

Title: President

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

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0015
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Eaton	
Manufacturer's Technical Representative: Craig Depas	
Mailing Address: 175 Vista Blvd, Arden, NC 28704	
Telephone: (414) 449-6037 Email: craighdepas@ea	aton.com
Product Information	
Product Name: Enclosed Controls	Mp,
Product Model Number(s): See attachments	4
Product Category: Electrical Control Panels on Life Safety/Critical E	Branch C
Product Sub-Category: Lighting Control Panels	in in
General Description: Low Voltage, unit mount enclosed control assemblic commercial building systems per UL 508.	es for lighting, machinery, industrial processes and
Mounting Description: Wall Mounted Rigid	
Tested Seismic Enhancements: None DATE: 11/20/2025	
Applicant Information	
Applicant Company Name: WE Gundy & Associates, Inc	Open
Contact Person: Travis Soppe	
Mailing Address: PO Box 9121, Boise, ID 83707	
Telephone: (208) 342-5989 Email: tsoppe@wegai.co	om







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

California Licensed Structura	l Engineer Responsible fo	r the Engineering and Test Re	port(s)
Company Name: W.E. GUNDY &	ASOCIATES INC.		
Name: Travis Soppe	C	California License Number: S6115	
Mailing Address: P.O. Box 9121,	Boise, ID 83707		
Telephone: (208) 342-5989	Email: tsopp	e@wegai.com	
Certification Method			
GR-63-Core	CC-ES AC156	EEE 344	NEBS 3
Other (Please Specify):			
Testing Laboratory			
Company Name: NATIONAL TEC	HNICAL SYSTEMS (NTS)	140	
Contact Person: Tom Boonarkat			
Mailing Address: 7800 Highway 2) West, Huntsville AL 35806	2015	
Telephone: (256) 837-4411	Email: tom.b	oonarkat@nts.com	
	O BY: Mohamn	nad Karim O	
	DATE: 11/2 PARA BUILT	20/2025 ODE:	
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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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

Seismic Parameters	
Design Basis of Equipment or Components	(Fp/Wp) = 2.22
Sps (Design spectral response accele	eration at short period, g) = 2.95
ap (Amplification factor) =	2.5
R _P (Response modification factor) =	6.0
Ω_0 (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 11/20/2031							
Date:	11/20/2025	4					
Name:	Mohammad Karim	Title:	Supervisor, Health Facilities				
Special	Seismic Certification Valid Up to: SDS (g) = 2.95	z/h =	1				
Conditio	Condition of Approval (if applicable): BY Mohammad Karim						







TABLE 1		EATON ENCLOSED CONTROLS CERTIFIED PRODUCT LINE MATRIX						EGAI & ASSOCIATES, INC. ARTHOUAKE ENGINEERING	
1	Current	Disconnect	NEMA	NEMA Din		(in)	Max	******	
Identification Number ¹	Rating (Amps)	Rating (Amps)	Rating ²	Width	Depth	Height	Weight (lbs)	UUT	
ECNOL EC	ENCLOSED CONTROLS - Fusible / Non-Fulsible Disconnect ECN01, ECN02, ECN05, ECN06, ECN07, ECN08, ECN16, ECN17, ECN54, ECL03, ECL12								
ECN01, EC	18	30	N07, ECN08, E 1	10.75	10.50	27.25	, ECL12	UUT-24	
ECN1801CAC ECN1801CAC-R63/B	18	30	1	10.75	10.50	27.25	35	UUT-25	
ECN0101A3A	18	N/A	1	5.75	5.00	10.25	4.3	UUT-38	
ECN0101A3A ECN180XXXX	18	30	1/3R/4/4X/12	29.50	15.25	62.00	224		
			1/3R/4/4X/12 1/3R/4/4X/12					Interpolated	
ECN181XXXX	27	30		29.50	15.25	62.00	224	Interpolated	
ECN182XXXX	45	60	1/3R/4/4X/12	29.50	15.25	62.00	224	Interpolated	
ECN183XXXX	90	100	1/3R/4/4X/12	29.50	15.25	62.00	224	Interpolated	
ECN184XXXX	135	200	1/3R/4/4X/12	29.50	15.25	62.00	224	Interpolated	
ECN1841CAJ-R63/F	135	200		29.50	12.25	35.00	145	UUT-27	
ECN185XXXX	270	400	1/3R/4/4X/12	28.00	15.25	62.00	224	Interpolated	
ECN1851CAL	270	400	10001	28.00	15.25	62.00	224	UUT-26	
EN			- Circuit Brea ECN55, ECH2			t Protecto	r		
ECN2401CAC	18	B7√ Mc	hammad k	10.75	10.50	27.25	34	UUT-22	
ECN2401CAC-R63/B	18	7		10.75	10.50	27.25	34	UUT-23	
ECN2401CAC-B10	18	D7ATE	· 11/20/2	10.75	10.50	27.25	35	UUT-37	
ECN240XXXX	18	15	1/3R/4/4X/12	29.50	15.25	62.00	208	Interpolated	
ECN241XXXX	27	30	1/3R/4/4X/12	29.50	15.25	62.00	208	Interpolated	
ECN242XXXX	45	50	1/3R/4/4X/12	29.50	15.25	62.00	208	Interpolated	
ECN243XXXX	90	100	1/3R/4/4X/12	29.50	15.25	62.00	208	Interpolated	
ECN2431CAG	90	100	DILDIN	20.50	12.00	30.25	83	UUT-36	
ECN244XXXX	135	150	1/3R/4/4X/12	29.50	15.25	62.00	208	Interpolated	
ECN2441CAH-R63/F	135	150	1	20.50	12.00	31.00	100	UUT-29	
ECN245XXXX	270	400	1/3R/4/4X/12	29.50	15.25	62.00	208	Interpolated	
ECN2451CAJ	270	250	1	28.00	14.25	62.00	208	UUT-28	
ENCLO	ENCLOSED LIGHTING CONTACTORS - Combination / Non-Combination ECL04								
ECC03C1A3A	30	N/A	1	7.75	6.00	13.25	10	UUT-30	
ECCXXCXXXX	30	N/A	1/3R/4/4X/12	28.00	14.25	62.00	182	Interpolated	
ECL15C1C3E-C1	30	30	1	10.75	10.50	27.25	37	UUT-31	
ECL15CXXXX	30	30	1/3R/4/4X/12	28.00	14.25	62.00	182	Interpolated	
ECL15DXXXX	60	60	1/3R/4/4X/12	28.00	14.25	62.00	182	Interpolated	
ECL15EXXXX	100	100	1/3R/4/4X/12	28.00	14.25	62.00	182	Interpolated	
ECL15FXXXX	200	200	1/3R/4/4X/12	28.00	14.25	62.00	182	Interpolated	
ECL15F1C3H-C1	250	250	1	28.00	14.25	62.00	182	UUT-32	

TABLE 1	CE	EATON E	W.E. GUNDY STRUCTURAL & E	EGAI & ASSOCIATES, INC. ARTHQUAKE ENGINEERING				
1	Current	Disconnect	NEMA	Dia	mensions	(in)	Max	TITION
Identification Number ¹	Rating (Amps)	Rating (Amps)	Rating ²	Width	Depth	Height	Weight (lbs)	UUT
E	NCLOSEI	CONTROL	SSRV - Comb	oination /	Non-Con	bination		
		EC	S93, ECS92, E	CS90	-	_		
ECS95Q1CAF-C34C46/J3	37	50	1	15.50	12.00	23.25	61	UUT-33
ECS95QXXXX	37	50	1/3R/4/4X/12	28.00	14.25	62.00	294	Interpolated
ECS95SXXXX	66	100	1/3R/4/4X/12	28.00	14.25	62.00	294	Interpolated
ECS95VXXXX	105	150	1/3R/4/4X/12	28.00	14.25	62.00	294	Interpolated
ECS95WXXXX	135	150	1/3R/4/4X/12	28.00	14.25	62.00	294	Interpolated
ECS95YXXXX	180	250	1/3R/4/4X/12	28.00	14.25	62.00	294	Interpolated
ECS95Y1CAJ-C34C46/J3	180	250	CODE	28.00	14.25	62.00	266	UUT-34
ECS95ZXXXX	240	250	1/3R/4/4X/12	28.00	14.25	62.00	294	Interpolated
ECS951XXXX	304	400	1/3R/4/4X/12	28.00	14.25	62.00	294	Interpolated
ECS952XXXX	360	400	1/3R/4/4X/12	28.00	14.25	62.00	294	Interpolated
ECS9521CAK-C34	360	400	4X	28.00	14.25	62.00	294	UUT-35

Notes:

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

² NEMA 1/3R/4/12 enclosures are constructed of carbon steel and NEMA 4X enclosure is constructed of stainless steel. NEMA 3R/4/12 enclosures are structurally identical to the NEMA 1 enclosure with the inclusion of gasket material for the door and seams. Enclosure dimensions exclude extraneous hardware and operator throw projection.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer: Eaton Test Location: Wyle Lab, Huntsville AL

Product Line: Enclosed Controls Test Date: June 18-22, 2012

Component: ECN2401CAC | Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box A (Enclosure),

UUT Description: HMCPE007C0C (7A Breaker), C0050E2AFB (50VA CPT), CN15BN3AB (Size 0

Contactor), and C306DN3B (Bi-metallic OL)

UUT PROPERTIES

Weight (lb)	Enclosure	Box Dimension	is (inches)	Nat	ural Frequency ((Hz)
weight (10)	Width	Depth	Height	FB	SS	V
34	10.75	10.50	27.25	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	2.95	1	1.5	4.72	3.54	1.98	0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECN2401CAC-R63/B	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box A (Enclosure),

UUT Description: HMCPE007C0C (7A Breaker), C0050E2AFB (50VA CPT), CN15BN3AB (Size 0

Contactor), and C440A1A005SF0 (1-5A SSOL)

UUT PROPERTIES Enclosure Box Dimensions (inches) Natural Frequency (Hz) Weight (lb) Width SS V Depth Height FB 10.75 10.5 27.25 NA NA 34 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	2.95	1	1.5	4.72	3.54	1.98	0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECN1801CAC	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box A (Enclosure), **UUT Description:** 96-3692-15 (30A 600V Fusible DS), C0050E2AFB (50VA CPT), CN15BN3AB (Size 0

Contactor), and C306DN3B (Bi-metallic OL)

UUT PROPERTIES Enclosure Box Dimensions (inches) Natural Frequency (Hz) Weight (lb) Width V Depth Height FB SS 35 10.75 10.5 27.25 NA NA NA

SEISMIC TEST PARAMETERS Building Code / Test Criteria SDS (g) Z / h IP AFLX-H (g) ARIG-H (g) AFLX-V (g) ARIG-V (g) CBC 2022 / ICC-ES AC156 2.95 1 1.5 4.72 3.54 1.98 0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECN1801CAC-R63/B	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box A (Enclosure), **UUT Description:** 96-3692-15 (30A 600V Fusible DS), C0050E2AFB (50VA CPT), CN15BN3AB (Size 0

Contactor), and C440A1A005SF0 (1-5A SSOL)

Contactor), and C++0A1A00351 (1-3A 550L)								
UUT PROPERTIES								
Waight (1h)	Enclosure Box Dimensions (inches)			Natural Frequency (Hz)				
Weight (lb)	Width	Depth	Depth Height		FB	SS	S	V
35	10.75	10.5	27.	25	NA	N.A	4	NA
SEISMIC TEST PARAMETERS								
Puilding Code / Test Critoria Specific Specific The Array (a) Array (b) Array (c) Array (c						Apre v (g)		

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	2.95	1	1.5	4.72	3.54	1.98	0.80

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: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECN1851CAL	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box E (Enclosure), **UUT Description:** 96-3695-16 (400A 600V Fusible DS), C0300E2AFB (300VA CPT), CN15SN3A (Size 5

Contactor), and C306DN3B (Bi-metallic OL)								
			UUT PRO	PERTII	ES			
Enclosure Box Dimensions (inches) Natural Frequency (Hz)								
Weight (lb)	Width	Depth	Hei	ght	FB	SS	S	V
224	28.0	15.25	62	.0	NA	NA	4	NA
SEISMIC TEST PARAMETERS								
Building Code / Test Criteria S _{DS} (g)		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 2.95		2.95	1	1.5	4.72	3.54	1.98	0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECN1841CAJ-R63/F	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box D (Enclosure), **UUT Description:** 96-3694-17 (200A 600V Fusible DS), C0200E2AFB (200VA CPT), CN15NN3A (Size

4 Contactor), and C440C1A140SPX (28-140A SSOL)

UUT PROPERTIES Enclosure Box Dimensions (inches) Natural Frequency (Hz) Weight (lb) Width SS V Depth Height FB 29.5 12.25 35.0 NA NA 145 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	2.95	1	1.5	4.72	3.54	1.98	0.80

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: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECN2451CAJ	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box E (Enclosure), **UUT Description:** HMCP250W5C (250A Breaker), C0300E2AFB (300VA CPT), CN15SN3A95 (Size 5

Contactor), and C306DN3B (Bi-metallic OL)

UUT PROPERTIES Enclosure Box Dimensions (inches) Natural Frequency (Hz) Weight (lb) Width V Depth Height FB SS 28.0 14.25 NA 208 62.0 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 2.95 1 1.5 4.72 3.54 1.98 0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECN2441CAH-R63/F	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box C (Enclosure),

UUT Description: HMCP150U4C (150A Breaker), C0200E2AFB (200VA CPT), CN15NN3A (Size 4

Contactor), and C440C1A140SPX (28-140A SSOL)								
			UUT PRO	PERTII	ES			
Enclosure Box Dimensions (inches) Natural Frequency (Hz)								
Weight (lb)	Width	Depth	Hei	ght	FB	SS	S	V
100	20.5	12.0	31	.0	NA	NA	4	NA
SEISMIC TEST PARAMETERS								
Building Code / Test Criteria S _{DS} (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 2.95			1	1.5	4.72	3.54	1.98	0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 3/16" grade 5 bolts



Manufacturer: Eaton Test Location: Wyle Lab, Huntsville AL

Product Line: Enclosed Controls Test Date: June 18-22, 2012

Component: ECC03C1A3A Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

UUT Description: Enclosed control configuration in wall mounted NEMA 1 enclosure, Box 2 (Enclosure),

C30CNE20A0 (30A Lighting Contactor)

UUT PROPERTIES

Weight (lb)	Enclosure	Box Dimension	ns (inches)	Natural Frequency (Hz)			
weight (10)	Width	Depth	Height	FB	SS	V	
10	7.75	6.0	13.25	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	2.95	1	1.5	4.72	3.54	1.98	0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECL15C1C3E-C1	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box A (Enclosure),

UUT Descript	ion: HFD3030 (er), C0100E	2AFB (1	.00VA CPT), and A202	K1CAM (3	0A
	Lighting Co	ontactor)						
			UUT PRO	PERTII	ES			
Waight (1h)	Enclosure 1	Box Dimens	ions (inche	s)	N	Natural Freq	uency (Hz)	
Weight (lb)	Width	Depth	Hei	ght	FB	SS	S	V
37	10.75	10.5	27.	25	NA NA		NA	
		SEISM	IIC TEST	PARAM	IETERS			
Building Cod	e / 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 / I	CC-ES AC156	2.95	1	1.5	4.72	3.54	1.98	0.80
3.7	0.11.0		1 : 10		0 1 0	1 IGG EG	1 C1 5 C	

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: Enclosed Controls Test Date: June 18-22, 2012

Component: ECL15F1C3H-C1 Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box E (Enclosure),

UUT Description: HJD3250F (250A Breaker), C0200E2AFB (200VA CPT), and A202K4CAM (400A

Lighting Contactor)

	Eighting C.	ontactory						
			UUT PRO	PERTIE	ES			
Wai alet (11a)	Enclosure l	Box Dimens	sions (inche	s)	N	Natural Freq	uency (Hz)	
Weight (lb)	Width	Depth	Hei	ght	FB	SS	S	V
182	28.0	14.25	62	.0	NA	NA	A	NA
		SEISM	IIC TEST	PARAM	IETERS			
Building Cod	e / 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 / I	CC-ES AC156	2.95	1	1.5	4.72	3.54	1.98	0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer:EatonTest Location;Wyle Lab, Huntsville ALProduct Line:Enclosed ControlsTest Date;June 18-22, 2012Component:ECS95Q1CAF-C34C46/J3Report Number:70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, S811N37N3B

UUT Description: (37A, RVSS), HMCPE050K2C (50A Breaker), C0250E2AFB (250VA CPT),

CN15GN3AB (Size 2 Contactor), and C306GN3B (Bi-metallic OL)

UUT PROPERTIES

Weight (lb) Enclosure Box Dimensions (inches)				Natural Frequency (Hz)			
weight (10)	Width	Depth	Height	FB	SS	V	
61	15.5	12.0	23.25	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	2.95	1	1.5	4.72	3.54	1.98	0.80

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: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECS95Y1CAJ-C34C46/J3	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box E (Enclosure), **UUT Description:** S811T18N3B (180A, RVSS), HMCP250W5C, (250A Breaker), C0250E2AFB (250VA

CPT), CN15SN3A (Size 5 Contactor), and C306DN3B (Bi-metallic OL) **UUT PROPERTIES** Enclosure Box Dimensions (inches) Natural Frequency (Hz) Weight (lb) V Width Depth Height FB SS 14.25 NA 266 28.0 62.0 NA NA SEISMIC TEST PARAMETERS Building Code / Test Criteria z/h I_P $A_{FLX-H}(g) A_{RIG-H}(g) A_{FLX-V}(g)$ $A_{RIG-V}(g)$ $S_{DS}(g)$ CBC 2022 / ICC-ES AC156 2.95 1.5 4.72 3.54 1.98 0.80

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: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECS9521CAK-C34	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 4X enclosure, Box E

UUT Descript	ion: (Enclosure) C0250E2A), S811V36N FB (250VA		, RVSS)	, HMCP4002	X5W (400A	Breaker),	and
			UUT PRO	PERTI	ES			
Wai alat (11a)	Enclosure 1	Box Dimens	ions (inche	s)	N	Vatural Freq	uency (Hz)	
Weight (lb)	Width	Depth	Hei	ght	FB	SS	S	V
294	28.0	14.25	62	.0	NA	N/	A	NA
		SEISM	IIC TEST	PARAN	METERS			
Building Code	e / 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 / I	CC-ES AC156	2.95	1	1.5	4.72	3.54	1.98	0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECN2431CAG	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box C (Enclosure), **UUT Description:** HMCPE100R3C (100A Breaker), C0150E2AFB, (150VA CPT), CN15KN3A (Size 3

Contactor), and C306KN3 (Bi-metallic OL)

UUT PROPERTIES Enclosure Box Dimensions (inches) Natural Frequency (Hz) Weight (lb) Width SS V Depth Height FB 20.5 12.0 30.25 NA NA 83 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	2.95	1	1.5	4.72	3.54	1.98	0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 1/4" grade 5 bolts



Manufacturer: Eaton	Test Location: Wyle Lab, Huntsville AL
Product Line: Enclosed Controls	Test Date: June 18-22, 2012
Component: ECN2401CAC-B10	Report Number: 70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

Enclosed control configuration in wall mounted NEMA 1 enclosure, Box A (Enclosure),

UUT Description: HMCP007C0C (7A Breaker), C0050E2AFB (50VA CPT), CN15BN3AB (Size 0

Contactor), and C306DN3B (Bi-metallic OL)

UUT PROPERTIES Enclosure Box Dimensions (inches) Natural Frequency (Hz) Weight (lb) Width V Depth Height FB SS 35 10.75 10.5 27.25 NA NA NA SEISMIC TEST PARAMETERS Building Code / Test Criteria z/h I_P $A_{FLX ext{-}H}\left(g ight) \left| A_{RIG ext{-}H}\left(g ight) \left| A_{FLX ext{-}V}\left(g ight) \right|$ $A_{RIG-V}(g)$ $S_{DS}(g)$ 2.95 CBC 2022 / ICC-ES AC156 1.5 4.72 3.54 1.98 0.80

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) 3/16" grade 5 bolts



Manufacturer:EatonTest Location;Wyle Lab, Huntsville ALProduct Line:Enclosed ControlsTest Date:June 18-22, 2012Component:ECN0101A3AReport Number:70282R12

UUT Function: Low voltage control assemblies for lighting, machinery, and industrial processes

UUT Description: Enclosed control configuration in wall mounted NEMA 1 enclosure, Box 1 (Enclosure),

CN15BN3AB (Size 0 contactor)

UUT PROPERTIES

Weight (lb)	Enclosure Box Dimensions (inches)				Natural Frequency (Hz)			
weight (10)	Width	Depth	Height	FB	SS	V		
4.3	5.75	5.0	10.25	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	2.95	1	1.5	4.72	3.54	1.98	0.80



