



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0738

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Schneider Electric

Manufacturer's Technical Representative: Ruslan Drofyak

Mailing Address: 12345 SW Leveton Drive, Tualatin, OR 97062

Telephone: (503) 566-4063

Email: Russ.Drofyak@se.com

Product Information

Product Name: Power Isolation and Correction Systems

Product Type: Power Isolation and Correction Systems

Product Model Number: PowerLogic AccuSine PCSN Active Harmonic Filter

General Description: The PowerLogic AccuSine PCSn series is a scalable and flexible, high-performance active harmonic filtering solution that brings reliability and efficiency to your electrical system, resulting in increased uptime, greater operational efficiency, prolonged equipment life, and improved energy efficiency.

Mounting Description: See Certified Product Tables

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Dynamic Certification Laboratories

Contact Person: Kelly Laplace

Mailing Address: 1315 Greg St #109, Sparks, NV 89431

Telephone: (775) 358-5085

Email: kelly@shaketest.com

Title: Business Manager





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

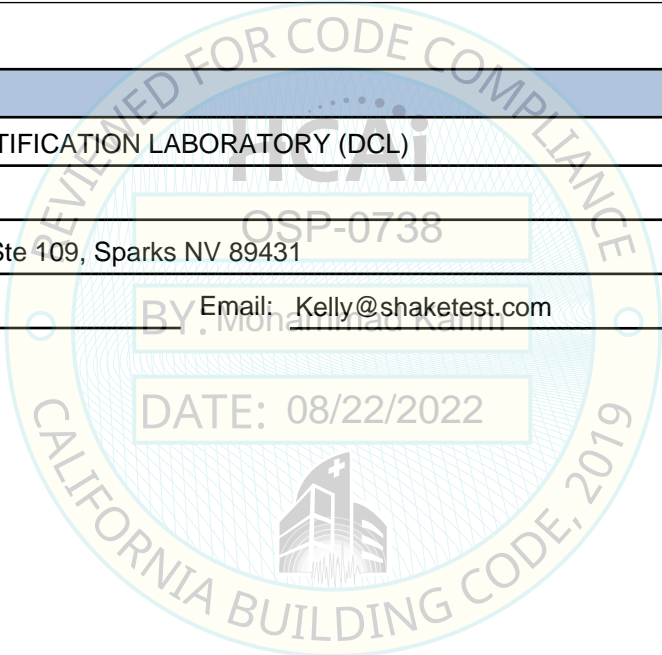
Company Name: THE VMC GROUP
Name: Kenneth Tarlow California License Number: S2851
Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814
Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
 Other (Please Specify): _____

Testing Laboratory

Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)
Contact Person: Kelly Laplace
Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431
Telephone: (775) 358-5085 Email: Kelly@shaketest.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.85

SDS (Design spectral response acceleration at short period, g) = 2.47

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

Natural frequencies (Hz) = N/A

Overall dimensions and weight = See Attachment

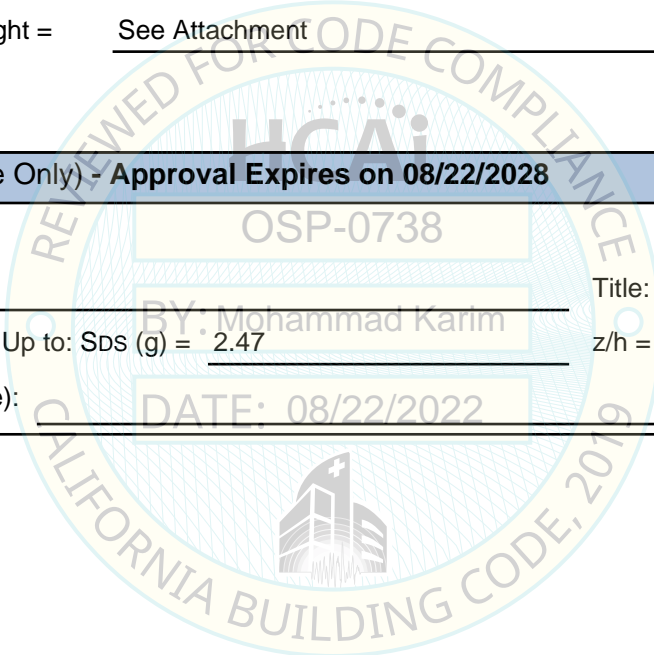
HCAI Approval (For Office Use Only) - Approval Expires on 08/22/2028

Date: 8/22/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.47 z/h = 1

Condition of Approval (if applicable): DATE: 08/22/2022





Certified Component Listing

PowerLogic AccuSine PCSN Active Harmonic Filter



Manufacturer: Schneider Electric Inc.

Product Category: Active Harmonic Filter

Product Options: PowerLogic AccuSine Power Correction Systems in IP00/ IP20/ UL Type 1 Enclosures with Ampacity ratings from 20 to 60A and Voltage rating from 208 to 415VAC. Components consist of fuses, transformers, contactor, and filters. See Certified Sub-Component Listing

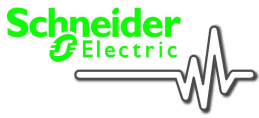
Product Mounting: Rigid Wall Mount

DCL Project: 80091-2101

Table 1: AccuSine Power Correction System – Wall Mount								
Commercial Reference ¹	Enclosure Type ²	Voltage Rating (V)	Ampacity Rating (A)	Width (in.)	Length (in.)	Height (in.)	Mass (lb)	Test Status
PCSN020Y4CH00	IP00/IP20	208 – 415	20 – 60	17.3	10.4	37.8	134	Extrapolated
PCSN020Y4W20	IP00/IP20	208 – 415	20 – 60	17.3	10.4	37.8	134	Extrapolated
PCSN030Y4CH00	IP00/IP20	208 – 415	20 – 60	17.3	10.4	37.8	134	Extrapolated
PCSN030Y4W20	IP00/IP20	208 – 415	20 – 60	17.3	10.4	37.8	134	Extrapolated
PCSN060Y4W20	IP20 ³	208 – 415	20 – 60	17.3	10.4	37.8	151	UUT-01
PCSN050Y4CH00	IP00/IP20	208 – 415	20 – 60	17.3	10.4	37.8	151	Interpolated
PCSN050Y4W20	IP00/IP20	208 – 415	20 – 60	17.3	10.4	37.8	151	Interpolated
PCSN060Y4CH00	IP00/IP20	208 – 415	20 – 60	17.3	10.4	37.8	151	Interpolated
PCSN060Y4CH00E	IP00/IP20	208 – 415	20 – 60	17.3	10.4	37.8	151	Interpolated
PCSN060Y4W20E	IP00/IP20	208 – 415	20 – 60	17.3	10.4	37.8	151	Interpolated
PCSN020Y4N1	Type 1	208 – 415	20 – 60	17.5	10.4	56.7	163	Interpolated
PCSN030Y4N1	Type 1	208 – 415	20 – 60	17.5	10.4	56.7	163	Interpolated
PCSN050Y4N1	Type 1	208 – 415	20 – 60	17.5	11.0	57.0	169	Interpolated
PCSN060Y4N1	Type 1	208 – 415	20 – 60	17.5	11.0	57.0	169	UUT-03

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. IP20 was tested with HMI and grill installed.



Certified Sub-Component Listing
PowerLogic AccuSine PCSN Active Harmonic Filter



Manufacturer: Schneider Electric Inc.
Product Category: Active Harmonic Filter
Product Mounting: Rigid Wall Mount
DCL Project: 80091-2101

Table 2: Enclosure Chassis PCSN

Part No. / Identifier	Manufacturer	Height (in)	Width (in)	Depth (in)	UUT
IP20	Schneider Electric	37.8	17.3	10.4	UUT-01
UL Type 1 ¹	Schneider Electric	57.0	17.5	11.0	UUT-03

1. IP20 + terminal Kit

Table 3: UL1 Enclosure Extensions (Terminal Kit)

Part No. / Identifier	Manufacturer	Description	Height (in)	Width (in)	Depth (in)	UUT
JYT30417 + NNZ68613	Schneider Electric	Inlet Housing + Grille	8.0	17.5	10.5	UUT-03
JYT30418 + NNZ68614	Schneider Electric	Exhaust Housing + Grille	11.7	17.5	10.5	UUT-03

Table 4: Control Board

Part No. / Identifier	Manufacturer	Rated Voltage (V)	Rated Current (A)	Temp (deg C)	UUT
HRB21917	Schneider Electric	5V	20A	75	UUT-01, UUT-03

Table 5: Contactor

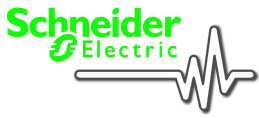
Part No. / Identifier	Manufacturer	Rated Voltage (VAC)	Rated Current (A)	Category	UUT
LC1D40A	Schneider Electric	600	40	AC-1	UUT-01, UUT-03

Table 6: Filter

Part No. / Identifier	Manufacturer	Rated Voltage (V)	Rated Current (A)	Temp (deg C)	UUT
QGH34506	Schneider Electric	480	80	120	UUT-01, UUT-03

Table 7: Precharge Resistor

Part No. / Identifier	Manufacturer	Power (W)	Resistance (ohm)	Tolerance (%)	UUT
MRC12N10RJI	Micron	120	10	5	UUT-01, UUT-03



Certified Sub-Component Listing
PowerLogic AccuSine PCSN Active Harmonic Filter



Manufacturer: Schneider Electric Inc.
Product Category: Active Harmonic Filter
Product Mounting: Rigid Wall Mount
DCL Project: 80091-2101

Table 8: Inductor

Part No. / Identifier	Manufacturer	Inductance (uH)	Rated Current (A)	Class R (deg C)	UUT
QGH41581	Trafor	300UH	60A	180	UUT-01, UUT-03

Table 9: IGBT

Part No. / Identifier	Manufacturer	Rated Voltage (V)	Rated Current (A)	Class T (deg C)	UUT
12MBI100VX-120-XX	Fuji Electric	1200	100	80	UUT-01, UUT-03

Table 10: DC Bus

Part No. / Identifier	Manufacturer	Rated Voltage (V)	Capacitance (uF)	Temp (deg C)	UUT
B43456S9688M004	EPCOS	500	4700	85	UUT-01, UUT-03

Table 11: Impeller

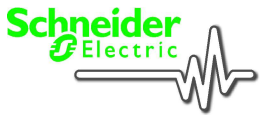
Part No. / Identifier	Manufacturer	Rated Voltage (V)	Rated Current (A)	Temp (deg C)	UUT
PFR1224UHE-CE75	Delta Electronics	24	0.15	75	UUT-01, UUT-03

Table 12: Power Board

Part No. / Identifier	Manufacturer	Rated Voltage (V)	Rated Current (A)	Temp (deg C)	UUT
QGH21173	Schneider Electric	480	2	85	UUT-01, UUT-03

Table 13: MOV

Part No. / Identifier	Manufacturer	Rated Voltage (VAC)	Current Surge (kA)	Temp (deg C)	UUT
TMOV25SP385M	Littelfuse	620	20	85	UUT-01, UUT-03



Certified Sub-Component Listing
PowerLogic AccuSine PCSN Active Harmonic Filter



Manufacturer: Schneider Electric Inc.
Product Category: Active Harmonic Filter
Product Mounting: Rigid Wall Mount
DCL Project: 80091-2101

Table 14: Gate Drive Board

Part No. / Identifier	Manufacturer	Rated Voltage (V)	Rated Current (A)	Temp (deg C)	UUT
QGH52336	Schneider Electric	480V	120A	75	UUT-01, UUT-03

Table 15: LAM Board

Part No. / Identifier	Manufacturer	Rated Voltage (V)	Rated Current (A)	Temp (deg C)	UUT
QGH34509	Schneider Electric	480	100	90	UUT-01, UUT-03

Table 16: Filter AC Capacitor

Part No. / Identifier	Manufacturer	Voltage (Vdc)	Life (hrs)	Temp (deg C)	UUT
C44AHFP5300ZC0J	KEMET	600	30000	85	UUT-01, UUT-03

Table 17: Fuse

Part No. / Identifier	Manufacturer	Rated Voltage (VAC)	Rated Current (A)	Class	UUT
JLLS80	Littelfuse	600	80	Class T	UUT-03

Table 18: Fuse Block

Part No. / Identifier	Manufacturer	Rated Voltage (V)	Rated Current (A)	Temp (deg C)	UUT
AS-K1-K1	NSI	600	175	75	UUT-03

PowerLogic AccuSine PCSN Active Harmonic Filter

DCL Project 80091-2101

UUT Product Information			
Manufacturer	Product Category	Product Line Model	Model Number
Schneider Electric Inc.	Active Harmonic Filter	PowerLogic AccuSine PCSN WM	PCSN060Y4W20

UUT Test Report Association				
Test Lab	Report No.	Report Date	Test Run No.	UUT Designation
Dynamic Certification Laboratories	DCL No. 94003-1801	04/10/2018	1	UUT-01 (Previously UUT 1)

UUT Notes / Description
1. The UUT is a wall mounted Active Harmonic Compensation as a IP00 and IP20 enclosure. [IP00 + bottom grill = IP20]
2. The enclosure is constructed of galvanized carbon steel sheet with powder-coated finished front cover.

UUT Properties (As Tested)								
Weight (lb.)	Dimensions (in.)			Lowest Natural Frequency (Hz)			Unit Attachments	
	Height	Width	Depth	F-B	S-S	V	Type	Anchorage
151.2	37.8	17.3	10.4	N/A	N/A	N/A	Rigid wall mounted	(4) 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 2022	ICC-ES AC156	2.47	1	1.5	3.95	2.96	1.66	0.67	

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



UUT Major Sub-Components		
Description	Manufacturer	Part No. / Identifier
Enclosure Chassis PCSN	Schneider Electric	IP20
Control Board	Schneider Electric	HRB21917
Contactor	Schneider Electric	LC1D40A
Filter	Schneider Electric	QGH34506
Precharge Resistor	Micron	MRC12N10RJ1
Inductor	Trafort	QGH41581
IGBT	Fuji Electric	12MB1100VX-120-xx
DC BUS	EPCOS	B43456S9688M004
Impeller	Delta Electronics	PFR1224UHE-CE75
Power Board	Schneider Electric	QGH21173
MOV	Littelfuse	TMOV25SP385M
Gate Drive Board	Schneider Electric	QGH52336
LAM Board	Schneider Electric	QGH34509
Filter AC Capacitors	KEMET	C44AHP5300ZC0J

DCL Project 80091-2101

UUT Product Information			
Manufacturer	Product Category	Product Line Model	Model Number
Schneider Electric Inc.	Active Harmonic Filter	PowerLogic AccuSine PCSN WM	PCSN060Y4N1

UUT Test Report Association				
Test Lab	Report No.	Report Date	Test Run No.	UUT Designation
Dynamic Certification Laboratories	DCL No. 59282-2101	06/30/2021	1	UUT-03 (Previously UUT 1)

UUT Notes / Description
1. The UUT is a wall mounted Active Harmonic Compensation as a UL Type 1 enclosure. [UL Open + top + bottom boxes = UL1]
2. The enclosure is constructed of galvanized carbon steel sheet with powder-coated finished front cover.

UUT Properties (As Tested)								
Weight (lb.)	Dimensions (in.)			Lowest Natural Frequency (Hz)			Unit Attachments	
	Height	Width	Depth	F-B	S-S	V	Type	Anchorage
169	57.0	17.5	11.0	N/A	N/A	N/A	Rigid wall mounted	(4) 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 2022	ICC-ES AC156	2.47	1	1.5	3.95	2.96	1.66	0.67	

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

UUT Photograph	UUT Major Sub-Components																																																									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Description</th> <th style="width: 30%;">Manufacturer</th> <th style="width: 40%;">Part No. / Identifier</th> </tr> </thead> <tbody> <tr><td>Enclosure Chassis PCSN</td><td>Schneider Electric</td><td>UL Type 1</td></tr> <tr><td>Inlet Housing + Grille</td><td>Schneider Electric</td><td>JYT30417 + NNZ68613</td></tr> <tr><td>Exhaust Housing + Grille</td><td>Schneider Electric</td><td>JYT30418 + NNZ68614</td></tr> <tr><td>Control Board</td><td>Schneider Electric</td><td>HRB21917</td></tr> <tr><td>Contactors</td><td>Schneider Electric</td><td>LC1D40A</td></tr> <tr><td>Filter</td><td>Schneider Electric</td><td>QGH34506</td></tr> <tr><td>Precharge Resistor</td><td>Micron</td><td>MRC12N10RJI</td></tr> <tr><td>Inductor</td><td>Trafor</td><td>QGH41581</td></tr> <tr><td>IGBT</td><td>Fuji Electric</td><td>12MBI100VX-120-xx</td></tr> <tr><td>DC BUS</td><td>EPCOS</td><td>B43456S9688M004</td></tr> <tr><td>Impeller</td><td>Delta Electronics</td><td>PFR1224UHE-CE75</td></tr> <tr><td>Power Board</td><td>Schneider Electric</td><td>QGH21173</td></tr> <tr><td>MOV</td><td>Littelfuse</td><td>TMOV25SP385M</td></tr> <tr><td>Gate Drive Board</td><td>Schneider Electric</td><td>QGH52336</td></tr> <tr><td>LAM Board</td><td>Schneider Electric</td><td>QGH34509</td></tr> <tr><td>Filter AC Capacitors</td><td>KEMET</td><td>C44AHFP5300ZC0J</td></tr> <tr><td>Fuses</td><td>Littelfuse</td><td>JLLS80</td></tr> <tr><td>Fuse Block</td><td>NSI</td><td>AS-K1-K1</td></tr> </tbody> </table>	Description	Manufacturer	Part No. / Identifier	Enclosure Chassis PCSN	Schneider Electric	UL Type 1	Inlet Housing + Grille	Schneider Electric	JYT30417 + NNZ68613	Exhaust Housing + Grille	Schneider Electric	JYT30418 + NNZ68614	Control Board	Schneider Electric	HRB21917	Contactors	Schneider Electric	LC1D40A	Filter	Schneider Electric	QGH34506	Precharge Resistor	Micron	MRC12N10RJI	Inductor	Trafor	QGH41581	IGBT	Fuji Electric	12MBI100VX-120-xx	DC BUS	EPCOS	B43456S9688M004	Impeller	Delta Electronics	PFR1224UHE-CE75	Power Board	Schneider Electric	QGH21173	MOV	Littelfuse	TMOV25SP385M	Gate Drive Board	Schneider Electric	QGH52336	LAM Board	Schneider Electric	QGH34509	Filter AC Capacitors	KEMET	C44AHFP5300ZC0J	Fuses	Littelfuse	JLLS80	Fuse Block	NSI	AS-K1-K1
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