



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-0011

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Eaton

Manufacturer's Technical Representative: Dallas Bostian

Mailing Address: 3990 Old Tasso Road NE, Cleveland, TN 37312

Telephone: (423) 472-0238 Email: dallasjbostian@eaton.com

Product Information

Product Name: Elevator Control Switches

Product Model Number(s): See attachments

Product Category: Elevator Equipment

Product Sub-Category: Elevator Controllers

General Description: Switch assemblies used for the controlled shut down of single or multiple elevator units. Providing appropriate interface controls and relays to the fire alarm system. Unit or group mounted, 30-1200A, 3-phase, 600 Vac maximum, NEMA 1, 3R, and 4 enclosures.

Mounting Description: Wall 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

BY: Mohammad Karim

DATE: 12/31/2025



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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 2.03

Sds (Design spectral response acceleration at short period, g) = 2.70

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 12/30/2031

Date: 12/31/2025

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: Sds (g) = 2.7 z/h = 1

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

DATE: 12/31/2025


TABLE 1		EATON ELEVATOR CONTROL SWITCHES CERTIFIED PRODUCT LINE MATRIX					 W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING	
Identification Number ^{1,2}	Ampreage	³ NEMA Rating	Dimensions (in)			Weight (lb)	Representative UUT	
			Width	Depth	Height			
ES1T1R1F1B	30A	1	17.25	11.5	29.75	51	UUT-1	
ES1xxxxxxx	30A	1 / 3R / 4	17.25	11.5	29.75	51	extrapolated	
ESC1xxxxxxx	30A	1 / 3R / 4	17.25	11.5	29.75	51	extrapolated	
ES2xxxxxxx	60A	1 / 3R / 4	17.25	11.5	29.75	60	extrapolated	
ESC2xxxxxxx	60A	1 / 3R / 4	17.25	11.5	29.75	60	extrapolated	
ES3xxxxxxx	100A	1 / 3R / 4	17.25	11.5	29.75	60	extrapolated	
ESC3xxxxxxx	100A	1 / 3R / 4	17.25	11.5	29.75	60	extrapolated	
ES4xxxxxxx	200A	1 / 3R / 4	21.50	11.5	32.75	76	extrapolated	
ESC4xxxxxxx	200A	1 / 3R / 4	21.50	11.5	32.75	76	extrapolated	
ES5xxxxxxx	400A	1 / 3R / 4	26.75	11.5	54.50	142	interpolated	
ES5T1R1GF3B	400A	1	26.75	11.5	54.50	142	UUT-19	
ECP-400A	400A	1	40.00	11.5	57.00	400	interpolated	
ECP-600A	600A	1	40.00	11.5	73.75	460	interpolated	
ECP-800A	800A	1	40.00	11.5	90.00	530	interpolated	
ECP-1200A	1200A	1	40.00	12.0	90.00	582	interpolated	
ECP-1200A SM060812-001	1200A	1	40.50	12.0	90.25	582	UUT-2	
Notes: ¹ All components are manufactured by Eaton and the part numbers listed uniquely identify type of component, manufacturer, and material of construction for each sub-component within the tested unit. ² The 400A-1200A configurations are engineered to order and utilize a unique model numbers for each project. ³ All enclosures are constructed of carbon steel. NEMA 3R / 4 enclosures are structurally identical to the NEMA 1 enclosure with the inclusion of gasket material for the door and seams.								
SEISMIC CERTIFICATION LIMITS								
System Component	Code	S _{DS} (g)	z / h	I _p	a _p	R _p	Ω ₀	F _p / W _p
Elevator Control Switch	CBC 2022	2.70	1	1.50	2.5	6.0	2.0	2.03

TABLE 2		EATON ELEVATOR CONTROL SWITCHES CERTIFIED SUBCOMPONENT MATRIX			
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT	
Molded Case Switch (Single)					
F: 6629C85G10	EATON	30A	5	UUT-1	
F	EATON	30-200A	5	Interpolated	
LG	EATON	400A	16	Interpolated	
LG: LGK3400KSG	EATON	400A	16	UUT-19	
Molded Case Switch (Twins)					
FDPB3601JSA	EATON	Blank/30A	22	UUT-2	
FDPB3602JSA	EATON	Blank/60A	22	Interpolated	
FDPB3603JSA	EATON	Blank/100A	22	Interpolated	
FDPB3604JSA	EATON	Blank/200A	22	Interpolated	
FDPB3611JSA	EATON	30A	26	Interpolated	
FDPB3612JSA	EATON	30/60A	26	Interpolated	
FDPB3613JSA	EATON	30/100A	26	Interpolated	
FDPB3614JSA	EATON	30/200A	29	Interpolated	
FDPB3622JSA	EATON	60A	26	Interpolated	
FDPB3623JSA	EATON	60/100A	26	Interpolated	
FDPB3624JSA	EATON	60/200A	29	Interpolated	
FDPB3633JSA	EATON	100A	26	UUT-2	
FDPB3634JSA	EATON	100/200A	29	Interpolated	
FDPB3644JSA	EATON	200A	32	UUT-2	
Control Relays					
D5PR3A-A3	EATON	120 Vac	< 1	UUT-1	
D5PR3T1	EATON	24 Vdc	< 1	Interpolated	
D5PR3A-A3	EATON	120 Vac	< 1	UUT-19	
2961419	PHOENIX	120 Vac	< 1	UUT-2	
Control Power Transformers					
C0100E5EFB	EATON	100VA	6	UUT-1/2/19	

UUT-1

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (4) 3/8" grade 5 bolts.



Manufacturer: Eaton

Test Location: Wyle Lab, Huntsville AL

Product Line: Elevator Control Switches

Test Date: June 18-22, 2012

Component: ES1T1R1F1B

Report Number: 70282R12

UUT Function: Power interruption for equipment and circuit protection

UUT Description: 30A elevator control switch configuration in wall mounted NEMA 1 enclosure, Relay (D5PR3A-A3), Transformer (C0100E5EFB), Molded Case Switch (F: 6629C85G10)

UUT PROPERTIES

Weight (lb)	Enclosure Box Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
51	17.25	11.5	29.75	NA	NA	NA

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	2.70	1	1.5	4.32	3.24	1.81	0.73

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: Rigid wall mounted with (4) 1/2" grade 5 bolts.



Manufacturer: Eaton

Test Location: Wyle Lab, Huntsville AL

Product Line: Elevator Control Switches

Test Date: June 18-22, 2012

Component: ECP-1200 / SM060812-001

Report Number: 70282R12

UUT Function: Power interruption for equipment and circuit protection

UUT Description: 30A elevator control switch configuration in wall mounted NEMA 1 enclosure, Molded Case Switch Assemblies (FDPB3612JSA, FDPB3633JSA, FDPB3644JSA), Control Transformer (D0100E5EFB), Relay (2961419)

UUT PROPERTIES

Weight (lb)	Enclosure Box Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
582	40.5	12.0	90.25	NA	NA	NA

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	2.70	1	1.5	4.32	3.24	1.81	0.73

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-19

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (4) 1/2" grade 5 bolts.



Manufacturer: Eaton				Test Location: Wyle Lab, Huntsville AL				
Product Line: Elevator Control Switches				Test Date: June 18-22, 2012				
Component: ES5T1RGF3B				Report Number: 70282R12				
UUT Function: Power interruption for equipment and circuit protection								
UUT Description: 400A elevator control switch configuration in wall mounted NEMA 1 enclosure, Relay (D5PR3A-A3), Transformer (C0100E5EFB), Molded Case Switch (LGK3400KSG)								
UUT PROPERTIES								
Weight (lb)	Enclosure Box Dimensions (inches)			Natural Frequency (Hz)				
	Width	Depth	Height	FB	SS	V		
142	26.75	11.5	54.5	NA	NA	NA		
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		2.70	1	1.5	4.32	3.24	1.81	0.73
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.								