

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0040
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: ABB, Inc.	
Manufacturer's Technical Representative: Cameron Molloy	
Mailing Address: 41 Woodford Avenue, Plainville, CT 06062-2372	
Telephone: (860) 747-7813 Email: Cameron.molloy@	⊉us.abb.com
Product Information	10,
Product Name: Panelboards	1 million
Product Type: Panelboards	2
Product Model Number: Varies (See attachment)	
General Description: A-Series Lighting Panel & Spectra Power Panel (12	5A-1200A).
Mounting Description: Rigid, Wall Mounted	
Tested Seismic Enhancements: Seismic enhancements made to the test anomalies during the tests shall be incorr	units and/or modifications required to address porated into the production units.
Applicant Information	
Applicant Company Name: TRU Compliance, by Structural Integrity Associat	les, inc.
Contact Person: Daniel Zentner	
Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702	
Telephone: (541) 292-5839 Email: dzentner@struction	nt.com
Title: Program Manager	



"A healthier California where all receive equitable, affordable, and quality health care"



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.
Name: LACHEZAR HANDZHIYSKI California License Number: S6515
Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138
Telephone: (669) 437-0200 Email: Lhandzhiyski@StructInt.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
OR CODE CO
Testing Laboratory
Company Name: CLARK TESTING LABORATORY, INC.
Contact Person: Devon Lohr
Mailing Address: 1801 Route 51, Jefferson Hills PA 15025
Telephone: (412) 387-1026
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
Company Name: WYLE LABORATIORIES
Contact Person: Greg Mason
Mailing Address: 7800 Highway 20 West, Huntsville AL 35806
Telephone: (256) 837-4411 Email: greg.mason@nts.com



Page 2 of 33

"A healthier California where all receive equitable, affordable, and quality health care"

All Ju



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismi	c Parameters			
Design I	Basis of Equipment or Components	(Fp/Wp) = 1.50 (z/h = 1)		
S	DS (Design spectral response accele	eration at short period, g) = 2.00		
ap	o (Amplification factor) =	2.5		
R	p (Response modification factor) =	6.0		
Ω	0 (System overstrength factor) =	2.0		
lp	(Importance factor) =	1.5		
z/	h (Height ratio factor) =	1		
Na	atural frequencies (Hz) =	See Attachment		
	verall dimensions and weight =	See Attachment		
HCAI A	pproval (For Office Use Only)	Approval Expires on 11/02/2029	Y2	
Date:	11/2/2023	OSP-0040	F	
Name:	Timothy Piland	DV. Timethy, I. Diland	Title:	Senior Structural Engineer
Special	Seismic Certification Valid Up to: SI	ps(g) = 2.00	_ <mark>z/h =</mark>	1
Conditio	n of Approval (if applicable):	DATE: 11/02/2023		
		PRIMA BUILDING CODE	202	



"A healthier California where all receive equitable, affordable, and quality health care"

OSP-0040

All Ju



Manufacturer:



TABLE 1

Certified Product Construction Summary:

ABB

NEMA 1 and NEMA 2 are indoor enclosures constructed of cold-formed carbon steel. NEMA 3R,4,12 are outdoor enclosures constructed of cold-formed carbon steel. NEMA 4x are outdoor enclosures constructed of stainless steel. Indoor enclosures are mounted with bolts through the interior of the cabinet, outdoor cabinets have exterior tabs that are used for mounting.

Certified Options Summary:

See Product Matrices and UUT Summaries

Mounting Configuration:

Wall mounted - rigid

FORCODECO

Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

	Madal	NEMA	Dir	nensions	(in)	Weight		
Model Line ^{1,2}	Model	Туре	Width	Depth	Height	(lb)	Notes	UUT
	Axxxxx, Rxxxxx	NEMA 1,2, <mark>3R,4,</mark> 4x,12	Timoth	ny J., Pi	and.	27- <mark>266</mark>	Ampacity 100A-225A	Extrap
	AQL3422ATX	NEMA 1		1/05/2	0232	27	225A	7
	AQF3126MBX	NEMA 4X	8	20	32	78	125A	23
	ASF3121KBX	NEMA 4X	20	8	38	110	225A	21
	ASF3368KBX	NEMA 1	20	8	56	130	800A	3
Lighting Panels -	ASF3122GT	NEMA 4	20	6	44	97	225A	4
ALxxx*, AQxxx*,	ASF3122GTX	NEMA 4	20	6	56	188	225A	6
AExxx*, ADxxx*,	AQC3422MTX	NEMA 1	291	$-D_6$	77	100	225A	10
ASxxx*, RLxxx*,	AQF3302MTSX	NEMA 1	20	6	77	156	225A	12
RQxxx*, RExxx*,	ADF3842MTX	NEMA 1	20	6	77	266	225A	8
RDxxx*, RSxxx*	ASF3122GB	NEMA 1	20	6	44	85	225A	1
	Axxxxx, Rxxxxx	NEMA 1,2,3R,4, 4x,12	30	8	89	27-368	Ampacity 100A-800A	Interp
	ASF3124DTX	NEMA 1	30	8	89	310	800A	2
	ASF3482KBX	NEMA 2	20	6	89	287	600A	20
	ASF3308KBX	NEMA 3R	30	8	89	306	800A	19
	ASF3248BX	NEMA 4X	30	8	89	316	800A	22

Notes:

¹Identical NEMA cabinets are used by Spectra and Lighting Panels.

²Axxxx denotes GE branding, Rxxxx is an identical product but with ABB branding.



1900458-CR-001-R3

Manufacturer:

Model Line: A-Series Lighting Panel & Spectra Power Panel

TABLE 1

Certified Product Construction Summary:

ABB

NEMA 1 and NEMA 2 are indoor enclosures constructed of cold-formed carbon steel. NEMA 3R,4,12 are outdoor enclosures constructed of cold-formed carbon steel. NEMA 4x are outdoor enclosures constructed of stainless steel. Indoor enclosures are mounted with bolts through the interior of the cabinet, outdoor cabinets have exterior tabs that are used for mounting.

Certified Options Summary:

See Product Matrices and UUT Summaries

Mounting Configuration:

Wall mounted - rigid

FOR CODE CO

Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2016		Seismic Certification Limits:		S _{DS} =	2.0 g z/h=1.0 I _P =	= 1.5		
1.2		NEMA	Di	mensions	(in)	Weight	Nutra	Τ
Model Line ^{1,2}	Model	Туре	Width	Depth	Height	(lb)	Notes	UUT
	APNB1802FA	NEMA 1	27	11.5	65	25 <mark>8</mark>	250A, NEMA 1	14
I	APNB4312FB4TA	NEMA 1	Ti 4 40th	hy16.25 ⁻ i	lan96	800	1200A, NEMA 1	15
	APN2302FH1A	NEMA 4X	36.2	16.6	65	452	250A, NEMA 4x	16
Spectra & Integrated Submetering -APxx, GQxx	APxx, GQxx	NEMA 1,2,3R,4, 4x,12	27-44	1/02/2 14.25-20	023 65-89	258-800	Ampacity 100A-1200A	Interp.
	APNB3312FB4A	NEMA 3R	31.2	14.6	89.7	529	1200A, NEMA 3R	18
	GQCP208120TRR	NEMA 3R	44	20	75	683	1200A, NEMA 3R	17
			RII	TAL	50			
			201	LDIN				_
			1		<u> </u>			
			ļ		<u> </u>			
			ļ					_
		I	 		_			_
		I	 					_
			 		_			_
		I	 		<u> </u>			_
			 		<u> </u>			_
		I	 		<u> </u>			_
			<u> </u>					
Notes:								
¹ Identical NEMA cabine		-						
² Axxxx denotes GE brar	nding, Rxxxx is an ic	Jentical pro	oduct but	with ABB <code>b</code>	oranding.			

Page 5 of 33



Manufacturer:	ABB		Table Description: BUS		TABLE 2
Model Line:	A-Series Lighting Panel &	& Spectra Power Panel			
Building Code: CBC 20	016	Seismic Certificati	ion Limits: S _{DS} = 2.0 g z/h = 1.	$I_P = 1.5$	
Component Type	Manufacturer ¹	Model	CODE Description	Not	es UUT
		Al-0125	Aluminum, 2 lbs.	125A	23
		Al-0600	Aluminum, 11 lbs.	600A	2,3,6
BUS		Al-0750	Aluminum, 80 lbs.	750A	1,4,14
Aluminum		Al-HeatRated	Aluminum, 100 lbs.	Heat Rated	16
		Al-XXX	Aluminum, 0.5-100lbs.	125-800A	Interp
			Al-0800 BY: T	Aluminum, 50 lbs.	800A
	ABB/GE -	Cu-0125	Copper, 3 lbs.	125A	21
		Cu-Heat Rated	Copper, 3 lbs.	Heat Rated	1,4
BUS		Cu-0800	Copper, 50 lbs.	800A	2,3,6,19 22
Copper		Cu-XXX	Copper, 3-150 lbs.	125A-1000A	Interp
		Cu-1000	Copper, 3-150 lbs.	1000A	7,8,10,1 13,15,1 18
lotes:					
GE or ABB may be br	anded on product, produc	cts are identical.			





	ABB EntellEon	n		TABLE 3	
Building Code: CBC 202	19, IBC 2018	Seismic Certificati	fon Limits: S _{DS} = 2.0 g z/h = 1.0	$I_{P} = 1.5$	
Component Type	Manufacturer ¹	Model	R CODE Description	Note	es UUT
		THQL1115/	Plastic molded case, 0.3 lbs.	15A	7
		THQL*/, THQB*/, TQD*/	Plastic molded case, 1-4lbs.	15A-225A	Interp.
Residential Breaker Q- Line	GE/ABB	THQB32100/	Plastic molded case, 1 lbs.	100A	10,12,18
Line		TQD32200WL/	Plastic molded case, 4 lbs.	200A	7
		TQD32225WL/	Plastic molded case, 4 lbs.	225A	18
	GE/ABB	TEYD3015BBY: T	Plastic molded case, 2 lbs.	15A	1,2,3,4,6, 18
			Plastic molded case, 2 lbs.	125A	1,2,3,4, 6,18
Core Line Breaker-		TEYL1015B	Plastic molded case		19,20,22
STEY		TEYL3125B	Plastic molded case		19,20,22
		TE*/, TF*/, TJ*/	Plastic molded case 1-17 lbs.	125A-600A	Interp.
		TJJ426D600WL	Plastic molded case, 17 lbs.	600A	Interp.
		TJJ436600WL	Plastic molded case, 17 lbs.	600A	2,22
		SEDA36AT0030	Plastic molded case, 5 lbs.	30A	16
		SEHA34A0150	Plastic molded case, 5 lbs.	150A	8
		SEDA34A0150	Plastic molded case, 5 lbs.	150A	8
Spectra Breaker	GE/ABB	SEDA36AT0150	Plastic molded case, 5 lbs.	150A	16
		SE*/, SF*/, SG*/, SK*/	Plastic molded case, 5-39 lbs.	30A -1200A	Interp.
		SFHA36AT0250	Plastic molded case, 8 lbs.	250A x 14 in test unit	18
		SGHA36AT0400	Plastic molded case, 11 lbs.	400A x4 in test unit	15





Manufacturer: Model Line:	ABB EntellEon	,		TABLE 3			
Building Code: CBC 20	019, IBC 2018	Seismic Certificat	ion Limits: S _{DS} = 2.0 g z/h = 1.0	$I_{P} = 1.5$			
Component Type	Manufacturer ¹	Model	R CODE Description	No	otes	UUT	
Spectra Breaker		SKHA36AT0800	Plastic molded case, 39 lbs.	800A	r r	2,6,22	
	GE/ABB	SKLA36AT1200	Plastic molded case, 39 lbs.	1200A x2 in test unit	- horizontal	17	
		FBV36TE015R2	Plastic molded case, 3 lbs.	15A		14	
		FBV36TE100R2	Plastic molded case, 3 lbs.	100A		14	
	GE/ABB	FBV36TE100RV·T	Plastic molded case, 3 lbs.	100A		8	
		FB*/, FE*/, FG*/		Plastic molded case, 3-15 lbs. 15A - 600A			Interp.
Record Plus		FEN34AA0250R	Plastic molded case, 3 lbs.	250A		4	
		FGN36AA0250R0	Plastic molded case, 15 lbs.	250A		14	
		FGN36KA0600	Plastic molded case, 15 lbs.	600A		18	
		FGN36AA0600R0	Plastic molded case, 15 lbs.	600A		3	
		FEB34AAA0225R	Plastic molded case, 15 lbs.	225A		1	
		XT1NU3015AFD000XXX	Plastic molded case, 2 lbs.			23	
		XT1NU3125AFD000XXX	Plastic molded case, 2 lbs.			21	
		XT4NU3250AFL000XXX	Plastic molded case, 4 lbs.			20	
XT Breakers	GE/ABB	XT5SU3400BFK000XXX	Plastic molded case, 10 lbs.			20	
		XT5SU3600BFK000XXX	Plastic molded case, 10 lbs.			19	
		XT1*/XT4*/XT5*/XT6*	Plastic molded case, 2-19 lbs.			Interp	
		XT6NU3800BFK000XXX	Plastic molded case, 19 lbs.			19	
Notes: ¹ GE or ABB may be bra	anded on product, prod	ucts are identical.					





	ABB EntellEon			TABLE 3	
uilding Code: CBC 201	9, IBC 2018	Seismic Certifica	tion Limits: $S_{DS} = 2.0 g z/h = 1.0$	I _P = 1.5	
Component Type	Manufacturer ¹	Model	R CODE Description	Not	es UUT
		A2A125TW	Plastic molded case, 3 lbs.	125A	23
A Breaker	GE/ABB	A2*	Plastic molded case, 3 lbs.	125A-225A	Interp
		A2A225TW	Plastic molded case, 3 lbs.	225A	21
Thermal Magnetic		THQB2110	Plastic molded case, 1 lb.		21,23
Circuit Breaker	GE/ABB	THQB32100	Plastic molded case, 1 lb.		21,23
		BY. [™]	Timothy J. Piland		
			E: 11/02/2023		
		CIDAI	E. 11/02/2023		
		P			
		A			
			DILDING		
otes:			1		I
	nded on product, product	s are identical.			



1900458-CR-001-R3

Manufacturer: Model Line:	ABB A-Series Lighting Pan	Table Description: Power Management System & Accessories eries Lighting Panel & Spectra Power Panel						
Building Code: CBC 20.	16	Seismic Certificatio	on Limits: S _{DS} = 2.0 g z/h = 1.0	$I_{P} = 1.5$				
Component Type	Manufacturer	Model	R CODE Description	Notes	UUT			
		EPM2200/ PL2200B1X	Plastic molded case, 10 lbs.		14			
	GE/ABB	2*, 3*, 5*, 6*, 7*,9*, PL pre-fix*, PQM*, T20CA*, EPM*	Plastic molded case, 10 lbs. DSP-0040		Interp.			
Lighting Panel &		PQMII-T20-CA	Plastic molded case, 10 lbs.		16			
Spectra Main Metering/ Electronic Metering Kits		O _{EPM} BY: Ti 4500/PL450027734C08LMOD	Mothy J. Piland Plastic molded case, 15 lbs.		15			
		AMP1B1 DATE	Plastic molded case		20			
		AMP1H5	Plastic molded case		19			
	Veris	ASPMETERA84AE	Plastic molded case		19			
	Trendpoint	PREMQENKH	Plastic molded case		22			
		TPME277Y06PP	Carbon steel and plastic, 8 lbs.		15			
Surge Protective Devices-SPD/ Transient Voltage Suppressor-TVSS	GE/ABB	TPHE*, TPME*, ATME*, ATHE*, THE*, TPHE*, TME*, TPLE*, TLE*, ATLE*	Carbon steel and plastic, 8-30 lbs.		Interp.			
		TPHE120S30PP	Carbon steel and plastic, 30lbs.		15			
Process Control Unit (PCU) - Meter Head 1 and 2	GE/ABB	APCU151FNDPDHH	Carbon steel, meter head 2, 40 lbs.	Two PCUs tested; one mounted on meter head 1 and one mounted on meter head 2	16			

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com



1900458-CR-001-R1

	BB -Series Lighting Panel &	nagement System & Accessories TABLE 4			
Building Code: CBC 2016		Seismic Certificati	ion Limits: S _{DS} = 2.0 g z/h = 1.0	I _P = 1.5	
Component Type	Manufacturer	Model	CODE Description	Notes	s UUT
Generator Connection Receptacles	Hubbell	HBLFRSBN	1 lbs. OSP-0040		17
Lighting Contactor	GE/ABB	CR1600MCC	2 lbs.		12
Panel Board Switch ¹	GE/ABB	ADS36120LB	Carbon steel, 30 lbs.		13
	Trendpoint –	CTTG-125 PREMQSPCT751N	. 110212023		22 22
Current Transformer	GE/ABB -	3P56-SD-12871EC E682D401V3			19 20
		IA L	UILDING		

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com



anufacti odel Line		el & Spectra Power Panel				
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	۱ _P
1	225A AS Panel (ASF3122GB)	10276	Clark Testing	2.0	1	1.5
2	800A AS Panel (ASF3368KBX)	10276	Clark Testing	2.0	1	1.5
3	800A AS Panel (ASF3124DTX)	10276	Clark Testing	2.0	1	1.5
4	225A AS Panel (ASF3122GT)	FOR10276 DE C	Clark Testing	2.0	1	1.5
5	L.S.	NOT USE	D			
6	800A AS Panel (ASF3122GTX)	0 ¹⁰²⁷⁶ -0040	Clark Testing	2.0	1	1.5
7	225A AQ Pan <mark>el</mark> (AQL3422ATX AX <mark>B4M9</mark>)	52868-1 BY: Timothy J. Pilar	NTS-Huntsville	2.0	1	1.5
8	225A AD Pan <mark>el</mark> (ADF3842MTX AX <mark>B4MR</mark>)	52868-1	NTS-Huntsville	2.0	1	1.5
9	R	NOT USE	D			
10	225A AQC Panel (AQC3422MTX AXB4)	52868-1	NTS-Huntsville	2.0	1	1.5
11		BUILDNOTUSE	D			
12	225A AQ Panel (AQF3302MTSX AXB7)	52868-1	NTS-Huntsville	2.0	1	1.5
13	Spectra Fusible Switch Power Panel	46922-1 (UUT E1)	NTS-Huntsville	2.0	1	1.5
14	250A Spectra Power Panel	2346B rev.2 (UUT1)	Clark Testing	2.5	1	1.
15	1200A Spectra Power Panel	2346B rev.2 (UUT2)	Clark Testing	2.5	1	1.
16	250A Spectra Power Panel	2346B rev.2 (UUT3)	Clark Testing	2.5	1	1.



UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	۱ _Р
17	1200A GenTower Outdoor Spectra Power Panel	2346B rev.2 (UUT4)	Clark Testing	2.5	1	1.
18	1200A Spectra Outdoor Power Panel	2346B rev.2 (UUT5)	Clark Testing	2.5	1	1.
19	AS Panelboard AL Bus NEMA 3R	ABB JID 19-00474 Seismic Test Report Rev. 1 (UUT1)	Clark Testing	2.0 2.5	1 0	1.
20	AS Panelboard AL Bus NEMA 2	ABB JID 19-00474 Seismic Test Report Rev. 1 (UUT2)	Clark Testing	2.0 2.5	1 0	1.
21	AS Panelboard CU Bus NEMA 4X	ABB JID 19-00474 Seismic Test Report Rev. 14 (UUT3)	Clark Testing	2.0 2.5	1 0	1.
22	AS Panelboard CU Bus NEMA 4X	ABB JID 19-00474 Seismic Test Report Rev. 1 (UUT4)	Clark Testing	2.0 2.5	1 0	1.
23	AQ Panelboard Al Bus NEMA 2	ABB JID 19-00474 Seismic Test Report Rev. 1 (UUT5)	Clark Testing	2.0 2.5	1 0	1.
		NIA BUILDING	CODE			
tes:						



Manufacturer:	ABB									4
Model Line:	A-Series L	ghting Panel & Spec	tra Power	Panel				Ľ	JUT	L
Model Number:	225A AS P	anel (ASF3122GB)			Serial Nu	ımber:	N/A			
Product Construc 16 ga Cold-Forme		NEMA 1								
	im Bus, Heat-Rat	y: ed Unplated Copper PN: FEN34AA0225R)		DE	es Breake		5A (PN: TE	EYD3015B	, TEYD312	25B), FE
		NEL								
Wainht		Distancian (in)	UUT Pro	operties		Z	+ Netwol	F vo e vo e	ev (11-)	
Weight (lb)	Depth	Dimension (in) Width	DSH	ight40	Eront	-Back	t Natural	-Side		tical
85	6	20				/A		/A		/A
		UUT Highest						//		,,,,
Buildir	ng Code	Test Crite		S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	2016	ICC-ES AC156	(2010) 1/(02/2002		1.5	3.20	2.40	1.33	0.53
Test Mounting De		CRAVIA .		DING	coof					
Unit maintained s	structural integri	our (4) 5/16"-18 Grad ty and remained fun per operating condi	ictional per	r manufac	turer requ	uirement	after shal	ke table to	est.	

1900458-CR-001-R3



Manufacturer:	ABB									•
Model Line:	A-Series L	ighting Panel & Spec	tra Power	Panel				l	JUT	2
Model Number:	800A AS P	anel (ASF3368KBX)			Serial Nu	ımber:	N/A			
Product Construct	ion Summary:									
16 ga Cold-Formed	Carbon Steel -	- NEMA 1								
Options/Subcomp		-								
		Copper Bus, STEY Co				N: TEYD3	015B, TEY	D3125B),	SK Spect	ra
Series Breaker 800	A (PN:?), TJ Coi	re Series Breaker 600)A (PN: TJJ	436600WL)					
		- (R CO	DFC						
		DFU		WWW	Mp,					
		NE								
		L'	UUT Pro	operties		Z				
Weight		Dimension (in)					t Natural			
(lb)	Depth	Width		ight40	100	-Back		-Side		tical
310	8	30		9	1000	/A	N	/A	N	/A
		UUT Highes	memy		· · · · · · · · · · · · · · · · · · ·					
Building	; Code	Test Crite	ria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2	016	ICC-ES AC156	(2010) 1/	022002	3 1.0	1.5	3.20	2.40	1.33	0.53
		Z		222222222	areana					
Test Mounting Det	uns.				1-2-6	N				
		PAU			LON	· ·				
		AIN	DUT	TALG	C					
			BOIL	DING						
			1.1.0							
		1000			110					
			200							
		1 A A	1							
		- initi								
		Fabric St			100					
		1.50								
		1.100			1					
				-						
UUT is wall mounte	ed-rigid with fo	our (4) 3/8" -16 Grade	5 bolts							
	-	ity and remained fun		- manufact	urer reau	uirement	after shal	ke table te	est.	
	-	per operating cond								

1900458-CR-001-R3



Manufacturer:	ABB							_		
Model Line:		ighting Panel & Spec	tra Power Pane	l				l	JUT	3
Model Number:		anel (ASF3124DTX)			Serial Nu	ımber:	N/A			
Product Construc 16 ga Cold-Forme	-	NEMA 1								
	m Bus, 800 PSI (r y: Copper Bus (PN:TEYI cord Plus Series Brea		GN36A		0)	D3125B), S	SE Spectra	a Series E	Breaker
		ALL	UUT Propert							
Weight		Dimension (in)	001 Propert	les		Towes	t Natural	Frequen	CV (H7)	
(lb)	Depth	Width	OS Height	10	Front	-Back		-Side		tical
130	8	20	56			/A		/A		/A
		UUT Highes	t Passed Seismi	c Run I				·		,
Buildin	g Code	Test Crite	eria S _{DS}	(g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2016	ICC-ES AC156	(2010) 1/022	2023	3 1.0	1.5	3.20	2.40	1.33	0.53
Test Mounting De		- CRAA		IG	-004					
Unit maintained s	tructural integri	our (4) 5/16"-18 Grad ity and remained fur per operating cond	nctional per man	ufactu	-		after shak			



Manufacturer:	ABB									A
Model Line:	A-Series L	ighting Panel & Spe	ectra Powei	Panel					JUT	4
Model Number:	225A AS F	Panel (ASF3122GT)			Serial Nı	ımber:	N/A			
Product Construc	-									
16 ga Cold-Forme	d Carbon Steel	- NEMA 4								
Options/Subcomp 750A PSI Aluminu		ry: ted Unplated Copp	er Bus, STE	Y Core Serie	es Breake	er 15A, 12	25A (FEN34	AA0250R)	
		NEDF	ORCO		OMp,					
Weight		Dimension (in		roperties		Towes	st Natural	Frequen	cv (Hz)	
(lb)	Depth	Width		ight40	Front	-Back	1	-Side	1	tical
97	6	20 /// 20	_	44		/A		/A		/A
-		UUT Highe	st Passed S	eismic Run	Informa	tion				
Buildin	g Code	Test Crit	teria	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2016	ICC-ES AC15	6 (2010)	02/2002	3 1.0	1.5	3.20	2.40	1.33	0.53
		CRNIA	BUIL	DING	cook					
	-	our (4) 5/16" -18 Gra ity and remained fu		or manufact		irement	after shal	(e table t	ast	



	455									
Manufacturer:	ABB								JUT	6
Model Line:		shting Panel & Spec	tra Powe							•
Model Number:		nel (ASF3122GTX)			Serial Nu	imber:	N/A			
Product Construc	-									
16 ga Cold-Forme	d Carbon Steel - I	NEMA 4								
Options/Subcom	ponent Summary	:								
		opper Bus, STEY Co						D3125B),	SK Spect	ra
Series Breaker 80	0A (PN: SKLA36A)	10800), FG Record P	lus Series	Breaker 60	0A (PN: F	GN36AA	0600R0)			
		DFC	RCC	DEC	OMp,					
		WEL	UUT P	roperties		-				
Weight		Dimension (in)				Lowes	st Natural	Frequen	cv (Hz)	
(lb)	Depth	Width	OSR	eight40	Front	-Back		-Side		tical
188	6	20		56	N,	/A	N	/A	N	/A
		UUT Highest	Passed S	eismic Run	Informa	tion 💦				
Buildin	g Code	Test Crite	ria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2016	ICC-ESAC156	(2010)	02/2002	3 1.0	1.5	3.20	2.40	1.33	0.53
Test Mounting De			BUT							
	-	ir (4) 3/8"-16 Grade y and remained fun		er manufact	urer reau	uirement	after shal	ke table ti	est.	
	-	per operating condi			urer requ	mement	ance shar			
		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								

1900458-CR-001-R3



Manufacturer:	ABB							_		
Model Line:	A-Series L	ighting Panel & Spect	ra Power	Panel					JUT	1
Model Number:	225A AQ P	Panel (AQL3422ATX AX	(B4M9)		Serial Nu	ımber:	N/A			
Product Construe	tion Summary:									
16 ga Cold-Forme	d Carbon Steel -	- NEMA 1								
Options/Subcom		r y: dential Circuit Breake	or 154 (PN)			esidenti	al Sarias B	roakor 20		
TQD32200WL)	Dus, mge Kesk		.1 10/111	merri	.5/, TQD N	condentio	at Series D		<i>6/1</i> (1 14.	
		-0	RCO	DEC						
		SIED FO			OMp,					
Walakt			UUT Pro	operties		Z	t Notural	F		
Weight (lb)	Depth	Dimension (in) Width		ght40	Eront	-Back	t Natural	-Side		tical
27	5	10		2	100	- Dack /A				/A
21	5	UUT Highest						N/A		/₼
Buildir	ng Code	Test Criter	ungary_	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC	2016	ICC-ES AC156 (2004) 1/	02/2002	3 1.0	1.5	3.20	2.40	1.33	0.53
Test Mounting De	tails:				BBBB	2				
						1				
				AL P	0					
		TRE LE DE T	3 Company	DING	CTAR.					
			E CEL		-		<u></u>			
		F		a	TEN					
	ENI		3 . 5							
	1 3						1			
		TNI	1 Hand		Les in					
				Fi						
	5						-			
	E.			14	1 F		2			
				CALLER DESIDENT	and the second se	10 mil				
				5	11					
					- And		1			
			#				7			
			11			1	7			
	-) 1/4"-20 Grade 5 bolt					aftershel	(0 + 0 b 0 +	act	
Unit maintained s	structural integri) 1/4"-20 Grade 5 bolt ity and remained func g per operating condit	ctional per	manufac	turer requ	uirement	after shak	ke table to	est.	



Manufacturer:	ABB									0
Model Line:	A-Series Li	ghting Panel & Spect	tra Power	Panel					JUT	8
Model Number:	225A AD Pa	anel (ADF3842MTX A)	(B4MR)		Serial Nu	ımber:	N/A	-		
Product Construc 16 ga Cold-Forme	-	NEMA 1								
	Bus, SE Spectra	y: Series Breaker 150A A (PN: FBV36TE100R		DE	, SE Spect		Breaker 1	.50A (PN:	SEHA34A	.0150),
		AL.				~				
Weight		Dimension (in)	001 PR	operties		Towos	t Natural	Eroquon	c) (7)	
(lb)	Depth	Width	OSH	ight40	Front	-Back		-Side		tical
266	6	20				/A		/A		/A
200	,	UUT Highest						,		// .
Buildin	g Code	Test Criter	шношту	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2016	ICC-ESAC156	(2004) 1/	02/2002	3 1.0	1.5	3.20	2.40	1.33	0.53
Test Mounting De				ING	conf					
Unit maintained s	tructural integri	ur (4) 1/4"-20 Grade 5 ty and remained fund per operating condit	ctional pe	r manufac	turer requ	uirement	after shal	ke table to	est.	

1900458-CR-001-R3



Manufacturer:	ABB							_		-
Model Line:	A-Series L	ighting Panel & Spec	tra Power	Panel				U	UT 1	.0
Model Number:		Panel (AQC3422MTX			Serial Ni	umber:	N/A			
Product Construct	-		,				,			
16 ga Cold-Forme										
Options/Subcomp		ry: idential Series Break	or 1001 (D		100)					
1000AT SI COpper	bus, mgb kes	idential Series Dreak			100)					
			DCC							
		FC)K CC		Ms					
		NED			(VS)					
		<u> </u>	UUT Pr	operties		T				
Weight (lb)	Dauth	Dimension (in)	DCD.	0010			st Natural			tical
100	Depth 6	Width 9		right40		- Back /A		- Side /A	-	/A
100	0	UUT Highest			10000			/A	IN IN	/A
Buildin	g Code	Test Crite	mony	S _{DS} (g)	z/h	I I _P	A., y., (9)	A _{RIG-H} (g)	A(g)	A
	-						/			
CBC 2	2016	ICC-ES AC156	(2004) /	022002	3 1.0	1.5	3.20	2.40	1.33	0.53
					COD					
					6					

1900458-CR-001-R3



Manufacturer:	ABB									
Model Line:		ighting Panel & Spe	ectra Powe	r Panel				U	UT 1	.2
Model Number:		anel (AQF3302MTS			Serial Nu	mber:	N/A			
Product Construc	-		,				1			
16 ga Cold-Forme	-	- NEMA 1								
Options/Subcomp		-							-	
1000A PSI Copper	Bus, 160MC Col	ntactor (PN: CR160)	AC), THQB	Residential	Series Br	eaker 10	00A (PN: TH	HQB32100))	
		E	ORCU	DDE C	24					
		ED			OMp,					
		L.	UUT P	roperties						
Weight		Dimension (in				Lowe	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSFA	eight40	Front	-Back	Side	-Side	Ver	tical
156	6	20		77		/A	N	/A	N	/A
		UUT Highes						r	1	
Buildin	g Code	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2016	ICC-ES AC15	6 (2004)	/02/2002	3 1.0	1.5	3.20	2.40	1.33	0.53
Test Mounting De	4 11	Z	1000100	88888888 •	ALAALA	2				
, , , , , , , , , , , , , , , , , , ,					- 4					
		PAIN			TA					
		ALA	BIIT	DIAIG	C					
		A STE								
		E H		8	T					
			FF							
		1	and and							
			7							
			3							
		N.C.	1. 1	•						
					4					
			1. 4							
			1							
				States and	3					
UUT is wall moun	ted-rigid with fo	our (4) 1/4"-20 Grade	e 5 bolts.							
Unit maintained s	tructural integr	ity and remained fu	nctional pe	er manufact	turer requ	iirement	t after shal	ke table t	est.	
Contents were inc	luded in testing	per operating cond	ditions.							

1900458-CR-001-R3



Manufacturer:	ABB									
Model Line:	A-Series Li	ghting Panel & Spe	ctra Power I	Panel				U	UT 1	.3
Model Number:		ble Switch Power Panel			Serial Nu	ımber:	N/A			
Product Construct	-		,	,			,			
16 ga Cold-Forme	-	NEMA 1								
Options/Subcomp		y: itch (PN: ADS36120	I B)							
1000AT SI COpper	bus, i usible Sw	nen (i n. 70330120	LD)							
			DCO	DE						
		F	DRCO		Mp,					
		JED I			MS,					
		L'	UUT Pro	perties		T				
Weight		Dimension (in)					t Natura		1	
(lb)	Depth	Width	OSHei	-	100	-Back		-Side		tical
300	16	44		6		/A	N	I/A	N	/A
		UUT Highes					-	1	1	1
Buildin	g Code	Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC2	2016	ICC-ES AC156	(2010) 1/()22002	3 1.0	1.5	3.20	2.40	1.33	0.53
Test Mounting De	tails		10000000	HARAA	ALARA	6				
		O.M.	F	調査						
		1								
			5П1 г	TN						
			UILL			22				
				A STATE						
		Y R				T				
		1997 - 1997 -			-					
		a and a second se				ō				
			<u>.</u>							
		-	EL							
			Contractor of the local division of the loca			2.5 2 - 1 2				
			and the second s							
				- 1-2						
UUT is wall mount	ted-rigid with fo	ur (4) 3/8"-16 Grade	5 bolts.							
	-	ty and remained fur		manufact	turer requ	uirement	after sha	ke table t	est.	
	-	per operating cond								
					TRILCom	nliance	by Structi	iral Integ	rity Assoc	inton In

1900458-CR-001-R3



lodel Line:	ABB								UT 1	Л
	A-Series L	ighting Panel & Spect	ra Power F	Panel				U		.4
Iodel Number:	250A Spec	ctra Power Panel			Serial Nı	ımber:	APFT651	8NSFP		
roduct Construct	-									
nterior APNB1802										
EMA 1 Cold-form	ed carbon stee	1								
ptions/Subcomp	onont Summa	P174								
		r y: ker 15A x 1 (PN: FBV36	TF015R2)	FB Break	-r 100A x	1 (PN· FI	BV36TF100)R2) Reco	ord Plus F	G 250A
		lectronic Meter Kit - E					DVSOILIO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0 2007
			200	Dr	,					
		FC	RCO	DEC	20					
		ED.			Ms,					
		IS I	UUT Pro	perties						
Weight		Dimension (in)				Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSHei	ght40	Front	-Back	Side	-Side	Ver	tical
258	11.5	27	6	5	N	/A	N	/A	N	/A
		UUT Highest	Passed Se	ismic Run	Informa	tion 💦				
Building	z Code	Test Criter	ria	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC 2	2016	ICC-ES AC156	2010) 1/()22302	3 1.0	1.5	4.00	3.00	1.67	0.67
est Mounting Det	,	Z	3488888	2022200	a orbahi					
				ANG	cobi	r)				

1900458-CR-001-R3



Manufacturer:	ABB									-
Model Line:	A-Series L	ighting Panel & Spe	ctra Power I	Panel				U	UT 1	.5
Model Number:	1200A Spe	ectra Power Panel			Serial Nu	umber:	APF9643	WDH		
Product Construe	tion Summary:									
NEMA 1- Cold-Fo	rmed Carbon Ste	eel								
Options/Subcom	ponent Summai	ry:								
		PB4496; Front: APFT			•••	•				
	-	e Device (SPD) or Tra		-	ressor TVS	5S (PN: T	PHE120S3	80PP), Sur	ge Proteo	ctive
Device (SPD) or T	ransient Voltage	Suppressor TVSS (F	PN: TPME27	7Y06PP)						
		OF			Nr.					
		ALL								
Weight		Dimension (in)	UUT Pro	operties		Towe	st Natural	Frequen	cv (Hz)	
(lb)	Depth	Width	OSHei	ent40	Front	-Back	1	-Side		tical
800 16.25 44 96 N/A N/A N/A										
		UUT Highes	t Passed Se	ismic Run						,
Buildir	ng Code	Test Crite	eria	$S_{DS}(g)$	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2016	ICC-ES AC156	6 (2010) 1/()22502	3 1.0	1.5	4.00	3.00	1.67	0.67
Toot Mounting D	4-11-	Z			an Contratta	21				
Test Mounting De	etans:				SSS.	V				
1		Open 1		1000		~				
1		- HAV			COV					
			BITIS	ING	C					
		1.1	1	11						
			25	1						
				STINE						
				-T						
			and a state of the	31						
			M							
			1000	100						
		3.2	1000							
			E L. B							
	-	our (4) 3/8"-16 Grade		manufaa	turor roc	iromon	taftarahal	(o table t	oct	
	-	ity and remained fui gper operating cond		manufac	turer requ	inemen	Laiter shal	ke lable te	:51.	
Contents were III	ciaded in testilly						_			

1900458-CR-001-R3



Manufacturer:	ABB									
Model Line:	A-Series Lig	hting Panel & Spec	tra Power	Panel				U	UT 1	.6
Model Number:	250A Spect	ra Power Panel			Serial Nu	ımber:	APN2302	2FH1A		
Product Construe NEMA 4/4X-Stainl	-									
Interior: APN2302 APCU151FNDPDF	HH), Process Cont	: 366523T, Al Bus Hea rol Unit PCU with Po PN: SEHA36AT0150)	QM Meter	- Meter Hea	d 2 (PN: /	APCU151	FNDPDH	H), Spectr	a SE 15A (
			UUT Pr	operties		Z				
Weight		Dimension (in)		0040			t Natural	-		
(lb)	Depth	Width		eight40		-Back		-Side		tical
452	16.6	36.2		65		/A	N,	/A N/A		/A
Desilalia	a Codo	UUT Highest					a (-)		a (1)	
	n g Code 2016	Test Crite		S _{DS} (g)	z/h 3 1.0	І _Р 1.5	А_{FLX-H} (g) 4.00	А _{кід-н} (g) 3.00	Α_{FLX-V} (g) 1.67	А_{RIG-V} (g) 0.67
Test Mounting De										
Unit maintained s	structural integrit	r (4) 1/2" -13 Grade y and remained fun per operating condi	ctional pe	er manufact	urer requ	uirement	after shak	ke table to	est.	



Manufacturer:	ABB									
Model Line:		ighting Panel & Spe	ectra Power	Panel				U	UT 1	.7
Model Number:		nTower Outdoor Sp			Serial Nu	ımher•	GQCP208	L		
Product Construc				Tunct	Schutha		0001200	51201111		
NEMA 3R Cold-for	-									
Options/Subcomp		-								
		(1200A x 1 (PN: SKI		, Spectra	SK 1200A	x 1 (PN:	SKLA36AT	1200), Ge	nerator	
Connection Recep	oticles x 12 (4 pe	r phase) (PN: HBLF	RSBN)							
		EDF	ORCO	DEC	Mp,					
		4	UUT Pro			T			(
Weight (lb)	Dawth	Dimension (in		2010	F		st Natural	-		+:!
683	Depth 20	Width 44	<u>OS</u> Hei	gnt40 5		-Back /A		- Side /A		tical /A
085	20	A-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-	st Passed Se	-				/A	IN	/A
Buildin	g Code	Test Crit		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2016		6 (2010) 1/(3 1.0	1.5	4.00	3.00	1.67	0.67
CDC	2010) Z Z 20 Z	5 1.0	1.5	4.00	5.00	1.07	0.07
			BUILE	DING						
	tructural integri	our (4) 1/2"-13 Grad ity and remained fu		manufact	turer requ	uirement	t after shak	ke table to	est.	

1900458-CR-001-R3



	ABB								0
Model Line:	A-Series L	ighting Panel & Spect	ra Power Panel				U		.ð
Model Number:	1200A Spe	ectra Outdoor Power I	Panel	Serial N	umber:	APNB23	L2FB4A		
Product Construct	-								
NEMA 3R Cold- foi	med carbon st	eel							
Options/Subcomp	onent Summai	ſy:							
		A), Panel Box (PN: API							
TEY3100), TQD 100)A (PN: TQD321	00WL), Record Plus FO	G 600A (PN: Record	d Plus FG 6	00A), Spe	ectra F 250	A x 14 (Pi	N: SFHA36	6AT0250)
		NED FO	RCODE	ONIS					
		L.	UUT Properties		P				
Weight		Dimension (in)	OSHeight40			st Natural			
(lb)	Depth	Width		-Back	Side-Side N/A			tical	
529	14.6	31.2	89.7 Passed Seismic R i		/A	N	/A	N	/A
Building	7 Code	Test Criter	<u>unoury o. i ne</u>		I IP	Δ(σ)	Δ	A _{FLX-V} (g)	Δ(σ)
CBC 2	_	ICC-ES AC156 (23 1.0	1.5	4.00	3.00	1.67	0.67
Test Mounting Det	haila.	Z	13111111111111		2				
				STING					

1900458-CR-001-R3



Manufacturer:	ABB									•
Model Line:	A-Series I	ighting Panel & Spe	ctra Powe	r Panel				U	L TU	.9
Model Number:	AS Panell	board			Serial Nı	ımber:	N/A			
Product Construe	tion Summary:	:								
NEMA 3R Cold-foi	rmed carbon ste	eel								
Options/Subcom	ponent Summa	rv:								
• • •	•	Breaker XT6 (PN:XT6	NU3800BF	- KOOOXXX), E	Breaker X	T5 (PN:X	T5SU3600	BFK000X	XX), Breal	ker STE
• •		PN:TEYL1015B) Mete								
meter (PN:ASPME			DCC				-			
		F	JKC		DA.					
		NED			Ys,					
		L.		roperties		T				
Weight		Dimension (in)		eight40			st Natural	-	<u> </u>	
(lb)	Depth	Width	Front-Back		Side-Side		Vertical			
306	8	30		89		/A	N	/A	N	/A
		UUT Highes	- mueni	,						
Buildir	ng Code	Test Crit	eria	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	А _{rig-н} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2016	ICC-ESAC15	6 (2010)	/02/202 2.5	3 1.0 0.0	1.5	3.20	2.40	1.67	0.67
	taile.		422222222	2.5	0.0	8				
Test Mounting De	etans:			1111111	HHHA	N				
	and the second					i/2	F			
	100	TAIT		MMA TELEVISION	cov	119	1			
		A	BI ITI	DING	6	11	1			
	and the second		POIL	DI		H	1-			
	To a local division of the local division of	- 01								
		7	0		TAT	TH	1 1			
					C.P.	TE	CLI			
					TSIS		and the second			
					TER		YA			
					-		T-			
	19 11				1	-	1515			
			1				E			
		S	7				A A			
		LE C				10				
	-	r (4) 3/8"-16 bolts w								
	structural integr	rity and remained fu	nctional p	er manufact	turer requ	uirement	after shak	ke table t	est.	
	1 1 1 • • • • •	g per operating conc			•					

1900458-CR-001-R3



Manufacturer:	ABB									
Model Line:		ghting Panel & Spe	ctra Powe	r Panol				U U	UT 2	20
Model Number:	AS Panel	Sinting i uner d'ope	citar owc	in anet	Serial Nu	mher	N/A			
Product Construct					oenatina	møen	14/7			
NEMA 2 Cold-form	-									
Options/Subcomp	onent Summary	/•								
Aluminum Bus 800	DA (PN:Al-0800), K000XXX, Breake	Breaker XT4 (PN:X er STEY (PN:TEYD3		eaker STEY					IP1B1), M	eter
		1. Star	UUTP	roperties		T				
Weight		Dimension (in)	Mark Mark Mares			Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSF	eight40	Front	Back	Side	-Side	Ver	tical
287	6	20		89	N/	Ά	N	/A	N,	/A
		UUT Highes	t Passed :	Seismic Rur	Informat	tion		1		
Buildin	g Code	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2016	CICC-ESAC15	6 (2010)	/ 02/202 2.5	3 1.0 0.0	1.5	3.20	2.40	1.67	0.67
	d-rigid with four	(4) 5/16"-18 bolts v								
Unit maintained s	tructural integrit	y and remained fu	nctional p						est.	
Contents were inc	luded in testing	per operating conc	litions.							

1900458-CR-001-R3



Manufacturer:	ABB									
Manufacturer: Model Line:		ighting Panel & Spect	tra Dowor D	Danol				U	UT 2	21
Model Number:	A-Series L AS Panelt		liaroweir		Serial Nu	mber:	N/A			
Product Construc							,,,			
NEMA 4X stainless	-									
Options/Subcom	ponent Summa	ry:								
• •		THQB Breaker (PN:TH	IQB32100),	, THQB Br	eaker (PN	: THQB2	110), A2 B	Breaker (P	N: A2A22	5TW),
Breaker XT1 (PN:	XT1NU3125AFD	000XXX)								
			RCO	DEC						
		(DFC			Mp,					
		, N ^L								
Weight		Dimension (in)	UUT Pro	perties		Z	t Natural	F wa a a a	ev (11-)	
(lb)	Depth	Width	OSFlei	aht40	Front		1	-Side		tical
110	8	20	3	-	N/			/A		/A
	0	UUT Highest			10000		<u> </u>	//		,,,,
Buildin	ng Code	Test Criter		S _{DS} (g)	z/h	Ι _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	2016		(2010) 1 //	2.0	2 1.0					0.67
CBC	2016	ICC-ES AC156		2.5	0.0	1.5	3.20	2.40	1.67	0.67
Test Mounting De	etails:					2.				
	In Style	TOM		STR		1/2				
					-02	Sel.		L		
			SETTIE	TENIG						
			AGIN .							
	1		IT I I		Nor 3 10 - 20 - 1			/		
								-		
	ON #5				F 1					
	195									
				·			14			
			L	-		all a				
				TE	-te		E	11		
	FIL		-	EL						
	3									
	10 m f	17. 28 J				7				

UUT wall mounted-rigid with four (4) 3/8"-16 bolts washers and lock washers. Bolts were torqued to 31 ft./lbs. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



Manufacturer:	ABB									
Model Line:	A-Series L	ighting Panel & Spect	tra Power I	Panel				U	UT 2	22
Model Number:	AS Panelb	• • •			Serial Nu	ımber:	N/A			
Product Constru NEMA 4X stainle	uction Summary: ss steel									
Copper Bus 800	(PN:TEYD1015B),	ry: SK Breaker (PN: SKHA Trendpoint meter (PI		ENKH), Tr	-	CT (PN:C			•	
Weight		Dimension (in)	001 PI0	perties		Towos	t Natural	Eroquon	cv (Ц7)	
(lb)	Depth	Width	OSFilei	abt 40	Eront	-Back	1	-Side		tical
316	8	30	8	-	100	/A		-3ide /A		/A
510	0	UUT Highest			1000			/^	IN,	/^
Build	ing Code	Test Criter	шпочту –	S _{DS} (g)	z/h	I _P	Arryn (g)	A _{RIG-H} (g)	Arivy(g)	Anic v (g)
	C 2016	CICC-ESAC156		2.0	3 1.0 0.0	1.5	3.20	2.40	1.67	0.67
				DING						
Unit maintained	structural integr	r (4) 3/8"-16 bolts was ity and remained func g per operating condit	ctional per	manufact	urer requ	uirement		ke table te		iates, Inc

ABB

A-Series Lighting Panel & Spectra Power Panel

1900458-CR-001-R3



UUT 23

Manufacturer:

Model Line:

Model Number: AQ Panelboard

Serial Number: N/A

Product Construction Summary:

NEMA 2 Cold-formed carbon steel

Options/Subcomponent Summary:

Al Bus 125A (PN:Al-0125), XT1 Breaker (PN: XT1NU3015AFD000XXX), A2 Breaker (PN: A2A125TW), THQB Breaker (PN: THQB32100), THQB Breaker(PN:THQB2110)



			UUT Pre	operties		5						
Weight		Dimension (in)				Lowest Natural Frequency (Hz)						
(lb)	Depth	Width	OSHeight40		Front-Back		Side-Side		Vertical			
78	8	20		32		N/A		/A	N/A			
	-	UUT Highe	st Passed Se	eismic Run	Informa	tion						
Build	ing Code	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2016			6 (2010) 1/	2.0	3 1.0 0.0	1.5	3.20	2.40	1.67	0.67		

Test Mounting Details:



UUT wall mounted-rigid with four (4) 3/8"-16 bolts washers and lock washers. Bolts were torqued to 31 ft./lbs. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.