



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

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0863

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Mitsubishi Electric

Manufacturer's Technical Representative: Henry Wei

Mailing Address: 5900-A Katella Avenue, PO Box 6007, Cypress, CA 90630

Telephone: (714) 220-4700

Email: MitsubishiElevatorsMarketing@meus.com

Product Information

Product Name: Diamond Trac & Diamond HS

Product Model Number(s): See Attachment 1

Product Category: Elevator Equipment

Product Sub-Category: Elevator Controllers

General Description: Components for the control of Machine-Room-Less (MRL) and overhead traction elevators.

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: EASE LLC

Contact Person: Jonathan Roberson

Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA 91709

Telephone: (909) 606-7622

Email: jon@easeco.com

Title: Principal Structural Engineer



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: EASE LLC

Name: Jonathan Roberson

California License Number: S4197

Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709

Telephone: (951) 295-1892

Email: jon@EASECo.com

Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify): _____

Testing Laboratory

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

BY: Mohammad Karim

DATE: 09/18/2025



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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.5 (SDS=2.0, $z/h = 1$); 1.13 (SDS=2.5, $z/h=0$)

Sds (Design spectral response acceleration at short period, g) = 2.5 @ $z/h=0$; 2.0 @ $z/h=1$

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

Natural frequencies (Hz) = See Attachment 2

Overall dimensions and weight = See Attachment 1

HCAI Approval (For Office Use Only) - Approval Expires on 09/18/2031

Date: 9/18/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: Sds (g) = 2.0

z/h = 1

Condition of Approval (if applicable):

BY: Mohammad Karim

DATE: 09/18/2025

ATTACHMENT 1: CERTIFIED COMPONENT TABLES

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TABLE 1:

Manufacturer		MITSUBISHI ELECTRIC (unless noted otherwise)						S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0			
Product Line		Diamond-Trac – VFGLC Machine-Room-Less (MRL)									
COMPONENT	TYPE NO.	APPROX. DIMENSIONS (IN.)			APPROX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀
		W	D	H							
Diamond-Trac – VFGLC Machine-Room-Less (MRL)											
Elevator Control Panels – Light Duty (GPQ4LU)											
Elevator Control Panel - IPM 150A Inverter w/o Regen drive w/ 18kVA int. Auto Xfmr (3Φ / 480V)	CCP-GUL54	33.5	16.7	82.7	608	Rigid Base	UUT-2201-1	1.50 1.13	2 ½	6	2
Elevator Control Panel - IPM 150A Inverter w/o Regen drive w/ 18kVA int. Auto Xfmr (3Φ / 208V)	CCP-GUL55	33.5	16.7	82.7	764.5	Rigid Base	UUT-2201-2	1.50 1.13	2 ½	6	2
Elevator Control Panel - IPM 150A Inverter w/ Regen drive (PCNV) (3Φ / 400V)	CCP-GUL60	33.5	16.7	78.1	520.5	Rigid Base	UUT-2201-3	1.50 1.13	2 ½	6	2
Elevator Control Panels – Heavy Duty (GPQ4WU)											
Elevator Control Panel - IGBT 300A Inverter w/o Regen drive (3Φ / 480V)	CCP-GUL57	33.5	16.7	82.7	743.5	Rigid Base	INT	1.50 1.13	2 ½	6	2
Elevator Control Panel - IGBT 300A Inverter w/o Regen drive (3Φ / 208V)	CCP-GUL58	33.5	16.7	82.7	743.5	Rigid Base	UUT-2201-4	1.50 1.13	2 ½	6	2
Elevator Control Panel - IGBT 300A Inverter w/o Regen drive (3Φ / 400V)	CCP-GUL59	33.5	16.7	82.7	743.5	Rigid Base	INT	1.50 1.13	2 ½	6	2
Elevator Control Panel - IGBT 300A Inverter w/ Regen drive (3Φ / 400V)	CCP-GUL61	33.5	16.7	66.9	474.5	Rigid Base	UUT-2201-5	1.50 1.13	2 ½	6	2
Attach Panel (3Φ / 420V)	ACP-GUL11	15.5	15.5	50.5	203	Rigid Base	UUT-2201-18	1.50 1.13	2 ½	6	2
Group Control – Light & Heavy Duty											
Group Control Panel (1Φ / 480V)	GCP-GUL56	19.7	15.7	61	268	Rigid Base	UUT-2201-6	1.50 1.13	2 ½	6	2
Group Control Panel (1Φ / 208V)	GCP-GUL57	19.7	15.7	61	199	Rigid Base	UUT-2201-7	1.50 1.13	2 ½	6	2
Autotransformers – Light & Heavy Duty											
18kVA (480/400V) Autotransformer (IN: 440-480V / OUT: 400V) (Mfr: Chuo Electric Ind. Co. Ltd)	YX303C848-01	18.5	11.8	19.3	107.5	Rigid Base	UUT-2201-8	1.50 1.13	2 ½	6	2
23.1kVA (480/400V) Autotransformer (IN: 440-480V / OUT: 400V) (Mfr: Chuo Electric Ind. Co. Ltd)	YX303C848-02	22.4	15.7	24.4	148	Rigid Base	INT	1.50 1.13	2 ½	6	2

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ATTACHMENT 1: CERTIFIED COMPONENT TABLES

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TABLE 1:

Manufacturer		MITSUBISHI ELECTRIC (unless noted otherwise)						S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0			
Product Line		Diamond-Trac – VFGLC Machine-Room-Less (MRL)									
COMPONENT	TYPE NO.	APPROX. DIMENSIONS (IN.)			APPROX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀
		W	D	H							
12kVA (208/400V) Autotransformer (IN: 200-220V / OUT: 400V) (Mfr: Chuo Electric Ind. Co. Ltd)	YX303C848-15	22.4	15.7	24.4	229	Rigid Base	INT	1.50 1.13	2 ½	6	2
16kVA (208/400V) Autotransformer (IN: 200-220V / OUT: 400V) (Mfr: Chuo Electric Ind. Co. Ltd)	YX303C848-16	22.4	15.7	24.4	271	Rigid Base	INT	1.50 1.13	2 ½	6	2
18kVA (208/400V) Autotransformer (IN: 200-220V / OUT: 400V) (Mfr: Chuo Electric Ind. Co. Ltd)	YX303C848-05	22.4	15.7	24.4	280	Rigid Base	INT	1.50 1.13	2 ½	6	2
23.1kVA (208/400V) Autotransformer (IN: 200-220V / OUT: 400V) (Mfr: Chuo Electric Ind. Co. Ltd)	YX303C848-06	22.4	15.7	24.4	292	Rigid Base	UUT-2201-9	1.50 1.13	2 ½	6	2
Mount	RIGID BASE (floor): free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.										
Notes	1. BASIS • 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 other similar tested models in the product line.										

ATTACHMENT 1: CERTIFIED COMPONENT TABLES

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TABLE 2:

Manufacturer	MITSUBISHI ELECTRIC (unless noted otherwise)							S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0			
Product Line	Diamond HS – VFGHA Overhead Traction										
COMPONENT	TYPE NO.	APPROX. DIMENSIONS (IN.)			APPROX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀
		W	D	H							
Elevator Panels – Light Duty (GM5M2U)											
Elevator Control Panel (3Φ / 420V)	CCP-GUH51	43.3	17.7	75.8	762	Rigid Base	UUT-2201-10	1.50 1.13	2 ½	6	2
Elevator Panels – Heavy Duty (GM5H2U / GM5W2U)											
Elevator Control Panel (3Φ / 420V)	CCP-GUH52	43.3	17.7	75.8	939.5	Rigid Base	UUT-2201-11	1.50 1.13	2 ½	6	2
Auxiliary Panel (3Φ / 480V)	GCP-GUH56	19.7	17.7	75.9	286.5	Rigid Base	UUT-2201-12	1.50 1.13	2 ½	6	2
Attach Panel (3Φ / 420V)	ACP-GUH52	27.6	17.7	75.8	723.5	Rigid Base	UUT-2201-13	1.50 1.13	2 ½	6	2
Group Control – Light & Heavy Duty											
Group Control Panel (1Φ / 480V)	GCP-GUH50	19.7	17.7	75.9	298.5	Rigid Base	UUT-2201-14	1.50 1.13	2 ½	6	2
Group Control Panel (1Φ / 480V)	GCP-GUH53	19.7	17.7	75.9	332	Rigid Base	UUT-2201-15	1.50 1.13	2 ½	6	2
Mount	RIGID BASE (floor): free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.										
Notes	1. BASIS • 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 other similar tested models in the product line.										

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2201-1 Elevator Control Panel - IPM 150A Inverter w/o Regen drive w/ 18kVA int. Auto Xfmr (3Φ / 480V)						
Manufacturer: Mitsubishi Electric						
Identification: Type: CCP-GUL54 Order No.: M-OA-T49						
Description: Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL) Elevator Control Panel - IPM 150A Inverter w/o Regen drive w/ 18kVA int. Auto Xfmr (YX303C490-03) 3Φ / 480V LIGHT DUTY Includes top-mounted resistor box						
Mounting: Rigid Base (floor) mount using: (4) – 3/4" diameter Grade 5 Bolts w/ Standard Washers (Torque = 110 ft-lb)						
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	(S/S) X-Axis	(F/B) Y-Axis	(Vert.) Z-Axis
33.5	16.7	82.7	608	13.55	6.85	29.83
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-2201-2 Elevator Control Panel - IPM 150A Inverter w/o Regen drive w/ 18kVA int. Auto Xfmr (3Φ / 208V)						
Manufacturer:		Mitsubishi Electric				
Identification:		Type: CCP-GUL55 Order No.: M-OA-I49				
Description:		Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL) Elevator Control Panel - IPM 150A Inverter w/o Regen drive w/ 18kVA int. Auto Xfmr (YX303C490-13) 3Φ / 208V LIGHT DUTY Includes top-mounted resistor box				
Mounting:		<u>Rigid Base (floor) mount using:</u> (4) – 3/4" diameter Grade 5 Bolts w/ Standard Washers (Torque = 110 ft-lb)				
Dimensions (in.)			Weight (lb.)	Lowest Resonant Frequency (Hz.)		
Width	Depth	Height		(S/S) X-Axis	(F/B) Y-Axis	(Vert.) Z-Axis
33.5	16.7	82.7	764.5	11.66	6.33	33.15
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2201-3 Elevator Control Panel - IPM 150A Inverter w/ Regen drive (PCNV) (3Φ / 400V)						
Manufacturer: Mitsubishi Electric						
Identification: Type: CCP-GUL60 Order No.: M-OA-I49						
Description: Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL) Elevator Control Panel - IPM 150A Inverter w/ Regen drive (PCNV) (Regen Drive by Mitsubishi Electric) w/ 16kVA int. Auto Xfmr (with Regen) 3Φ / 400V LIGHT DUTY Includes top-mounted regen drive box						
Mounting: Rigid Base (floor) mount using: (4) – 3/4” diameter Grade 5 Bolts w/ Standard Washers (Torque = 110 ft-lb)						
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	F/B (X) - Axis	S/S (Y) - Axis	Vert (Z) - Axis
33.5	16.7	78.1	520.5	7.67	10.57	36.99
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-2201-4 Elevator Control Panel - IGBT 300A Inverter w/o Regen drive (3Φ / 208V)						
Manufacturer: Mitsubishi Electric						
Identification: Type: CCP-GUL58 Order No.: M-OA-I49						
Description: Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL) Elevator Control Panel - IGBT 300A Inverter w/o Regen drive w/ 16 kVA (208V in / 400V out) int. Xfmr (YX303C490-12) 3Φ / 208V HEAVY DUTY Includes top-mounted resistor box						
Mounting: <u>Rigid Base (floor) mount using:</u> (4) – 3/4" diameter Grade 5 Bolts w/ Standard Washers (Torque = 110 ft-lb)						
Dimensions (in.)			Weight (lb.)	Lowest Resonant Frequency (Hz.)		
Width	Depth	Height		(S/S) X-Axis	(F/B) Y-Axis	(Vert.) Z-Axis
33.5	16.7	82.7	743.5	5.77	9.83	18.32
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2201-5 Elevator Control Panel - IGBT 300A Inverter w/ Regen drive (3Φ / 400V)						
Manufacturer: Mitsubishi Electric						
Identification: Type: CCP-GUL61 Order No.: M-OA-I49						
Description: Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL) Elevator Control Panel - IGBT 300A Inverter w/ Regen drive 3Φ / 400V HEAVY DUTY						
Mounting: Rigid Base (floor) mount using: (4) – 3/4" diameter Grade 5 Bolts w/ Standard Washers (Torque = 110 ft-lb)						
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	F/B (X) - Axis	S/S (Y) - Axis	Vert (Z) - Axis
33.5	16.7	66.9	474.5	9.78	12.81	34.47
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-2201-6 Group Control Panel (1Φ / 480V)						
Manufacturer: Mitsubishi Electric						
Identification: Type: GCP-GUL56 Order No.: M-OA-I49						
Description: Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL) Group Control Panel (1Φ / 480V) For both LIGHT DUTY & HEAVY DUTY						
Mounting: <u>Rigid Base (floor) mount using:</u> (4) – 3/4" diameter A307 Grade A Bolts w/ Standard Washers (Torque = 110 ft-lb)						
Dimensions (in.)			Weight (lb.)	Lowest Resonant Frequency (Hz.)		
Width	Depth	Height		F/B (X) - Axis	S/S (Y) - Axis	Vert (Z) - Axis
19.7	15.7	61	268	10.51	11.91	28.63
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2201-7 Group Control Panel (1Φ / 208V)						
Manufacturer: Mitsubishi Electric						
Identification: Type: GCP-GUL57 Order No.: M-OA-I49						
Description: Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL) Group Control Panel (1Φ / 208V) For both LIGHT DUTY & HEAVY DUTY						
Mounting: Rigid Base (floor) mount using: (4) – 3/4" diameter Grade 5 Bolts w/ Standard Washers (Torque = 110 ft-lb)						
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	(S/S) X-Axis	(F/B) Y-Axis	(Vert.) Z-Axis
19.7	15.7	61	199	15.73	14.77	19.74
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-2201-8 18kVA (480/400V) Autotransformer (IN: 440-480V / OUT: 400V)						
Manufacturer:						
Identification:						
Description:						
Mounting:						
Type: YX303C848-01						
Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL)						
18kVA (480/400V) Autotransformer (IN: 440-480V / OUT: 400V)						
Rigid Base (floor) mount using:						
(4) – 3/8" diameter Socket Head Cap Screws w/ Standard Washers (Torque = 30 ft-lb)						
Dimensions (in.)			Weight (lb.)	Lowest Resonant Frequency (Hz.)		
Width	Depth	Height		(S/S) X-Axis	(F/B) Y-Axis	(Vert.) Z-Axis
18.5	11.8	19.3	107.5	41.60	45.61	49.13
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2201-9 23.1kVA (208/400V) Autotransformer (IN: 200-220V / OUT: 400V)						
Manufacturer:		Chuo Electric Ind. Co. Ltd				
Identification:		Type: YX303C848-06				
Description:		Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL) 23.1kVA (208/400V) Autotransformer (IN: 200-220V / OUT: 400V) Out Current: 33.3A				
Mounting:		<u>Rigid Base (floor) mount using:</u> (4) – 3/8" diameter Socket Head Cap Screws w/ Standard Washers (Torque = 30 ft-lb)				
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	(F/B) Y-Axis	(S/S) X-Axis	(Vert.) Z-Axis
22.4	15.7	24.4	292	48.94	29.83	49.13
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						



UUT-2201-10 Elevator Control Panel (3Φ / 420V)						
Manufacturer:		Mitsubishi Electric				
Identification:		Type: CCP-GUH51 Order No.: M-OA-I49				
Description:		Component of Diamond HS – VFGHA Overhead Traction Elevator Control Panel (3Φ / 420V) LIGHT DUTY				
Mounting:		<u>Rigid Base (floor) mount using:</u> (6) – 3/8" diameter Grade 5 Bolts w/ Standard Washers (Torque = 30 ft-lb)				
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	F/B (X) - Axis	S/S (Y) - Axis	Vert (Z) - Axis
43.3	17.7	75.8	762	9.11	10.63	9.18
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						



ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2201-11 Elevator Control Panel (3Φ / 420V)						
Manufacturer: Mitsubishi Electric						
Identification: Type: CCP-GUH52 Order No.: M-OA-I49						
Description: Component of Diamond HS – VFGHA Overhead Traction Elevator Control Panel (3Φ / 420V) HEAVY DUTY						
Mounting: Rigid Base (floor) mount using: (6) – 3/8" diameter Grade 5 Bolts w/ Standard Washers (Torque = 30 ft-lb)						
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	(S/S) X-Axis	(F/B) Y-Axis	(Vert.) Z-Axis
43.3	17.7	75.8	939.5	9.64	9.29	>50
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-2201-12 Auxiliary Panel (3Φ / 480V)							
Manufacturer:		Mitsubishi Electric					
Identification:		Type: GCP-GUH56 Order No.: M-OA-I49					
Description:		Component of Diamond HS – VFGHA Overhead Traction Auxiliary Panel (3Φ / 480V) HEAVY DUTY					
Mounting:		<u>Rigid Base (floor) mount using:</u> (4) – 3/8” diameter Grade 5 Bolts w/ Standard Washers (Torque = 30 ft-lb)					
Dimensions (in.)				Weight (lb.)	Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	(S/S) X-Axis		(F/B) Y-Axis	(Vert.) Z-Axis	
19.7	17.7	75.9	286.5		17.21	16.36	39.30
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS							
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
2.0	1	1.5	3.20	2.40	1.68	0.68	
2.5	0						
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2201-13 Attach Panel (3Φ / 420V)						
Manufacturer:			Mitsubishi Electric			
Identification:			Type: ACP-GUH52 Order No.: M-OA-I49			
Description:			Component of Diamond HS – VFGHA Overhead Traction Attach Panel (3Φ / 420V) HEAVY DUTY			
Mounting:			<u>Rigid Base (floor) mount using:</u> (4) – 3/8” diameter Grade 5 Bolts w/ Standard Washers (Torque = 30 ft-lb)			
				Lowest Resonant Frequency (Hz.)		
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	(S/S) X-Axis	(F/B) Y-Axis	(Vert.) Z-Axis
27.6	17.7	75.8	723.5	15.01	14.80	38.69
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-2201-14 Group Control Panel (1Φ / 480V)						
Manufacturer:		Mitsubishi Electric				
Identification:		Type: GCP-GUH50 Order No.: M-OA-I49				
Description:		Component of Diamond HS – VFGHA Overhead Traction Group Control Panel (1Φ / 480V) For both LIGHT DUTY & HEAVY DUTY				
Mounting:		<u>Rigid Base (floor) mount using:</u> (4) – 3/8” diameter Grade 5 Bolts w/ Standard Washers (Torque = 30 ft-lb)				
Dimensions (in.)				Weight (lb.)	Lowest Resonant Frequency (Hz.)	
Width	Depth	Height	(S/S) X-Axis		(F/B) Y-Axis	(Vert.) Z-Axis
19.7	17.7	75.9	8.46		12.86	13.11
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2201-15 Group Control Panel (1Φ / 480V)						
Manufacturer: Mitsubishi Electric						
Identification: Type: GCP-GUH53 Order No.: M-OA-I49						
Description: Component of Diamond HS – VFGHA Overhead Traction Group Control Panel (1Φ / 480V) For both LIGHT DUTY & HEAVY DUTY						
Mounting: Rigid Base (floor) mount using: (4) – 3/8" diameter Grade 5 Bolts w/ Standard Washers (Torque = 30 ft-lb)						
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	(S/S) X-Axis	(F/B) Y-Axis	(Vert.) Z-Axis
19.7	17.7	75.9	332	9.25	12.78	14.01
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-2201-18 Attach Panel (3Φ / 420V)						
Manufacturer:		Mitsubishi Electric				
Identification:		Type: ACP-GUL11 Order No.: M-OA-I49				
Description:		Component of Diamond-Trac – VFGLC Machine-Room-Less (MRL) Attach Panel is used with UUT-2201-5: Elevator Control Panel (CCP-GUL61) Includes the Regen drive (PCNV), transformer, and additional components needed for higher speed w/Heavy-Duty systems above a certain passenger payload.				
Mounting:		<u>Rigid Base (floor) mount using:</u> (4) – 1/2" diameter Grade 5 Bolts w/ Standard Washers (Torque = 40 ft-lb)				
Dimensions (in.)				Weight (lb.)	Lowest Resonant Frequency (Hz.)	
Width	Depth	Height	(S/S) X-Axis		(F/B) Y-Axis	(Vert.) Z-Axis
15.5	15.5	50.5	203		16.68	17.28
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						