



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0649

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Siemens Industry, Inc.

Manufacturer's Technical Representative: Mike Holland

Mailing Address: 811 North Main Street, Bellefontaine, OH 43311

Telephone: (937) 593-6010

Email: Michael.holland@siemens.com

Product Information

Product Name: VBII Safety Switches, VBII OEM Disconnects, and Enclosed Circuit Breakers

Product Model Number(s): VBII Safety Switches, VBII OEM Disconnects, and Enclosed Circuit Breakers

Product Category: Switchgear/Switchboards

Product Sub-Category: Switchboards

General Description: Enclosures housing manual (switches) and automatic (breakers) switches that provide circuit protection. Enclosures constructed of carbon steel and stainless steel.

Mounting Description: Several - See Certified Product Tables

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Pre Compliance

Contact Person: Galen Reid

Mailing Address: 324 NW Hill St., Bend, OR 97703

Telephone: (541) 241-2310

Email: galen@go-pre.com

Title: Principal & Program Manager



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

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

Company Name: PRE COMPLIANCE

Name: Andrew Coughlin

California License Number: S6082

Mailing Address: 324 NW Hill St, Bend, OR 97703

Telephone: (415) 635-8461

Email: Andy@go-pre.com

Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify): _____

Testing Laboratory

Company Name: CLARK TESTING LABORATORY, INC.

Contact Person: Scott Jamison

Mailing Address: 1801 Route 51, Jefferson Hills PA 15025

Telephone: (412) 387-1001

Email: sjamison@clarktesting.com

Company Name: ELEMENT (ELMT)

Contact Person: Greg Mason

Mailing Address: 7800 Highway 20 W, West, Huntsville AL 35806

Telephone: (256) 721-0144

Email: greg.mason@nts.com



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal (A Flx-H), g= 3.20 (A Rig-H), g= 2.15

Vertical (A Flx-V), g= 1.34 (A Rig-V), g= 0.54

S_{DS} (Design spectral response acceleration at short period, g) = 2.00

H_f (Force amplification height factor) = 1 @ z/h = 0; 3.5 @ z/h = 1

R_u (Structure ductility reduction factor) = 1 @ z/h = 0; 1.3 @ z/h = 1

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 01/07/2032

Date: 1/7/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____

OSP-0649

BY: Mohammad Karim

DATE: 01/07/2026

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer: Siemens Industry Inc.
Product Type: Switchboards
Model Line: VBII Safety Switches

Seismic Parameters

$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 2.00g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$ $I_p=1.5$

Building Codes

CBC 2025

TABLE 1

Mounting Configuration: Wall Mounted - Rigid

Construction Summary

NEMA 1/3R/12 enclosures constructed of carbon steel
NEMA 4x enclosures constructed of stainless steel

Options Summary

Model	Amp Rating	NEMA Rating	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
			W	D	H			
GFxxxx, HFxxxx, DTxxxx	30-1200	1/3R/12/4x	4-42	3-15	8-72	15-485		Interp.
GNFxxxx, HNFxxxx, DNTxxxx	30-1200	1/3R/12/4x	8-40	6-15	14-55	13-304		Interp.
HNF361J	30	12	8	11	14	13		Interp.
HF361J	30	12	9	9	16	15		7
DTNF361	30	1	10	6	25	25		Interp.
DTF361	30	1	10	6	30	30		15
GNF323NRA	100	3R	11	9	18	17		Interp.
GF323NR	100	3R	12	9	23	25		3
HNF363J	100	12	12	11	23	24		Interp.
HF363J	100	12	12	9	23	25		9
DTNF363R	100	3R	12	6	28	40		Interp.
DTF363R	100	3R	12	6	36	50		17
GNF324NRA	200	3R	17	11	26	36		Interp.
GF324NR	200	3R	17	11	31	50		4
HNF364J	200	12	17	13	31	47		Interp.
HF364J	200	12	17	11	31	50		10
DTNF364R	200	3R	19	7	36	83		Interp.
DTF364R	200	3R	20	7	50	98		18
GNF325NA	400	3R	23	10	34	80		Interp.
GF325NA	400	3R	22	7	46	95		1
HNF366JA	600	12	23	10	46	85		Interp.
HF366JA	600	12	22	7	46	100		2
DTNF366R	600	3R	29	10	58	261		20
HNF368S	1200	4x	40	15	55	305		Interp.

All components are manufactured by Siemens unless noted. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component with the tested units. The VBII Safety Switch product line consists of general duty switches (G), heavy duty switches (HF), and double throw switches (DT). All three switch types utilize the the same type of construction, structural configuration, and mounting configuration. The non-fused versions of the switches are depopulated from the fused versions.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer: Siemens Industry Inc.
Product Type: Switchboards
Model Line: VBII Safety Switches

Seismic Parameters

$S_{DS} = 2.00g$ for $z/h=1, R_p=1.3, H_f=3.5$
 $S_{DS} = 2.00g$ for $z/h=0, R_p=1.0, H_f=1.0$ $I_p=1.5$

Building Codes

CBC 2025

TABLE 1

Mounting Configuration: Wall Mounted - Rigid

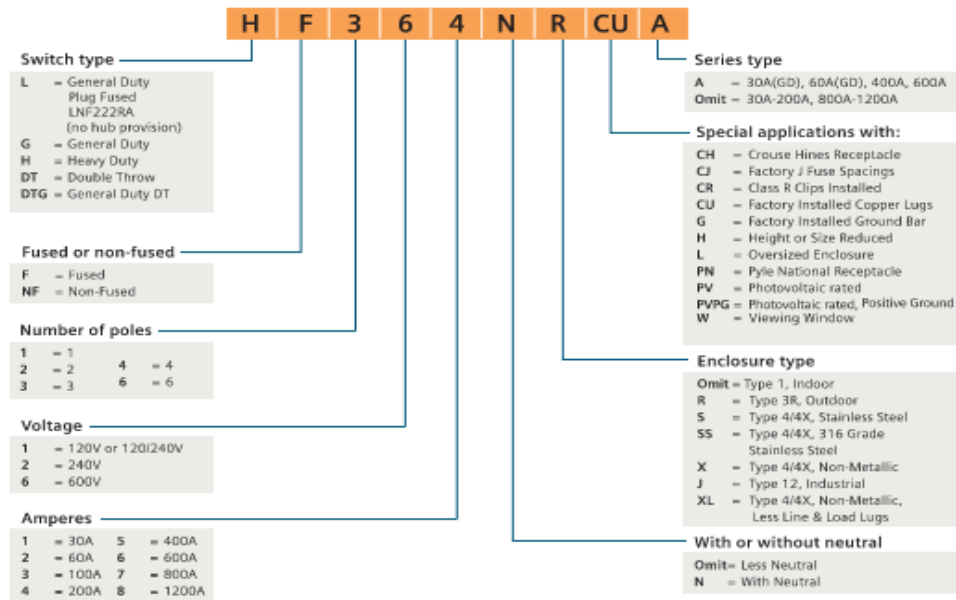
Construction Summary

NEMA 1/3R/12 enclosures constructed of carbon steel
NEMA 4x enclosures constructed of stainless steel

Options Summary

Model	Amp Rating	NEMA Rating	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
			W	D	H			
HF368S	1200	4x	39	10	67	352		23
HNF367J	800	12	40	15	55	302		Interp.
HF367J	800	12	40	15	67	365		13
HNF368J	1200	12	40	15	55	304		Interp.
HF368J	1200	12	40	15	67	385		14
DTNF368R	1200	3R	42	10	72	485		22

Type VBII Safety Switch Catalog numbering system



All components are manufactured by Siemens unless noted. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component with the tested units. The VBII Safety Switch product line consists of general duty switches (G), heavy duty switches (HF), and double throw switches (DT). All three switch types utilize the the same type of construction, structural configuration, and mounting configuration. The non-fused versions of the switches are depopulated from the fused versions.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer: Siemens Industry Inc.
Product Type: Switchboards
Model Line: VBII OEM Disconnect Switches

Seismic Parameters
 $S_{DS} = 2.00g$ for $z/h=1, R_p=1.3, H_f=3.5$
 $S_{DS} = 2.00g$ for $z/h=0, R_p=1.0, H_f=1.0$ $I_p=1.5$

Building Codes
CBC 2025

TABLE 2

Mounting Configuration: Wall Mounted - Rigid

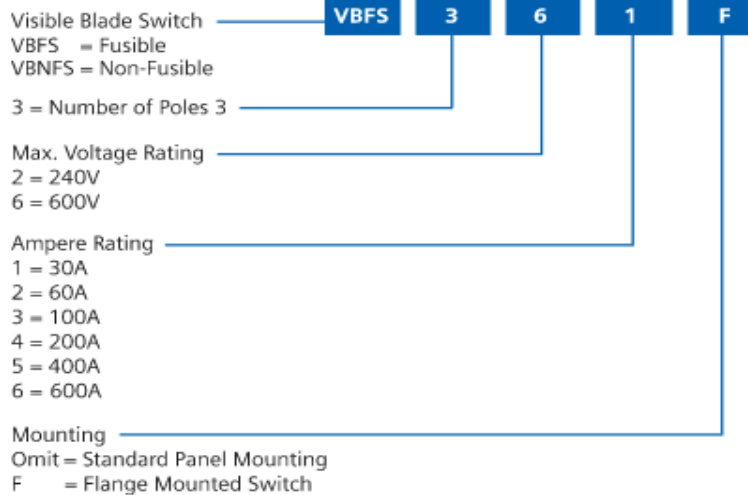
Construction Summary

Carbon steel enclosures

Options Summary

Model	Amp Rating	NEMA Rating	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
			W	D	H			
VBFSxxxx	30-600	N/A	7-13	7-8	14-26	15-61		Interp.
VBNFSxxxx	30-600	N/A	7-16	7-8	10-13	10-46		Interp.
VBFS361F	30	N/A	8	7	10	10		Interp.
VBFS361F	30	N/A	7	8	14	15		23
VBNFS363F	100	N/A	9	7	10	20		Interp.
VBFS363F	100	N/A	9	8	16	25		25
VBNFS364F	200	N/A	12	7	11	39		Interp.
VBFS364F	200	N/A	13	8	19	49		26
VBNFS366	600	N/A	17	9	13	46		Interp.
VBFS366	600	N/A	13	7	26	61		28

Catalog Numbering System for Switch Assemblies



All components are manufactured by Siemens unless noted. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component with the tested units. The non-fused versions of the switches are depopulated from the fused versions.



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

$S_{DS} = 2.00g$ for $z/h=1, R_\mu=1.3, H_f=3.5$
 $S_{DS} = 2.00g$ for $z/h=0, R_\mu=1.0, H_f=1.0$

Page 7 of 39

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer: Siemens Industry Inc.
Product Type: Switchboards
Model Line: Enclosed Circuit Breakers

Seismic Parameters	Building Codes
$S_{DS} = 2.00g$ for $z/h=1, R_p=1.3, H_f=3.5$ $S_{DS} = 2.00g$ for $z/h=0, R_p=1.0, H_f=1.0$	$I_p=1.5$ CBC 2025

TABLE 4

Mounting Configuration: Wall Mounted - Rigid

Construction Summary

NEMA 1/3R/12 enclosures constructed of carbon steel
 NEMA 4x enclosures constructed of stainless steel

Options Summary

Model ¹	Amp Rating	NEMA Rating	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
			W	D	H			
E xx xxxxxxx	100-1200	1F/3R/12/4X	7.5-38	4-11.8	16.5-62	10-270		Interp.
E 1F 3VA51	100	1F	6.8	4.5	18.5	13		30
E 4X HQR2H	100	4x	9.6	5.7	31.5	30		34
E 1F 3VL250	250	1F	9.6	5.7	31.5	31		32
E 3R 3VA64	600	3R	22	6.5	45	74		29
E 4X LD6	600	4x	30	10	42	144		31
E 12 MND6	1200	12	38	10	60	270		33

E 3R QR22B150

CIRCUIT BREAKER ENCLOSURE
 E - QR CIRCUIT BREAKER ENCLOSURE

CIRCUIT BREAKER
 CIRCUIT BREAKER CATALOG NUMBER

ENCLOSURE TYPE
 1S - TYPE 1, SURFACE MOUNT, INDOOR
 1F - TYPE 1, FLUSH MOUNT, INDOOR
 3R - TYPE 3R, RAINPROOF
 12 - TYPE 12, DUST-TIGHT
 4X - TYPE 4X, WATERTIGHT 304 SS
 4X316 - TYPE 4X, WATERTIGHT 316 SS

¹All components are manufactured by Siemens unless noted. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component with the tested units. The part number designation for the enclosed circuit breaker product line is detailed below.



Manufacturer: Siemens Industry Inc.
Product Type: Switchboards
Model Line: VBII Safety Switches

$S_{DS} = 2.00g$ for $z/h=1, R_\mu=1.3, H_f=3.5$
 $S_{DS} = 2.00g$ for $z/h=0, R_\mu=1.0, H_f=1.0$ $I_p=1.5$

CBC 2025

Table Description: VBII Safety Switch Components

Pre Compliance

Manufacturer: Siemens Industry Inc.
Product Type: Switchboards
Model Line: Enclosed Circuit Breakers

Seismic Parameters

$S_{DS} = 2.00g$ for $z/h=1, R_p=1.3, H_f=3.5$
 $S_{DS} = 2.00g$ for $z/h=0, R_p=1.0, H_f=1.0$

Building Codes

CBC 2025

TABLE 6

Table Description: Wall Mounted Enclosed Circuit Breaker Subcomponents

Component (Manufacturer)	Model	Dimensions (in)			Wt. (lb)	Amp Rating	Description	UUT
		W	D	H				
Molded Case Breakers - Sentron (Siemens)	F6, FD6, FXD6	4.5	4	9.5	10	70-250	2/3P	Extrap.
	HFD6, HFXD6	4.5	4	9.5	10		2/3P, HIC	Extrap.
	HHFD6, HHFXD6	4.5	4	9.5	10		2/3P, EHIC	Extrap.
	E2N	4.5	4	9.5	10		2/3P	Extrap.
	CED	4.5	4	14.25	16		2/3P	Extrap.
	CFD6	4.5	4	14.25	16		2/3P, Highest IC & CL	Extrap.
	SCFD6	4.5	4	14.25	16		2/3P, ETU, Highest IC & CL	Extrap.
	JXD2	7.5	4	11	19.5		2/3P	Extrap.
	J6, JD6, JXD2	7.5	4	11	19.5	250-400	2/3P	Extrap.
	HJ66, HJXD6, HHJD6	7.5	4	11	19.5		2/3P, HIC, HHIC	Extrap.
	HHJXD6	7.5	4	11	19.5		2/3P, HHIC	Extrap.
	SJD6, SHJD6	7.5	4	11	19.5		2/3P, ETU	Extrap.
	CJD6	7.5	4	17	31.5		2/3P, Highest IC & CL	Extrap.
	SCJD6	7.5	4	17	31.5		2/3P, ETU, Highest IC & CL	Extrap.
	LD6, LXD6	7.5	4	11	19.5		2/3P	31
	HLD6, HLXD6	7.5	4	11	19.5		2/3P, HIC	Interp.
	HHLD6, HHLXD6	7.5	4	11	19.5		2/3P, HHIC	Interp.
	SLD6, SHLD6	7.5	4	11	19.5		2/3P, ETU	Interp.
	CLD6	7.5	4	17.86	31.5	500-800	2/3P, Highest IC & CL	Interp.
	SCLD6	7.5	4	17.86	31.5		2/3P, ETU, Highest IC & CL	Interp.
	MD6, MXD6	9	6	16	61.5		2/3P	Interp.
	HMD6, HMXD6	9	6	16	61.5		2/3P, HIC	Interp.
	SMD6, SHMD6	9	6	16	61.5		2/3P, ETU & HIC	Interp.
	CMD6	9	6	16	61.5		2/3P, Highest IC & CL	Interp.
	SCMD6	9	6	16	61.5		2/3P, ETU, Highest IC & CL	Interp.
	LMD6, LMXD6	7.5	4.5	16	61.5		2/3P	Interp.
	HLMD6, HLMX6D	7.5	4.5	16	61.5		2/3P, HIC	Interp.
	MND6	9	6	16	61.5	800-1200	2/3P	33
	ND6, NXD6	9	6	16	61.5		2/3P	Interp.
	HND6, HNXD6	9	6	16	61.5		2/3P, HIC	Interp.
	SND6, SHND6	9	6	16	61.5		2/3P, ETU & HIC	Interp.
	CND6	9	6	16	61.5		2/3P, Highest IC & CL	Interp.
	SCND6	9	6	16	61.5		2/3P, ETU, Highest IC & CL	Interp.
	PRD6N1	9	6	16	61.5	2000	2/3P	Interp.

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



SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

CBC 2025

Table Description: Wall Mounted Enclosed Circuit Breaker Subcomponents

Page 11 of 39

SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

UUT	Model	Test Report	Test Date	Test Laboratory	S _{DS}	z/h	R _μ	H _f	I _p
1	GF325NA	PR047910-TR-16 (ETU1)	6/16/2016	NTS	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
2	HF366JA	PR047910-TR-16 (ETU2)	6/16/2016	NTS	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
3	GF323NR	T55890 (UUT3)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
4	GF324NR	T55890 (UUT4)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
5	NOT USED								
6	NOT USED								
7	HF361J	T55890 (UUT7)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
8	NOT USED								
9	HF363J	T55890 (UUT9)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
10	HF364J	T55890 (UUT10)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
11	NOT USED								
12	NOT USED								
13	HF367J	T55890 (UUT13)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
14	HF368J	T55890 (UUT14)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
15	DTF361	T55890 (UUT15)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
16	NOT USED								
17	DTF363R	T55890 (UUT17)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
18	DTF364R	T55890 (UUT18)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
19	NOT USED								
20	DTNF366R	T55890 (UUT20)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5

Notes:

SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

UUT	Model	Test Report	Test Date	Test Laboratory	S _{DS}	z/h	R _μ	H _f	I _p
21	NOT USED								
22	DTNF368R	T55890 (UUT22)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
23	HF368S	JID 19-01459 (UUT23)	12/2/2019	Clark Testing	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
24	VBFS361F	T55890 (UUT23)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
25	VBFS363F	T55890 (UUT25)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
26	VBFS364F	T55890 (UUT26)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
27	NOT USED								
28	VBFS366	T55890 (UUT28)	8/28/2008	Wyle Laboratories	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
29	E 3R 3VA64	JID 19-01459 (UUT1)	12/2/2019	Clark Testing	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
30	E 1F 3VA51	JID 19-01459 (UUT2)	12/2/2019	Clark Testing	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
31	E 4X LD6	JID 19-01459 (UUT3)	12/2/2019	Clark Testing	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
32	E 1F 3VL250	JID 19-01459 (UUT4)	12/2/2019	Clark Testing	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
33	E 12 MND6	JID 19-01459 (UUT5)	12/2/2019	Clark Testing	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
34	E 4X HQR2H	JID 19-01459 (UUT6)	12/2/2019	Clark Testing	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
35	E 1S PRD6N1	JID 19-01459 (UUT7)	12/2/2019	Clark Testing	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5

Notes:

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 1

Test Report# PR047910-TR-16 (ETU1)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: GF325NA
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
7	22	46	95

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 3/8" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 1 - 12ga carbon steel enclosure	N/A
Siemens	400/600A Switch Base Assembly	HFB66A
Siemens	400/600A Mechanism	HM64
Siemens	400/600A Load Base Assembly	HBB66A

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 2

Test Report# PR047910-TR-16 (ETU2)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: HF366JA
Serial Number: N/A

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
7	22	46	100

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 3/8" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 11 - 12ga carbon steel enclosure	N/A
Siemens	400/600A Switch Base Assembly	HFB66A
Siemens	400/600A Mechanism	HM64
Siemens	400/600A Load Base Assembly	HBB66A

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 3

Test Report# T55890 (UUT3)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: GF323NR
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
9	12	23	25

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 5/16" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 3R - 12ga carbon steel enclosure	N/A
Siemens	60/100A Switch Base Assembly	HFB63
Siemens	60/200A Mechanism	HM6123
Siemens	60/100A Load Base Assembly	HBB63

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 4

Test Report# T55890 (UUT4)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: GF324NR
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
11	17	31	50

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 3R - 12ga carbon steel enclosure	N/A
Siemens	200A Switch Base Assembly	HFB64
Siemens	30/200A Mechanism	HM6123
Siemens	200A Load Base Assembly	HBB64

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 7

Test Report# T55890 (UUT7)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: HF361J
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
9	9	16	15

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 12 - 12ga carbon steel enclosure	N/A
Siemens	30A Switch Base Assembly	HFB61
Siemens	30/200A Mechanism	HM6123
Siemens	30A Load Base Assembly	HBB61

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 9

Test Report# T55890 (UUT9)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: HF363J
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
9	12	23	25

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 12 - 12ga carbon steel enclosure	N/A
Siemens	60/100A Switch Base Assembly	HFB63
Siemens	30/200A Mechanism	HM6123
Siemens	60/100A Load Base Assembly	HBB63

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 10

Test Report# T55890 (UUT10)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: HF364J
Serial Number: N/A

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
11	17	31	49

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



Karim

026

UUT was rigid wall mounted using (4) 5/16" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 12 - 12ga carbon steel enclosure	N/A
Siemens	200A Switch Base Assembly	HFB64
Siemens	400/600A Mechanism	HM64
Siemens	200A Load Base Assembly	HBB64

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 13

Test Report# T55890 (UUT13)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: HF367J
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
15	40	67	365

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/2" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 12 - 12ga carbon steel enclosure	N/A
Siemens	800A Switch Base Assembly	HFB67A
Siemens	800/1200A Mechanism	HM68
Siemens	800A Load Base Assembly	HBB67A

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 14

Test Report# T55890 (UUT14)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: HF368J
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
15	40	67	385

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/2" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 12 - 12ga carbon steel enclosure	N/A
Siemens	1200A Switch Base Assembly	HFB68
Siemens	800/1200A Mechanism	HM68
Siemens	1200A Load Base Assembly	HBB68

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 15

Test Report# T55890 (UUT15)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: DTF361
Serial Number: N/A

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
6	10	30	30

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 1 - 12ga carbon steel enclosure	N/A
Siemens	30A Switch Base Assembly	HFB61
Siemens	30/200A Mechanism	HM6123
Siemens	30A Load Base Assembly	HBB61

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 17

Test Report# T55890 (UUT17)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: DTF363R
Serial Number: N/A

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
6	12	36	50

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 3R - 12ga carbon steel enclosure	N/A
Siemens	60/100A Switch Base Assembly	HFB63
Siemens	30/200A Mechanism	HM6123
Siemens	60/100A Load Base Assembly	HBB63

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 18

Test Report# T55890 (UUT18)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: DTF364R
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
7	20	50	98

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 3/8" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 3R - 12ga carbon steel enclosure	N/A
Siemens	200A Switch Base Assembly	HFB64
Siemens	400/600A Mechanism	HM64
Siemens	200A Load Base Assembly	HBB64

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 20

Test Report# T55890 (UUT20)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: DTNF366R
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
10	29	58	261

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/2" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 3R - 12ga carbon steel enclosure	N/A
Siemens	400/600A Switch Base Assembly	HFB66A
Siemens	400/600A Mechanism	HM64
Siemens	400/600A Load Base Assembly	HBB66A

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 22

Test Report# T55890 (UUT22)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: DTNF368R
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
10	42	72	485

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/2" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 3R - 12ga carbon steel enclosure	N/A
Siemens	1200A Switch Base Assembly	HFB68
Siemens	800/1200A Mechanism	HM68
Siemens	1200A Load Base Assembly	HBB68

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 23

Test Report# JID 19-01459 (UUT23)

Manufacturer: Siemens Industry Inc.
Model Line: VBII Safety Switches
Model Number: HF368S
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
10	39	67	352

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Stainless steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/2" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 3R - 12ga carbon steel enclosure	N/A
Siemens	1200A Switch Base Assembly	HFB68
Siemens	800/1200A Mechanism	HM68
Siemens	1200A Load Base Assembly	HBB68

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 24

Test Report# T55890 (UUT23)

Manufacturer: Siemens Industry Inc.
Model Line: VBII OEM Disconnect Switch
Model Number: VBFS361F
Serial Number: N/A

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8	7	14	15

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	30A Disconnect Switch	VBFS361F

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 25

Test Report# T55890 (UUT25)

Manufacturer: Siemens Industry Inc.
Model Line: VBII OEM Disconnect Switch
Model Number: VBFS363F
Serial Number: N/A

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8	9	16	25

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	100A Disconnect Switch	VBFS363F

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 26

Test Report# T55890 (UUT26)

Manufacturer: Siemens Industry Inc.
Model Line: VBII OEM Disconnect Switch
Model Number: VBFS364F
Serial Number: N/A

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8	13	19	49

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	200A Disconnect Switch	VBFS364F

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 28

Test Report# T55890 (UUT28)

Manufacturer: Siemens Industry Inc.
Model Line: VBII OEM Disconnect Switch
Model Number: VBFS366
Serial Number: N/A

Highest Passed Test Level

S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
7	13	26	61

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	600A Disconnect Switch	VBFS366

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 29

Test Report# JID 19-01459 (UUT1)

Manufacturer: Siemens Industry Inc.
Model Line: Wall Mounted Enclosed Circuit Breaker
Model Number: E 3R 3VA64
Serial Number: N/A

Highest Passed Test Level								
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
6.5	22	45	74

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	NEMA 3R carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 5/16" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 3R - 12ga carbon steel enclosure	N/A
Siemens	Molded Case Circuit Breaker	3VA64

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 30

Test Report# JID 19-01459 (UUT2)

Manufacturer: Siemens Industry Inc.
Model Line: Wall Mounted Enclosed Circuit Breaker
Model Number: E 1F 3VA51
Serial Number: N/A

Highest Passed Test Level								
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
4.5	6.75	18.5	13

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	NEMA 1F carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (3) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 1F - 12ga carbon steel enclosure	N/A
Siemens	Molded Case Circuit Breaker	3VA51

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 31

Test Report# JID 19-01459 (UUT3)

Manufacturer: Siemens Industry Inc.
Model Line: Wall Mounted Enclosed Circuit Breaker
Model Number: E 4X LD6
Serial Number: N/A

Highest Passed Test Level								
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
10	30	42	144

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	NEMA 4X stainless steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 3/8" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 4X - 12ga stainless steel enclosure	N/A
Siemens	Molded Case Circuit Breaker	LD6

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 32

Test Report# JID 19-01459 (UUT4)

Manufacturer: Siemens Industry Inc.
Model Line: Wall Mounted Enclosed Circuit Breaker
Model Number: E 1F 3VL250
Serial Number: N/A

Highest Passed Test Level								
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
5.7	9.6	31.5	31

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	NEMA 1F carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (3) 1/4" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 1 - 12ga carbon steel enclosure	N/A
Siemens	Molded Case Circuit Breaker	3VL250

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 33

Test Report# JID 19-01459 (UUT5)

Manufacturer: Siemens Industry Inc.
Model Line: Wall Mounted Enclosed Circuit Breaker
Model Number: E 12 MND6
Serial Number: N/A

Highest Passed Test Level								
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
10	38	60	270

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	NEMA 3R carbon steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 3/8" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 12 - 12ga carbon steel enclosure	N/A
Siemens	Molded Case Circuit Breaker	MND6

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 34

Test Report# JID 19-01459 (UUT6)

Manufacturer: Siemens Industry Inc.
Model Line: Wall Mounted Enclosed Circuit Breaker
Model Number: E 4X HQR2H
Serial Number: N/A

Highest Passed Test Level								
S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
5.7	9.6	31.2	30

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	NEMA 4X stainless steel enclosure

UUT Mounting Details:



UUT was rigid wall mounted using (4) 5/16" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 4X - 12ga stainless steel enclosure	N/A
Siemens	Molded Case Circuit Breaker	HQR2H

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 35

Test Report# JID 19-01459 (UUT7)

Manufacturer: Siemens Industry Inc.
Model Line: Floor Mounted Enclosed Circuit Breaker
Model Number: E 1S PRD6N1
Serial Number: N/A

Highest Passed Test Level									
S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}	
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67	
2.50	0.0	1.0	1.0						

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
32	28	90	484

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
8.9	8.9	>33.3

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	NEMA 1 carbon steel enclosure

UUT Mounting Details:



UUT was floor wall mounted using (4) 5/16" Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Manufacturer	Description	Model Number
Siemens	NEMA 1 - 12ga carbon steel enclosure	N/A
Siemens	Molded Case Circuit Breaker	PRD6N1