



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

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

OFFICE USE ONLY

APPLICATION #: OSP-0512

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Siemens Industry, Inc.

Manufacturer's Technical Representative: Terrance Woodyard

Mailing Address: 7000 Siemens Road, Wendell, NC 27591

Telephone: (919) 365-2458

Email: Terry.woodyard@siemens.com

Product Information

Product Name: Switchgear/Switchboards

Product Type: Switchgear - Medium Voltage

Product Model Number: SIEBREAK Switchgear

General Description: SIEBREAK is a metal enclosed interrupter switchgear that provides medium voltage circuit protection.

Mounting Description: Rigid, Floor Mounted

Tested Seismic Enhancements: None

DATE: 12/12/2022

Applicant Information

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

Contact Person: Travis Soppe

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

Telephone: (208) 342-5989

Email: tsoppe@wegai.com

Title: President





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

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

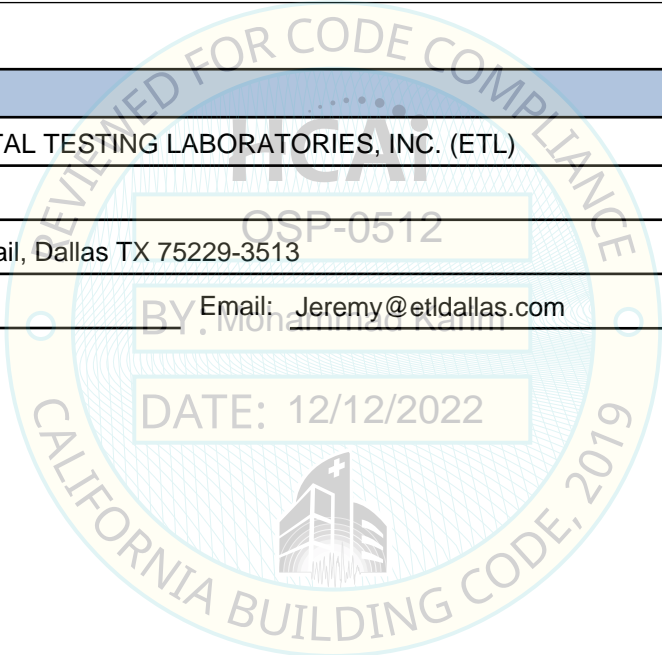
Company Name: W.E. GUNDY & ASSOCIATES INC.
Name: Travis Soppe California License Number: S6115
Mailing Address: P.O. Box 9121, Boise, ID 83707
Telephone: (208) 342-5989 Email: tsoppe@wegai.com

Certification Method

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

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: Jeremy@etldallas.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.50 at $z/h = 1.0$ and 1.13 at $z/h = 0$

SDS (Design spectral response acceleration at short period, g) = 2.0 at $z/h = 1$ and 2.5 at $z/h = 0$

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 12/12/2028

Date: 12/12/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE: 12/12/2022



TABLE 1

SIEMENS SIEBREAK 600A - 1200A SWITCHGEAR CERTIFIED PRODUCT LINE MATRIX



ID Number	System Type	NEMA Rating	Bus Ampere Rating	Enclosure Widths (in)	Enclosure Depths (in)	Enclosure Height (in)	Vertical COG (in)	Weights (lbs)	Representative UUT
SIEBREAK-L	Typical L	1/1A/2	1200A	36	56	92	43	2009	UUT-6
SIEBREAK-C	Typical C	1/1A/2/3R/12	600A/1200A	36 - 54	72	92 - 105	52	1650-2050	Interpolation
SIEBREAK-A	Typical A	1/1A/2	1200A	36	56	92 - 105	52	2250	UUT-1
SIEBREAK-N	Typical N	1/1A/2/3R/12	600A/1200A	36 - 54	56 - 82	92 - 105	49	1350-2250	Interpolation
SIEBREAK-Q	Typical Q	1/1A/2/3R/12	600A/1200A	36 - 54	56 - 82	92 - 105	49	1350-2350	Interpolation
SIEBREAK-A	Typical A	1/1A/2	1200A	36	72	92	49	2633	UUT-4
SIEBREAK-D	Typical D	1/1A/2/3R/12	600A/1200A	36 - 54	56 - 82	92 - 105	49	1350-2525	Interpolation
SIEBREAK-M	Typical M	1/1A/2/3R/12	600A/1200A	36 - 54	56 - 82	92 - 105	49	1400-2525	Interpolation
SIEBREAK-A	Typical A	1/1A/2	1200A	36	72	92	45	2843	UUT-5
SIEBREAK-A	Typical A	1/1A/2/3R/12	600A/1200A	36	56 - 82	92 - 105	47	1350-2630	Interpolation
SIEBREAK-N	Typical N	1/1A/2	600A	54	82	92	45	3150	UUT-2
SIEBREAK-F	Typical F	1/1A/2/3R/12	600A/1200A	54	56 - 82	92 - 105	45	2150-3425	Interpolation
SIEBREAK-H	Typical H	1/1A/2/3R/12	600A/1200A	36	56 - 82	92 - 105	45	2275-2900	Interpolation
SIEBREAK-H	Typical H	1/1A/2/3R/12	600A/1200A	54	56 - 82	92 - 105	45	2275-3425	Interpolation
SIEBREAK-K	Typical K	1/1A/2/3R/12	600A/1200A	36	56 - 82	92 - 105	45	2375-2900	Interpolation
SIEBREAK-K	Typical K	1/1A/2/3R/12	600A/1200A	54	56 - 82	92 - 105	45	2375-3425	Interpolation
SIEBREAK-L	Typical L	1/1A/2/3R/12	600A/1200A	36	56 - 82	92 - 105	45	2375-2900	Interpolation
SIEBREAK-L	Typical L	1/1A/2/3R/12	600A/1200A	54	56 - 82	92 - 105	45	2375-3425	Interpolation
SIEBREAK-J	Typical J	1/1A/2/3R/12	600A/1200A	36	56 - 82	92 - 105	45	2250-2900	Interpolation
SIEBREAK-J	Typical J	1/1A/2/3R/12	600A/1200A	54	56 - 82	92 - 105	45	2250-3525	Interpolation
SIEBREAK-B	Typical B	3R/12	600A	72	72	105	49	5300	UUT-3
SIEBREAK-B	Typical B	1/1A/2/3R/12	600A/1200A	72 - 90	72	92 - 105	49	3850-5300	Extrapolation

General Notes:

¹ All Enclosure widths have been ranged to include the 18" transition

² Typical M and N includes horizontal top bus up to 2000A. UUT-2 was tested with the maximum 2000A feeder bus included.

³ All switchgear sections that contain vacuume circuit breakers are limitet to a single high breaker configuration.

Table 2	SIEMENS SIEBREAK 600A - 1200A SWITCHGEAR CERTIFIED SUB-COMPONENT MATRIX						 WEGAI <small>W. E. GUNDBY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING</small>
Subcomponent ID Siemens PN	Manufacturer	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Notes	Representative UUT
Load Interrupter Switches							
ML-510-000-500	PowerCon	30.9	27.6	25.9	165	15kV/600A, Manual operated	Extrapolated
ML-510-001-500	PowerCon	30.9	27.6	25.9	180	15kV/1200A, Manual operated	UUT-1 / UUT-4 / UUT-6
ML-800-002-007	PowerCon	36.0	36.0	29.0	225	15kV/600A, Motor operated	UUT-2
ML-800-003-007	PowerCon	36.0	36.0	29.0	240	15kV/1200A, Motor operated	UUT-3 / UUT-5
Current Limiting Fuses (CL-14)							
15-171-139-007 to 022	Mersen	3.0	16.8	4.3	12		UUT-1
15-171-139-023 to 025	Mersen	3.0	22.8	7.9	21		Interpolated
15-171-140-007 to 016	Mersen	3.0	19.8	4.3	14		UUT-2
15-171-140-017	Mersen	3.0	22.8	7.9	25		Interpolated
15-171-140-018 to 023	Mersen	3.0	22.8	11.6	36		UUT-3
Standard Speed Expulsion Fuses (RBA2, RBA4, RBA8)							
15-171-487-005 to 017	Eaton	1.6	18.8	1.6	19	RBA2 Tested	UUT-1
15-171-487-024 to 036	Eaton	1.6	22.2	1.6	20		Interpolated
15-171-487-044 to 059	Eaton	2.2	20.0	2.2	21		Interpolated
15-171-487-064 to 079	Eaton	2.2	23.4	2.2	21		Interpolated
15-171-487-090 to 092	Eaton	2.2	20.0	7.7	42	RBA4 Tested	UUT-2
15-171-487-093	Eaton	2.2	23.4	7.7	43		Interpolated
15-171-487-094	Eaton	2.2	23.4	7.7	43		Interpolated
15-171-487-095	Eaton	2.2	23.4	7.7	43	RBA8 Tested	UUT-3
Time Lag Expulsion Fuses (RBT2, RBT4, RBT8)							
15-171-487-100 to 110	Eaton	1.6	18.8	1.6	19.0	RBT2 Tested	UUT-1
15-171-487-120 to 130	Eaton	1.6	22.2	1.6	19.1		Interpolated
15-171-487-140 to 153	Eaton	2.2	20.0	2.2	19.1	RBT4 Tested	UUT-2
15-171-487-160 to 173	Eaton	2.2	23.4	2.2	21.3		Interpolated
15-171-487-180 to 185	Eaton	2.2	20.0	7.7	42.2	RBT8 Tested	UUT-3
General Notes:							

Table 2	SIEMENS SIEBREAK 600A - 1200A SWITCHGEAR CERTIFIED SUB-COMPONENT MATRIX						
	Subcomponent ID Siemens PN	Manufacturer	Width (in)	Depth (in)	Height (in)	Weight (lbs)	
Vacuum Circuit Breakers							
3AE5284-2	Siemens	22.5	15.5	25.5	126	17.5kV/25kA/1250A	UUT-4 / UUT-6
3AH3436-2	Siemens	28.8	22.0	25.5	313	15kV/40kA/1200A	UUT-5
Current Transformers							
62-300-066-101	GE ITI	10.9	3.5	10.9	34	600 V/10kV/100:5 A, Single Ratio	Extrapolated
62-300-066-151	GE ITI	10.9	3.5	10.9	34	600 V/10kV/150:5 A, Single Ratio	Extrapolated
62-300-066-201	GE ITI	10.9	3.5	10.9	34	600 V/10kV/200:5 A, Single Ratio	Extrapolated
62-300-066-251	GE ITI	10.9	3.5	10.9	34	600 V/10kV/250:5 A, Single Ratio	Extrapolated
62-300-066-301	GE ITI	10.9	3.5	10.9	34	600 V/10kV/300:5 A, Single Ratio	Extrapolated
62-300-066-401	GE ITI	10.9	3.5	10.9	34	600 V/10kV/400:5 A, Single Ratio	Extrapolated
62-300-066-501	GE ITI	10.9	3.5	10.9	34	600 V/10kV/500:5 A, Single Ratio	Extrapolated
62-300-066-601	GE ITI	10.9	3.5	10.9	34	600 V/10kV/600:5 A, Single Ratio	Extrapolated
62-300-066-801	GE ITI	10.9	3.5	10.9	34	600 V/10kV/800:5 A, Single Ratio	UUT-1
62-300-066-102	GE ITI	10.9	3.5	10.9	34	600 V/10kV/1000:5 A, Single Ratio	Interpolated
62-300-066-122	GE ITI	10.9	3.5	10.9	34	600 V/10kV/1200:5 A, Single Ratio	UUT-1 / UUT-4
62-300-066-122	GE ITI	10.9	3.5	10.9	34	600 V/10kV/1200:5 A, Single Ratio	UUT-5 / UUT-6
62-300-067-601	GE ITI	10.9	3.5	10.9	34	600 V/10kV/600:5 A, Multi Ratio	Interpolated
62-300-067-801	GE ITI	10.9	3.5	10.9	34	600 V/10kV/800:5 A, Multi Ratio	Interpolated
62-300-067-122	GE ITI	10.9	3.5	10.9	34	600 V/10kV/1200:5 A, Multi Ratio	UUT-1
Ground Fault Current Transformers							
61-300-092-500	GE ITI	11.1	6.0	11.5	60	600 V/10kV/50:5 A, Single Ratio	UUT-4
61-300-078-500	GE ITI	14.5	7.4	7.5	70	600 V/10kV, Single Ratio	Interpolated
15-172-875-500	GE ITI	27.6	5.3	13.6	150	600 V/10kV/50:5A, Single Ratio	UUT-5
General Notes:							

Table 2

**SIEMENS SIEBREAK 600A - 1200A SWITCHGEAR
CERTIFIED SUB-COMPONENT MATRIX**



Subcomponent ID Siemens PN	Manufacturer	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Notes	Representative UUT
Voltage Transformers							
15-172-788-004	GE ITI	6.4	9.3	7.1	34	2400:120V/5.6kV/60kV	Extrapolated
15-172-788-007	GE ITI	6.4	9.4	8.0	34	2400:120V/5.6kV/60kV	Extrapolated
15-172-788-005	GE ITI	6.4	9.3	7.1	34	4200:120V/5.6kV/60kV	Extrapolated
15-172-788-008	GE ITI	6.4	9.4	8.0	34	4200:120V/5.6kV/60kV	Extrapolated
15-172-788-006	GE ITI	6.4	9.3	7.1	34	4800:120V/5.6kV/60kV	Extrapolated
15-172-788-009	GE ITI	6.4	9.4	8.0	34	4800:120V/5.6kV/60kV	UUT-2
15-172-787-017	GE ITI	9.3	15.5	11.3	85	7200:120V/15.5kV/110kV	Interpolated
15-172-787-021	GE ITI	9.3	15.5	12.2	85	7200:120V/15.5kV/110kV	Interpolated
15-172-787-018	GE ITI	9.3	15.5	11.3	85	8400:120V/15.5kV/110kV	Interpolated
15-172-787-022	GE ITI	9.3	15.5	12.2	85	8400:120V/15.5kV/110kV	Interpolated
15-172-787-019	GE ITI	9.3	15.5	11.3	85	12000:120V/15.5kV/110kV	Interpolated
15-172-787-023	GE ITI	9.3	15.5	12.2	85	12000:120V/15.5kV/110kV	Interpolated
15-172-787-020	GE ITI	9.3	15.5	11.3	85	14400:120V/15.5kV/110kV	Interpolated
15-172-787-024	GE ITI	9.3	15.5	12.2	85	14400:120V/15.5kV/110kV	UUT-3 / UUT-4
15-172-787-117	Arteche	9.2	13.1	9.9	80	7200:120V/17.5kV/95kV	UUT-3
15-172-787-121	Arteche	9.2	13.1	9.9	80	7200:120V/17.5kV/95kV	Interpolated
15-172-787-118	Arteche	9.2	13.1	9.9	80	8400:120V/17.5kV/95kV	Interpolated
15-172-787-122	Arteche	9.2	13.1	9.9	80	8400:120V/17.5kV/95kV	Interpolated
15-172-787-119	Arteche	9.2	13.1	9.9	80	12000:120V/17.5kV/95kV	Interpolated
15-172-787-123	Arteche	9.2	13.1	9.9	80	12000:120V/17.5kV/95kV	Interpolated
15-172-787-120	Arteche	9.2	13.1	9.9	80	14400:120V/17.5kV/95kV	Interpolated
15-172-787-124	Arteche	9.2	13.1	9.9	80	14400:120V/17.5kV/95kV	UUT-3

General Notes:

Table 2

**SIEMENS SIEBREAK 600A - 1200A SWITCHGEAR
CERTIFIED SUB-COMPONENT MATRIX**



Subcomponent ID Siemens PN	Manufacturer	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Notes	Representative UUT
Control Power Transformers							
15-172-867-001	GE ITI	9.0	17.0	14.1	165	2400-4800:120V/5kV/60kV	UUT-1
15-172-867-002	GE ITI	9.0	17.0	14.1	165	4160:120V/5kV/60kV	Interpolated
15-172-867-003	GE ITI	9.0	17.0	14.1	165	4800:120V/5kV/60kV	Interpolated
15-172-867-006	GE ITI	9.0	17.0	14.1	165	7200:120V/15kV/95kV	Interpolated
15-172-867-010	GE ITI	9.0	17.0	14.1	165	8400:120V/15kV/95kV	Interpolated
15-172-867-011	GE ITI	9.0	17.0	14.1	165	12000:120V/15kV/95kV	Interpolated
15-172-867-012	GE ITI	9.0	17.0	14.1	165	12470:120V/15kV/95kV	Interpolated
15-172-867-013	GE ITI	9.0	17.0	14.1	165	13200:120V/15kV/95kV	Interpolated
15-172-867-014	GE ITI	9.0	17.0	14.1	165	13800:120V/15kV/95kV	UUT-5
15-172-867-015	GE ITI	9.0	17.0	14.1	165	14400:120V/15kV/95kV	Interpolated
15-172-867-031	GE ITI	11.5	17.0	15.4	250	2400:120V/5kV/60kV	Interpolated
15-172-867-032	GE ITI	11.5	17.0	15.4	250	4160:120V/5kV/60kV	Interpolated
15-172-867-033	GE ITI	11.5	17.0	15.4	250	4800:120V/5kV/60kV	Interpolated
15-172-867-036	GE ITI	11.5	17.0	15.4	250	7200:120V/15kV/95kV	Interpolated
15-172-867-040	GE ITI	11.5	17.0	15.4	250	8400:120V/15kV/95kV	Interpolated
15-172-867-041	GE ITI	11.5	17.0	15.4	250	12000:120V/15kV/95kV	Interpolated
15-172-867-042	GE ITI	11.5	17.0	15.4	250	12470:120V/15kV/95kV	Interpolated
15-172-867-043	GE ITI	11.5	17.0	15.4	250	13200:120V/15kV/95kV	Interpolated
15-172-867-044	GE ITI	11.5	17.0	15.4	250	13800:120V/15kV/95kV	Interpolated
15-172-867-045	GE ITI	11.5	17.0	15.4	250	14400:120V/15kV/95kV	Interpolated
15-172-867-061	GE ITI	11.5	17.0	15.4	290	2400:120V/5kV/60kV	Interpolated
15-172-867-062	GE ITI	11.5	17.0	15.4	290	4160:120V/5kV/60kV	Interpolated
15-172-867-063	GE ITI	11.5	17.0	15.4	290	4800:120V/5kV/60kV	Interpolated
15-172-867-066	GE ITI	11.5	17.0	15.4	290	7200:120V/15kV/95kV	Interpolated
15-172-867-070	GE ITI	11.5	17.0	15.4	290	8400:120V/15kV/95kV	Interpolated
15-172-867-071	GE ITI	11.5	17.0	15.4	290	12000:120V/15kV/95kV	Interpolated
15-172-867-072	GE ITI	11.5	17.0	15.4	290	12470:120V/15kV/95kV	Interpolated

General Notes:


Table 2	SIEMENS SIEBREAK 600A - 1200A SWITCHGEAR CERTIFIED SUB-COMPONENT MATRIX						 WEGAI <small>W. E. GUNDBY & ASSOCIATES, INC.</small> <small>STRUCTURAL & EARTHQUAKE ENGINEERING</small>
Subcomponent ID Siemens PN	Manufacturer	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Notes	Representative UUT
Control Power Transformers - Continued							
15-172-867-073	GE ITI	11.5	17.0	15.4	290	13200:120V/15kV/95kV	Interpolated
15-172-867-074	GE ITI	11.5	17.0	15.4	290	13800:120V/15kV/95kV	Interpolated
15-172-867-075	GE ITI	11.5	17.0	15.4	290	14400:120V/15kV/95kV	UUT-2
Surge Arresters							
77-615-001-001	Siemens	4.7	4.7	6.7	3	3kV/20kA	UUT-3
77-615-001-002	Siemens	4.7	4.7	6.7	4	6kV/20kA	Interpolated
77-615-001-003	Siemens	4.7	4.7	6.7	4	9kV/20kA	Interpolated
77-615-001-004	Siemens	4.7	4.7	6.7	4	10kV/20kA	Interpolated
77-615-001-005	Siemens	4.7	4.7	7.9	4	12kV/20kA	Interpolated
77-615-001-006	Siemens	4.7	4.7	9.4	5	15kV/20kA	Interpolated
77-615-001-007	Siemens	4.7	4.7	9.4	5	18kV/20kA	Interpolated
77-615-001-020	Siemens	4.7	4.7	7.0	6	3kV/20kA	Interpolated
77-615-001-022	Siemens	4.7	4.7	7.0	6	9kV/20kA	Interpolated
77-615-001-023	Siemens	4.7	4.7	7.0	7	10kV/20kA	Interpolated
77-615-001-024	Siemens	4.7	4.7	8.0	7	12kV/20kA	UUT-2
77-615-001-025	Siemens	4.7	4.7	8.0	7	15kV/20kA	Interpolated
77-615-001-026	Siemens	4.7	4.7	9.0	8	18kV/20kA	Interpolated
77-615-001-040	Siemens	4.7	4.7	12.0	13	3kV/65kA	Interpolated
77-615-001-041	Siemens	4.7	4.7	12.0	13	6kV/65kA	Interpolated
77-615-001-042	Siemens	4.7	4.7	12.0	14	9kV/65kA	Interpolated
77-615-001-043	Siemens	4.7	4.7	12.0	14	10kV/65kA	Interpolated
77-615-001-044	Siemens	4.7	4.7	12.0	14	12kV/65kA	Interpolated
77-615-001-045	Siemens	4.7	4.7	12.0	15	15kV/65kA	Interpolated
77-615-001-046	Siemens	4.7	4.7	12.0	15	18kV/65kA	UUT-3 / UUT-4 / UUT-5
General Notes:							

Table 2	SIEMENS SIEBREAK 600A - 1200A SWITCHGEAR CERTIFIED SUB-COMPONENT MATRIX						 WEGAI <small>W. E. GUNDBY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING</small>
Subcomponent ID Siemens PN	Manufacturer	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Notes	Representative UUT
Meters							
PACS – P/N 77615000416	Siemens	3.8	3.2	3.8	1		UUT-5
PACS – P/N 77615000413	Siemens	3.8	2.2	3.8	1		UUT-4
Relays							
7SJ80	Siemens	2.9	10.5	9.0	9		UUT-6
7SJ82	Siemens	5.9	10.6	9.0	11		Interpolated
7UT82	Siemens	5.7	10.6	9.0	11		Interpolated
7UT85	Siemens	8.7	10.6	9.0	18		UUT-4
SEL 751	Schweitzer	5.7	7.6	6.9	6		UUT-6
SEL 787	Schweitzer	5.7	7.6	6.9	4		UUT-4
Multilin 760	GE	8.5	9.9	8.8	17		UUT-5
Multilin 845	GE	8.4	9.9	9.1	20		Interpolated
Multilin 735	GE	8.5	9.9	8.8	20		Interpolated
Multilin 750	GE	8.5	9.9	8.8	17		Interpolated
Multilin 850	GE	8.4	9.9	9.1	20		Interpolated
Multilin 745	GE	8.5	9.9	8.8	19		UUT-5
Motorized Option (Motor Drive Sytem Unit)							
557-1206-5	PowerCon	36.0	9.0	10.2	60		UUT-3 / UUT-5
General Notes:							

UUT-1

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



Mounting Details: Floor mounted with 4 - 1/2" diameter grade 5 bolts (2 bolts in both front and middle) with 1/4" seismic washers.



Manufacturer: Siemens Industry, Inc.

Product Line: 600A to 1200A Siebreak Melis Switchgear

Identification Number: SIEBREAK-MELIS-A-1200A

UUT Function: Siebreak Melis Switchgear provides medium voltage circuit protection.

UUT Description: The unit is comprised of three NEMA 1/1A/2 carbon steel enclosures with 1200A feeder bus with fuses and load interrupter switches.

UUT Component Description: NEMA1 carbon steel enclosure, 1200A copper feeder bus, fuses (022, 017, 110), load interrupter switch (ML-510-001-500), current transformers (62-300-066-801, 62-300-066-122, 62-300-067-122), and control power transformer (15-172-867-013).

UUT PROPERTIES

Weight (lb)	Dimensions (inches)				Natural Frequency (Hz)		
	Width	Depth	Height	COG	FB	SS	V
1,862	36	56	92	52	9.81	6.44	21.26

SEISMIC TEST PARAMETERS

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
	2.50	0	1.5	-	-	1.67g	0.67g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT-2

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



Mounting Details: Floor mounted with 12 - 1/2" diameter grade 5 bolts (4 bolts in both front, middle and rear) with 1/4" seismic washers.



Manufacturer: Siemens Industry, Inc.

Product Line: 600A to 1200A Siebreak Melis Switchgear

Identification Number: SIEBREAK-MELIS-N-1200A

UUT Function: Siebreak Melis Switchgear provides medium voltage circuit protection.

UUT Description: The unit is comprised of two NEMA 1/1A/2 carbon steel enclosures bolted together that contain 1200A feeder bus, 2000A top bus, fuses, and load interrupter switches.

UUT Component Description: NEMA1 carbon steel enclosure, 1200A copper feeder bus, 2000A copper top bus, fuses (016, 092, 110), load interrupter switch (ML-800-002-007), voltage transformer (15-172-788-009), control power transformer (15-172-867-075), and (77-615-001-024) surge arresters.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)				Natural Frequency (Hz)		
	Width	Depth	Height	COG	FB	SS	V
2,925	54	82	92	45	8.92	8.88	7.67

SEISMIC TEST PARAMETERS

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
	2.50	0	1.5	-	-	1.67g	0.67g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT-3

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



Mounting Details: Floor mounted with 12 - 1/2" diameter grade 5 bolts (6 bolts in both front, and rear).



Manufacturer: Siemens Industry, Inc.

Product Line: 600A to 1200A Siebreak Melis Switchgear

Identification Number: SIEBREAK-MELIS-B-1200A

UUT Function: Seibreak Melis Switchgear provides medium voltage circuit protection.

UUT Description: The unit is comprised of two NEMA 3R/12 carbon steel enclosures bolt together containing 1200A feeder bus with fuses and load interrupter switches.

UUT Component Description: NEMA1 carbon steel enclosure, 1200A copper feeder bus, fuses (023, 15-171-487-095), load interrupter switch (ML-800-003-007), voltage transformer (15-172-787-024, 15-172-787-117, 15-172-787-124), surge arresters (77-615-001-001, 77-615-001-046), and motor drive system (557-1206-5).

UUT PROPERTIES

Weight (lb)	Dimensions (inches)				Natural Fequency (Hz)		
	Width	Depth	Height	COG	FB	SS	V
5,330	72	72	105	49	7.25	6.69	14.49

SEISMIC TEST PARAMETERS

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
	2.50	0	1.5	-	-	1.67g	0.67g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT-4

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



Mounting Details: Floor mounted with 6 - 1/2" diameter grade 5 bolts (2 bolts in both front, middle and rear) with 1/4" seismic washers.



Manufacturer: Siemens Industry, Inc. DATE: 12/12/2022

Product Line: 600A to 1200A Siebreak Switchgear

Identification Number: SIEBREAK-A

UUT Function: SIEBREAK Switchgear provides medium voltage circuit protection.

UUT Description: The unit is comprised of one NEMA 1/1A/2 carbon steel enclosure containing 1200A feeder bus with vacuum circuit breakers and load interrupter switches.

UUT Component Description: NEMA1 carbon steel enclosure, 1200A copper feeder bus, vacuum circuit breaker (3AE5284-2), load interrupter switch (ML-510-001-500), current transformers (62-300-066-122), ground fault current transformers (61-300-092-500), voltage transformers (15-172-787-024), surge arresters (77-615-001-046), meter (77615000413), and relays (7UT85, SEL 787).

UUT PROPERTIES

Weight (lb)	Dimensions (inches)				Natural Fequency (Hz)		
	Width	Depth	Height	COG	FB	SS	V
2,633	36	72	92	49	11.37	7.32	23.91

SEISMIC TEST PARAMETERS

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
	2.50	0	1.5	-	-	1.67g	0.67g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT-5

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



Mounting Details: Floor mounted with 6 - 1/2" diameter grade 5 bolts (2 bolts in both front, middle and rear) with 1/4" seismic washers.



Manufacturer: Siemens Industry, Inc. DATE: 12/12/2022

Product Line: 600A to 1200A Siebreak Switchgear

Identification Number: SIEBREAK-A

UUT Function: SIEBREAK Switchgear provides medium voltage circuit protection.

UUT Description: The unit is comprised of one NEMA 1/1A/2 carbon steel enclosure containing 1200A feeder bus with vacuum circuit breakers and load interrupter switches.

UUT Component Description: NEMA1 carbon steel enclosure, 1200A copper feeder bus, vacuum circuit breaker (3AH3436-2), load interrupter switch (ML-800-003-007), current transformers (62-300-067-122), ground fault current transformers (15-172-875-500), control power transformers (15-172-867-014), surge arresters (77-615-001-046), meter (77615000416), relays (Multilin 760), and motor (557-1206-5).

UUT PROPERTIES

Weight (lb)	Dimensions (inches)				Natural Frequency (Hz)		
	Width	Depth	Height	COG	FB	SS	V
2,843	36	72	92	45	9.72	7.29	20.13

SEISMIC TEST PARAMETERS

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
	2.50	0	1.5	-	-	1.67g	0.67g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT-6

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



Mounting Details: Floor mounted with 4 - 1/2" diameter grade 5 bolts (2 bolts in both front and middle) with 1/4" seismic washers.



Manufacturer: Siemens Industry, Inc.

Product Line: 600A to 1200A Siebreak Switchgear

Identification Number: SIEBREAK-L

UUT Function: SIEBREAK Switchgear provides medium voltage circuit protection.

UUT Description: The unit is comprised of one NEMA 1/1A/2 carbon steel enclosure containing 1200A feeder bus with vacuum circuit breakers and load interrupter switches.

UUT Component Description: NEMA1 carbon steel enclosure, 1200A copper feeder bus, vacuum circuit breaker (3EA5284-2), load interrupter switch (ML-510-001-500), current transformers (62-300-067-122), and relays (7SJ80, SEL 751).

UUT PROPERTIES

Weight (lb)	Dimensions (inches)				Natural Frequency (Hz)		
	Width	Depth	Height	COG	FB	SS	V
2,009	36	56	92	43	10.87	6.83	21.34

SEISMIC TEST PARAMETERS

Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
	2.50	0	1.5	-	-	1.67g	0.67g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.