



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0338

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Eaton

Manufacturer's Technical Representative: Art Jur

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

Telephone: (423) 478-0201

Email: ArtJJur@eaton.com

Product Information

Product Name: Switchgear/Switchboards

Product Type: Switchboards

Product Model Number: Enclosed Circuit Breakers

General Description: Enclosed molded case circuit breakers, 100-1200A. NEMA Type 1, 3R, 4X and 12 enclosures.

Mounting Description: Rigid, Wall Mounted

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: WE Gundy & Associates, Inc

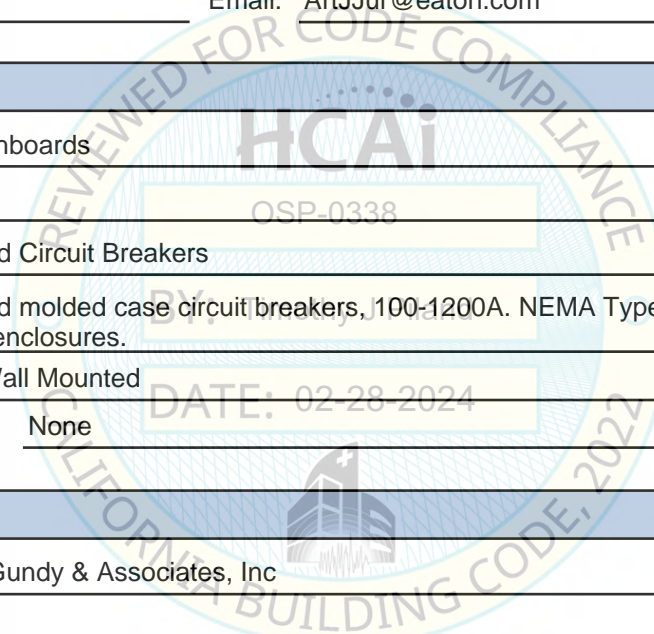
Contact Person: Travis Soppe

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): _____

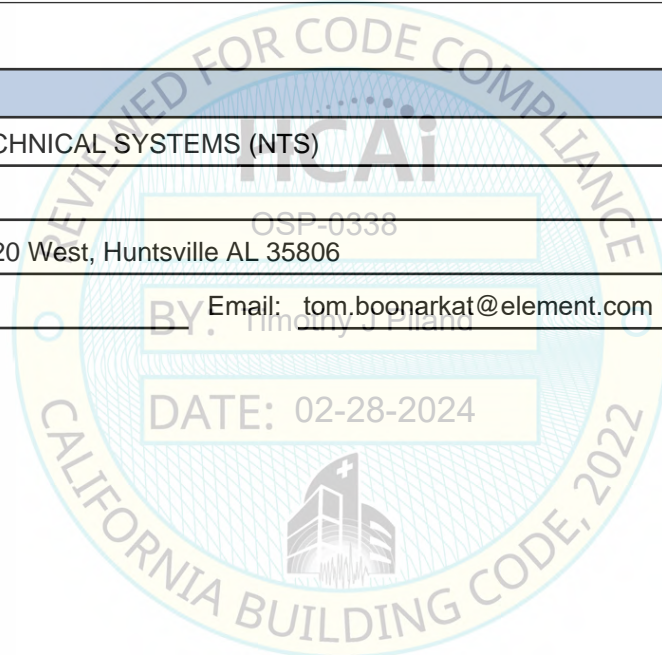
Testing Laboratory

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)

Contact Person: Tom Boonarkat

Mailing Address: 7800 Highway 20 West, Huntsville AL 35806

Telephone: (256) 716-4520 Email: tom.boonarkat@element.com





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Seismic Parameters

Design Basis of Equipment or Components (Fp/Wp) = 1.88
SDS (Design spectral response acceleration at short period, g) = 2.50
ap (Amplification factor) = 2.5
Rp (Response modification factor) = 6.0
Omega (System overstrength factor) = 2.0
Ip (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 02/28/2030
Date: 2/28/2024
Name: Timothy Piland
Special Seismic Certification Valid Up to: SDS (g) = 2.50
Condition of Approval (if applicable):

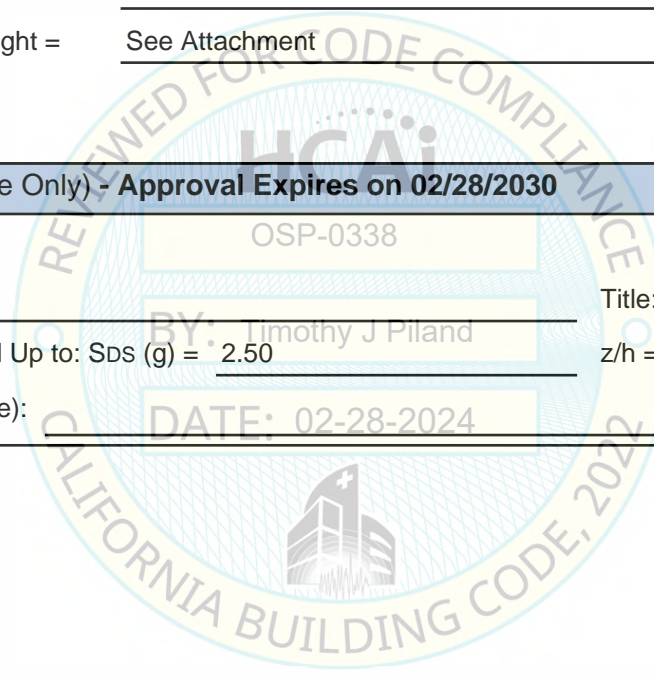


TABLE 1	EATON ENCLOSED CIRCUIT BREAKERS SEISMIC CERTIFICATION PRODUCT LINE						 W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING	
	Seismic Certification Limits: $S_{DS} = 2.50$ at $z/h = 1$: $F_p = 1.88g$							
Identification ¹	Amperage	Breaker Frame	Enclosure Type and Dimensions (in)				Weight (lbs)	Representative UUT ³
			NEMA ²	Width	Depth	Height		
SGDN100	100	G	1	8.6	6.3	17.5	12	extrapolated
FFDN100	100	F	1	9.7	6.3	18.8	12	extrapolated
SFDN100	100	F	1	9.1	5.2	19.1	13	extrapolated
SFD100E	100	F (ELCB)	1	8.6	6.3	23.3	15	extrapolated
FFD100E	100	F (ELCB)	1	9.7	6.3	24.6	15	extrapolated
SFDN225	225	F	1	8.6	6.3	23.3	15	extrapolated
FFDN225	225	F	1	9.7	6.3	24.6	15	extrapolated
RGDN100	100	G	3R	9.2	9.3	19.9	16	extrapolated
JGDN100	100	G	12	9.2	9.3	19.9	16	extrapolated
JFDN100	100	F	12	9.2	9.3	19.9	16	extrapolated
WFDN100	100	F	4X	8.8	9.3	19.9	16	extrapolated
WGDN100	100	G	4X	8.8	9.3	19.9	16	extrapolated
FPD1K0125	125	1	1	8.0	5.1	18.4	18	UUT_y - 4
SPD2J0225	225	2	1	8.0	5.2	22.8	18	interpolated
SPD2K0225	225	2	1	8.0	5.2	22.8	18	interpolated
FPD2J0225	225	2	1	8.0	5.2	22.8	18	interpolated
FPD2K0225	225	2	1	8.0	5.2	22.8	18	interpolated
SPD1K0125	125	1	1	8.0	5.1	18.4	19	UUT_y - 2
RFDN100	100	F	3R	9.2	9.3	25.7	19	interpolated
RFDN100E	100	F (ELCB)	3R	9.2	9.3	19.9	19	interpolated
JFDN100E	100	F (ELCB)	12	9.2	9.3	19.9	19	interpolated
RFDN225	225	F	3R	9.2	9.3	25.7	19	interpolated
JFDN225	225	F	12	9.2	9.3	25.7	19	interpolated
RPD1J0125	125	1	3R	8.0	5.6	18.5	20	interpolated
DPD1K0125	125	1	12	8.0	5.6	18.5	20	interpolated
DPD1J0125	125	1	12	8.0	5.6	18.5	20	interpolated
WFDN100E	100	F (ELCB)	4X	8.8	9.3	19.9	20	interpolated
WFDN225	225	F	4X	8.8	9.3	25.7	20	interpolated
RPD1K0125	125	1	3R	8.0	5.6	18.5	21	UUT_y - 6
WPD1K0125	125	1	4X	8.0	5.6	18.5	21	UUT_y - 8
WPD1J0125	125	1	4X	8.0	5.6	18.5	21	interpolated
XPD1J0125	125	1	4X	8.0	5.6	18.5	21	interpolated
XPD1K0125	125	1	4X	8.0	5.6	18.5	21	interpolated
RPD2K0225	225	2	3R	8.5	6.5	22.8	25	interpolated

Notes:

¹ All components are manufactured by Eaton and the part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested and interpolated units.

² Enclosures are manufactured by Eaton with the NEMA 1/12/3R enclosures constructed of carbon steel and NEMA 4X enclosures constructed of stainless steel.

³ The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:
 x - 70961R13 / y - PR154605-TR-22

TABLE 1	EATON ENCLOSED CIRCUIT BREAKERS SEISMIC CERTIFICATION PRODUCT LINE						 W.E. GUNDE & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING	
	Seismic Certification Limits: $S_{DS} = 2.50$ at $z/h = 1$: $F_p = 1.88g$							
Identification ¹	Amperage	Breaker Frame	Enclosure Type and Dimensions (in)				Weight (lbs)	Representative UUT ³
			NEMA ²	Width	Depth	Height		
RPD2J0225	225	2	3R	8.5	6.5	22.8	25	interpolated
DPD2K0225	225	2	12	8.5	6.5	22.8	25	interpolated
DPD2J0225	225	2	12	8.5	6.5	22.8	25	interpolated
WPD2J0225	225	2	4X	8.5	6.5	22.8	25	interpolated
WPD2K0225	225	2	4X	8.5	6.5	22.8	25	interpolated
XPD2J0225	225	2	4X	8.5	6.5	22.8	25	interpolated
XPD2K0225	225	2	4X	8.5	6.5	22.8	25	interpolated
SJDN250	250	J	1	10.9	7.2	34.7	31	interpolated
FJDN250	250	J	1	12.2	7.2	36.0	32	interpolated
RJDN250	250	J	3R	11.9	10.2	37.5	37	interpolated
JJDN250	250	J	12	11.9	10.2	37.5	37	interpolated
WJDN250	250	J	4X	11.6	10.2	37.5	39	interpolated
FPD3K0400	400	3	1	10.6	9.7	38.1	52	UUT_y - 5
SKDN400	400	K	1	11.1	10.9	38.8	53	interpolated
FKDN400	400	K	1	12.4	10.9	40.1	53	interpolated
RKDN400	400	K	3R	12.3	14.1	41.7	58	interpolated
JKDN400	400	K	12	12.3	14.1	41.7	58	interpolated
SPD3K0400	400	3	1	10.6	9.7	38.1	63	interpolated
RPD3K0400	400	3	3R	10.5	9.6	38.1	73	interpolated
DPD3K0400	400	3	12	10.5	9.6	38.1	73	interpolated
WPD3K0400	400	3	4X	10.5	9.6	38.1	73	interpolated
XPD3K0400	400	3	4X	10.5	9.6	38.1	73	interpolated
WKDN400	400	K	4X	12.4	14.1	41.7	74	UUT_x - 1
SLDN600	600	L	1	14.3	12.4	45.9	81	interpolated
RLDN600	600	L	3R	15.6	15.5	48.3	84	interpolated
JLDN600	600	L	12	15.6	15.5	48.3	84	interpolated
WLDN600	600	L	4X	14.9	15.5	48.3	88	interpolated
SLG630E	600	LG (ELCB)	1	21.9	10.0	51.1	90	interpolated
SPD3K0600	600	3	1	21.3	8.4	49.9	93	interpolated
RLG630	600	LG	3R	23.1	14.1	53.4	94	interpolated
RLG630	600	LG (ELCB)	3R	23.1	14.1	53.4	94	interpolated
JLG630	600	LG	12	23.1	14.1	53.4	94	interpolated
JLG630	600	LG (ELCB)	12	23.1	14.1	53.4	94	interpolated
WLG630	600	LG	4X	23.1	14.1	53.4	96	interpolated

Notes:

¹ All components are manufactured by Eaton and the part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested and interpolated units.

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³ The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:
 x - 70961R13 / y - PR154605-TR-22


TABLE 1	EATON ENCLOSED CIRCUIT BREAKERS SEISMIC CERTIFICATION PRODUCT LINE						 WEGAI <small>W.E. GUNDY & ASSOCIATES, INC.</small> <small>STRUCTURAL & EARTHQUAKE ENGINEERING</small>	
	<i>Seismic Certification Limits: $S_{DS} = 2.50$ at $z/h = 1$: $F_p = 1.88g$</i>							
Identification ¹	Amperage	Breaker Frame	Enclosure Type and Dimensions (in)				Weight (lbs)	Representative UUT ³
			NEMA ²	Width	Depth	Height		
RPD3K0600	600	3	3R	21.3	8.5	49.9	105	interpolated
DPD3K0600	600	3	12	21.3	8.5	49.9	105	interpolated
WPD3K0600	600	3	4X	21.3	8.5	49.9	105	interpolated
XPD3K0600	600	3	4X	21.3	8.5	49.9	105	interpolated
SLG630	600	LG	1	21.9	10.0	53.8	108	UUT_x - 3
SPD4K0800	800	4	1	20.8	13.0	60.0	139	interpolated
JNDN1200	1200	M,N	12	22.6	17.6	63.6	175	interpolated
SPD5K1200	1200	5	1	20.8	13.0	60.0	178	UUT_y - 3
SNDN1200	1200	M,N	1	21.4	15.4	61.2	178	interpolated
RPD4K0800	800	4	3R	20.8	13.1	59.9	190	interpolated
DPD4K0800	800	4	12	20.8	13.1	59.9	190	interpolated
WPD4K0800	800	4	4X	20.8	13.1	59.9	190	interpolated
XPD4K0800	800	4	4X	20.8	13.1	59.9	190	interpolated
RNDN1200	1200	M,N	3R	22.6	17.6	63.8	240	UUT_x - 2
XPD5K1200	1200	5	4X	27.8	13.1	60.0	254	interpolated
WPD5K1200	1200	5	4X	27.8	13.1	60.0	254	UUT_y - 9
DPD5K1200	1200	5	12	27.8	13.1	60.0	258	interpolated
RPD5K1200	1200	5	3R	27.8	13.1	60.0	258	UUT_y - 7

Notes:

¹ All components are manufactured by Eaton and the part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested and interpolated units.

² Enclosures are manufactured by Eaton with the NEMA 1/12/3R enclosures constructed of carbon steel and NEMA 4X enclosures constructed of stainless steel.

³ The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:
x - 70961R13 / y - PR154605-TR-22

TABLE 2	EATON ENCLOSED CIRCUIT BREAKERS CERTIFIED SUBCOMPONENT MATRIX		 WEGAI <small>W.E. GUNDY & ASSOCIATES, INC.</small> <small>STRUCTURAL & EARTHQUAKE ENGINEERING</small>	
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT
Series G / C Molded Case Circuit Breakers: 1 - 3 Poles (3 Pole Data)				
EG - Frame	Eaton	15A-125A	2	extrapolated
G - Frame	Eaton	15A-100A	2	extrapolated
F - Frame	Eaton	10A-225A	5	extrapolated
K - Frame	Eaton	70A-400A	12	extrapolated
HKD3400F	Eaton	400A	12	UUT_x - 1
JG - Frame	Eaton	63A-250A	14	interpolated
J - Frame	Eaton	70A-250A	14	interpolated
LG - Frame	Eaton	250A-630A	20	interpolated
LGE3630NN	Eaton	600A	20	UUT_x - 3
L - Frame	Eaton	125A-600A	20	interpolated
M - Frame	Eaton	300A-800A	30	interpolated
NG - Frame	Eaton	320A-1200A	45	interpolated
N - Frame	Eaton	400A-1200A	45	interpolated
NG31000WX04Y02	Eaton	1200A	45	UUT_x - 2
Power Defense Molded Case Circuit Breakers: 1 - 3 Poles (3 Pole Data)				
PDG-1	Eaton	15A-125A	3	interpolated
PDG13M0125	Eaton	15A-125A	3	UUT_y - 2/4/6/8
PDG-2	Eaton	15A-225A	4	interpolated
PDG-3	Eaton	45A-400A	11	interpolated
PDG33M0400	Eaton	400A	11	UUT_y - 5
PDG-3	Eaton	45A-600A	12	interpolated
PDG-4	Eaton	300A-800A	30	interpolated
PDG-5	Eaton	320A-1200A	47	interpolated
PDG53M1200	Eaton	1200A	47	UUT_y - 3/7/9
Notes:				

UUT_x - 1

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



Mounting Details: Rigid wall mounted with (6) 5/16" grade 5 bolts



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: June 2013
Section ID: WKDN400	Report Number: 70961R13

UUT Description: 400A NEMA 4X stainless steel enclosure with K-Frame Series C Molded Case Breaker HKD3400F.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
74	12.4	14.1	41.7	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	3.00	1.0	1.5	4.80	3.60	2.01	0.81

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_x - 2

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



Mounting Details: Rigid wall mounted with (6) 5/16" grade 5 bolts



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: June 2013
Section ID: RNDN1200	Report Number: 70961R13

UUT Description: 1200A NEMA 3R carbon steel enclosure with NG-Frame Series G Molded Case Breaker NG31000WX04Y02.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
240	22.6	17.6	63.8	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	3.00	1.0	1.5	4.80	3.60	2.01	0.81

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_x – 3

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (6) 5/16" grade 5 bolts



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: June 2013
Section ID: SLG630	Report Number: 70961R13

UUT Description: 600A NEMA 1 carbon steel enclosure with L-Frame Series C Molded Case Breaker LGE3630NN.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
108	21.9	10.0	53.8	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	3.00	1.0	1.5	4.80	3.60	2.01	0.81

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 - 2

UNIT UNDER TEST (UUT) SUMMARY SHEET



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



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: March 2022
Section ID: SPD1K0125	Report Number: PR154605-TR-22

UUT Description: 125A NEMA 1 carbon steel enclosure with Frame Size 1 Power Defense Molded Case Breaker PDG13M0125.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
19	8.0	5.1	18.4	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	2.50	1.0	1.5	4.00	3.00	1.68	0.68

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 – 3

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (6) 5/16" grade 5 bolts



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: March 2022
Section ID: SPD5K1200	Report Number: PR154605-TR-22

UUT Description: 1200A NEMA 1 carbon steel enclosure with Frame Size 5 Power Defense Molded Case Breaker PDG53M1200.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
178	20.8	13.0	60.0	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	2.50	1.0	1.5	4.00	3.00	1.68	0.68

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 - 4

UNIT UNDER TEST (UUT) SUMMARY SHEET



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



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: March 2022
Section ID: FPD1K0125	Report Number: PR154605-TR-22

UUT Description: 125A NEMA 1 carbon steel enclosure with Frame Size 1 Power Defense Molded Case Breaker PDG13M0125.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
18	8.0	5.1	18.4	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	2.50	1.0	1.5	4.00	3.00	1.68	0.68

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 – 5

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (4) 5/16" grade 5 bolts



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: March 2022
Section ID: FPD3K0400	Report Number: PR154605-TR-22

UUT Description: 400A NEMA 1 carbon steel enclosure with Frame Size 3 Power Defense Molded Case Breaker PDG33M0400.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
52	10.6	9.7	38.1	NA	NA	NA

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{Ds} (g)	z / h	I _p	A _{FLEX-H} (g)	A _{RIG-H} (g)	A _{FLEX-V} (g)	A _{RIG-V} (g)
CBC 2022 / ICC-ES AC156	2.50	1.0	1.5	4.00	3.00	1.68	0.68

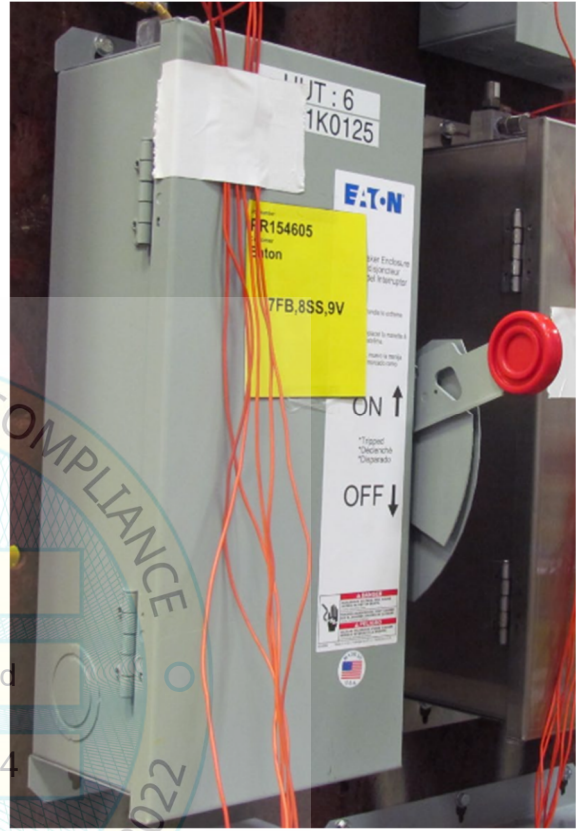
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_y – 6

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



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



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: March 2022
Section ID: RPD1K0125	Report Number: PR154605-TR-22

UUT Description: 125A NEMA 3R carbon steel enclosure with Frame Size 1 Power Defense Molded Case Breaker PDG13M0125.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
21	8.0	5.6	18.5	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	2.50	1.0	1.5	4.00	3.00	1.68	0.68

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 - 7

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (6) 5/16" grade 5 bolts



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: March 2022
Section ID: RPD5K1200	Report Number: PR154605-TR-22

UUT Description: 1200A NEMA 3R carbon steel enclosure with Frame Size 5 Power Defense Molded Case Breaker PDG53M1200.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
258	27.8	13.1	60.0	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	2.50	1.0	1.5	4.00	3.00	1.68	0.68

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.

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



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



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: March 2022
Section ID: WPD1K0125	Report Number: PR154605-TR-22

UUT Description: 125A NEMA 4X stainless steel enclosure with Frame Size 1 Power Defense Molded Case Breaker PDG13M0125.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
21	8.0	5.6	18.5	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	2.50	1.0	1.5	4.00	3.00	1.68	0.68

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.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (6) 5/16" grade 5 bolts



Manufacturer: Eaton	Test Location: NTS - Huntsville, AL
Product: Enclosed Circuit Breakers	Test Date: March 2022
Section ID: WPD5K1200	Report Number: PR154605-TR-22

UUT Description: 1200A NEMA 4X stainless steel enclosure with Frame Size 5 Power Defense Molded Case Breaker PDG53M1200.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
254	27.8	13.1	60.0	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	2.50	1.0	1.5	4.00	3.00	1.68	0.68

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.