



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0155 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Eaton Corporation

Manufacturer's Technical Representative: Virginia (Ginny) Snyder

Mailing Address: 8609 Six Forks Road, Raleigh, NC 27615

Telephone: (919) 870-3482

Email: VirginiaASnyder@eaton.com

Product Information

Product Name: 9130,9PX, and 9SX Uninterruptible Power Supplies and Accessories

Product Type: Uninterruptible Power Supplies

Product Model Number: See Attachment

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

General Description: Uninterruptible power supplies and accessories per UL 1778 and qualified for use in Emergency systems per UL 924. Power rating from 0.7-3kVA (9130), 5-8kVA (9P), 0.7-3kVA (9S) and voltage range from 120-240VAC.

Mounting Description: Rigid base mounted

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Galen Reid

Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

Telephone: 844-878-0200

Email: greid@structint.com

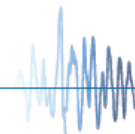
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant:  Date: 5/10/2019

Title: Program Manager Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)



OSHPD

Page 1 of 3



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

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

Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Name: Derrick Watkins California License Number: S5257

Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

Telephone: 844-878-0200 Email: dwatkins@structint.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): OSP-0155-10
- BY: Timothy J Piland
- DATE: 10/22/2019

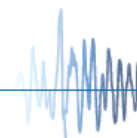
Testing Laboratory

Company Name: UL LLC

Contact Name: Chris Rose, Senior Test Engineer

Mailing Address: 12 Laboratory Drive, RTP, NC 27709

Telephone: 919-549-1713 Email: Christopher.S.Rose@ul.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) = 1.44 ($S_{DS} = 2.00$); 1.44 ($S_{DS} = 3.20$)

S_{DS} (Design spectral response acceleration at short period, g) = 2.00 ($z/h = 1$), 3.20 ($z/h = 0$)

a_p (In-structure equipment or component amplification factor) = 1.0

R_p (Equipment or component response modification factor) = 2.5

Ω_0 (System overstrength factor) = 2

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1 ($S_{DS} = 2.00$), 0 ($S_{DS} = 3.20$)

Equipment or Component Natural Frequencies (Hz) = See Attachment

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

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) = OSP-0155-10

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = BY: Timothy J Piland

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = DATE: 10/22/2019

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): Product Matrices

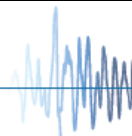
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature: [Signature] Date: 10/24/2019

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): _____



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation						TABLE 1			
Model Line: 9130/9PX/9SX									
Certified Product Construction Summary: Powder coated carbon steel NEMA 1 enclosure.									
Certified Options Summary:									
Mounting Configuration: Base mounted - rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.									
Building Code:		CBC 2016		Seismic Certification Limits:		$S_{DS} = 2.0 g \quad z/h=1.0$ $S_{DS} = 3.2 g \quad z/h=0.0$		$I_p = 1.5$	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT		
		Depth	Width	Height					
9130 North American Tower	PW9130L700T	14.0	6.3	9.9	25.5		1		
	PW9130L1000T-XL	15.0	6.3	9.9	31.8		2		
	PW9130L1500T-XL	17.0	6.3	9.9	39.2		3		
	PW9130L2000T-XL	16.1	8.4	12.8	76.1		Interp.		
	PW9130L3000T-XL	16.1	8.4	12.8	81.0		18		
9130 Global Tower	PW9130G2000T-XL	16.1	8.4	12.8	76.1		Interp.		
	PW9130G2000T-XLEU	16.1	8.4	12.8	76.1		Interp.		
	PW9130G3000T-XL	16.1	8.4	12.8	76.1		Interp.		
	PW9130G3000T-XLEU	16.1	8.4	12.8	76.1		19		
9PX 208/230/240V	9PX3000GLRT	23.8	3.4	17.3	63.5	UUT 27: Standalone	26, 27		
	9PX5K	28.4	5.1	17.3	105.0		Interp.		
	9PX6K	28.4	5.1	17.3	105.0		17		
	9PX8K	32.0	10.2	17.3	193.2		4		
	9PX11K	32.0	10.2	17.3	193.2	Identical to 9PX8K	Extrap.		
9PX Extended Battery Modules	9PXEBM36RT	17.7	3.4	17.3	48.1		Extrap.		
	9PXEBM48RT	17.7	3.4	17.3	59.1		Extrap.		
	9PXEBM72RT	23.8	3.4	17.3	88.6		26		
	9PXEBM180RT	25.4	5.1	17.3	146.0		20		
9SX 120V	9SX700	13.9	6.3	9.9	26.3		21		
	9SX1000	15.1	6.3	9.9	30.9		Interp.		
	9SX1500	17.1	6.3	9.9	41.9		Interp.		
	9SX2000	16.2	8.4	13.6	76.1		22		
	9SX3000	16.2	8.4	13.6	77.2		Interp.		

TRU Compliance, by Structural Integrity Associates, Inc.

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TRU PROJECT NO. 1900087



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UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer: Eaton Corporation						
Model Line: 9130/9PX/9SX						
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _p
1	PW9130L700T-XL	R10964174	UL LLC	2.0 3.2	1.0 0.0	1.5
2	PW9130L1000T-XL	R10964174	UL LLC	2.0 3.2	1.0 0.0	1.5
3	PW9130L1500T-XL	R10964174	UL LLC	2.0 3.2	1.0 0.0	1.5
4	9PX8K Kit	R10964174	UL LLC	2.0 3.2	1.0 0.0	1.5
17	9PX6K	71152R13	Wyle Laboratories	3.2	1.0	1.5
18	PW9130L3000T-XL	71152R13	Wyle Laboratories	3.2	1.0	1.5
19	PW9130G3000T-XLEU	71152R13	Wyle Laboratories	3.2	1.0	1.5
20	9PXEBM180RT	71152R13	Wyle Laboratories	3.2	1.0	1.5
21	9SX700	R12717216 (UUT 1)	UL LLC	2.0 3.2	1.0 0.0	1.5
22	9SX2000	R12717216 (UUT 2)	UL LLC	2.0 3.2	1.0 0.0	1.5
23	9SX1000G	R12717216 (UUT 3)	UL LLC	2.0 3.2	1.0 0.0	1.5
24	9SX1500G	R12717216 (UUT 4)	UL LLC	2.0 3.2	1.0 0.0	1.5
25	9SX3000G w/ Network - M2	R12717216 (UUT 5 and UUT 9)	UL LLC	2.0 3.2	1.0 0.0	1.5
26	9PX3000GLRT & 9PXEBM72RT	R12717216 (UUT 6 and UUT 8)	UL LLC	2.0 3.2	1.0 0.0	1.5
27	9PX3000GLRT w/ Network - M2	R12717216 (UUT 7 and 10)	UL LLC	2.0 3.2	1.0 0.0	1.5
Notes:						

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 1
Model Line:	9130	
Model Number:	PW9130L700T-XL	
Serial Number:		GJ163A0303

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, CSB HR1234WF2 batteries.

UUT Properties								
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)				
	Depth	Width	Height	Front-Back	Side-Side	Vertical		
25.5	14.0	6.3	9.9	>33.3	>33.3	>33.3		
UUT Highest Passed Seismic Run Information								
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



UUT 1

Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

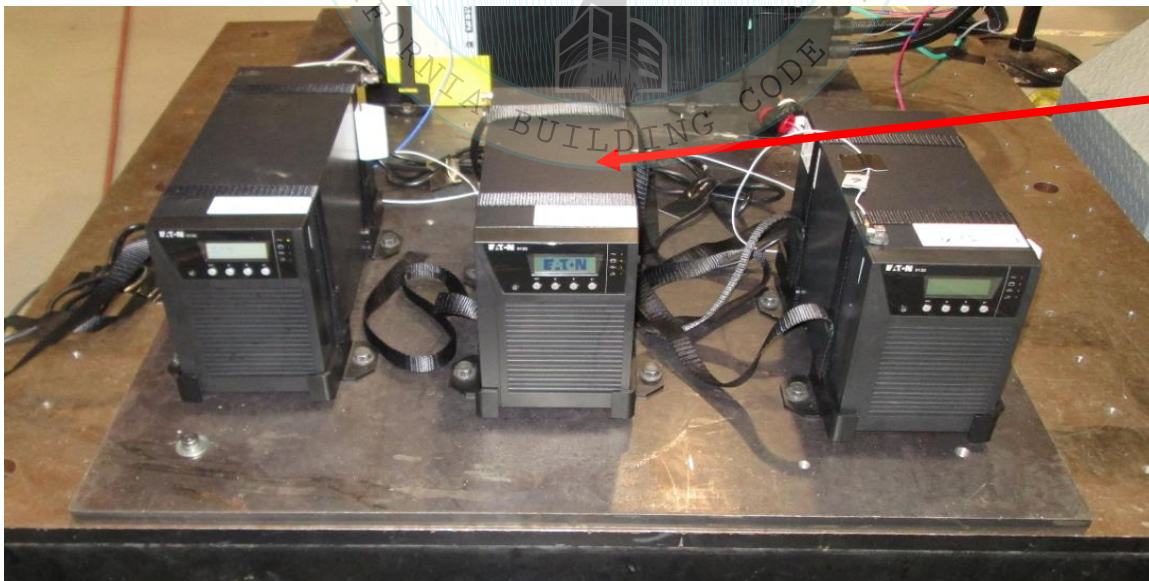
Manufacturer:	Eaton Corporation	UUT 2
Model Line:	9130	
Model Number:	PW9130L1000T-XL	
Serial Number:		GJ195A0077

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, CSB HR1234WF2 batteries.

UUT Properties									
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)					
	Depth	Width	Height	Front-Back	Side-Side	Vertical			
31.8	15.0	6.3	9.9	>33.3	>33.3	>33.3			
UUT Highest Passed Seismic Run Information									
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Test Mounting Details:



UUT 2

Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

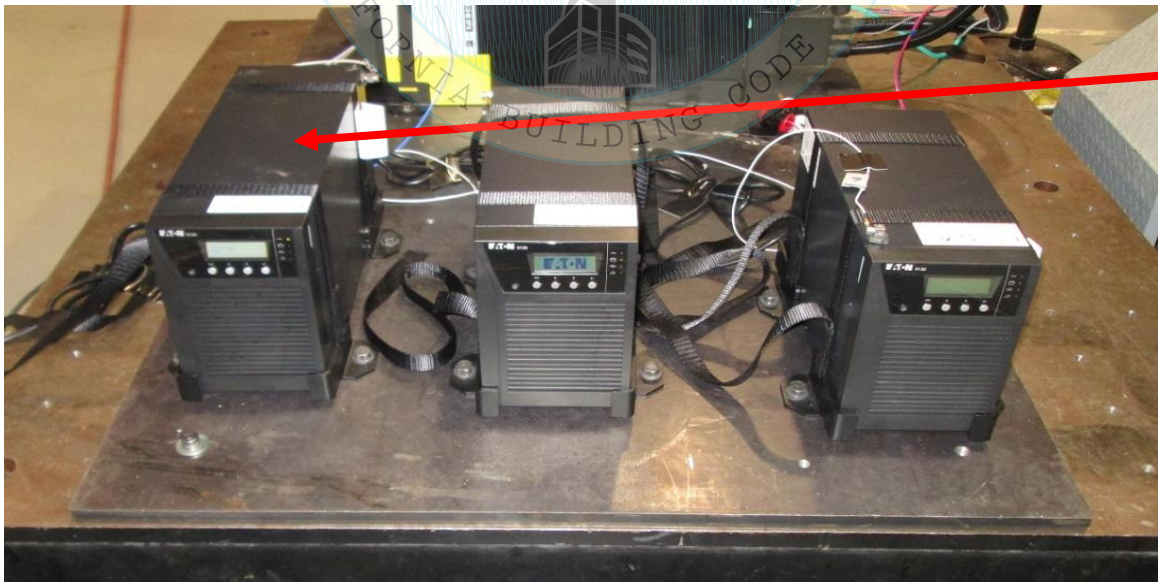
Manufacturer:	Eaton Corporation	UUT 3
Model Line:	9130	
Model Number:	PW9130L1500T-XL	
Serial Number:		GJ142A0171

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, CSB HR1234WF2 batteries.

UUT Properties									
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)					
	Depth	Width	Height	Front-Back	Side-Side	Vertical			
39.2	17.0	6.3	9.9	>33.3	>33.3	>33.3			
UUT Highest Passed Seismic Run Information									
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Test Mounting Details:



UUT 3

Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

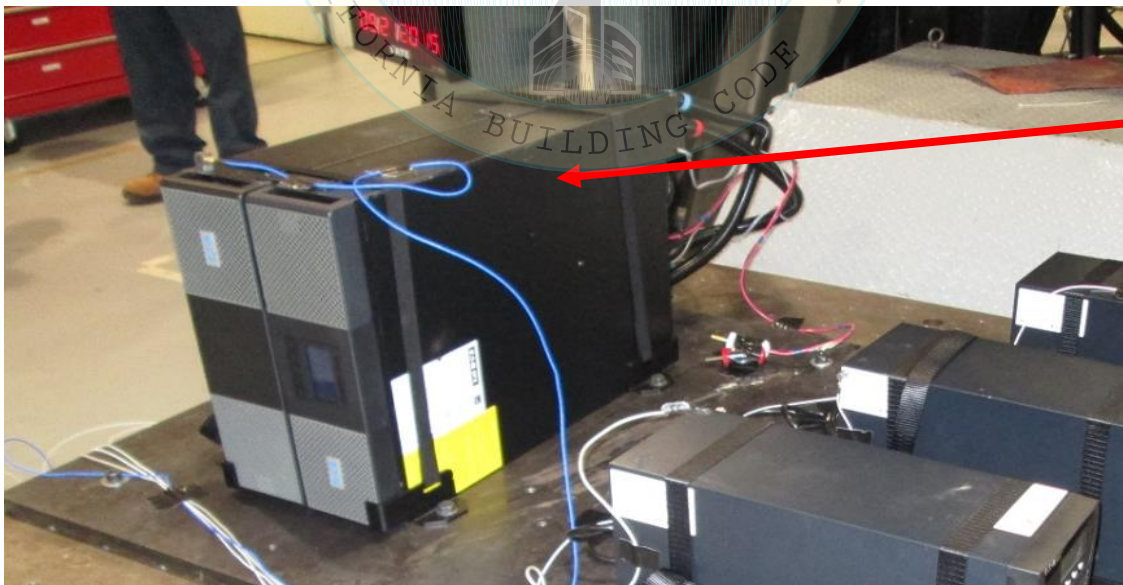
Manufacturer:	Eaton Corporation	UUT 4
Model Line:	9PX	
Model Number:	9PX8K	
Serial Number:		G219F26048KIT

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Eaton 9PXEBM240RT extended battery module, Eaton MBP11K208 rear-mount maintenance bypass, CSB HR1234FW2 batteries.

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back	Side-Side	Vertical				
193.2	32.0	10.2	17.3	>33.3	16.53	>33.3				
UUT Highest Passed Seismic Run Information										
Building Code		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 (2015)		2.0	1.0	1.5	3.20	2.40	2.13	0.85
				3.2	0.0					

Test Mounting Details:



UUT 4

Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 17
Model Line:	9130/9PX	
Model Number:	9PX6K	
Serial Number:		G205D26018

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA Seismic mounting kit, B&B HR5.5-12 battery.

UUT Properties								
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)				
	Depth	Width	Height	Front-Back	Side-Side	Vertical		
105	28.4	5.1	17.3	>33.3	11.0	>33.3		
UUT Highest Passed Seismic Run Information								
Building Code	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 (2015)	3.2	1.0	1.5	5.12	3.84	2.14	0.86

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 18
Model Line:	9130/9PX	
Model Number:	PW9130L3000T-XL	
Serial Number:		GE211A0398

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA Seismic mounting kit, CSB HR1234WF2 battery.

UUT Properties									
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)					
	Depth	Width	Height	Front-Back	Side-Side	Vertical			
81.0	16.1	8.4	12.8	>33.3	>33.3	>33.3			
UUT Highest Passed Seismic Run Information									
Building Code		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 (2015)	3.2	1.0	1.5	5.12	3.84	2.14	0.86

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 19
Model Line:	9130/9PX	
Model Number:	PW9130G3000T-XLEU	
Serial Number:		N/A

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, CSB HR1234WF2 battery.

UUT Properties									
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)					
	Depth	Width	Height	Front-Back	Side-Side	Vertical			
76.1	16.1	8.4	12.8	>33.3	>33.3	>33.3			
UUT Highest Passed Seismic Run Information									
Building Code		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 (2015)	3.2	1.0	1.5	5.12	3.84	2.14	0.86

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 20
Model Line:	9130/9PX	
Model Number:	9PXEBM180RT	
Serial Number:		G216D24023

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, B&B HR5.5-12 battery.

UUT Properties									
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)					
	Depth	Width	Height	Front-Back	Side-Side	Vertical			
146.0	25.4	5.1	17.3	>33.3	10.0	>33.3			
UUT Highest Passed Seismic Run Information									
Building Code		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 (2015)	3.2	1.0	1.5	5.12	3.84	2.14	0.86

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 21
Model Line:	9SX	
Model Number:	9SX700	
Serial Number:		PC21J38557

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Input 5-15P, Output (6) 5-15R

UUT Properties								
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)				
	Depth	Width	Height	Front-Back	Side-Side	Vertical		
26.3	13.9	6.3	9.9	>33.3	>33.3	>33.3		
UUT Highest Passed Seismic Run Information								
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 22
Model Line:	9SX	
Model Number:	9SX2000	
Serial Number:		PC24J37235

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Input L5-20P, Output (6) 5-20R, (1) L5-20R

UUT Properties								
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)				
	Depth	Width	Height	Front-Back	Side-Side	Vertical		
76.1	16.2	8.4	13.6	>33.3	>33.3	>33.3		
UUT Highest Passed Seismic Run Information								
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 23
Model Line:	9SX	
Model Number:	9SX1000G	
Serial Number:		PC27J36110

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Input C14, Output (6) 5-15R

UUT Properties								
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)				
	Depth	Width	Height	Front-Back	Side-Side	Vertical		
33	15.1	6.3	9.9	>33.3	>33.3	>33.3		
UUT Highest Passed Seismic Run Information								
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 24
Model Line:	9SX	
Model Number:	9SX1500G	
Serial Number:		PC28J34057

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Input C14, Output (8) C13

UUT Properties								
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)				
	Depth	Width	Height	Front-Back	Side-Side	Vertical		
41.1	17.1	6.3	9.9	>33.3	>33.3	>33.3		
UUT Highest Passed Seismic Run Information								
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 25
Model Line:	9SX	
Model Number:	9SX3000G	
Serial Number:		PC30J35024

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Network-M2, Input C20, Output (8) C13 and (1) C19

UUT Properties								
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)				
	Depth	Width	Height	Front-Back	Side-Side	Vertical		
75.3	16.2	8.4	13.6	>33.3	>33.3	>33.3		
UUT Highest Passed Seismic Run Information								
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

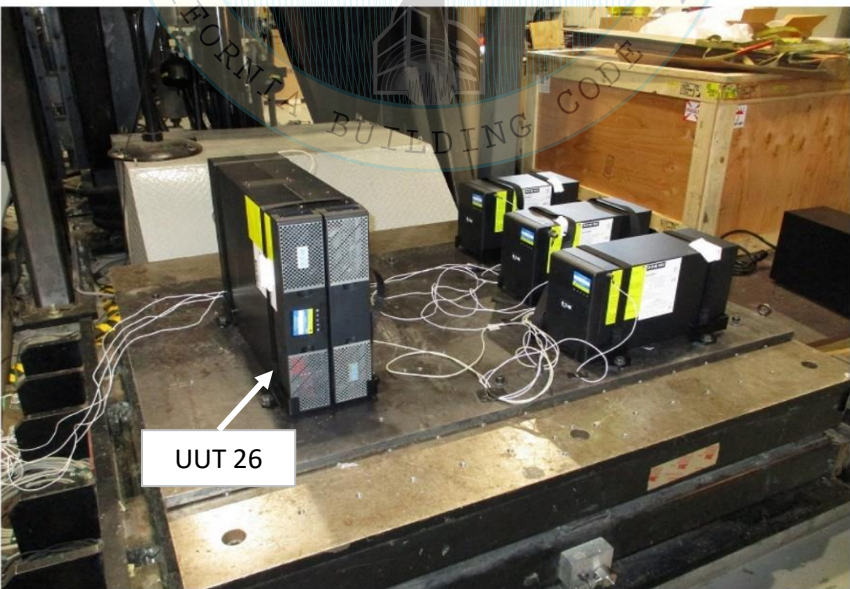
Manufacturer:	Eaton Corporation	UUT 26
Model Line:	9130/9PX	
Model Number:	9PX3000GLRT & 9PXEBM72RT	
Serial Number:		GA25G49011 & GA32J39223

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure (ganged units)

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit

UUT Properties								
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)				
	Depth	Width	Height	Front-Back	Side-Side	Vertical		
152.1	23.8	6.8	17.3	14.8	>33.3	28.85		
UUT Highest Passed Seismic Run Information								
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1900087

Manufacturer:	Eaton Corporation	UUT 27
Model Line:	9130/9PX	
Model Number:	9PX3000GLRT	
Serial Number:		GA25G12002

Product Construction Summary:
Powder coated carbon steel NEMA 1 enclosure.

Options/Subcomponent Summary:
Eaton SMKITA seismic mounting kit, Network-M2

UUT Properties								
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)				
	Depth	Width	Height	Front-Back	Side-Side	Vertical		
63.5	23.8	3.4	17.3	>33.3	17.0	>33.3		
UUT Highest Passed Seismic Run Information								
Building Code	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 (2015)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Test Mounting Details:



Rigid base mounted with Eaton Seismic Mounting Kit - SMKITA and (4) 1/2" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.