



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-0708

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Eaton Power Distribution & Controls Assemblies Division

Manufacturer's Technical Representative: Craig DePas

Mailing Address: 175 Vista Boulevard, Arden, NC 28704

Telephone: (414) 449-6037 Email: craighdepas@eaton.com

Product Information

Product Name: Enclosed Variable Frequency Drives

Product Model Number(s): See Product Range Summary

Product Category: Motor Control Centers

Product Sub-Category: Motor Control Centers - Low Voltage

General Description: Enclosed control assembly: Mohammad Karim

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: WE Gundy & Associates, Inc

Contact Person: Travis Soppe

Mailing Address: PO Box 9121, Boise, ID 83707

Telephone: (208) 342-5989 Email: tsoppe@wegai.com

Title: President



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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): _____

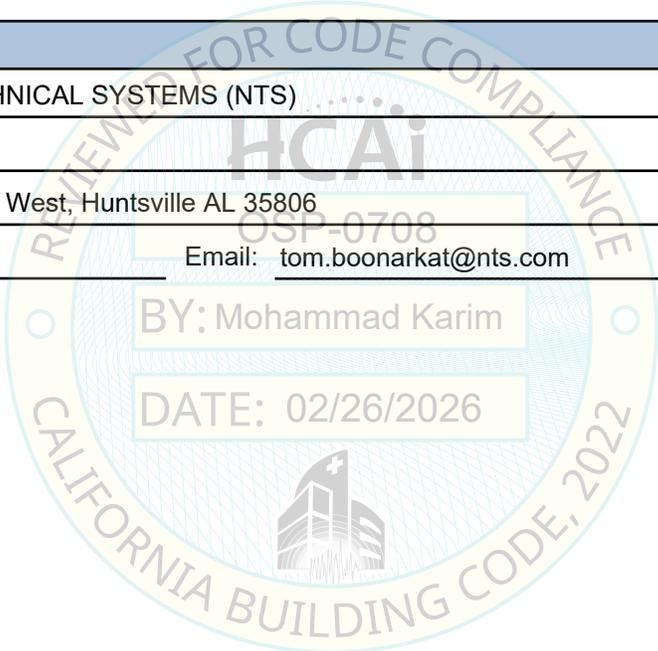
Testing Laboratory

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)

Contact Person: Tom Boonarkat

Mailing Address: 7800 Highway 20 West, Huntsville AL 35806

Telephone: (256) 837-4411 Email: tom.boonarkat@nts.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.28

SDS (Design spectral response acceleration at short period, g) = 1.70

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 02/26/2032

Date: 2/26/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 1.70 z/h = 1

Condition of Approval (if applicable): BY: Mohammad Karim

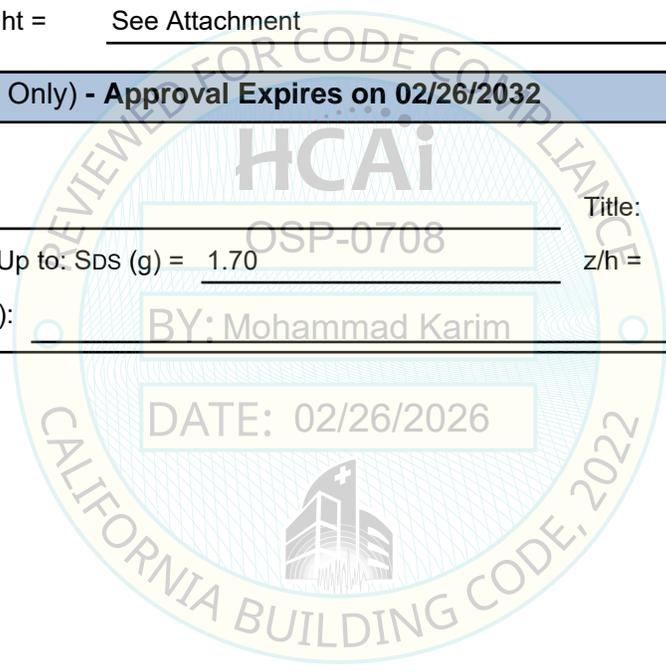


TABLE 1	EATON FLOOR MOUNTED ENCLOSED CONTROL VFD'S SEISMICALLY CERTIFIED COMPONENTS TABLE									
	Model Line	Model Number ¹	Power (HP)	NEMA ²	Enclosure Dimensions (in)			Max COG (in)	Weight (lbs)	Representative UUT ³
EATON FLOOR MOUNTED ENCLOSED VFD'S										
EGS,EGF,EHB,CFX,SVX	EGF2404C1300310000	250	1	31.0	26.0	83.0	38.5	950	Extrapolated	
	EGF2404C2300310000	250	12	31.0	26.0	83.0	38.5	950	Extrapolated	
	EGF2404C3300310000	250	3R	31.0	26.0	83.0	37.7	1024	UUT_y-15	
	EGF3024A112AC20000	250	1	40.0	36.0	93.5	42.0	1628	Interpolated	
	EGF3024A212AC20000	250	12	40.0	36.0	93.5	38.2	1628	UUT_y-11	
	EGF3024A312AC20000	250	3R	40.0	38.5	94.0	43.0	1728	Interpolated	
	EGF3024A11LGB20000	250	1	48.0	36.0	93.5	44.0	1625	Interpolated	
	EGF3024A21LGB20000	250	12	48.0	36.0	93.5	44.0	1625	Interpolated	
	EGF3024A31LGB20000	250	3R	48.0	38.5	94.0	44.7	1772	UUT_y-12	
EGP,CPX	CPX25064AA	1000	1	48.0	32.0	93.5	33.5	1924	UUT_z-13	
JCI BRAND LABELED FLOOR MOUNTED ENCLOSED VFD'S										
VS3-	VS3-200-C-N1D-0	250	1	31.0	26.0	83.0	38.5	950	Extrapolated	
	VS3-200-C-N2D-0	250	12	31.0	26.0	83.0	38.5	950	Extrapolated	
	VS3-200-C-N3D-0	250	3R	31.0	26.0	83.0	37.7	1024	UUT_y-15	
	VS3-250-C-N1B-3	250	1	40.0	36.0	93.5	42.0	1628	Interpolated	
	VS3-250-C-N2B-3	250	12	40.0	36.0	93.5	38.2	1628	UUT_y-11	
	VS3-250-C-N3B-3	250	3R	40.0	38.5	94.0	43.0	1728	Interpolated	
	VS3-250-C-N1B-3	250	1	48.0	36.0	93.5	44.0	1625	Interpolated	
	VS3-250-C-N2B-3	250	12	48.0	36.0	93.5	44.0	1625	Interpolated	
	VS3-250-C-N3B-3	250	3R	48.0	38.5	94.0	44.7	1772	UUT_y-12	
General Notes:										
¹ The model numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component with the tested units.										
² NEMA 1 / 12 / 3R enclosures are constructed of carbon steel and have the same construction with the difference being gasket material and shields for NEMA 3R / 12.										
³ Subscript indicates the test report in which the units were qualified: y - PR111727-TR-20 / z - PR123928-TR-20										

TABLE 2	EATON ENCLOSED CONTROL VFD'S CERTIFIED SUBCOMPONENTS TABLE		 W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING	
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT
Variable Frequency Drives				
DH1-324D8 / VS3D752	EATON / JCI	230V, 1HP, 4.8A	14	Extrapolated
DH1-326D6 / VS31D12	EATON / JCI	230V, 1.5HP, 6.6A	14	
DH1-327D8 / VS31D52	EATON / JCI	230V, 2HP, 7.8A	14	
DH1-32011 / VS32D22	EATON / JCI	230V, 3HP, 11A	14	
DH1-32012 / VS33D02	EATON / JCI	230V, 3HP, 12A	14	
DH1-343D3 / VS31D14	EATON / JCI	480V, 1.5HP, 3.3A	14	
DH1-344D3 / VS31D54	EATON / JCI	480V, 2HP, 4.3A	14	
DH1-345D6 / VS32D24	EATON / JCI	480V, 3HP, 5.6A	14	
DH1-347D6 / VS33D74	EATON / JCI	480V, 5HP, 7.6A	14	
DG1-349D0 / VS35D54	EATON / JCI	480V, 7.5HP, 9A	14	
DH1-34012	EATON	480V, 7.5HP, 12A	14	
DH1-354D5 / VS30035	EATON / JCI	575V, 3HP, 4.5A	14	
DH1-357D5 / VS30055	EATON / JCI	575V, 5HP, 7.5A	14	
DH1-35010 / VS37D55	EATON / JCI	575V, 7.5HP, 10A	14	
SVXF07A1-2	EATON	230V, 0.75HP, 3.7/4.8A	11	
SPXF07A1-2	EATON	230V, 0.75HP, 3.7/4.8A	11	
SVX001A1-2	EATON	230V, 1HP, 4.8/6.5A	11	
SPX001A1-2	EATON	230V, 1HP, 4.8/6.5A	11	
SVXF15A1-2	EATON	230V, 1.5HP, 6.6/7.8A	11	
SPXF15A1-2	EATON	230V, 1.5HP, 6.6/7.8A	11	
SVX002A1-2	EATON	230V, 2HP, 7.8/11A	11	
SPX002A1-2	EATON	230V, 2HP, 7.8/11A	11	
SVX003A1-2	EATON	230V, 3HP, 11/12.5A	11	
SPX003A1-2	EATON	230V, 3HP, 11/12.5A	11	
SVX001A1-4	EATON	480V, 1HP, 2.2/3.3A	11	
SPX001A1-4	EATON	480V, 1HP, 2.2/3.3A	11	
SVXF15A1-4	EATON	480V, 1.5HP, 3.3/4.3A	11	
SPXF15A1-4	EATON	480V, 1.5HP, 3.3/4.3A	11	
SVX002A1-4	EATON	480V, 2HP, 4.3/5.6A	11	
SPX002A1-4	EATON	480V, 2HP, 4.3/5.6A	11	
SVX003A1-4	EATON	480V, 3HP, 5.6/7.6A	11	
SPX003A1-4	EATON	480V, 3HP, 5.6/7.6A	11	
SVX005A1-4	EATON	480V, 5HP, 7.6A	11	
SPX005A1-4	EATON	480V, 5HP, 7.6A	11	
DG1-323D7	EATON	230V, 0.75HP, 3.7/4.8A	14	
DG1-324D8	EATON	230V, 1HP, 4.8/6.6A	14	
DG1-326D6	EATON	230V, 1.5HP, 6.6/7.8A	14	
DG1-327D8	EATON	230V, 2HP, 7.8/11A	14	
DG1-32011	EATON	230V, 3HP, 11A	14	
DG1-342D2	EATON	480V, 1HP, 2.2A	14	
DG1-343D3	EATON	480V, 1.5HP, 3.3A	14	
DG1-344D3	EATON	480V, 2HP, 4.3A	14	
DG1-345D6	EATON	480V, 3HP, 5.6A	14	
DG1-347D6	EATON	480V, 5HP, 7.6A	14	

TABLE 2

**EATON ENCLOSED CONTROL VFD'S
CERTIFIED SUBCOMPONENTS TABLE**



ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT
Variable Frequency Drives				
DG1-353D3	EATON	575V, 2HP, 3.3/4.5A	14	Extrapolated
DG1-354D5	EATON	575V, 3HP, 4.5/7.5A	14	
DG1-357D5	EATON	575V, 5HP, 7.5/10A	14	
SVX004A1-2	EATON	230V, 5HP, 17.5A	18	
SPX004A1-2	EATON	230V, 5HP, 17.5A	18	
SVX005A1-2	EATON	230V, 5HP, 17.5/25A	18	
SPX005A1-2	EATON	230V, 5HP, 17.5/25A	18	
SVX007A1-2	EATON	230V, 7.5HP, 25/31A	18	
SPX007A1-2	EATON	230V, 7.5HP, 25/31A	18	
SVX007A1-4	EATON	480V, 7.5HP, 12/16A	18	
SPX007A1-4	EATON	480V, 7.5HP, 12/16A	18	
SVX010A1-4	EATON	480V, 10HP, 16/23A	18	
SPX010A1-4	EATON	480V, 10HP, 16/23A	18	
SVX015A1-4	EATON	480V, 15HP, 23/31A	18	
SPX015A1-4	EATON	480V, 15HP, 23/31A	18	
DG1-32017	EATON	230V, 5HP, 12.5/25A	23	
DG1-32025	EATON	230V, 7.5HP, 25/31A	23	
DG1-34012	EATON	480V, 7.5HP, 12/16A	23	
DG1-34016	EATON	480V, 10HP, 16/23A	23	
DG1-34023	EATON	480V, 15HP, 23/31A	23	
DG1-35010	EATON	575V, 7.5HP, 10/13A	23	
DG1-35013	EATON	575V, 10HP, 13/18A	23	
DG1-35018	EATON	575V, 15HP, 18/22A	23	
DG1-32012	EATON	230V, 5HP, 12.5/17.5A	23	
DH1-32017 / VS33D72	EATON / JCI	230V, 5HP, 17.5A	23	
DH1-32025 / VS35D52	EATON / JCI	230V, 7.5HP, 25A	23	
DH1-32031 / VS37D52	EATON / JCI	230V, 10HP, 31A	23	
DH1-34016 / VS37D54	EATON / JCI	480V, 10HP, 16A	23	
DH1-34023 / VS30114	EATON / JCI	480V, 15HP, 23A	23	
DH1-34031 / VS30154	EATON / JCI	480V, 20HP, 31A	23	
DH1-35013 / VS30105	EATON / JCI	575V, 10HP, 13A	23	
DH1-35018 / VS30155	EATON / JCI	575V, 15HP, 18A	23	
DH1-35022 / VS30205	EATON / JCI	575V, 20HP, 22A	23	
SVX010A1-2	EATON	230V, 10HP, 31/48A	41	
SPX010A1-2	EATON	230V, 10HP, 31/48A	41	
SVX015A1-2	EATON	230V, 15HP, 48/61A	41	
SPX015A1-2	EATON	230V, 15HP, 48/61A	41	
SVX020A1-4	EATON	480V, 20HP, 31/38A	41	
SPX020A1-4	EATON	480V, 20HP, 31/38A	41	
SVX025A1-4	EATON	480V, 25HP, 38/46A	41	
SPX025A1-4	EATON	480V, 25HP, 38/46A	41	
SVX030A1-4	EATON	480V, 30HP, 46/61A	41	
SPX030A1-4	EATON	480V, 30HP, 46/61A	41	
SVX002A1-5	EATON	575V, 2HP, 3.3/4.5A	41	

TABLE 2	EATON ENCLOSED CONTROL VFD'S CERTIFIED SUBCOMPONENTS TABLE		 W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING	
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT
Variable Frequency Drives				
SPX002A1-5	EATON	575V, 2HP, 3.3/4.5A	41	Extrapolated
SVX003A1-5	EATON	575V, 3HP, 4.5/7.5A	41	
SPX003A1-5	EATON	575V, 3HP, 4.5/7.5A	41	
SVX005A1-5	EATON	575V, 5HP, 7.5/10A	41	
SPX005A1-5	EATON	575V, 5HP, 7.5/10A	41	
SVX007A1-5	EATON	575V, 7.5HP, 10/13.5A	41	
SPX007A1-5	EATON	575V, 7.5HP, 10/13.5A	41	
SVX010A1-5	EATON	575V, 10HP, 13.5/18A	41	
SPX010A1-5	EATON	575V, 10HP, 13.5/18A	41	
SVX015A1-5	EATON	575V, 15HP, 18/22A	41	
SPX015A1-5	EATON	575V, 15HP, 18/22A	41	
SVX020A1-5	EATON	575V, 20HP, 22/27A	41	
SPX020A1-5	EATON	575V, 20HP, 22/27A	41	
SVX025A1-5	EATON	575V, 25HP, 27/34A	41	
SPX025A1-5	EATON	575V, 25HP, 27/34A	41	
DG1-32031	EATON	230V, 10HP, 31/48A	50	
DG1-32048	EATON	230V, 15HP, 48/61A	50	
DG1-34031	EATON	480V, 20HP, 31/38A	50	
DG1-34038	EATON	480V, 25HP, 38/46A	50	
DG1-34046	EATON	480V, 30HP, 46/61A	50	
DG1-35022	EATON	575V, 20HP, 22/27A	50	
DG1-35027	EATON	575V, 25HP, 27/34A	50	
DG1-35034	EATON	575V, 30HP, 34/41A	50	
DH1-32048 / VS30152	EATON / JCI	230V, 15HP, 48A	50	
DH1-32061 / VS30202	EATON / JCI	230V, 20HP, 61A	50	
DH1-34038 / VS30254	EATON / JCI	480V, 25HP, 38A	50	
DH1-34046 / VS30304	EATON / JCI	480V, 30HP, 46A	50	
DH1-34061 / VS30404	EATON / JCI	480V, 40HP, 61A	50	
DH1-35027 / VS30255	EATON / JCI	575V, 25HP, 27A	50	
DH1-35034 / VS30305	EATON / JCI	575V, 30HP, 34A	50	
DH1-35041 / VS30405	EATON / JCI	575V, 40HP, 41A	50	
DG1-32061	EATON	230V, 20HP, 61/75A	78	
SVX020A1-2	EATON	230V, 20HP, 61/75A	78	
SPX020A1-2	EATON	230V, 20HP, 61/75A	78	
DG1-32075	EATON	230V, 25HP, 75/88A	78	
SVX025A1-2	EATON	230V, 25HP, 75/88A	78	
SPX025A1-2	EATON	230V, 25HP, 75/88A	78	
DG1-32088	EATON	230V, 30HP, 88/114A	78	
SVX030A1-2	EATON	230V, 30HP, 88/114A	78	
SPX030A1-2	EATON	230V, 30HP, 88/114A	78	
DG1-34061	EATON	480V, 40HP, 61/72A	78	
SVX040A1-4	EATON	480V, 40HP, 61/72A	78	
SPX040A1-4	EATON	480V, 40HP, 61/72A	78	
DG1-34072	EATON	480V, 50HP, 72/87A	78	

TABLE 2	EATON ENCLOSED CONTROL VFD'S CERTIFIED SUBCOMPONENTS TABLE		 WEGAI <small>W.E. GUNDY & ASSOCIATES, INC.</small> <small>STRUCTURAL & EARTHQUAKE ENGINEERING</small>	
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT
Variable Frequency Drives				
SVX050A1-4	EATON	480V, 50HP, 72/87A	78	Extrapolated
SPX050A1-4	EATON	480V, 50HP, 72/87A	78	
DG1-34087	EATON	480V, 60HP, 87/105A	78	
SVX060A1-4	EATON	480V, 60HP, 87/105A	78	
SPX060A1-4	EATON	480V, 60HP, 87/105A	78	
SVX030A1-5	EATON	575V, 30HP, 34/41A	78	
SPX030A1-5	EATON	575V, 30HP, 34/41A	78	
DG1-35041	EATON	575V, 40HP, 41/52A	78	
SVX040A1-5	EATON	575V, 40HP, 41/52A	78	
SPX040A1-5	EATON	575V, 40HP, 41/52A	78	
DG1-35052	EATON	575V, 50HP, 52/62A	78	
DG1-35062	EATON	575V, 60HP, 62/80A	78	
DH1-32075 / VS30252	EATON / JCI	230V, 25HP, 75A	78	
DH1-32088 / VS30302	EATON / JCI	230V, 30HP, 88A	78	
DH1-32114 / VS30402	EATON / JCI	230V, 40HP, 114A	78	
DH1-34072 / VS30504	EATON / JCI	480V, 50HP, 72A	78	
DH1-34087 / VS30604	EATON / JCI	480V, 60HP, 87A	78	
DH1-34105 / VS30754	EATON / JCI	480V, 75HP, 105A	78	
DH1-35052 / VS30505	EATON / JCI	575V, 50HP, 52A	78	
DH1-35062 / VS30605	EATON / JCI	575V, 60HP, 62A	78	
DH1-35080 / VS30755	EATON / JCI	575V, 75HP, 80A	78	
SVX040A1-2	EATON	230V, 40HP, 114/140A	128	
SPX040A1-2	EATON	230V, 40HP, 114/140A	128	
SVX050A1-2	EATON	230V, 50HP, 140/170A	128	
SPX050A1-2	EATON	230V, 50HP, 140/170A	128	
SVX060A1-2	EATON	230V, 60HP, 170/205A	128	
SPX060A1-2	EATON	230V, 60HP, 170/205A	128	
SVX075A1-4	EATON	480V, 75HP, 105/140A	128	
SPX075A1-4	EATON	480V, 75HP, 105/140A	128	
SVX100A1-4	EATON	480V, 100HP, 140/170A	128	
SPX100A1-4	EATON	480V, 100HP, 140/170A	128	
SVX125A1-4	EATON	480V, 125HP, 170/205A	128	
SPX125A1-4	EATON	480V, 125HP, 170/205A	128	
SVX050A1-5	EATON	575V, 50HP, 52/62A	128	
SPX050A1-5	EATON	575V, 50HP, 52/62A	128	
SVX060A1-5	EATON	575V, 60HP, 62/80A	128	
SPX060A1-5	EATON	575V, 60HP, 62/80A	128	
SVX075A1-5	EATON	575V, 75HP, 80/100A	128	
SPX075A1-5	EATON	575V, 75HP, 80/100A	128	
DG1-32114	EATON	230V, 40HP, 114/143A	154	
DG1-32143	EATON	230V, 50HP, 143/170A	154	
DG1-32170	EATON	230V, 60HP, 170/211A	154	
DG1-34105	EATON	480V, 75HP, 105/140A	154	
DG1-34140	EATON	480V, 100HP, 140/170A	154	

TABLE 2	EATON ENCLOSED CONTROL VFD'S CERTIFIED SUBCOMPONENTS TABLE		 W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING	
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT
Variable Frequency Drives				
DG1-34170	EATON	480V, 125HP, 170/205A	154	Extrapolated
DG1-35080	EATON	575V, 75HP, 80/100A	154	
DG1-35100	EATON	575V, 100HP, 100/125A	154	
DG1-35125	EATON	575V, 125HP, 125/144A	154	
DH1-32143 / VS30502	EATON / JCI	230V, 50HP, 143A	154	
DH1-32170 / VS30602	EATON / JCI	230V, 60HP, 170A	154	
DH1-32211 / VS30752	EATON / JCI	230V, 75HP, 211A	154	
DH1-34140 / VS31004	EATON / JCI	480V, 100HP, 140A	154	
DH1-34170 / VS31254	EATON / JCI	480V, 125HP, 170A	154	
DH1-34205 / VS31504	EATON / JCI	480V, 150HP, 205A	154	
DH1-35100 / VS31005	EATON / JCI	575V, 100HP, 100A	154	
DH1-35125 / VS31255	EATON / JCI	575V, 125HP, 125A	154	
DH1-35144 / VS31505	EATON / JCI	575V, 150HP, 144A	154	
DG1-32211	EATON	230V, 75HP, 211/248A	281	
DG1-32248	EATON	230V, 100HP, 248/312A	281	
DG1-34205	EATON	480V, 150HP, 205/245A	281	
DG1-34245 / VS32004	EATON / JCI	480V, 200HP, 245/310A	281	UUT_y-11,12,15
DG1-35144	EATON	575V, 150HP, 144/208A	281	Interpolated
DG1-35208	EATON	575V, 200HP, 208/250A	281	
DH1-32261 / VS31002	EATON / JCI	230V, 100HP, 261A	281	
DH1-32312 / VS31252	EATON / JCI	230V, 125HP, 312A	281	
DH1-34261	EATON	480V, 200HP, 2245A	281	
DH1-34310 / VS32504	EATON / JCI	480V, 250HP, 310A	281	
DH1-35208 / VS32005	EATON / JCI	575V, 200HP, 208A	281	
DH1-35250 / VS32505	EATON / JCI	575V, 250HP, 250A	281	
SVX075A1-2	EATON	230V, 75HP, 205/261A	322	
SPX075A1-2	EATON	230V, 75HP, 205/261A	322	
SVX100A1-2	EATON	230V, 100HP, 261A	322	
SPX100A1-2	EATON	230V, 100HP, 261A	322	
SVX100A1-5	EATON	575V, 100HP, 100/125A	322	
SPX100A1-5	EATON	575V, 100HP, 100/125A	322	
SVX125A1-5	EATON	575V, 125HP, 125/144A	322	
SPX125A1-5	EATON	575V, 125HP, 125/144A	322	
SVX150A1-5	EATON	575V, 150HP, 144/170A	322	
SPX150A1-5	EATON	575V, 150HP, 144/170A	322	
SVX175A1-5	EATON	575V, 175HP, 170/208A	322	
SPX175A1-5	EATON	575V, 175HP, 170/208A	322	
SVX150A1-4	EATON	480V, 150HP, 205A	322	
SPX150A1-4	EATON	480V, 150HP, 205A	322	
SVX200A1-4	EATON	480V, 200HP, 245A	322	
SPX200A1-4	EATON	480V, 200HP, 245A	322	UUT_z-13

TABLE 2	EATON ENCLOSED CONTROL VFD'S CERTIFIED SUBCOMPONENTS TABLE			 W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING	
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT	
Circuit Protection - Circuit Breakers					
F	Eaton	225 Amps	4.5	Extrapolated	
PD2	Eaton	225 Amps	4.5		
KDC3400	Eaton	400 Amps	11.5	UUT_y-11,12,15	
PD3	Eaton	400 Amps	11.5	Interpolated	
K	Eaton	400 Amps	11.5		
HKD3400	Eaton	400 Amps	11.5	UUT_z-13	
Contactors					
XTCE040D	Eaton	63 Amps	2.4	Extrapolated	
XTCE050D	Eaton	80 Amps	2.4		
XTCE065D	Eaton	88 Amps	2.4		
XTCE072D	Eaton	88 Amps	2.4		
XTCE080F	Eaton	125 Amps	4.6		
XTCE095F	Eaton	125 Amps	4.6		
XTCE115G	Eaton	180 Amps	4.6	UUT_y-15	
XTCE150G	Eaton	225 Amps	4.6	Interpolated	
XTCE170G	Eaton	225 Amps	4.6		
XTCE185H	Eaton	250 Amps	7.1		
XTCE225H	Eaton	250 Amps	7.1		
XTCE185L	Eaton	225 Amps	14.3		
XTCE225L	Eaton	250 Amps	14.3		
XTCE250L	Eaton	350 Amps	14.3		
XTCE350L	Eaton	350 Amps	14.3		
XTCE400M	Eaton	450 Amps	18.0		
XTCE500M	Eaton	550 Amps	18.0		
XTCE300M	Eaton	350 Amps	18.0	UUT_y-11,12,15	
Control Power Transformers					
C0050	Eaton	50 Volt-amperes	2.9	Extrapolated	
C0150	Eaton	150 Volt-amperes	8.1		
C0250	Eaton	250 Volt-amperes	14.1		
C0350	Eaton	350 Volt-amperes	17.0	UUT_y-11,12	
C0500	Eaton	500 Volt-amperes	23.6	UUT_y-15	
C0750	Eaton	750 Volt-amperes	28.3	UUT_z-13	
Filters					
V1K2A00	TCI	2 Amps	8.0	Extrapolated	
V1K3A00	TCI	3 Amps	8.0		
V1K4A00	TCI	4 Amps	8.0		
V1K6A00	TCI	6 Amps	8.0		
V1K8A00	TCI	8 Amps	8.0		
V1K12A00	TCI	12 Amps	8.0		
V1K16A00	TCI	16 Amps	12.0		
V1K18A00	TCI	18 Amps	12.0		
V1K21A00	TCI	21 Amps	12.0		
V1K25A00	TCI	25 Amps	12.0		
Filters					

TABLE 2	EATON ENCLOSED CONTROL VFD'S CERTIFIED SUBCOMPONENTS TABLE			 W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING	
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT	
V1K27A00	TCI	27 Amps	14.0	Extrapolated	
V1K35A00	TCI	35 Amps	17.0		
V1K45A00	TCI	45 Amps	17.0		
V1K55A00	TCI	55 Amps	16.0		
V1K80A00	TCI	80 Amps	23.0		
V1K110A00	TCI	110 Amps	40.0		
V1K130A00	TCI	130 Amps	55.0		
V1K160A00	TCI	160 Amps	60.0		
V1K200A00	TCI	200 Amps	60.0		
V1K250A00	TCI	250 Amps	65.0		
HGP0040AW0C0000	TCI	52 Amps	125.0	Interpolated	
HGP0050AW0C0000	TCI	65 Amps	135.0		
HGP0060AW0C0000	TCI	77 Amps	140.0		
HGP0075AW0C0000	TCI	96 Amps	145.0		
HGP0100AW0C0000	TCI	124 Amps	205.0		
HGP0125AW0C0000	TCI	156 Amps	225.0		
HGP0150AW0C0000	TCI	180 Amps	265.0		
HGP0200AW0C0000	TCI	240 Amps	350.0	UUT_y-12	
HGP0250AW0C0000	TCI	302 Amps	360.0	UUT_z-13	
HGP0300AW0C0000	TCI	361 Amps	490.0	Interpolated	
HGP0350AW0C0000	TCI	414 Amps	640.0		
HGP0400AW0C0000	TCI	477 Amps	690.0	UUT_y-11	
Power Transformer Assembly					
42-6370-A250	Norlake	110 Amps	4.5	UUT_z-13	
Rectifier Assembly					
CPXRECT-FR9X	Eaton	250 Hp	10.0	UUT_z-13	

UUT_y-11

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



Mounting Details: Rigid floor mounted with (6) 1/2" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Industrial Control Panels	Test Date: February 10 th – 18 th , 2020
Component: EGF3024A212AC20000 VS3-250-C-N2B-3 JCI Brand Label	Report Number: PR111727-TR-20

UUT Function: Control, protection, and isolation of electrical equipment

UUT Description: Control panel with NEMA 12 frame, DG1-34245 / VS32004 Eaton / JCI VFD, KDC3400 Circuit Breaker, XTCE300M Contactor, C0350 Control Power Transformer, and TCI HG0400AW0C0000 Passive Filter

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,628	40.0	36.0	93.5	6.5	6.7	>33

SEISMIC TEST PARAMETERS

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 2022 / ICC-ES AC156	2.25	1.0	1.5	3.60	2.70	1.51	0.61

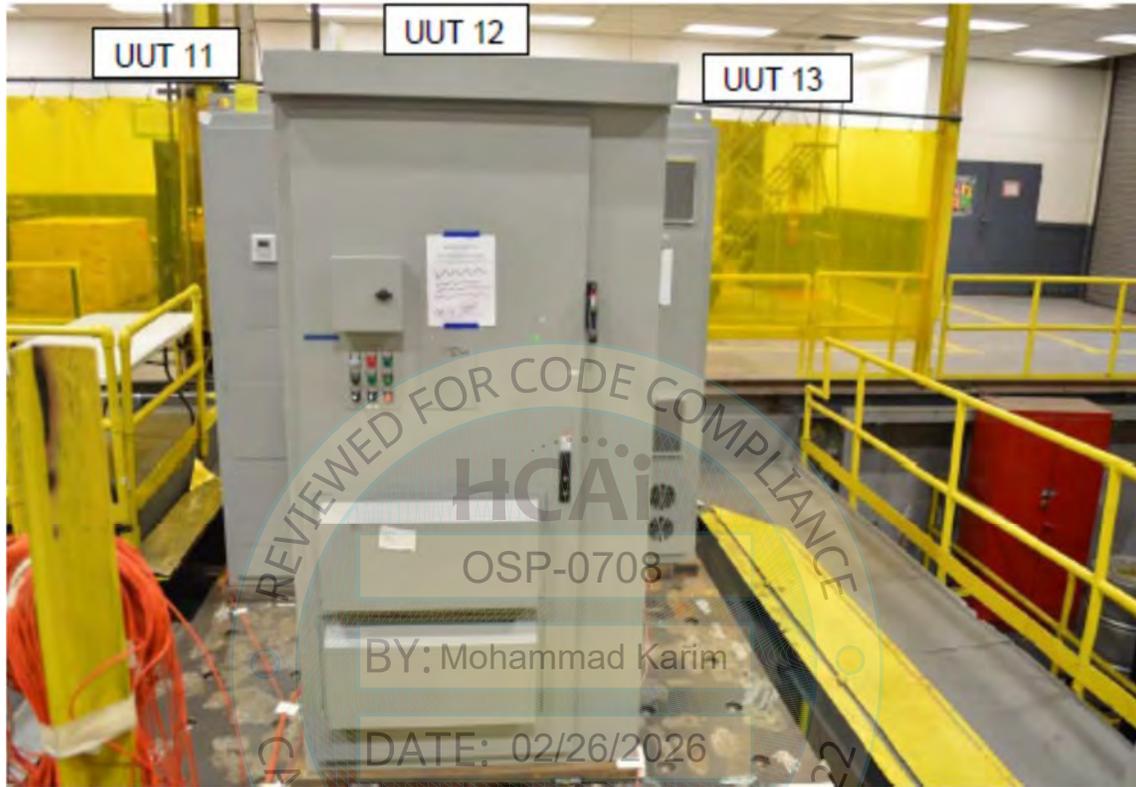
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_y-12

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



Mounting Details: Rigid floor mounted with (6) 1/2" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Industrial Control Panels	Test Date: February 10 th – 18 th , 2020
Component: EGF3024A31LGB20000 VS3-250-C-N3B-3 JCI Brand Label	Report Number: PR111727-TR-20

UUT Function: Control, protection, and isolation of electrical equipment

UUT Description: Control panel with NEMA 3R frame, DG1-34245 / VS32004 Eaton / JCI VFD, KDC3400 Circuit Breaker, XTCE300M Contactor, C0350 Control Power Transformer, TCI V1K250A00 Filter, and TCI HGP0200AWOC0000 Passive Filter

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,772	48.0	38.5	94.0	6.5	9.5	>33

SEISMIC TEST PARAMETERS

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 2022 / ICC-ES AC156	2.25	1.0	1.5	3.60	2.70	1.51	0.61

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_z-13

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



Mounting Details: Rigid floor mounted with (5) 1/2" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Industrial Control Panels	Test Date: September 29 th – 30 th , 2020
Component: CPX25064AA	Report Number: TR-PR123928-TR-20

UUT Function: Control, protection, and isolation of electrical equipment

UUT Description: Control panel with NEMA 1 frame, SPX200A1-4 Eaton VFD, HKD3400 Circuit Breaker, C0750 Control Power Transformer, TCI HGP0250AW0C0000 Filter, Norlake 42-6370-A250 Power Transformer, and CPXRECT-FR9X Rectifier with 18 Pulse Clean Power

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,924	48.0	32.0	93.5	4.0	6.0	25.0

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	SDS (g)	z / h	I _p	A _{FLX-H} (g)	A _{RIg-H} (g)	A _{FLX-V} (g)	A _{RIg-V} (g)
CBC 2022 / ICC-ES AC156	1.75	1.0	1.5	2.80	2.10	1.17	0.47

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_y-15

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



Mounting Details: Rigid floor mounted with (8) 3/8" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Industrial Control Panels	Test Date: February 10 th – 18 th , 2020
Component: EGF2404C330031000D VS3-200-C-N3D-0 JCI Brand Label	Report Number: PR111727-TR-20

UUT Function: Control, protection, and isolation of electrical equipment

UUT Description: Control panel with NEMA 3R frame, DG1-34245 / VS32004 Eaton / JCI VFD, KDC3400 Circuit Breaker, XTCE115G / XTCE300M Contactors, C0500 Control Power Transformer, and TCI HGP0150AW0C0000 Passive Filter

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,024	31.0	26.0	83.0	3.5	5.2	27.0

SEISMIC TEST PARAMETERS

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 2022 / ICC-ES AC156	1.70	1.0	1.5	2.72	2.04	1.14	0.46

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.