

## DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

### OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0444 **HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: **Cummins Power Generation** Manufacturer's Technical Representative: Raghukumar Bommenahalli Mailing Address: 1400 73rd Ave NE, Fridley, MN 55432 Email: b.s.raghukumar@cummins.com Telephone: (763) 574-3302 **Product Information** Product Name: Emergency and Standby Power Systems Product Type: Generators Product Model Number: C3000 D6, C3000 D6e, C3250 D6, C3250 D6e, 3500 D6, C3500 D6e, and PCC3300 HMI Diesel engine powered electrical generator sets, w/ controls, w/ and w/o radiator cooling system. General Description: Mounting Description: Several – See UUT Sheets, Floor Mounted Seismic enhancements made to the test units and/or modifications required to address Tested Seismic Enhancements: anomalies during the tests shall be incorporated into the production units. **Applicant Information** Applicant Company Name: VMC Group Contact Person: John Giuliano Mailing Address: 113 Main St, Bloomingdale, NJ 07403

Email: john.giuliano@thevmcgroup.com





STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

Telephone: (973) 838-1780

Title: President

09/01/2022 OSP-0444 Page 1 of 16



## DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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Certification Method							
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3							
Other (Please Specify):							
EOR CODE CO							
Testing Laboratory							
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09/01/2022 OSP-0444 Page 2 of 16



## DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

#### **Seismic Parameters**

Design Basis of Equipment or Components ( $F_P/W_P$ ) = [4.50 (SDS=2.00, z/h=1.0), 1.80 (SDS=2.40, z/h=0)] Spring Isolated; [1.50 (SDS=2.00, z/h=1.0), 1.08 (SDS=2.40, z/h=0)] Rigid

SDS (Design spectral response acceleration at short period, g) = 2.00 (z/h=1), 2.40 (z/h=0)

ap (Amplification factor) = 2.5

Rp (Response modification factor) = 2.0 (Spring Isolated); 6.0 (Rigid)

 $\Omega_0$  (System overstrength factor) = 2.0

 $I_p$  (Importance factor) = 1.5

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

#### HCAI Approval (For Office Use Only) - Approval Expires on 09/01/2028

Date: 9/1/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable): \(\int\) \(\begin{array}{c} \begin{array}{c} \begin{





09/01/2022 OSP-0444 Page 3 of 16

Table 1 - Certified 60Hz Diesel Generator Set with Radiators

	Skid Power			Dimensional Data							z/h - 1	z/h = 0	
Model <sup>(1)</sup>	Type	Rating	Max Length	Max Width	Max Height	Max Weight	Engine	Alternator	Radiator	Controller	$S_{DS}(g)$	$S_{DS}(g)$	UUT
	1 ype	[ kW ]	[ in ]	[ in ]	[ in ]	[ lbs ]					ODS(9)	ODS(9)	
C3000 D6 /	P80	2500 - 3000	311	119	150	67,682					2.00	2.40	UUT-01
C3000 D6e <sup>(1)</sup>	DIG	2500 - 3000	305	119	150	74,060					2.00	2.40	Interpolated
C3250 D6 /	P80	2500 - 3250	322	125	150	70,218	Cummine	Cummins	Young	Cummins	2.00	2.40	Interpolated
C3250 D6e	DIG	2300 - 3230	341	125	150	79,807	Cullillilli	Cultillins	Touchstone	Cullillins	2.00	2.40	Interpolated
C3500 D6 /	P80	2750 - 3500	322	125	150	70,107					2.00	2.40	Interpolated
C3500 D6e <sup>(1)</sup>	DIG	2730 - 3500	341	125	150	79,807					2.00	2.40	UUT-02

### Table 2 - Certified 60Hz Diesel Generator Set without Radiators

	Skid	Power		Dimensi	onal Data			7			z/h = 1	z/h = 0	
Model <sup>(1, 2)</sup>	Type	Rating [ kW ]	Max Length [ in ]	Max Width [ in ]	Max Height [ in ]	Max Weight	Engine	Alternator	Radiator	Controller	$S_{DS}(g)$	$S_{DS}(g)$	UUT
C3000 D6 / C3000 D6e <sup>(1)</sup>	P80	2500 - 3000	239	82	118	56,218		m			2.00	2.40	Similar to UUT-01
C3000 Dbe	DIG		250	99	B118 Ma	har63,544 Ka	arim				2.00	2.40	Interpolated
C3250 D6 /	P80	2500 - 3250	239	82	118	56,218	Cummins	Cummins	N/A	Cummins	2.00	2.40	Interpolated
C3250 D6e	DIG	2500 - 5250	250	99	118	63,544	Cullillins	Cuminis	IN/ <i>F</i> A	Cultillins	2.00	2.40	Interpolated
C3500 D6 /	P80		239	82	118	U56,218ZU	22	0			2.00	2.40	Interpolated
C3500 D6e <sup>(1)</sup>	DIG	2750 - 3500	250	99	118	64, <mark>816</mark>	/	201			2.00	2.40	Similar to UUT-02

### Table 3 - Certified PCC3300 HMI Pedestal Mounted

		Dimensions						
Model	Max Length [ in ]	Max Width [ in ]	Max Height [ in ]	Max Weight [ lbs ]	Manufacturer	z/h = 1 $S_{DS}(g)$	$z/h = 0$ $S_{DS}(g)$	UUT
PCC3300 HMI (Pedestal Mounted)	20	20	52	64	Cummins	2.00	2.40	UUT-03

#### Notes

- 1) The only differences between the "e" and non-"e" models is software.
- 2) Generator sets listed in Table 2 are identical to those listed in Table 1 except that they lack a radiator.
- 3) UUT-01 & UUT-02 are floor mounted on spring isolators.

**Table 4 - Certified Subcomponents: Engine** 

Applicable Genset Models	Model Number	Max Weight [ lbs ]	Manufacturer	Optional Engine Features	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	QSK 95	29,321 FOR CO	Cummins  DDE CO	Duplex Fuel Filters Non-Duplex Fuel Filters Cartridge Lube Oil Filter DC Prelube Device Standard Electric Starter Redundant Electric Starter Coalescing Breather	UUT-01, UUT-02

Table 5 - Certified Subcomponents: Alternator

Applicable Genset Models	Model Number	Manufacturer 7	Material	Max Weight [ lbs ]	UUT
C3000 D6 / C3000 D6e /	S9 E		, ,	13,970	Extrapolated
C3250 D6 / C3250 D6e	P80 S	DV4 M4 Language LK4 in		14,065	Extrapolated
	P80 T	BY: Mohammad Karim		14,992	Extrapolated
C3000 D6 / C3000 D6e /	S9 F	(HUMMARKARASENSEETESTA TOTAL		15,070	Extrapolated
C3250 D6 / C3250 D6e /	S9 G	DATE: 09/01/2022		17,086	Extrapolated
C3500 D6 / C3500 D6e	S9 H	DATE. 03/01/2022	27	18,078	Extrapolated
	P80 W	+	7	18,950	Extrapolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	P80 X	Physical Colors	Carbon Steel	19,080	UUT-01
N/A	P80 Y	A BI IT Cummins	Laminations	19,150	Interpolated
C3500 D6 / C3500 D6e	DIG C	BO Cumilinas	and Copper	20,780	Interpolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	DIG D		Windings	21,510	Interpolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	DIG E			22,330	Interpolated
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	DIG F			24,760	Interpolated
C3500 D6 / C3500 D6e	DIG G			26,032	UUT-02

**Table 6 - Certified Subcomponents: Radiator** 

Applicable Genset Models	Part Number	Core Size [ ft² ]	Material	Manufacturer	Max Weight [ lbs ]	UUT
C3000 D6 / C3000 D6e /	A065K762 / A065K763 / A065K764 / A065K765	84	Conner Core	Young Touchstone	11,500	Interpolated
C3250 D6 / C3250 D6e /	A049E404	84	Copper Core Carbon Steel Structure		11,500	UUT-01
<u>C3500 D6</u> / C3500 D6e	A065K759	94	Carbon Steel Structure		13,140	Interpolated
	A048D643	94			13,140	UUT-02

### Table 7 - Certified Subcomponents: Skid CODE

Applicable Genset Models	Material	Skid Type	Part Number	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	Structural Carbon Steel	P80	A047N790	BTD Manufacturing	5,100	UUT-01
C3500 D6 / C3500 D6e / C3500 D6e	Structural Carbon Steel	DIGOSE	A047Y181		9,000	UUT-02

### Table 8 - Certified Subcomponents: Controller

Applicable Genset Models	Model Number	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e /	PCC-3300 DATE: 09	/01/2022	250	UUT-01, UUT-02
C3250 D6 / C3250 D6e / C3500 D6 / C3500 D6e	PCC 3300 HMI ONLY, ON PEDESTAL	Cummins	65	UUT-03

### Table 9 - Certified Subcomponents: Air Cleaner

Applicable Genset Models	Description A BLUI	Manufacturer	Max Weight [lbs]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	Normal Duty	Cummins	1,000	UUT-01
C3500 D6 / C3500 D6e /	Heavy Duty	Cultillins	1,400	UUT-02

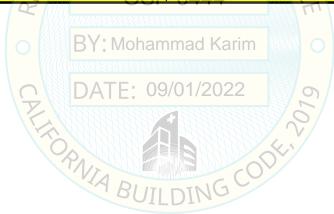
### **Table 10 - Certified Subcomponents: Power Distribution Boxes**

Applicable Genset Models	Description	Manufacturer	Max Weight [ lbs ]	UUT
C3000 D6 / C3000 D6e / C3250 D6 / C3250 D6e /	AC Distribution Box, A055K503	Cummins	26	UUT-05a, UUT-05b <sup>1</sup>
C3500 D6 / C3500 D6e / C3500 D6e	DC Distribution Box, A062R012	Guillillis	84	UUT-04a,UUT-04b <sup>1</sup>

<sup>1)</sup> UUT-04 and UUT-05 tested in rigid wall and flexible wall configuration to certify the boxes to be mounted to the side of the genset. Newly tested boxes mount to the same location on the genset as tested in the full genset models UUT-01 and UUT-02.

Table 11 - Certified Subcomponents: Motor Starter

Applicable Genset Models	Model Number	Manufacturer	Max Weight [ lbs ]	UUT
C3000 D6 / C3000 D6e /				
C3250 D6 / C3250 D6e /	M128	Prestolite	38	UUT-06a, UUT-06b
C3500 D6 / C3500 D6e	OSP-0444			





UUT-1

Test Report: VMA-49625-01E

Model Line	Model Number	Manufacturer
3000-3500 kW QSK95 Gensets	C3000 D6	Cummins Power Generation

#### **Product Construction Summary**

Diesel powered electrical generator set 3000 kW. Carbon Steel base frame

#### **Options / Subcomponent Summary**

Engine: Cummins ; QSK 95, Alternator: Cummins ; P80X, Radiator: Young Touchstone ; A049E404, Skid: Cummins / A047N790, Controller: Cummins / PCC 3300, Air Cleaner: Cummins / Normal Duty

		FOR	CODE	COA				
		U	UT Properties	S	0,			
Weight		Dimensi	ons [ in ]		4	Lowes	st Nat. Freq	. [ Hz ]
[ lbs ]	Length	Width Height			F-B	S-S	V	
67,682	311.00	119	90P-044	4 15	0.00	3.3	3.2	6.7
	UUT	Highest Pas	sed Seismic	Run Infor	mation			
Building Code	Test <mark>Criter</mark> ia	Spsion	am <mark>z/h</mark> ad k	(arlm	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
GBC 2022	ICC-E3 AC 130	2.40	0.0	1.5	-	-	1.61	0.65

#### Test Mounting Details

Unit is mounted to test fixture using (18) VMC M2SSHX-1E spring isolators. Isolators are welded to the fixture.





UUT-2

Test Report: VMA-49625-01E

Model Line	Model Number	Manufacturer
3000-3500 kW QSK95 Gensets	C3500 D6	Cummins Power Generation

#### **Product Construction Summary**

Diesel powered electrical generator set 3500 kW. Carbon Steel base frame

#### **Options / Subcomponent Summary**

Engine: Cummins / QSK 95 ; Alternator: Cummins / DIG G ; Radiator: Young Touchstone / A048D643 ; Skid: Cummins / A047Y181 ; Controller: Cummins / PCC 3300 ; Air Cleaner: Cummins / Heavy Duty

		FOR	CODEC	On				
		U	UT Properties					
Weight		Dimensi	ons [ in ]			Lowes	st Nat. Freq	. [ Hz ]
[ lbs ]	Length	Wi	Width Height			F-B	S-S	V
79,807	341.00	125	50P-0444	3.3	3.2	6.6		
	UUT	Highest Pas	sed Seismic Ru	ın Inforr	mation			
Building Code	Test <mark>Criter</mark> ia	S <sub>DS/O</sub>	am <b>z/h</b> ad Ka	arlm	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
GBC 2022	ICC-ES AC 150	2.40	0.0	1.5	<b>W</b> -	-	1.61	0.65

#### Test Mounting Details

Unit is mounted to test fixture using (20) Caldyn RJEHD spring isolators. Isolators are welded to the fixture.





UUT-3

Test Report: VMA-49625-01E

Model Line	Model Number	Manufacturer
HMI only on pedestal	PCC 3300 HMI	Cummins Power Generation

#### **Product Construction Summary**

ASTM A36 mild steel pedestal base, ASTM B221 6063 T-52 Aluminum pedestal upright, ASTM A569 mild steel HMI wrapper

#### **Options / Subcomponent Summary**

N/A

**UUT Properties** 

		991.51	perties							
Weight		Dimensions [ in ]					Lowest Nat. Freq. [ Hz ]			
[ lbs ]	Length	Width	······································	eight /	F-B	S-S	V			
66	20.00	20.00	044.4 5	2.00	7.3	4.3	> 33.3			
	UUT Hiç	hest Passed So	eismic Run Info	rmation	•					
Building Code	Test Criteria	VS <sub>DS</sub> Iohanz	had Karlm	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>			
	VX/X/X/XX	T	<del></del>							

Test Mounting Details

Unit is mounted to test fixture using (4) M12 Grade 8 Bolts.





UUT-4a

Test Report: 31632-2101; UUT-1a

Model Line	Model Number	Manufacturer
DC Distribution Box for QSK95 Gensets	A062R012	Cummins Power Generation

#### **Product Construction Summary**

Carbon Steel Enclosure and Mounting Brackets

#### **Options / Subcomponent Summary**

COR CODE CO.

Enclosure: Cummins; Mounting Brackets: Cummins

		U	UT Proper	ties	0,			
Weight		Dimens	ions [ in ]			Lowe	st Nat. Freq	. [ Hz ]
[ lbs ]	Length	Width		Н	Height		S-S	V
84	8.25	21.50 - 044.4 34.25				N/A	N/A	N/A
	UUTI	Highest Pas	sed Seism	ic Run Info	rmation			
Building Code	Test <mark>Criter</mark> ia	S <sub>ps/O</sub>	am <mark>z/h</mark> ac	Karlm	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022	100-E3 AC 150	2.40	0.0	1.5	1	-	1.61	0.65

#### Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A043D580). Mounting brackets were fastened to the unit, via (8) anti-vibration mounts (PN# A045Y867), M8 bolts, and round washers. Unit was mounted to the wall fixture using (8) 3/8" Grade 5 bolts and (8) manufacturer provided bushings (PN# A052N277). Wall fixture attached directly to shake table.





UUT-4b

Test Report: 31632-2101; UUT-1b

Model Line	Model Number	Manufacturer
DC Distribution Box for QSK95 Gensets	A062R012	Cummins Power Generation

#### **Product Construction Summary**

Carbon Steel Enclosure and Mounting Brackets

#### **Options / Subcomponent Summary**

COR CODE CO.

Enclosure: Cummins; Mounting Brackets: Cummins

		U	UT Proper	ties	0,			
Weight		Dimens	ions [ in ]			Lowe	st Nat. Freq	. [ Hz ]
[ lbs ]	Length	Width		Н	Height		S-S	V
84	8.25	21.50 - 044.4 34.25				N/A	N/A	N/A
	UUTI	Highest Pas	sed Seism	ic Run Info	rmation			
Building Code	Test <mark>Criter</mark> ia	S <sub>ps/O</sub>	am <mark>z/h</mark> ac	Karlm	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022	100-E3 AC 150	2.40	0.0	1.5	1	-	1.61	0.65

#### Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A043D580). Mounting brackets were fastened to the unit, via (8) anti-vibration mounts (PN# A045Y867), M8 bolts, and round washers. Unit was mounted to the wall fixture using (8) 3/8" Grade 5 bolts and (8) manufacturer provided bushings (PN# A052N277). Wall fixture attached to shake table using (4) VMC Group MSSH-1E-530N external spring isolators.





UUT-5a

Test Report: 31632-2101; UUT-2a

Model Line	Model Number	Manufacturer
AC Distribution Box for QSK95 Gensets	A055K503	Cummins Power Generation

#### **Product Construction Summary**

Carbon Steel Enclosure and Mounting Brackets

#### **Options / Subcomponent Summary**

COR CODE CO.

Enclosure: Cummins; Mounting Brackets: Cummins

			VAVAVAVAVA CONSTRU					
		U	IUT Proper	ties	0,			
Weight		Dimens	ions [ in ]			Lowe	st Nat. Freq	. [ Hz ]
[lbs]	Length	Width Height		eight	F-B	S-S	V	
26	5.75	10.50 - 044.4 21.25				N/A	N/A	N/A
	UUTI	Highest Pas	sed Seism	ic Run Infor	mation			
Building Code	Test <mark>Criter</mark> ia	S <sub>ps/O</sub>	am <mark>z/h</mark> ac	l Kar <b>i</b> m	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022	ICC-E3 AC 150	2.40	0.0	1.5	1	-	1.61	0.65

#### Test Mounting Details

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A052V294 [top] and A053M862 [bottom]). Mounting brackets were fastened to the unit, via (4) anti-vibration mounts (PN# A043E678), M6 bolts, and round washers. Unit was mounted to the wall fixture using (7) 3/8" Grade 5 bolts and (7) manufacturer provided bushings (PN# A043U714). Wall fixture attached directly to shake table.





UUT-5b

Test Report: 31632-2101; UUT-2b

Model Line	Model Number	Manufacturer		
AC Distribution Box for QSK95 Gensets	A055K503	Cummins Power Generation		

#### **Product Construction Summary**

Carbon Steel Enclosure and Mounting Brackets

#### **Options / Subcomponent Summary**

COR CODE CO.

Enclosure: Cummins; Mounting Brackets: Cummins

	/.5	. V	UT Propert	ies						
Weight			ons [ in ]			Lowe	st Nat. Freq	. [ Hz ]		
[ lbs ]	Length	Wi	Width Height				S-S	V		
26	5.75	10.50 - 0.44.4 21.25				N/A	N/A	N/A		
UUT Highest Passed Seismic Run Information										
Building Code	Test <mark>Criter</mark> ia	Spsion	am <b>z/h</b> ac	l Karlm	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>		
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-		
	ICC-ES ACTS0	2.40	0.0	1.5	1	-	1.61	0.65		

#### **Test Mounting Details**

Unit is mounted to test fixture using manufacturer provided mounting brackets (PN# A052V294 [top] and A053M862 [bottom]). Mounting brackets were fastened to the unit, via (4) anti-vibration mounts (PN# A043E678), M6 bolts, and round washers. Unit was mounted to the wall fixture using (7) 3/8" Grade 5 bolts and (7) manufacturer provided bushings (PN# A043U714). Wall fixture attached to shake table using (4) VMC Group MSSH-1E-530N external spring isolators.





**UUT-6a** 

Test Report: 19534-2201: UUT-4a. 5a

rest Nepott. 19334-2201, 001-44, 3						
Model Line	Model Number	Manufacturer				
Motor Starter for QSK95 Gensets	M128	Prestolite				
Product Construction Summary						
Carbon Steel						

**Options / Subcomponent Summary** 

N/A

		FOR	CODE	COA					
		U	JT Properties	M					
Weight		Dimensions [ in ]				Lowest Nat. Freq. [ Hz ]			
[ lbs ]	Length	Width Height			F-B	S-S	V		
38	5.00	(5.	59P-044	N/A	N/A	N/A			
	UUT	Highest Pass	sed Seismic	Run Infori	mation				
Building Code	Test <mark>Criter</mark> ia	BVS <sub>DS/Oh</sub>	am <b>z/h</b> ad k	(arm	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>	
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-	
	100-E3 AC 130	2.40	0.0	1.5	-	-	1.60	0.64	

Test Mounting Details

Unit is mounted to a 1/4" thick steel mounting plate on the wall fixture with (3) 1/2" Grade 5 bolts. The wall fixture attached to the shake table with (12) Grade 5 M12 threaded rods.





UUT-6b

Test Report: 19534-2201; UUT-4b, 5b

Model Line	Model Number	Manufacturer			
Motor Starter for QSK95 Gensets	M128	Prestolite			
Product Construction Summary					

Carbon Steel

**Options / Subcomponent Summary** 

N/A

		FOR	CODE	COA					
		U	JT Propertie	s					
Weight	13	Dimensions [ in ]				Lowest Nat. Freq. [ Hz ]			
[ lbs ]	Length	Wic	Width			F-B	S-S	V	
38	5.00	(5.	9P-044	N/A	N/A	N/A			
	UUT	Highest Pass	sed Seismic	Run Infor	mation				
Building Code	Test <mark>Criter</mark> ia	S S DS/ICH	am <b>z/h</b> ad	Karlm	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>	
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-	
	ICC-ES ACTSO	2.40	0.0	1.5	-	-	1.60	0.64	

#### Test Mounting Details

Unit is mounted to a 1/4" thick steel mounting plate on the wall fixture with (3) 1/2" Grade 5 bolts. The wall fixture attached to (4) VMC M2SSH-1E-530N isolators using (4) 3/4" Grade 5 threaded rods. The isolator base plate attached to the shake table with (16) Grade 5 M12 threaded rods.

