

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP - 0092
OSHPD Special Seismic Certification Preapproval (OSP)
Type: 🗌 New 🔀 Renewal
Manufacturer Information
Manufacturer: OTIS ELEVATOR COMPANY
Manufacturer's Technical Representative:
Mailing Address: 1500 Otis Way, Florence, SC
Telephone: On File
Product Information
Product Name: SEE ATTACHMENT 1 OSHPD
Product Type: Elevator Equipment OSP-0092
Product Model Number: <u>See Attachment 1</u> (List all unique product identification numbers and/or part numbers) Othy J Pland General Description: <u>Provides the operational control, motion control and motor drive to control the operation of a</u>
traction elevator within a building. DATE: 08/18/2020
Mounting Description: Rigid Base Mounted
Applicant Information Applicant Company Name: FASE Co
Applicant Company Name: EASE Co.
Contact Person:Jonathan Roberson, S.E.
Mailing Address:5877 Pine Ave, Suite 210, Chino Hills, CA. 91709
Telephone: _(909) 606-7622 Email: <u>j.roberson@easeco.com</u>
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016. Signature of Applicant: Date: Date: Date:
Title: Principal Structural Engineer Company Name: EASE Co.
"Access to Safe, Quality Healtheare Environments that Meet California's Diverse and Duramic Neede"
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: EASE Co.
Name: Jonathan Roberson, S.E. California License Number: S4197
Mailing Address: _ 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709
Telephone: (909) 606-7622 Email: j.roberson@easeco.com
Supports and Attachments Preapproval
 Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required) Supports and attachments are not preapproved
Certification Method
 Testing in accordance with: ICC-ES AC156 Other (Please Specify): OSP-0092
BY:Timothy J Piland
Testing Laboratory DATE: 08/18/2020
Company Name: Environmental Testing Laboratory, Inc.
Contact Name: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas, TX. 75229-3513
Telephone: (972) 247-9657 Email: brady@etIdallas.com



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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: 🛛 Yes 🗌 No
Design Basis of Equipment or Components (F _p /W _p) = <u>See Attachment 1</u>
S _{DS} (Design spectral response acceleration at short period, g) = <u>See Attachment 1</u>
a _p (In-structure equipment or component amplification factor) = <u>1.0 (Transformer) / 2.5 (Drive & Controller)</u>
R _p (Equipment or component response modification factor) = 2.5 (Transformer) / 6.0 (Drive & Controller)
Ω_0 (System overstrength factor) = See Attachment 1
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = 1.0
Equipment or Component Natural Frequencies (Hz) = <u>See Attachment 2</u>
Overall dimensions and weight (or range thereof) = See Attachment 1
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
S _{D1} (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
Ω₀ (System overstrength factor) =
Cd (Deflection amplification factor) =
I₂ (Importance factor) = 1.5 DATE: 08/18/2020
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: 🗌 Yes 🔀 No
List of Attachments Supporting Special Seismic Certification
 Test Report(s) Drawings Calculations Manufacturer's Catalog Other(s) (Please Specify): Attachments 1 & 2
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Signature: Date: August 18, 2020
Print Name: Timothy J. Piland Title: SSE
Special Seismic Certification Valid Up to: S _{DS} (g) = <u>See Above</u> z/h = <u>1</u>
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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Manufacturer Otis Elevato													
Product Type Elevator Co	mponents												
	MODEL		OX. DIMENSIO	· /	MAX. WT.								
COMPONENT	NUMBER	W	D	Н	(LB.)	MOUNT	BASIS ^[1]	F ₽ / ₩ _P	S _{DS}	z/h	a _P	R _P	Ω0
GLOBAL CONTROL SYSTEM	GCS) ^[5]					, , , , , , , , , , , , , , , , , , , ,			1	-	r	1	1
Global Control System (GCS) w/ Elevator Controller, Brake, 60A I & Transformer Box	Drive Axx21310AD ^[4] Axx21310AF ^[6]	45.6	13.6	69.6	C 0685 E	Rigid Base	UUT-A1	1.50 1.07	2.00 2.40	1 0	2.5	6.0	2.0
Global Control System (GCS) w/ Elevator Controller, Brake & Transformer Box	[2] Axx21310AD ^[4] Axx21310AF ^[6]	45.6	13.6	69.6	586	Rigid Base	INT	1.16	1.54	1	2.5	6.0	2.0
Global Control System (GCS) w/ Elevator Controller & Brake	[2] Axx21310AD ^[4] Axx21310AF ^[6]	41	12	52	276	Rigid Base	ZINT	1.16	1.54	1	2.5	6.0	2.0
Global Control System (GCS) w/ Elevator Controller, Brake & 60A	Axx21310AD ^[4] Drive Axx21310AF ^[6]	41	12	52	P-3759	Rigid Base	UUT-1	1.16	1.54	1	2.5	6.0	2.0
Global Control System (GCS) Di Cabinet – 120A Drive w/ Stand	ive Axx21305DD Gxx21310EC + Axx471LJ	21.1	9.4 B	53.6 Y:Timo	thv J P	Rigid Base	UUT-A2	1.61 1.07	2.15 2.38	1 0	2.5	6.0	2.0
TRACTION ELEVATOR CONT	OLLERS												
Elevonic R-Series Controller Assembly	Axx21305CA	27.5	16.5 D		1820	Rigid Base	UUT-A7	1.50	2.00	1	2.5	6.0	2.0
Elevonic R-Series DSD-412 Drive: 300Amp	Axx21305CG	31.25	016.8	52	258	Rigid Base		1.61 1.07	2.15 2.38	1 0	2.5	6.0	2.0
POWER DISTRIBUTION	[3]						20/						
3-Phase Autotransformer: 66.5k	A Axx21799L	26.9	22.4	40	470	Rigid Base	UUT-A4	1.51 1.08	2.09 2.39	1 0	1.0	2.5	2.0
Isolation Transformer: 80kVA	Axx21799B	36	30.3	V 43.2 B	701	Rigid Base	UUT-A6	1.50 1.07	2.08 2.38	1 0	1.0	2.5	2.0
Ripple Filter: 190A	Axx21799E	36.12	24.31	34	570	Rigid Base	UUT-A5	1.51 1.08	2.09 2.39	1 0	1.0	2.5	2.0
Countertop Ancl Enclosures <u>Galvanized stee</u> Notes 1. BASIS: • UUT#: • INT (In produc 2. Controller 3. Transform 4. "AD" inc 5. Special So	a) Mount: free-standing, b ored: unit is anchored to a complying with CSA B44. Indicates that a unit match erpolate/Extrapolate): indi- time w/o integral drive. This mo ers include copper winding icates equipment for use in issmic Certification is limite ions determined by subcor	in counter, de 1/ASME A1 ing these ch cates a moor del intended is and open in a new con d to subcon	esk, or other pie 7.5 haracteristics wa del not specifica d for use with 12 core coil. hstruction project	as tested. Ily tested, by 20A drive loo t. "AF" ind	which seism ated in a star	c certification dalone, struct	is established urally separat a modernizat	I through eva e cabinet. ion project. I	aluation of t	esting of of	her, similar	models in t	



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 2: SEISMIC CERTIFIED SUBCOMPONENTS

SUBCOMPONENT	MANUFACTURER	PART No.	DESCRIPTION	BASIS
TRANSFORMER BOX ASSEMBLY Up-Stand Box (Axx21305BR)	OTIS	A21310AD	GCS Controller	
Transformer				
Building Power Transformer	Grand Transformer Inc.	Otis PN: ABA225LY3 R CO	Transformer: Primary 208-240VAC, Secondary 480VAC, Power:26.2kVA transformer	UUT-A1
Fuse Holder & Fuses		ED.	Mp.	
Fuse	Mersin	Otis PN: AAA375BZ68	70 Amp; 600V; Time Delay Fuse	UUT-A1
DRIVE Assembly		S USI	FU 12	
60 Amp Drive	Otis	Otis PN: GEA21310A2	Volt: 480Vac; Output Current: 32 A rms	UUT-1 & A1
60A R3 REGEN DRIVE	Otis	Otis PN: KBA21310ABR5	Volt: 480Vac; Output Current: 32 Arms	INT
60A R3 REGEN DRIVE	Otis	Otis PN: KBA21310ABR6	Volt: 208Vac; Output Current: 32 Arms	INT
AAA21305DD		O BY: HIHOUTY	O Filand O	
120 Amp Drive	Otis	Otis PN: GCA21310EC2	Volt: 480Vac; Output Current: 60 A rms	UUT-A2
	1	DATE: 08/18	2020	
BRAKE BOX ASSEMBLY		Axx21305BL	200	
Transformers		00	DE	
Power Distribution Transformer	Grand Transformer	Otis PN: AAA225MV5	Primary: 440-480VAC; 50/60Hz; 3Ø; Rating: 1.65kVA; Control system power	UUT -1
Power Distribution Transformer	Grand Transformer	Otis PN: AAA225MV1	Primary: 440-480VAC; 50/60Hz; 3Ø; Rating: 1.0kVA; Control system power	INT
Power Distribution Transformer	Grand Transformer	Otis PN: AAA225MV2	Primary: 208-240VAC; 50/60Hz; 3Ø; Rating: 1.0kVA; Control system power	INT
Power Distribution Transformer	Grand Transformer	Otis PN: AAA225MV6	Primary: 208-240VAC; 50/60Hz; 3Ø; Rating: 1.65kVA; Control system power	UUT-A1
FMV filter				
FMV	Otis	Otis PN: AAA21305BM1	Motor Filter Protection Assembly	UUT-1 & A1
Fuse				
Fuse	Little Fuse/Bussmann	Otis PN: AAA375BK43	Class CC; 600V; 20A; Time Delay Fuse	UUT-1 & A1

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

Otis Elevator

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TABLE 2: SEISMIC CERTIFIED SUBCOMPONENTS

SUBCOMPONENT	MANUFACTURER	PART No.	DESCRIPTION	BASIS
CONTROLLER ASSEMBLY		AEA21305BN		
Power Supplies				
Power Supply	Siemens	Otis PN: AAA621AT14 CO	Adjustable 24VDC Switching Power Supply; 240W; 85V to 264V Input; Enclosed Frame; Rail Mount	UUT-1 & A1
Power Supply	Cosel	Otis PN: AAA621AN22	12VDC Switching Power Supply; 15.6W; 85V to 264V Input; Enclosed Frame	UUT-1 & A1
Battery	Enersys	Otis PN: AAA718E14	12V; 7AH; Sealed Lead Acid Battery	UUT-1 & A1
Battery	Enersys	Otis PN: AAA718E3	12V; 4AH; Sealed Lead Acid Battery	UUT-1 & A1
Fuses		OSP-(1092 m	
Fuse	Little Fuse/Bussmann	Otis PN: AAA375CJ5	15A; 250V; Ceramic; Time Delay Fuse	UUT-1 & A1

UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program.

• INT (Interpolate/Extrapolate): indicates a model that was not specifically tested, and by which seismic certification is established through evaluation of testing of other, similar models in the product line.

Certification in this table is limited devices identified when installed as part of a complete assembly of the GCS defined in Table 1. 2.





EASE EQUIPMENT ANCHORAGE

ATTACHMENT 2: TEST SPECIMEN SUMMARY

Otis Elevator

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UUT-1	GCS Elevator	Controller							
MANUFACTURER:	OTIS ELEVATOR COMPANY								
IDENTIFICATION:		el No. for New Constru el No. for Modernizatio							
DESCRIPTION:	AEA21305BN Cont GEA21310A2 60A I Axx21305BL Brake	Drive Assembly, control section.	et 4. Table 2						
MOUNTING:	Rigid Base (Floor) r	mation, see Attachmer							
	(3) – Axx316HJR3 k	brackets (1/4" thick ste	eel),						
	Screws w/ washers	– 3/8" dia. ASTM A574							
	Screws w/ washers One bracket w/ (1) -	to aluminum plate – 3/8" dia. ASTM A574 to aluminum plate		LOWEST	RESONANT FREQUE	ENCY (Hz.)			
Width	Screws w/ washers One bracket w/ (1) - Screws w/ washers	to aluminum plate – 3/8" dia. ASTM A574 to aluminum plate		LOWEST Side-Axis	RESONANT FREQUE Front-Axis	ENCY (Hz.) Vert-Axis			
Width 41	Screws w/ washers One bracket w/ (1) - Screws w/ washers DIMENSIONS (in	to aluminum plate – 3/8" dia. ASTM A57- to aluminum plate .)	4 Socket Head Cap			. ,			
41	Screws w/ washers One bracket w/ (1) - Screws w/ washers DIMENSIONS (in Depth	to aluminum plate – 3/8" dia. ASTM A57- to aluminum plate) Height 52	4 Socket Head Cap	Side-Axis	Front-Axis	Vert-Axis			
41	Screws w/ washers One bracket w/ (1) - Screws w/ washers DIMENSIONS (in Depth 12	to aluminum plate – 3/8" dia. ASTM A57- to aluminum plate) Height 52	4 Socket Head Cap	Side-Axis	Front-Axis	Vert-Axis >50			

ity and manufacturer requirements for in

UUT-A1	GCS Elevator (Controller w/	Fransformer Box	(Upstand Box	()	
MANUFACTURER:	OTIS ELEVATOR CO	MPANY DATE:	08/18/2020			
IDENTIFICATION:	Axx21310AD (Model Axx21310AF (Model N			019		
DESCRIPTION:	GCS (Global Control 3 AEA21305BN Control GEA21310A2 60A Dri Axx21305BL Brake co Axx21305BR Transfo Transformer is a dry ty Transformer Inc. Copp Primary 208-240VAC, For additional informa <u>Rigid Base (Floor) mo</u> (2) – Axx316HJR3 bra (2) – 3/8" dia. ASTM / washers to aluminum	ler Assembly, ve Assembly, ontrol section, & rmer Box w/ 26.2kV ype transformer ma ber windings. Open Secondary 480VAd tion, see Attachmer unted using ackets (1/4" thick ste A574 Socket Head 0	nufactured by Grand core coil. C ht 1, Table 2. eel), each w/			
				LOWEST	RESONANT FREQUE	
	DIMENSIONS (in.)				Ī	()
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
45.6	13.6	69.6	685	15.0	10.4	30.1
CC-ES AC156 SH	AKE TABLE TEST PAR	AMETERS				CODE: 2016 C
S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.00 2.40	1 0	1.5	3.2	2.4	1.61	0.65



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-A2 GCS 120A Drive Assembly with Stand MANUFACTURER: OTIS ELEVATOR COMPANY IDENTIFICATION: Axx21305DD DESCRIPTION: Component of the Global Control System Otis Axx21305DD drive assembly including: Gxx21310EC Gearless 120A CR drive manufactured by Otis (Germany) ABA471LJ drive stand with integral mounting flanges, manufactured by Otis (North America) For additional information, see Attachment 1, Table 2. MOUNTING: Rigid Base (Floor) mounted using using (4) - 1/2" dia. ASTM A574 Socket Head Cap Screws w/ washers to aluminum plate. DIMENSIONS (in.) LOWEST RESONANT FREQUENCY (Hz.) Width Depth Height Weight (lb.) Side-Axis Front-Axis Vert-Axis 21.1 9.4 53.6 8.3 25.2 >50 254 ICC-ES AC156 SHAKE TABLE TEST PARAMETERS CODE: 2016 CBC S_{DS} (G) z/h A_{RIG-H} (G) A_{FLX-V} (G) A_{RIG-V} (G) I_P A_{FLX-H} (G) 2.15 1 1.5 3.44 2.58 1.59 0.64 2.38 0 Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

UUT-A3	Elevonic R-Sei	ies DSD-412 D	rive18/2020				
MANUFACTURER:	OTIS ELEVATOR CO	MPANY					
IDENTIFICATION:	Axx21305CG	P.	*				
DESCRIPTION:	Elevonic R-Series DSD-412 300A Drive (4) – AAA347BLG27 leg secured to cabine screws with hex head	legs (295 mm clear be t frame with (3) – M12	elow cabinet) Each 2x25 Hex head	CODE.2		L 2/3L 29	
MOUNTING:	Rigid Base (Floor) mo (4) – AAA316GUR5 b (1) – M12-Class8 bolt (1) – 3/8" dia. ASTM aluminum plate.	rackets, each w/ & hex nut to leg	ap Screws to				
	DIMENSIONS (in.)			LOWEST	RESONANT FREQUE	ENCY (Hz.)	
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis	
31.25	16.8	52	258	9.8	5.2	48	
ICC-ES AC156 SH	AKE TABLE TEST PAR	AMETERS				CODE: 2016 CBC	
S _{DS} (G)	z/h	l _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
2.15 2.38	1 0	1.5	3.44	2.58	1.59	0.64	
Unit satisfied AC156	b requirements for struc	tural integrity and mar	ufacturer requiremer	ts for functionality afte	r AC156 test.	-	

Otis Elevator

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EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

ATTACHMENT 2: TEST SPECIMEN SUMMARY

Otis Elevator

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UUT-A4	3-Phase Auto	Transformer, 6	66.5 kVA			
MANUFACTURER:	Warner Power					
IDENTIFICATION:	Axx21799L7					
DESCRIPTION:	clause 32 overload	Auto Transformer, er complies with CSA test of UL Standard 50 A B44.1/ASME A17.5	06 and meets the	N. S		
MOUNTING:	Rigid Base (Floor) r Socket Head Cap S	nounted using (4) – ½ crews to aluminum pla	" dia. ASTM A574 ate.			
	DIMENSIONS (in	.)	RCODEC	LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
26.9	22.4	40	470	10.0	32.9	13.0
ICC-ES AC156 SH	AKE TABLE TEST PA	RAMETERS	JOHPD	Y.	•	CODE: 2016 CBC
S _{DS} (G)	z/h	Lu Ip	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.09 2.39	1 0	1.5	3.34	2.51	1.60	0.65
Unit satisfied AC15	6 requirements for stru	uctural integrity and ma	anufacturer, requiremen	ts for functionality after	er AC156 test.	•

UUT-A5	Ripple Filter					
MANUFACTURER:	Warner Power	DATE: (J8/18/2020			No. of the local division of the local divis
IDENTIFICATION:	Axx21799E222122	S	+			
DESCRIPTION:	32 overload test of U	r lies with CSA C22.2 N _ Standard 506 and m B44.1/ASME A17.5 fc	eets the	CODE		
MOUNTING:	Rigid Base (Floor) mo Socket Head Cap Sc	bunted using (4) – ½" rews to aluminum plat	dia. ASTM A574 e.	Æ	V	
	DIMENSIONS (in.)			LOWEST	RESONANT FREQU	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
36.12	24.31	34	570	10.8	8.9	>50
ICC-ES AC156 SH	AKE TABLE TEST PAR	AMETERS			-	CODE: 2016 CBC
S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.09 2.39	1 0	1.5	3.34	2.51	1.60	0.65
Unit satisfied AC156	6 requirements for struc	tural integrity and mar	nufacturer requiremen	ts for functionality after	er AC156 test.	



EASE EQUIPMENT ANCHORAGE

ATTACHMENT 2: TEST SPECIMEN SUMMARY

Otis Elevator

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UUT-A6	Isolation Tran	nsformer (DC D	rives)				
MANUFACTURER:	Warner Power			2 0 15		- l	
IDENTIFICATION:	Axx21799B10233				and the second second		
DESCRIPTION:	108.8A 480V dry typ Copper winding. Op complies with CSA of UL Standard 506	nsformer for use with be transformer. en core coil. The isola C22.2 No. 66 and clau and meets the require for elevator electrical	ation transformer use 32 overload test ements of CSA		<mark>≓</mark> k		
MOUNTING:		nounted using (4) – ½ icrews to aluminum pla					
	DIMENSIONS (in	.)	RCODEC	LOWEST	RESONANT FREQU	ENCY (Hz.)	
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis	
36	30.3	43.2		9.5	45.9	>50	
ICC-ES AC156 SH	AKE TABLE TEST PA	RAMETERS	JOHPD	YZ.	•	CODE: 2016 CBC	
S _{DS} (G)	z/h	4 IP	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
2.08 2.38	1 0	1.5	3.60	2.70	1.59	0.64	

nit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

UUT-A7	Elevonic R-Series Controller					
MANUFACTURER:	OTIS ELEVATOR COMPANY DATE: US/18/2020					
IDENTIFICATION:	Axx21305CA	2	+	6/	a a 1	
DESCRIPTION:	Controller Assembly or requirements. The as controller, and transfor integral lifting hooks	sembly includes prima	ary controller, brake	ODE.20	Right	
MOUNTING:	Rigid Base (Floor) mc (2) – Otis AAA272CJF (2) – ½" dia. ASTM A aluminum plate. Installed per Otis AAA	⁻ brackets (1/4" thick 574 Socket Head Cap				
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
27.5	16.5	71.25	381	13	13	27.6
ICC-ES AC156 SH	AKE TABLE TEST PAR	AMETERS	-	-	-	CODE: 2016 CBC
S _{DS} (G)	z/h	l _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.2	2.4	1.34	0.54
Unit satisfied AC156	6 requirements for struct	ural integrity and mar	nufacturer requiremen	ts for functionality afte	er AC156 test.	-