

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FO	R HCAI SPECIAL SEISMIC	OFFICE USE UNLT				
	REAPPROVAL (OSP)	APPLICATION #: OSP-0721				
HCAI Special Seismic (Certification Preapproval (OSP)					
Type: X New F	Renewal					
Manufacturer Informati	on					
Manufacturer: Anord Ma	ardix					
Manufacturer's Technical R	Representative: Barry McCullough					
Mailing Address: Northlink	Business Park, Coes Road East, Dundalk, Co Lout	th, Ireland, A91 V9VX				
Telephone: +353 87 7836	904 Email: Barry.McCullough	@anordmardix.com				
Product Information	TED .					
Product Name: Switchgear	/Switchboards	1 the				
Product Type: Switchgear	- Low Voltage	2				
Product Model Number: A	MX 1558, AMX 891	- m				
General Description:	ow Voltage Switchgear in NEMA 1 and NEMA 3R E	nclosures				
Mounting Description: Ri	igid, Flo <mark>or Mo</mark> unted					
Tested Seismic Enhancem	ents: Seismic enhancements made to the test u anomalies during the tests shall be incorpo	nits and/or modifications required to address prated into the production units.				
Applicant Information	00	Here and the second sec				
Applicant Company Name:	Structural Integrity Associates, Inc.					
Contact Person: Katie Bra	iman 'SUILDING					
Mailing Address: 233 SW \	Wilson Suite 101, Bend, OR 92201					
Telephone: (541) 526-194	7 Email: kbraman@structint	t.com				
Title: Program Manager, T	RU Compliance					

HCA



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Resp	oonsible for the Engineering and Test Report(s)
Company Name: STRUCTURAL INTEGRITY ASSO	CIATES, INC.
Name: Andrew Coughlin	California License Number: S6082
Mailing Address: 5215 Hellyer Ave, Suite 101, San J	lose, CA 95138-1025
Telephone: (415) 635-8461 E	mail: acoughlin@structint.com
Certification Method	
GR-63-Core X ICC-ES AC156	☐ IEEE 344
Other (Please Specify):	
Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025 Telephone: (415) 635-8461 Email: acoughlin@structint.com Certification Method GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3	
Testing Laboratory	Mp
Company Name: ENVIRONMENTAL TESTING LAB	ORATORIES, INC. (ETL)
Contact Person: Jeremy Lange	
Mailing Address: 11034 Indian Trail, Dallas TX 7522	9-3513
Telephone: (972) 247-9657	AL INTEGRITY ASSOCIATES, INC. California License Number: S6082 Ave, Suite 101, San Jose, CA 95138-1025 Email: acoughlin@structint.com I ICC-ES AC156 I IEEE 344 I IEEE 693 NEBS 3 ENTAL TESTING LABORATORIES, INC. (ETL) Je Trail, Dallas TX 75229-3513
DAT	E: 04/06/2022
RNIT	
-12	BUILDING

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design	Basis of Equipment or Components	(Fp/Wp) =	1.2 at SDS - 2.0 at z/h =	1 and 1.13	at SDS = 2.5 g at z/h = 0
S	SDS (Design spectral response accele	eration at sho	ort period, g) = 1.60 ; z/h =	= 1; 2.00; z	:/h = 0
а	p (Amplification factor) =	2.5			
F	Rp (Response modification factor) =	6.0			
C	20 (System overstrength factor) =	2.0			
١	o (Importance factor) =	1.5			
z	/h (Height ratio factor) =	1 and 0			
Ν	latural frequencies (Hz) =	See Attachr	ment		
C	Overall dimensions and weight =	See Attachr	ment ODF co		
		JEDFO			
HCAI /	Approval (For Office Use Only) -	Approval E	Expires on 04/06/2028	Y_	
Date:	4/6/2022		DSP-0721	R	
Name:	Mohammad Karim			Title:	Supervisor, Health Facilities
Special	Seismic Certification Valid Up to: SD	os (g) = See	e Above	z/h =	See Above
Conditio	on of Approval (if applicable):	DATE	· 04/06/2022		
		PRNIA B	UILDING CODE	1023	

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



TRU PROJECT NO. 1800993

Manufacturer:Anord Mardix Inc.Model Line:AMX 1558 Switchgear

Certified Product Construction Summary:

Carbon Steel G90 NEMA 3R Enclosure 12GA. Seismic enhancements made to the test units and modifications required to address the anomalies observed during testing shall be incorporated into the production units. Seismic enhancements and modifications are detailed on the "Seismic Upgrades" pages at the end of this document.

FORCODE

Certified Options Summary:

3 Phase, main bus up to 5000A

Mounting Configuration:

Base mounted - rigid; standalone

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

Building Code: CBC 2019		Seismic (Seismic Certification Limits:			$S_{DS} = 2.5 g z/h=0.0$			<i>I</i> _P = 1.5	
Model Line	Modet	Dir	mensions	(in) 1	TATATAS .	Max CG ³	³ Max	Enclosure		
	Model	Depth	Width	Height	(lb)	(in)	Tension ²	Туре	001	
AMX 1558 (Standalone)	36W- <mark>Type</mark> G	B 85.750	oha ₃₆ ma	ad <u>K</u> ərin	<mark>n 3</mark> 645.5	0 49	4932	NEMA 3	2	
	G	DATE	. 04/06	3/2022		61				
							T			
		PVA D		C C	00					
		. D	UILD	No		+				
						+	+			
			<u> </u>	<u> </u>	<u> </u>	+	+			
							<u> </u>			
		_			+	+	+			
1. Max. Tension Force = 49. 2. Max. CG height values ca					value.					



TABLE 1

TRU PROJECT NO. 1800993



TABLE 2

Manufacturer: Anord Mardix Inc. AMX 891 Switchgear

Model Line:

Certified Product Construction Summary:

Carbon Steel G90 NEMA 1 and NEMA 3R Enclosures 12GA. Seismic enhancements made to the test units and modifications required to address the anomalies observed during testing shall be incorporated into the production units. Seismic enhancements and modifications are detailed on the "Seismic Upgrades" pages at the end of this document.

Certified Options Summary:

3 Phase, Main Bus up to 6000A & fault rating up to 100kA for 60 cycles

Mounting Configuration:

Base mounted - rigid; standalone

FORC

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

uilding Code: CBC 2019	11 A	Seismic C	Seismic Certification Limits:			$S_{DS} = 2.0 g z/h=1.0$ $S_{DS} = 2.5 g z/h=0.0$			<i>I</i> _P = 1.5	
Model Line	Model					Weight Max CG ³ Max			υυτ	
		Depth	Width	Height	(lb)	(in)	Tension ²	Туре		
		BY24 ₁₀	har 1 5ma	d 91,5rin	275	51	935	NEMA 1	Extrap	
				••••					Extra	
		→ <u>36</u>	36/06	91.5	300	54	453		Extra	
	Type Aux	28	15	91.5	340	51	1156	NEMA 3R	Extra	
	Type Aux								Extra	
		40	36	91.5	412	54	623		Extra	
		24	15	91.5	275	51	935		Extra	
		14. D		Ci Ci				NEMA 1	Extra	
AMX 891	Type CC	36	$D_{36}D$	91.5	300	54	453		Extra	
(Standalone)		28	15	91.5	340	51	1156	NEMA 3R	Extra	
									Extra	
		40	36	91.5	412	54	623		Extra	
		24	15	91.5	360	55	1330		Extra	
								NEMA 1	Extra	
	T	36	18	91.5	400	55	1231		Extra	
	Type 1	28	15	91.5	424	56	1583		Extra	
								NEMA 3R	Extra	
		40	18	91.5	464	56	1444		Extra	

1. The interpolated unit's CG's are limited such that the maximum tension in any section is no greater than the maximum tested tension.

2. Max. Tension Force = 4472lbs. Tension force can not exceed the maximum value.

3. Max. CG height values calculated and provided by manufacturer.

TRU PROJECT NO. 1800993



TABLE 2

Manufacturer:Anord Mardix Inc.Model Line:AMX 891 Switchgear

Certified Product Construction Summary:

Carbon Steel G90 NEMA 1 and NEMA 3R Enclosures 12GA. Seismic enhancements made to the test units and modifications required to address the anomalies observed during testing shall be incorporated into the production units. Seismic enhancements and modifications are detailed on the "Seismic Upgrades" pages at the end of this document.

Certified Options Summary:

3 Phase, Main Bus up to 6000A & fault rating up to 100kA for 60 cycles

Mounting Configuration:

Base mounted - rigid; standalone

FOR CODE COL

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

Building Code: CBC 2019	E ST	Seismic C	ertificatio	on Limits:		2.0g z/l 2.5g z/l		I _P =	1.5
Model Line	Model	Din	Dimensions (in)		Weight	Max CG ³			UUT
Model Line	Model	Depth	Width	Height	(lb)	(in)	Tension ²	Туре	001
		BY24 _{VIO}	har <mark>22</mark> ma	d 91.5rin	750	<mark>5</mark> 8	1960	60	Extrap.
				••••	•••			NEMA 1	Extrap
	Type 2	36	27/06	91.5	800	60	1775		Extrap
		36	22	91.5	790	58	2072		Extrap
								NEMA 3R	Extrap
		40	27	91.5	935	60	2078		Extrap
	Type 3	36	36	91.5	950	59	1557	_	Extrap
		A.D		NIC: C				NEMA 1	Extrap
		36	JI 45 D	91.5	1565	60	2087		Extrap
AMX 891		40	36	91.5	1176	59	1927	NEMA 3R	Extrap
(Standalone)									Extrap
		40	45	91.5	3354	60	4472		8
		24	22	91.5	550	44	1100		Interp
									Interp
		36	22	91.5	1377	54	3360	NEMA 1	5
	Type 4								Interp
	iype 4	36	27	91.5	1377	54	2739		Interp
		40	22	91.5	614	44	1228		Interp
								NEMA 3R	Interp
		40	27	91.5	1377	54	2749		Interp

1. The interpolated unit's CG's are limited such that the maximum tension in any section is no greater than the maximum tested tension.

2. Max. Tension Force = 4472lbs. Tension force can not exceed the maximum value.

3. Max. CG height values calculated and provided by manufacturer.

TRU PROJECT NO. 1800993



TABLE 2

Manufacturer:Anord Mardix Inc.Model Line:AMX 891 Switchgear

Certified Product Construction Summary:

Carbon Steel G90 NEMA 1 and NEMA 3R Enclosures 12GA. Seismic enhancements made to the test units and modifications required to address the anomalies observed during testing shall be incorporated into the production units. Seismic enhancements and modifications are detailed on the "Seismic Upgrades" pages at the end of this document.

Certified Options Summary:

3 Phase, Main Bus up to 6000A & fault rating up to 100kA for 60 cycles

Mounting Configuration:

Base mounted - rigid; standalone

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

Building Code: CBC 2019		Seismic (Seismic Certification Limits:			= 2.0 g z/l = 2.5 g z/l		<i>l</i> _P = 1.5	
Model Line	Model	Dir	mensions	(in) 1		Max CG ³	³ Max	Enclosure	UUT
	Model	Depth	Width	Height	(lb)	(in)	Tension ²	2 Type	001
		BY24 _{VIO}	har 1 6ma	ad 915rin	350	44	958		Interp.
				•••	•••			NEMA 1	Interp.
AMX 891	Tune 5	36	36	91.5	1130	44	1375]	6
(Standalone)	Type 5	28	16	91.5	515	49	1577		Interp.
	E.P							NEMA 3R	Interp.
	10	40	36	91.5	845	49	1150]	Interp.
		PILLIN		REDDA	DY				
		AP		LIG C					
			UILD	NUC					
<u> </u>									
<u> </u>									
<u> </u>									
						<u> </u>			
1. The interpolated unit's CG	's are limited su	ich that the r	naximum †	tension in a	any sectio	n is no grea	ater than t ⁱ	he maximu	m tested
tension.	··· – · · ·								

2. Max. Tension Force = 4472lbs. Tension force can not exceed the maximum value.

3. Max. CG height values calculated and provided by manufacturer.

TRU PROJECT NO. 1800993



Manufacturer: Model Line:	Anord Mardix Inc. AMX 1558/891 Low Volta	ge Switchgear	Table Description: Current Transformers	Table Description: Current Transformers TABLE 3	
Building Code: CBC 20		Seismic Certifico	ation Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	$I_{P} = 1.5$	
Component Type	Manufacturer	Model	R CODE Description	Notes	υυτ
		563-202	1° Current 2000A, mpc, Cu windings, 12 lbs.		2
Current Transformers	TTL	563-***			Interp.
		563-502	1° Current 5000A, mpc, Cu windings, 12lbs.		2
		2	OSP-0721		
		BY:	Mohammad Karim		
			E: 04/06/2022		
			E. 04/00/2022		
		PA			
		· · · · · · · · · · · · · · · · · · ·	PLUE DINIG		
			JOILDING		

TRU PROJECT NO. 1800993



Manufacturer:	Anord Mardix Inc.		Table Description: Circuit Breakers		TABLE 4
Model Line:	AMX 1558/891 Low Voltage	e Switchgear			
Building Code: CBC 2019		Seismic Certificat	tion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	$I_{P} = 1.5$	
Component Type	Manufacturer	Model	R CODE Description	Not	tes UUT
		HD Frame	15A, 2P, 14kA max, 3.95 lbs.		Extrap
		1.1			Extrap
		HR Frame	150A, 3P, 100kA max, 6.6 lbs.		6
		JD Frame	70A, 2P, 14kA max, 5.29 lbs.		Interp.
					Interp.
		JR Frame BV · N	250A, 3P, 100kA max, 7.09lbs.		6
		LD Frame	70A, 3P, 14kA max, 13.65 lbs.		Interp.
			• 04/06/2022"		Interp.
		LR Frame	600A, 4P 100kA max, 24.09 lbs.		6
		PG Frame	100A, 2P, 18kA max, 76 lbs.		Interp.
	Color sider Electric				Interp.
Circuit Breaker	Schneider Electric (Square D)	PL Frame	1200A, 4P, 100kA max, 95 lbs.		6
	(Square D)		DI IN DING		Interp.
		R Frame	3000A, 4P, 100kA max, 52 lbs.		Interp.
		RG Frame	600A, 3P, 18kA max, 52 lbs.		Interp.
					Interp.
		Rl Frame	3000A, 4P, 100kA max, 52 lbs.		Interp.
		NT-N Frame	100A, 3P, 35kA max, 76 lbs.		Interp.
					Interp.
		NT-H Frame	1200A, 4P, 100kA max, 95 lbs.		Interp.
		NW-N Frame	100A, 3P, 50kA max, 206 lbs.		Interp.
					Interp.
		NW-H Frame	6000A, 4P, 100kA max, 629 lbs.		Interp.

TRU PROJECT NO. 1800993



Manufacturer: Model Line:	Anord Mardix Inc. Table Description: Circuit Breakers TABLE 4		ord Mardix Inc. <i>Table Description:</i> Circuit Breakers X 1558/891 Low Voltage Switchgear			
Building Code: CBC 20		Seismic Certificat	tion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5		
Component Type	Manufacturer	Model	R CODE Description	No	otes UUT	
		MTZ1-N Frame	400A, 3P, 35kA max, 206 lbs.		Interp.	
		1.1			Interp.	
Circuit Breaker	Schneider Electric	MTZ2-H Frame	800A, 3P, 100kA max, 265 lbs.		2,5	
	(Square D)	2.	0SP-0721		Interp.	
		MTZ3-L Frame	6000A, 4P, 100kA max, 629 lbs.		8	
		BY:N	Iohammad Karim			
			. 04/06/2022			
		P				
		, VA	PLUT STALS			
			OILDING			

TRU PROJECT NO. 1800993



Manufacturer: Model Line:	Anord Mardix Inc. AMX 1558/891 Low Vo	ord Mardix Inc. Table Description: Relay, Controllers, & Accessories IX 1558/891 Low Voltage Switchgear			TABLE 5
Building Code: CBC 20	019	Seismic Certifica	tion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5	
Component Type	Manufacturer	Model	R CODE Description	Note	s UUT
Temperature Monitoring Relay	Qualitrol	118	85 to 265 VAC or 20 to 280 VDC, Switch rating: 5A @ 250 VAC or 30 VDC resistive load0.2A @ 300 VDC resistive load, 5 lbs.		2
Lifting Device	Anord Mardix Inc.	AU-AH-134	Lifting Device Rated @134kg, 31 lbs		2
Automation Controllers	Schneider Electric	Modicon M580- Architecture	Main Rack, Renite Drop, Alvitar, Energy D supervision, HMI, Tesys T, CibbeXium DRS, 25lbs.		2
Touch Screen	Schneider Electric	HMIDT732	15", 30A, 9.92 lbs.		2
Display Module	Eaton	266652	PXM 8000 Display Module		2
Surge Protection Device	Schneider Electric	TVS4IMA32B	320kA Peak Surge Current		8
		RAIA	BUILDING		



TRU PROJECT NO. 1800993

UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	١ _F
2	AMX 1558 - Type G Cabinet (Standalone)	1800993-TR-001	ETL - Environmental Testing Laboratory	2021	Yes	2.0 2.5	1.0 0.0	1.
5	AMX 891 - NW08-16 Double Stack (Standalone)	1800993-TR-001	ETL - Environmental Testing Laboratory	2021	Yes	2.0 2.5	1.0 0.0	1.
6	AMX 891 - P-Frame Single (Standalone)	1800993-TR-001	ETL - Environmental Testing Laboratory	2021	Yes	2.0 2.5	1.0 0.0	1.
8	AMX 891 - NW50-5000A (Standalone)	1800993-TR-001	ETL - Environmental Testing Laboratory	2021	Yes	2.0 2.5	1.0 0.0	1.
		LINED	CAI					
	FI		SP-0721	77				
		BV: Mot	ammad Karim					
		DATE:	04/06/2022	10				
		WA BL	II DING CC					
tes:								

TRU PROJECT NO. 1800993

TRU COMPLIANCE

Manufacturer:	Anord Mardix	Inc.								า
Model Line:				UUT 2						
Model Number:	Type G Cabin			Serial Nı						
Product Construc 2mm thick carbor of enclosure. NEM	steel enclosure. Si	ngle section. Froi	nt/back sp	lit at 41" fr	om front.	. Crane /	hoist asse	mbly mo	unted to	top-front
TTL model 563-50 Anord Mardix AU-/	Donent Summary: 2 current transform AH-134 lifting device 2 15" touch screen.			on M580-A	rchitectu	re D auto	•		-	
		NED'			Mp					
Woight		Dimension (in)	001 Pro	operties		Towar	+ Natural	Froquor	ov (H-)	
(lb)	Weight (lb) Depth		Width OSHeight 2		Front-Back		st Natural Frequen Side-Side		Vertical	
3,645.5	85.75	36.0		7.0		10	4.00		12.86	
0,010.0	00.10	UUT Highest							12	
Buildin	g Code	Test Crite		S _{DS} (g)	z/h	I _P	А _{гі х-н} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
Building Code		ICC-ESAC	156 04/	2.0 2.5	2 ^{1.0} 0.0	1.5	- 3.20	2.40	1.67	0.67
Test Mounting De	tails:	THE MULA	BUILD	DING						

UUT mounted to fixture using six (6) 1/2" grade 8 bolts with six (6) 1.75"x1.75"x3/16" square washers (974896-1) and two (2) 2"x3"x1/2" plate washers in front.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

TRU PROJECT NO. 1800993



Model Line:	anufacturer: Anord Mardix Inc.							-			
	AMX 891	AMX 891							UUT 5		
Model Number:	NW08-16	NW08-16 Double Stack (Standalone) Sector				Serial Nu	mber:	N/A			
P roduct Construc 2mm thick carbor	-		22"W x 36"	D x 91.5"H	section with	h 22"W x 2	26"D x 20)"H heade	r box on t	op. NEMA	1.
Options/Subcomp Schneider Electric		-	me 800A cire	cuit break							
		li	NED	UUT P	roperties	MAS					
Weight		Din	nension (in)		- sporties		Lowes	t Natural	Frequency (Hz)		
(lb)	Depth	H	Width		eight 21	Front-Back		Side-Side		Vertical	
1,376.5	36.0	TEL	22.0		111.5	5.19		4.18		17.55	
;			UUT Highes	t Passed	Seismic Run	Informat	tio <mark>n</mark>			-	
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} (
Building Code: CBC 2019		C ICC-E\$AC156 04/		/06/2.02	2 ^{1.0} 0.0	1.5	3.20	2.40	1.67	0.67	
				J							
JUT mounted to f Jnit maintained s	-		-								

Contents were included in testing per operating conditions. TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com

TRU PROJECT NO. 1800993



Manufacturer:	Anord Mai	rdix Inc.				.		C
Model Line:	AMX 891						JUT	6
Model Number:	P-Frame S	Single (Standalone)		Serial Number:	N/A			
Product Constructi 2mm thick carbon s		e. Single section. NEM	IA 1.					
Options/Subcompc Schneider Electric ('y: rame 1200A circuit br	reaker, Schneider Ele	ectric (Square D)	LR frame 6	00A circu	it breake	·.
		IED FC	R CODE CO	ONIS,				
		J.S.	UUT Properties					
Weight		Dimension (in)	นโพลงให้นองที่มนใหม่ได้ 2008	Low	est Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OS Height 21	Front-Back	Side	Side-Side		tical
1,130.0	36.0	36.0 91.5 8.47		8.	8.36		17.31	
		UUT Highest	Passed Seismic Run	Information				
Building	Code	Test Criter	ria S _{DS} (g)	z/h I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
Building Code:	CBC 2019		56 04/0 6/202	2 1.0 1.5 0.0 1.5	3.20	2.40	1.67	0.67
Test Mounting Deto	ms:	FOR MAR	BUICDINE					

UUT mounted to fixture using four (4) 1/2" grade 8 bolts with 1.75"x1.75"x3/16" square washers (974896-1). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

TRU PROJECT NO. 1800993



Manufacturer:	Anord Ma	irdix Inc.							0				
Model Line:	AMX 891					JUT	8						
Model Number:	NW50 - 5000A (Standalone)					Serial Number: N/A							
Product Construct	-												
2mm thick carbon	steel enclosur	e. Single section. NEM	1A 3R.										
Options/Subcomp		ry: Z3-L Frame 6000A ciro	cuit brooker Surge [Protoction	Novico I		D						
	(Square D) MT	ZS-L FIAILIE 6000A CIT	cuit breaker, surger	TOLECTION	I Device I	V 341101A32	D						
			DCODE										
		FC	K CODE C	On .									
		1ED .		Ms									
		L.	UUT Properties		-								
Weight		Dimension (in)	nn Marth Maarthy Moodlaw XXV	Lowest Natural Frequency (Hz)									
(lb)	Depth	OS Height 21	Front	Front-Back Sid		e-Side Ve		rtical					
3,354.0	40.0 45.0 91.5 5.23 4.80				80	11.77							
			Passed Seismic Ru	Y				1					
Building Code		Test Crite	53 (8)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (§				
Building Code: CBC 2019		ICC-ESAC	156 04/06/202	$2^{1.0}$	1.5	3.20	2.40	1.67	0.67				
Test Mounting Det	haile		2.5	0.0	1.5								
Test mounting Dec	uns.			MOY,	N	-							
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UUT mounted to fixture using four (4) 1/2" grade 8 bolts with 1.75"x1.75"x3/16" square washers (974896-1). Two (2) full length 2"x2"x1/4" steel angles welded to base rails (ends fully welded and three (3) 2" welds along top). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

SEISMIC UPGRADES SUMMARY SHEET

TRU PROJECT NO. 1800993



ALL MODELS

Manufacturer:	Anord Mardix Inc.
Model Line:	AMX 1558/891 Low Voltage Switchgear
Model Number:	All certified 1558 & 891 models

Serial Number: N/A

Seismic Upgrades Summary:

The (4) existing bottom corner brackets were replaced with thicker brackets (3mm) to increase wall stability. 1/4-20 bolts/nuts were added to strengthen the wall to base connection. (2) 2mm top corner brackets were also added at the rear to increase wall stability. Photos of these modifications can be seen below.



SEISMIC UPGRADES SUMMARY SHEET

TRU PROJECT NO. 1800993



AMX 891

Manufacturer:Anord Mardix Inc.Model Line:AMX 891 Low Voltage Switchgear

Model Number: All certified 891 models

Serial Number: N/A

Seismic Upgrades Summary:

Four thread cutting screws were added to the bottom of the door (two near the bottom hinge and two near the bottom latch). Four screws were also added to the top of the door (two near the top hinge and two near the top latch).



All deadfront bolts with slotted attachments were removed and replaced with thread cutting screws above or below. A screw was also added on each side of the deadfront in the middle, for a total of 6 screws per deadfront.



SEISMIC UPGRADES SUMMARY SHEET

TRU PROJECT NO. 1800993

Manufacturer:Anord Mardix Inc.Model Line:AMX 891 Low Voltage Switchgear

Model Number: All certified 891 models

Serial Number: N/A

Seismic Upgrades Summary (continued):

2"x2"x1/4" steel angles were added to each side of the base at the mounting locations. The angles ran the full depth of the cabinet. The angles were solid welded on the ends and stitch welded along the top leg with(3) 4" welds equally spaced. All welds were single pass fillet welds of approximately 1/4".



The (4) bottom corner brackets were modified to prevent the screws from pulling out. The screws that connected the brackets to the walls were replaced with nuts and bolts. Access holes were drilled in the wall panels to accommodate this modification (approximately 1/2" diameter holes).





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AMX 891