weight (lbs)	NEMA Enclosure Type ²	Test Status	Certification Level ³			
									z/h = 0		z/h = 1	
									S _{DS}	F _p /W _p	S _{DS}	F _p /W _p
208 – 480	120A	PCSP120D2N2, EVCP120D2N2, PCSP120D2IP31, EVCP120D2IP31, PCSP120D2N12, EVCP120D2N12, PCSP120D2IP54, EVCP120D2IP54	31.5	22	82.5	650	2,12	Extrapolated	3.18	1.43	2.75	2.06
	200A	PCSP200D5N1, EVCP200D5N1, PCSP200D5IP10, EVCP200D5IP10	24	20	82.5	830	1	Extrapolated	3.18	1.43	2.75	2.06
		PCSP200D2N1, EVCP200D2N1, PCSP200D2IP10, EVCP200D2IP10	31.5	22	82.5	830	1	Extrapolated	3.18	1.43	2.75	2.06
		PCSP200D5N2, EVCP200D5N2, PCSP200D5IP31, EVCP200D5IP31, PCSP200D5N12, EVCP200D5N12, PCSP200D5IP54, EVCP200D5IP54	35.5	24	82.5	882	2	Extrapolated	3.18	1.43	2.75	2.06

Notes:

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Certified Product Listing

AccuSine+ Power Correction System

Manufacturer: Schneider Electric Inc.

Product Category: Power Correction System

Product Line Models: AccuSine+

Product Options: AccuSine+ Power Correction Systems in NEMA Type 1, 2 and 12 Enclosures with Ampacity ratings from 40A to 300A and Voltage from 208V to 690V. Components consist of circuit breakers, transformers, contactors and filters (see Certified Major Sub-Components table).

Product Mounting: Rigid Floor Mount with Wall Restraint

AccuSine Power Correction System												
Voltage Rating (V)	Ampacity Rating (A)	Commercial Reference ¹	Width (in.)	Depth (in.)	Height (in.)	Weight (lbs)	NEMA Enclosure Type ²	Test Status	Certification Level ³			
									z/h = 0		z/h = 1	
									S _{DS}	F _p /W _p	S _{DS}	F _p /W _p
208 – 480	200A	PCSP200D2N2, EVCP200D2N2, PCSP200D2IP31, EVCP200D2IP31, PCSP200D2N12, EVCP200D2N12, PCSP200D2IP54, EVCP200D2IP54,	35.5	26	82.5	882	2	Extrapolated	3.18	1.43	2.75	2.06
	300A	PCSP300D5N1, EVCP300D5N1, PCSP300D5IP10, EVCP300D5IP10	24	20	82.5	915	1	Extrapolated	3.18	1.43	2.75	2.06
		PCSP300D2N1, EVCP300D2N1, PCSP300D2IP10, EVCP300D2IP10	31.5	22	82.5	915	1	Extrapolated	3.18	1.43	2.75	2.06
		PCSP300D5N2, EVCP300D5N2, PCSP300D5IP31, EVCP300D5IP31, PCSP300D5N12, EVCP300D5N12, PCSP300D5IP54, EVCP300D5IP54	35.5	24	82.5	962	2,12	Extrapolated	3.18	1.43	2.75	2.06

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Product Options: AccuSine+ Power Correction Systems in NEMA Type 1, 2 and 12 Enclosures with Ampacity ratings from 40A to 300A and Voltage from 208V to 690V. Components consist of circuit breakers, transformers, contactors and filters (see Certified Major Sub-Components table).

Product Mounting: Rigid Floor Mount with Wall Restraint

AccuSine Power Correction System												
Voltage Rating (V)	Ampacity Rating (A)	Commercial Reference ¹	Width (in.)	Depth (in.)	Height (in.)	Weight (lbs)	NEMA Enclosure Type ²	Test Status	Certification Level ³			
									z/h = 0		z/h = 1	
									S _{DS}	F _p /W _p	S _{DS}	F _p /W _p
208 – 480	300A	PCSP300D2N2, EVCP300D2N2, PCSP300D2IP31, EVCP300D2IP31, PCSP300D2N12, EVCP300D2N12, PCSP300D2IP54, EVCP300D2IP54	35.5	26	82.5	962	2,12	Extrapolated	3.18	1.43	2.75	2.06
600-690	47A	PCSP047D6N12	51.5	20	82.5	940	12	DCL No. 94002-1501, UUT-3	3.18	1.43	2.75	2.06
		PCSP047D6N2, EVCP047D6N2, PCSP047D6IP31, EVCP047D6IP31, EVCP047D6N12, PCSP047D6IP54, EVCP047D6IP54	51.5	20	82.5	1015	2,12	Interpolated	3.18	1.43	2.75	2.06
	40A	PCSP040D7N2, EVCP040D7N2, PCSP040D7IP31, EVCP040D7IP31, PCSP040D7N12, EVCP040D7N12, PCSP040D7IP54, EVCP040D7IP54	51.5	20	82.5	1080	2,12	Interpolated	3.18	1.43	2.75	2.06

Notes:

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Certified Product Listing

AccuSine+ Power Correction System

Manufacturer: Schneider Electric Inc.

Product Category: Power Correction System

Product Line Models: AccuSine+

Product Options: AccuSine+ Power Correction Systems in NEMA Type 1, 2 and 12 Enclosures with Ampacity ratings from 40A to 300A and Voltage from 208V to 690V. Components consist of circuit breakers, transformers, contactors and filters (see Certified Major Sub-Components table).

Product Mounting: Rigid Floor Mount with Wall Restraint

AccuSine Power Correction System												
Voltage Rating (V)	Ampacity Rating (A)	Commercial Reference ¹	Width (in.)	Depth (in.)	Height (in.)	Weight (lbs)	NEMA Enclosure Type ²	Test Status	Certification Level ³			
									z/h = 0		z/h = 1	
									S _{DS}	F _p /W _p	S _{DS}	F _p /W _p
600-690	94A	PCSP094D6N2, EVCP094D6N2, PCSP094D6IP31, EVCP094D6IP31, PCSP094D6N12, EVCP094D6N12, PCSP094D6IP54, EVCP094D6IP54	51.5	20	82.5	1098	2,12	Interpolated	3.18	1.43	2.75	2.06
	80A	PCSP080D7N2, EVCP080D7N2, PCSP080D7IP31, EVCP080D7IP31, PCSP080D7N12, EVCP080D7N12, PCSP080D7IP54, EVCP080D7IP54	51.5	20	82.5	1175	2,12	Interpolated	3.18	1.43	2.75	2.06
	157A	PCSP157D6N2, EVCP157D6N2, PCSP157D6IP31, EVCP157D6IP31, PCSP157D6N12, EVCP157D6N12, PCSP157D6IP54, EVCP157D6IP54	55	24	82.5	1440	2,12	Interpolated	3.18	1.43	2.75	2.06

Notes:

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Certified Product Listing

AccuSine+ Power Correction System

Manufacturer: Schneider Electric Inc.

Product Category: Power Correction System

Product Line Models: AccuSine+

Product Options: AccuSine+ Power Correction Systems in NEMA Type 1, 2 and 12 Enclosures with Ampacity ratings from 40A to 300A and Voltage from 208V to 690V. Components consist of circuit breakers, transformers, contactors and filters (see Certified Major Sub-Components table).

Product Mounting: Rigid Floor Mount with Wall Restraint

AccuSine Power Correction System												
Voltage Rating (V)	Ampacity Rating (A)	Commercial Reference ¹	Width (in.)	Depth (in.)	Height (in.)	Weight (lbs)	NEMA Enclosure Type ²	Test Status	Certification Level ³			
									z/h = 0		z/h = 1	
									S _{DS}	F _p /W _p	S _{DS}	F _p /W _p
600-690	133A	PCSP133D7N2, EVCP133D7N2, PCSP133D7IP31, EVCP133D7IP31, PCSP133D7N12, EVCP133D7N12, PCSP133D7IP54, EVCP133D7IP54	55	24	82.5	1561	2,12	Interpolated	3.18	1.43	2.75	2.06
	235A	PCSP235D6N2, EVCP235D6N2, PCSP235D6IP31, EVCP235D6IP31, PCSP235D6N12, EVCP235D6N12, PCSP235D6IP54, EVCP235D6IP54	55	24	82.5	1670	2,12	Interpolated	3.18	1.43	2.75	2.06
	200A	PCSP200D7N2, EVCP200D7N2, PCSP200D7IP31, EVCP200D7IP31, EVCP200D7N12, PCSP200D7IP54, EVCP200D7IP54	55	24	82.5	1821	2,12	Interpolated	3.18	1.43	2.75	2.06
		PCSP200D7N12	56	26	82.5	1810	12	DCL No. 94002-1501, UUT-4	3.18	1.43	2.75	2.06

Notes:

- See attached nomenclature sheet for reference.
- Enclosure types are constructed of galvanized carbon steel sheet with powder-coated finished front cover.
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AccuSine PCS+ and AccuSine PFV+ MODEL NUMBER NOMENCLATURE:

Example

PCSP	xxx	D5	YY
I	II	III	IV

I. Basic Model Series

xxxx = any 4 letters representing the brand designator
PCPS = PCSP is a harmonic reduction device with available
Power factor correction capability
EVCP = Power factor correction device only, Harmonic
reduction is disabled in FW.
Difference is with software only.

II. Maximum Current Rating, A rms

Ampere Rating	Construction
40 = 40 Amps	Enclosed rated 690 V (with autotransformer)
80 = 80 Amps	Enclosed rated 690 V (with autotransformer)
133 = 133 Amps	Enclosed rated 690 V (with autotransformer)
200 = 200 Amps	Enclosed rated 690 V (with autotransformer)
47 = 47 Amps	Enclosed rated 600 V (with autotransformer)
94 = 94 Amps	Enclosed rated 600 V (with autotransformer)
157 = 157 Amps	Enclosed rated 600 V (with autotransformer)
235 = 235 Amps	Enclosed rated 600 V (with autotransformer)
60 = 60 Amps	Open/Enclosed rated 480 V
120 = 120 Amps	Open/Enclosed rated 480 V
200 = 200 Amps	Open/Enclosed rated 480 V
300 = 300 Amps	Open/Enclosed rated 480 V

III. D = delta input

2 = 240VAC max input
5 = 480VAC max input
6 = 600VAC max input (includes autotransformer)
7 = 690VAC max input (includes autotransformer)

IV. Enclosure

IP00 = open type, all chassis wall mounted
N1 or IP20 = UL Type 1, all wall mounted
N1 or IP10 = UL Type 1, 200-300A floor standing units only
N2 or IP31 = UL Type 2, all floor standing units
N12 or IP54 = UL Type 12, all floor standing units

IP enclosure designation is for European and Asian Markets



AccuSine+ Power Correction System Certified Major Sub-Components Listing

IP20 Enclosure Extensions (terminal kit)								
Option Type	Manufacturer	Description / Identifier	Notes	Test Status ²	Certification Level ²			
					z/h = 0		z/h = 1	
					S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
Bottom Extension	Schneider Electric	PCSPWMKIT60A	1	DCL No. 94002-1501, UUT-1	3.06	1.38	2.84	2.13
	Schneider Electric	PCSPWMKIT120A	1	Interpolated	3.06	1.38	2.84	2.13
	Schneider Electric	PCSPWMKIT300A	1	DCL No. 94002-1501, UUT-2	3.06	1.38	2.84	2.13
Notes: 1. Enclosure extensions are constructed of carbon steel sheet, with powder-coated finish grill. 2. Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.								

Circuit Breakers										
Rated Voltage (V)	Interrupting Current (kA)	Rated Current (A)	Manufacturer	Part No. / Identifier	Notes	Test Status ¹	Certification Level ²			
							z/h = 0		z/h = 1	
							S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
600	200	150	Schneider Electric	HRL36150U31X		DCL No. 94002-1501, UUT-3	3.18	1.43	2.75	2.06
800	100	100	Schneider Electric	NSX100HB2		Interpolated	3.18	1.43	2.75	2.06
600	200	400	Schneider Electric	LRF36400U31X		Interpolated	3.18	1.43	2.75	2.06
800	100	400	Schneider Electric	NSX400HB2		DCL No. 94002-1501, UUT-4	3.18	1.43	2.75	2.06
Notes: 1. The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units. 2. Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.										



AccuSine+ Power Correction System Certified Major Sub-Components Listing

Contactor									
Rated Voltage (VAC)	Class	Rated Current (A)	Manufacturer	Part No. / Identifier	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
600	Class T	160	Schneider Electric	LC1D115	DCL No. 94002-1501, UUT-1&3	3.18	1.43	2.84	2.13
600	Class T	200	Schneider Electric	LC1D115004	DCL No. 94002-1501, UUT-2&4	3.18	1.43	2.84	2.13

Notes:

- The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.
- Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.

Filter									
Rated Voltage (V)	Temp (deg C)	Rated Current (A)	Manufacturer	Part No. / Identifier	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
600	120	60	Schneider Electric	60A Filter	DCL No. 94002-1501, UUT-1&3	3.18	1.43	2.84	2.13
600	120	120	Schneider Electric	120A Filter	Interpolated	3.18	1.43	2.84	2.13
600	120	200	Schneider Electric	200A Filter	Interpolated	3.18	1.43	2.84	2.13
600	120	300	Schneider Electric	300A Filter	DCL No. 94002-1501, UUT-2&4	3.18	1.43	2.84	2.13

Notes:

- The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.
- Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.



AccuSine+ Power Correction System Certified Major Sub-Components Listing

Pre Charge Resistor									
Rated Voltage (VAC)	Resistance (Ω)	Power (W)	Manufacturer	Part No. / Identifier	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
600	10	220	Ohmite	10Ω, 220W	DCL No. 94002-1501, UUT-1&3	3.18	1.43	2.84	2.13
600	5	300	Ohmite	5Ω, 300W	DCL No. 94002-1501, UUT-2&4	3.18	1.43	2.84	2.13

Notes:

- The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.
- Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.

DC Bus									
Rated Voltage (V)	Capacitance (uF)	Temp (deg C)	Manufacturer	Part No. / Identifier	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
450	2700	85	United/Nippon	E82F451VNT272MCA5T	DCL No. 94002-1501, UUT-1&3	3.18	1.43	2.84	2.13
450	10000	85	Cornell Dublier	500CE1447	DCL No. 94002-1501, UUT-2&4	3.18	1.43	2.84	2.13

Notes:

- The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.
- Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.



AccuSine+ Power Correction System Certified Major Sub-Components Listing

Inductor									
Inductance (uH)	Rated Voltage (V)	Manufacturer	Part No. / Identifier	Class R (deg C)	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
200	480	Tamura	61116	220	DCL No. 94002-1501, UUT-1&3	3.18	1.43	2.84	2.13
100	480	Tamura	61117	220	Interpolated	3.18	1.43	2.84	2.13
60	480	Tamura	61115	220	Interpolated	3.18	1.43	2.84	2.13
40	480	Tamura	61114	220	DCL No. 94002-1501, UUT-2&4	3.18	1.43	2.84	2.13

Notes:

- The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.
- Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.

IGBT									
Rated Current (A)	Rated Voltage (V)	Manufacturer	Part No. / Identifier	Class T (deg C)	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
100	1200	FUJI ELECTRIC	12MBI100VX-120-85	80	DCL No. 94002-1501, UUT-1&3	3.18	1.43	2.84	2.13
300	1200	FUJI ELECTRIC	4MBI300VG-120R-85	80	Interpolated	3.18	1.43	2.84	2.13
450	1200	FUJI ELECTRIC	4MBI450VB-120R1-85	80	Interpolated	3.18	1.43	2.84	2.13
650	1200	FUJI ELECTRIC	4MBI650VB-120R1-85	80	DCL No. 94002-1501, UUT-2&4	3.18	1.43	2.84	2.13

Notes:

- The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.
- Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.



AccuSine+ Power Correction System Certified Major Sub-Components Listing

MOV									
Rated Voltage (VAC)	Current Surge (kA)	Temp (deg C)	Manufacturer	Part No. / Identifier	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
620	20	85	Littelfuse	TMOV25SP385M	DCL No. 94002-1501, UUT-1,2,3,4	3.18	1.43	2.84	2.13
Notes: 1. The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units. 2. Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.									

Impeller									
Voltage (V)	Current (A)	Manufacturer	Part No. / Identifier	Temperature (deg C)	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
480	.25	ROSENBERG	2RREut25	75	DCL No. 94002-1501, UUT-1 & 3	3.18	1.43	2.84	2.13
240	.25	ROSENBERG	2RREu25	75	Interpolated	3.18	1.43	2.84	2.13
480	.5	ROSENBERG	2RREut15	75	Interpolated	3.18	1.43	2.84	2.13
240	.5	ROSENBERG	2RREu15	75	Interpolated	3.18	1.43	2.84	2.13
480	2	ROSENBERG	DD 80-55-2	75	DCL No. 94002-1501, UUT-2 & 4	3.18	1.43	2.84	2.13
Notes: 1. The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units. 2. Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.									



AccuSine+ Power Correction System Certified Major Sub-Components Listing

Step Down Transformer									
Primary Voltage (V)	Secondary Voltage (V)	Manufacturer	Part No. / Identifier	Rated Current (A)	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
600	470	Tamura	60410	47	DCL No. 94002-1501, UUT-3	3.18	1.43	2.75	2.06
600	470	Tamura	60412	94	Interpolated	3.18	1.43	2.75	2.06
600	470	Tamura	60414	157	Interpolated	3.18	1.43	2.75	2.06
600	470	Tamura	60416	235	Interpolated	3.18	1.43	2.75	2.06
690	460	Tamura	60411	40	Interpolated	3.18	1.43	2.75	2.06
690	460	Tamura	60413	80	Interpolated	3.18	1.43	2.75	2.06
690	460	Tamura	60415	133	Interpolated	3.18	1.43	2.75	2.06
690	460	Tamura	60417	200	DCL No. 94002-1501, UUT-4	3.18	1.43	2.75	2.06

Notes:

- The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.
- Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.

Power Board									
Rated Voltage (V)	Current (A)	Temp (deg C)	Manufacturer	Part No. / Identifier	Test Status	Certification Level ¹			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
480	2	85	Schneider Electric	60-200 Power	DCL No. 94002-1501, UUT-1&3	3.18	1.43	2.84	2.13
480	3	85	Schneider Electric	300 Power	DCL No. 94002-1501, UUT-2&4	3.18	1.43	2.84	2.13

Notes:

- Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.



AccuSine+ Power Correction System Certified Major Sub-Components Listing

Gate Drive Board									
Voltage (V)	Current (A)	Manufacturer	Part No. / Identifier	Temp (deg C)	Test Status ¹	Certification Level ²			
						z/h = 0		z/h = 1	
						S _{DS} (g)	F _p /W _p	S _{DS} (g)	F _p /W _p
480	.25	Schneider Electric	60 Gate Drive	75	DCL No. 94002-1501, UUT-1 & 3	3.18	1.43	2.84	2.13
480	.25	Schneider Electric	120 Gate drive	75	Interpolated	3.18	1.43	2.84	2.13
480	.25	Schneider Electric	200/300 Gate Drive	75	DCL No. 94002-1501, UUT-2 & 4	3.18	1.43	2.84	2.13
Notes: 1. The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated items have the same manufacturer and materials and have similar configuration and construction as the tested units. 2. Certification level is limited to the lower rating of either the Certified Major Sub-Components Listing, as listed here, or the product section, as listed on the Certified Product Listing table.									

UUT Summary

AccuSine+ Power Correction System

UUT Product Information			
Manufacturer	Product Category	Product Line Model	Model Number
Schneider Electric Inc.	Power Correction System	AccuSine Plus	PCSP060D5N1

UUT Test Report Association				
Test Lab	Report No.	Report Date	Test Run No.	UUT Designation
Dynamic Certification Laboratories	DCL No. 94002-1501	11/30/2015	1	UUT-1

UUT Notes / Description
<ol style="list-style-type: none"> The UUT is a wall mounted power correction system (system ratings here if applicable) with Terminal kit packaged in a NEMA Type 1 enclosure. The NEMA Type 1 enclosure is constructed of galvanized carbon steel sheet with powder-coated finished front cover. UUT full of contents.

UUT Properties (As Tested)								
Weight (lbs.)	Dimensions (in.)			Lowest Natural Frequency (Hz)			Shake-Table Attachment	
	Height	Width	Depth	F-B	S-S	V	Type	Anchorage
233	60	17	15	N/A	N/A	N/A	Rigid wall mounted	(7) 3/8" diameter Grade 5 bolts at 40 ft-lbs torque.

UUT Seismic Test Parameters									
Building Codes	Test Criteria	$S_{DS}(g)$	z/h	I_p	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$	
CBC 2016	ICC-ES AC156	3.06	0	1.5	3.06	1.22	2.05	0.83	
		2.84	1	1.5	4.54	3.41	1.90	0.77	

UUT Seismic Test Results
✓ The UUT maintained structural integrity and functionality as confirmed in post test inspection and active operation validation checks



UUT Major Components		
Description	Manufacturer	Part No. / Identifier
Enclosure – NEMA Type 1, Carbon Steel Sheet	Schneider Electric	60H x 17W x 15D
Bottom Extension	Schneider Electric	PCSPWMKIT60A
Contactors	Schneider Electric	LC1D115, 600 Vac
Filter	Schneider Electric	60A filter board
Precharge resistor	Ohmite	10Ω, 220W
Inductor	Tamura	61116, 200 uH, 60A
IGBT	Fuji	12MBI100VX-120-85
DC BUS	United/Nippon Chemi-con	E82F451VNT272MCA5T
Impeller	ROSENBERG	2RREut25
Power board	Schneider Electric	60-200A Power Board
MOV	Littelfuse	TMOV25SP385M
Gate drive board	Schneider Electric	60A gate drive board

UUT Summary

AccuSine+ Power Correction System

UUT Product Information			
Manufacturer	Product Category	Product Line Model	Model Number
Schneider Electric Inc.	Power Correction System	AccuSine Plus	PCSP300D5N1

UUT Test Report Association				
Test Lab	Report No.	Report Date	Test Run No.	UUT Designation
Dynamic Certification Laboratories	DCL No. 94002-1501	11/30/2015	1	UUT-2

UUT Notes / Description
1. The UUT is a wall mounted power correction system (system ratings here if applicable) with Terminal kit packaged in a NEMA Type 1 enclosure. 2. The NEMA Type 1 enclosure is constructed of galvanized carbon steel sheet with powder-coated finished front cover. 3. UUT full of contents.

UUT Properties (As Tested)								
Weight (lbs.)	Dimensions (in.)			Lowest Natural Frequency (Hz)			Shake-Table Attachment	
	Height	Width	Depth	F-B	S-S	V	Type	Anchorage
504	72	23	18	N/A	N/A	N/A	Rigid wall mounted	(8) 3/8" diameter Grade 5 bolts at 40 ft-lbs torque.

UUT Seismic Test Parameters									
Building Codes	Test Criteria	$S_{Ds} (g)$	z/h	I_p	$A_{FLX-H} (g)$	$A_{RIG-H} (g)$	$A_{FLX-V} (g)$	$A_{RIG-V} (g)$	
CBC 2016	ICC-ES AC156	3.06	0	1.5	3.06	1.22	2.05	0.83	
		2.84	1	1.5	4.54	3.41	1.90	0.77	

UUT Seismic Test Results
✓ The UUT maintained structural integrity and functionality as confirmed in post test inspection and active operation validation checks



UUT Major Components		
Description	Manufacturer	Part No. / Identifier
Enclosure – NEMA Type 1, Carbon Steel Sheet	Schneider Electric	72H x 23W x 18D
Bottom Extension	Schneider Electric	PCSPWMKIT300A
Contactors	Schneider Electric	LC1D115004, 600 Vac,
Filter	Schneider Electric	300A filter board
Precharge resistor	Ohmite	5Ω, 300W
Inductor	Tamura	61114, 40 uH, 300A
IGBT	Fuji	4MBI650VB-120R1-85
DC BUS	CORNELL DUBILIER ELECTRONICS	500CE1447
Impeller	ROSENBERG	DD 80-55-2
Power board	Schneider Electric	300A Power Board
MOV	Littelfuse	TMOV25SP385M
Gate drive board	Schneider Electric	300A gate drive board

UUT Summary

AccuSine Power Correction System

UUT Product Information			
Manufacturer	Product Category	Product Line Model	Model Number
Schneider Electric Inc.	Power Correction System	AccuSine Plus	PCSP047D6N12

UUT Test Report Association				
Test Lab	Report No.	Report Date	Test Run No.	UUT Designation
Dynamic Certification Laboratories	DCL No. 94002-1501	11/30/2015	1	UUT-3

UUT Notes / Description
<ol style="list-style-type: none"> The UUT is a wall/floor mounted power correction system (system ratings here if applicable) with Terminal kit packaged in a NEMA Type 1 enclosure. The NEMA Type 12 enclosure is constructed of galvanized carbon steel sheet with powder-coated finished front cover. UUT full of contents.

UUT Properties (As Tested)								
Weight (lbs.)	Dimensions (in.)			Lowest Natural Frequency (Hz)			Shake-Table Attachment	
	Height	Width	Depth	F-B	S-S	V	Type	Anchorage
940	82	52	20	10.3	13.5	31.8	Rigid floor mounted w/ wall restraint	Unit base: (8) 1/2" diameter Grade 5 bolts Unit back: (2) brackets at the top of the unit; Brackets attached to unit with (2) M12 bolts and to the fixture with (2) 3/8" diameter Grade 5 bolts at 40 ft-lbs

UUT Seismic Test Parameters									
Building Codes	Test Criteria	$S_{DS}(g)$	z/h	I_p	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$	
CBC 2016	ICC-ES AC156	3.18	0	1.5	3.18	1.27	2.13	0.86	
		2.75	1	1.5	4.40	3.30	1.84	0.74	

UUT Seismic Test Results
✓ The UUT maintained structural integrity and functionality as confirmed in post test inspection and active operation validation checks



UUT Major Components		
Description	Manufacturer	Part No. / Identifier
Enclosure – NEMA Type 12, Carbon Steel Sheet	Schneider Electric	82H x 52W x 20D
CIRCUIT BREAKER	Schneider Electric	HRL36150U31X
Step Down Transformer	Tamura	60410
Contactor	Schneider Electric	LC1D115, 600 Vac
Filter	Schneider Electric	60A filter board
Precharge resistor	Ohmite	10Ω, 220W
Inductor	Tamura	61116, 200 μH, 60A
IGBT	Fuji	12MBI100VX-120-85
DC BUS	United/Nippon Chemi-con	E82F451VNT272MCA5T
Impeller	ROSENBERG	2RREut25
Power board	Schneider Electric	60-200A Power Board
MOV	Littelfuse	TMOV25SP385M
Gate drive board	Schneider Electric	60A gate drive board

UUT Summary

AccuSine Power Correction System

UUT Product Information			
Manufacturer	Product Category	Product Line Model	Model Number
Schneider Electric Inc.	Power Correction System	AccuSine Plus	PCSP200D7N12

UUT Test Report Association				
Test Lab	Report No.	Report Date	Test Run No.	UUT Designation
Dynamic Certification Laboratories	DCL No. 94002-1501	11/30/2015	1	UUT-4

UUT Notes / Description
<ol style="list-style-type: none"> The UUT is a wall/floor mounted power correction system (system ratings here if applicable) with Terminal kit packaged as a NEMA Type 1 enclosure. The NEMA Type 12 enclosure is constructed of galvanized carbon steel sheet with powder-coated finished front cover. UUT full of contents.

UUT Properties (As Tested)								
Weight (lbs.)	Dimensions (in.)			Lowest Natural Frequency (Hz)			Shake-Table Attachment	
	Height	Width	Depth	F-B	S-S	V	Type	Anchorage
1810	82	56	26	10.8	14.3	26.5	Rigid floor mounted w/ wall restraint	(8) 1/2" diameter Grade 5 bolts at 40 ft-lbs torque. (2) brackets at the top of the unit Brackets attached to unit with (2) M12 bolts and to the fixture with (2) 3/8" diameter Grade 5 bolts

UUT Seismic Test Parameters								
Building Codes	Test Criteria	$S_{Ds}(g)$	z/h	I_p	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2016	ICC-ES AC156	3.18	0	1.5	3.18	1.27	2.13	0.86
		2.75	1	1.5	4.40	3.30	1.84	0.74

UUT Seismic Test Results
✓ The UUT maintained structural integrity and functionality as confirmed in post test inspection and active operation validation checks



UUT Major Components		
Description	Manufacturer	Part No. / Identifier
Enclosure – NEMA Type 12, Carbon Steel Sheet	Schneider Electric	82H x 56W x 26D
CIRCUIT BREAKER	Schneider Electric	NSX400HB2
Step Down Transformer	Tamura	60417
Contactor	Schneider Electric	LC1D115004, 600 Vac,
Filter	Schneider Electric	300A filter board
Precharge resistor	Ohmite	5Ω, 300W
Inductor	Tamura	61114, 40 uH, 300A
IGBT	Fuji	4MBI650VB-120R1-85
DC BUS	CORNELL DUBILIER ELECTRONICS	500CE1447
Impeller	ROSENBERG	DD 80-55-2
Power board	Schneider Electric	300A Power Board
MOV	Littelfuse	TMOV25SP385M
Gate drive board	Schneider Electric	300A gate drive board