

Title: Seismic Test Engineer

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

APPLICATION FOR HCAI SPE	CIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROV		APPLICATION #: OSP-0869
HCAI Special Seismic Certification Pre	approval (OSP)	
Type: X New Renewal		
Manufacturer Information		
Manufacturer: Post Glover Resistors, Inc		
Manufacturer's Technical Representative: Joi	nathan Nash	
Mailing Address: 1369 Cox Ave., Erlanger, K	Y 41018	
Telephone: (859) 283-0778	Email: jonathan.nash@pos	stglover.com
Product Information		
Product Name: Neutral Grounding Resistor a	nd Dynamic Braking Resistor	
Product Model Number(s): See attached		
Product Category: Power Isolation a	nd Correction Systems	12
Product Sub-Category: Grounding System	ms 05P-0869	
	ons for bushing entry/exit, window	gh sections, grounded Indoor and outdoor safety style current transformers, sensing resistor,
Mounting Description: Base Mounted Rigid	ATE, 10/1/2025	
Tested Seismic Enhancements: None)A E. 10/1/2023	25
Applicant Information		
Applicant Company Name: Dynamic Certifica	tion Laboratories	
Contact Person: Rachel Wolfe	A RIVERSIA	
Mailing Address: 1315 Greg Street, Sparks, N	NV 89431	
Telephone: (775) 358-5085	Email: rachel.wolfe@shake	etest.com



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

California Licensed Struct	tural Engineer R	Responsible for the Engir	neering and Test Repo	rt(s)
Company Name: THE VMC G	ROUP			
Name: Kenneth Tarlow		California Lice	ense Number: S2851	
Mailing Address: 980 9th Stre	et, 16th Floor, Sac	ramento, CA 95814		
Telephone: (832) 627-2214		_ Email: ken.tarlow@thevm	ncgroup.com	
Certification Method				
GR-63-Core	ICC-ES AC156	IEEE 344	IEEE 693	NEBS 3
Other (Please Specify):				
Testing Laboratory				
Company Name: DYNAMIC C	ERTIFICATION LA	ABORATORY (DCL)	6	
Contact Person: Josh Sailer	12	LICATION		
Mailing Address: 1315 Greg S	St., Ste 109, Sparks	s NV 89431	32	
Telephone: (775) 358-5085	N. C.	Email: josh@shaketest.c	om	
	o BY	: Mohammad Karim		
	C DA	TE: 10/1/2025	025	
	PNI	A BUILDING CO	DE.	

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

Seismic Parameters

Certified Response Spectral Acceleration Factors:(Fp/Wp)

Horizontal (A Flx-H), g= 3.62 (A Rig-H), g= 2.43

Vertical (A Flx-V), g= 1.51 (A Rig-V), g= 0.6

SDS (Design spectral response acceleration at short period, g) = 2.26 at z/h=1.0 and 0

Hf (Force amplification height factor) = 3.5 at z/h=1.0; 1 at z/h=0

Ru (Structure ductility redution factor) = 1.3 at z/h=1.0; 1 at z/h=0

Ip (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 10/01/2031

Date: 10/1/2025

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

BY: Mohammad Karim

DATE: 10/1/2025



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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

Table 1 - Certified Components



DCL Project Number: 94797-2401

Manufacturer: Post Glover Resistors, Inc.

Product Line: Neutral Grounding Resistor and Dynamic Braking Resistor

Product Construction Summary: Mill Galvanized Carbon Steel or 304 Stainless Steel Enclosure, NEMA 2 or NEMA 3R/IP23 or NEMA 1

Mounting: Rigid Base Mounted

Certified Seismic Levels: Sds 2.26 g at z/h = 1.0 and z/h = 0.0

Factors for Force Amplification and Structure Ductility Reduction: H_f = 3.5 at z/h=1.0; 1.0 at z/h=0 and R_u = 1.3 at z/h=1.0; 1.0 at z/h=0

	Description	IVI	ax. Dimensions [ii	Max. Operating	Unit	
Resistor Type	Description	Depth	Width	Height	Weight [lb.] ¹	Unit
Wirewound	Resistor, Neutral Grounding, 277V, 2.3A, 10SEC/760°C	20.0	30.5	15.3	82.6	UUT-09
Edgewound, Wirewound, Smoothwound	Resistor, Neutral Grounding	20.0	30.5	15.3	150.0	Interpolated
Edgewound, Wirewound, Smoothwound	Resistor, Neutral Grounding	20.0	30.5	22.3	220.0	Interpolated
Edgewound, Wirewound, Smoothwound	Resistor, Neutral Grounding	20.0	30.5	29.3	290.0	Interpolated
MXX-NGDXXXXXX-145XXXX-MODXXX Edgewound, Wirewound, Smoothwound		20.0	30.5	36.3	304.0	Interpolated
Edgewound, Wirewound, Smoothwound	Resistor, Neutral Grounding, 600V, 0.2A, 10SEC/760°C	21.5	30.6	36.0	304.0	UUT-10a,b
Grid	Resistor, Neutral Grounding	21.5	30.6	15.3	160.0	Interpolated
Grid	Resistor, Neutral Grounding	21.5	30.6	22.3	250.0	Interpolated
Grid	Resistor, Neutral Grounding	21.5	30.6	29.3	313.4	Interpolated
MXX-NGDXXXXXX-1G5XXXX- MODXXX		21.5	30.6	36.0	313.4	Interpolated
M-NGD60A146-1G50A00-UUT11 Grid		21.5	30.6	36.0	313.4	UUT-11a,b
	Edgewound, Wirewound, Smoothwound Grid Grid Grid Grid	Wirewound Resistor, Neutral Grounding, 277V, 2.3A, 10SEC/760°C Edgewound, Wirewound, Smoothwound Edgewound, Wirewound, Smoothwound Edgewound, Wirewound, S	Wirewound Resistor, Neutral Grounding, 277V, 20.0 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding Edgewound, Wirewound, Smoothwound Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding Edgewound, Wirewound, Smoothwound Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding Edgewound, Wirewound, Smoothwound Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding Edgewound, Wirewound, Smoothwound Edgewound, Wirewound, Smoothwoun	Wirewound Resistor, Neutral Grounding, 277V, 20.0 30.5 Edgewound, Wirewound, Smoothwound Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 Edgewound, Wirewound, Smoothwound Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 Edgewound, Wirewound, Smoothwound Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 Grid Resistor, Neutral Grounding 20.0 30.5 Grid Resistor, Neutral Grounding 20.0 30.6 Grid Resistor, Neutral Grounding 21.5 30.6	Wirewound Resistor, Neutral Grounding, 277V, 20.0 30.5 15.3 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 15.3 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 22.3 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 29.3 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 29.3 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 36.3 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 36.3 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 36.3 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 30.6 36.0 Grid Resistor, Neutral Grounding 21.5 30.6 22.3 Grid Resistor, Neutral Grounding 21.5 30.6 29.3 Grid Resistor, Neutral Grounding 21.5 30.6 36.0 Resistor, Neutral Grounding 21.5 30.6 36.0 Resistor, Neutral Grounding 21.5 30.6 36.0	Wirewound Resistor, Neutral Grounding, 277V, 2.3A, 10SEC/760°C 20.0 30.5 15.3 82.6 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 15.3 150.0 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 22.3 220.0 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 29.3 290.0 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding 20.0 30.5 36.3 304.0 Edgewound, Wirewound, Smoothwound Resistor, Neutral Grounding, 600V, 0.2A, 10SEC/760°C 21.5 30.6 36.0 304.0 Grid Resistor, Neutral Grounding 21.5 30.6 15.3 160.0 Grid Resistor, Neutral Grounding 21.5 30.6 22.3 250.0 Grid Resistor, Neutral Grounding 21.5 30.6 29.3 313.4 Grid Resistor, Neutral Grounding 21.5 30.6 29.3 313.4 Grid Resistor, Neutral Grounding, 600V, 146A, 10SEC/760°C

Note:

Note:

1. UUT-10a and UUT-11a were tested with an optional interior bracket. UUT-10b and UUT-11b were tested without an optional interior bracket. Maximum weight includes optional interior brackets. The optional bracket can be installed in any height NEMA 3R enclosure. The optional brackets can be up to 4" wide.



Table 2 - Certified Options - Neutral Grounding Resistor Nomenclature Chart



DCL Project Number: 94797-2401

Manufacturer: Post Glover Resistors, Inc.
Product Line: Neutral Grounding Resistor
Mounting Description: Rigid Base Mounted

Certified Seismic Levels: Sds 2.26 g at z/h = 1.0 and z/h = 0.0

CU

Sample Value	Allowable Value	Category	Definition	Justification for Interpolation/ Extrapolation	Unit					
М	М	Seismic	Seismic	Tested	UUT-09, UUT-10a,b, UUT-11a,b					
CU	Blank	Seismic	OSP Certified	Tested	UUT-09, UUT-10a,b, UUT-11a,b					
CO	xx	Other	Other Regulatory Compliance ¹	Same design as tested units	Same as tested					
NG	NG	Resistor Style	Neutral Grounding	Tested	UUT-09, UUT-10a,b, UUT-11a,b					
	D10		100V	Bookended by tested units	Interpolated					
	D16		160V	Bookended by tested units	Interpolated					
	D24		240V	Bookended by tested units	Interpolated					
D27	D27	Voltage	277V	Tested	UUT-09					
	D37		370V	Bookended by tested units	Interpolated					
	048		480V	Bookended by tested units	Interpolated					
	D60		600V	Tested	UUT-10a,b, UUT-11a,b					
	W		2 Sec/760C OR 2 Sec/750C	Bookended by tested units	Extrapolated					
	Α	1,3	10 Sec/760C OR 10 Sec/750C	N/A	UUT-09, UUT-10a,b, UUT-11a,b					
	В		15 Sec/760C OR 15 Sec/750C	Bookended by tested units	Interpolated					
Ī	D	/ 3 / 8	20 Sec/760C OR 20 Sec/750C	Bookended by tested units	Interpolated					
Α	Н	Duty ²	30 Sec/760C OR 30 Sec/750C	Bookended by tested units	Interpolated					
	М		60 Sec/610C OR 60 Sec/600C	Bookended by tested units	Interpolated					
	N		60 Sec/760C OR 60 Sec/750C	Bookended by tested units	Interpolated					
	С		Continuous/385C OR Continuous/375C	Bookended by tested units	Interpolated					
	E		Extended/610C OR Extended/600C	Bookended by tested units	Interpolated					
	0D2		0.2A	Tested	UUT-10a,b					
	2D3		2.3A	Tested	UUT-09					
	5D0		5A	Bookended by tested units	Interpolated					
	010		ΔTE • 10A ()/1/2()2	Bookended by tested units	Interpolated					
400	019	Current ³	19A	Bookended by tested units	Interpolated					
	030		30A	Bookended by tested units	Interpolated					
	053		53A	Bookended by tested units	Interpolated					
	146		146A	Tested	UUT-11a,b					
	М		Multiple Amps Option	Bookended by tested units	Interpolated					
1	1	Enclosure Quantity	One Enclosure	Tested	UUT-09, UUT-10a,b, UUT-11a,b					
	18		2 x 7 in section	Tested	UUT-09					
	G2		2 x 7 in section - Grid	Bookended by tested units	Interpolated					
[27		3 x 7 in section	Bookended by tested units	Interpolated					
45	G3	Enclosure Height	3 x 7 in section - Grid	Bookended by tested units	Interpolated					
**	36	Linciosure rieigilt	4 x 7 in section	Bookended by tested units	Interpolated					
	G4		4 x 7 in section - Grid	Bookended by tested units	Interpolated					
[45		5 x 7 in section	Tested	UUT-10a,b					
	G5		5 x 7 in section - Grid	Tested	UUT-11a,b					

Continued on next page

Notes

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^{1.} Other regulatory compliance certifications outside of OSHPDs are not certified under this OSP.

^{2.} The duty rating relates directly to the number of resistors, a range of resistors were tested in the selected units.

^{3.} Current may be any value. Subcomponents relating to the Current Option are bookended by tested units.

Table 3 - Certified Options - Neutral Grounding Resistor Nomenclature Chart (Continued)



DCL Project Number: 94797-2401

Manufacturer: Post Glover Resistors, Inc.
Product Line: Neutral Grounding Resistor
Mounting Description: Rigid Base Mounted

Certified Seismic Levels: Sds 2.26 g at z/h = 1.0 and z/h = 0.0

Sample Part Number: MCU-NGD27A400-145AA00-MODXXX

 Model Number Nomenclature

 M
 CU
 NG
 D27
 A
 400
 1
 45
 A
 A
 0
 0
 MODXXX

iample Value	Allowable Value	Category	Definition	Justification for Interpolation/ Extrapolation	Unit
	0		Mill Galvanized	N/A	UUT-09, UUT-11a,b
	Α		304 Stainless Steel	N/A	UUT-10a,b
	В		316 Stainless Steel	Corrosion-Resistant 304 Stainless Steel	Same as UUT-10a,b
	D		Galvanneal Steel, ANSI 49	Different Paint	Same as UUT-09, UUT-11a,b
	E		Galvanneal Steel, ANSI 61	Different Paint	Same as UUT-09, UUT-11a,b
	F		Galvanneal Steel, ANSI 70	Different Paint	Same as UUT-09, UUT-11a,b
	G		304 Stainless Steel, ANSI 49	Different Paint	Same as UUT-10a,b
	Н	Resistor Enclosure	304 Stainless Steel, ANSI 61	Different Paint	Same as UUT-10a,b
Α	_	Material	304 Stainless Steel, ANSI 70	Different Paint	Same as UUT-10a,b
	J		304 Stainless Steel, Special Paint	Different Paint	Same as UUT-10a,b
	К		316 Stainless Steel, ANSI 49	Different Paint	Same as UUT-10a,b
	L		316 Stainless Steel, ANSI 61	Different Paint	Same as UUT-10a,b
	М		316 Stainless Steel, ANSI 70	Different Paint	Same as UUT-10a,b
	N		316 Stainless Steel, Special Paint	Different Paint	Same as UUT-10a,b
	Р	A	Galvanneal Steel, Special Paint	Mill Galvanized Steel with finish	Same as UUT-09, UUT-11a,b
	R	1411	Galvanneal Steel, RAL7035	Different Paint	Same as UUT-09, UUT-11a,b
	0		NEMA 1 / Type 1	Same design as UUT-09	Same as Tested
Α	2	Enclosure Rating	NEMA 2 / Type 2	Tested Tested	UUT-09
	Α		NEMA 3R / IP23 / Type 3R	Tested	UUT-10a,b and UUT-11a,b
	0		RV. Nonenammad	Karim N/A	UUT-11a,b
	1		10:5	N/A	UUT-09
	2		25:5	Different Ratio	Same construction as UUT-09
	3		50:5	Different Ratio	Same construction as UUT-10a,
	4	Current Transformer	100:5	Different Ratio	Same construction as UUT-10a,
0	5	Ratio	200:5	N/A	UUT-10a,b
	6		300:5	Different Ratio	Same construction as UUT-10a,
	7		400:5	Different Ratio	Same construction as UUT-10a,
	8		600:5	Different Ratio	Same construction as UUT-10a,
	9		1000:5	Different Ratio	Same construction as UUT-10a,
	0		None	N/A	UUT-11a,b
	J	1	Junction Box Only	Bookended by tested units	Interpolated
	К	1	Junction Box and 2 pole Terminal Block	Tested	UUT-09
0	L	Terminal Block ¹	Junction Box and 4 pole Terminal Block	Bookended by tested units	Interpolated
	М	1	Junction Box and 6 pole Terminal Block	Tested	UUT-10a,b
	N	1	Junction Box and 8 pole Terminal Block	Bookended by tested units	Interpolated
MODXXX	MODXXX	Optional, Job Specific	Modification Number	Digits for non-standard options that are within OSHPD guidelines	Same as Tested ²

Note:

^{1.} Terminal Block split into multiple shorter Terminal Blocks to get total poles required. Worst case configuration is Six Pole, which was tested in UUT-10a,b.

^{2.} UUT09, UUT10 and UUT11 are the MODXXX for the tested units.

Table 4 - Certified Options - Dynamic Braking Resistor Nomenclature Chart (Alternative Branding)



DCL Project Number: 94797-2401

Manufacturer: Post Glover Resistors, Inc.
Product Line: Dynamic Braking Resistor
Mounting Description: Rigid Base Mounted

Certified Seismic Levels: Sds 2.26 g at z/h = 1.0 and z/h = 0.0

Sample Part Number: MCU-DB6D00-10K0-1G30AAN0-MODXXX

		Model I	Numb	er No	men	clatur	e					
6D00	-	10K0	-	1	G3	0	Α	Α	N	0	-	MODXXX

	М	CU - DB 6	D00 - 10K0 - 1 C	33 0 A A N 0 -	MODXXX		
Sample Value	Allowable Value	Category	Definition	Justification for Interpolation/ Extrapolation	Unit		
М	M	Seismic	Seismic	Tested	UUT-09, UUT-10a,b, UUT-11a,b		
CU	Blank	Seismic	OSP Certified	Tested	UUT-09, UUT-10a,b, UUT-11a,b		
CO	X	Other ¹	Other Regulatory Compliance	Same design as tested units	Same as tested		
	DB		(Dynamic Braking) - One system	Difference is branding only	Same as UUT-09, UUT-10a,b, UUT-11a,b		
DB	DB2	Resistor Style	(Dynamic Braking) - Two Systems	Difference is branding only	Same as UUT-09, UUT-10a,b, UUT-11a,b		
	DB3	Resistor Style	(Dynamic Braking) - Three Systems	Difference is branding only	Same as UUT-09, UUT-10a,b, UUT-11a,b		
	DB4		(Dynamic Braking) - Four Systems	Difference is branding only	Same as UUT-09, UUT-10a,b, UUT-11a,b		
	0D24		0.24 Ohms	Less than tested units	Extrapolated		
	4D12		4.12 Ohms	Tested	UUT-11a,b		
_	5D23		5.23 Ohms	Bookended by tested units	Interpolated		
6D00	14D8	Resistance ²	14.8 Ohms	Bookended by tested units	Interpolated		
0000	0120	Resistance	120 Ohms	Tested	UUT-09		
	0700	11/1	700 Ohms	Bookended by tested units	Interpolated		
	3K00		3000 Ohms	Tested	UUT-10a,b		
	M		Multiple Ohm Option	Bookended by tested units	Interpolated		
	0075	1418	75 Watts	Less than tested units	Extrapolated		
	0120		120 Watts	Tested	UUT-10a,b		
	0640		640 Watts	Tested	UUT-09		
10K0	1K75	Watts ³	1,750 Watts	Bookended by tested units	Interpolated		
	14K7		14,700 Watts	Karim Tested	UUT-11a,b		
	16K1		16,100 Watts	Bookended by tested units	Interpolated		
	М		Multiple Watt Option	Bookended by tested units	Interpolated		
1	1	Enclosure Quantity	One Enclosure	Tested	UUT-09, UUT-10a,b, UUT-11a,b		
	18		2 x 7 in section	25 Tested 16	UUT-09		
	G2		2 x 7 in section - Grid	In between tested sizes	Interpolated		
	27		3 x 7 in section	In between tested sizes	Interpolated		
G3	G3	Enclosure Height	3 x 7 in section - Grid	In between tested sizes	Interpolated		
G3	36	Enclosure Height	4 x 7 in section	In between tested sizes	Interpolated		
	G4		4 x 7 in section - Grid	In between tested sizes	Interpolated		
	45		5 x 7 in section	Tested	UUT-10a,b		
	G5		5 x 7 in section - Grid	Tested	UUT-11a,b		
	0		Mill Galvanized	Tested	UUT-09, UUT-11a,b		
	Α		304 Stainless Steel	Tested	UUT-10a,b		
_	В		316 Stainless Steel	Corrosion-Resistant 304 Stainless Steel	Same as UUT-10a,b		
_	D		Galvanneal Steel, ANSI 49	Different Paint	Same as UUT-09, UUT-11a,b		
<u> </u>	E		Galvanneal Steel, ANSI 61	Different Paint	Same as UUT-09, UUT-11a,b		
	F]	Galvanneal Steel, ANSI 70	Different Paint	Same as UUT-09, UUT-11a,b		
<u> </u>	G		304 Stainless Steel, ANSI 49	Different Paint	Same as UUT-10a,b		
0	Н	Resistor Enclosure	304 Stainless Steel, ANSI 61	Different Paint	Same as UUT-10a,b		
Ţ	I	Material	304 Stainless Steel, ANSI 70	Different Paint	Same as UUT-10a,b		
	J		304 Stainless Steel, Special Paint	Different Paint	Same as UUT-10a,b		
	K]	316 Stainless Steel, ANSI 49	Different Paint	Same as UUT-10a,b		
	L		316 Stainless Steel, ANSI 61	Different Paint	Same as UUT-10a,b		
	M]	316 Stainless Steel, ANSI 70	Different Paint	Same as UUT-10a,b		
	N		316 Stainless Steel, Special Paint	Different Paint	Same as UUT-10a,b		
<u> </u>	Р]	Galvanneal Steel, Special Paint	Mill Galvanized Steel with finish	Same as UUT-09, UUT-11a,b		
	R		Galvanneal Steel, RAL7035	Different Paint	Same as UUT-09, UUT-11a,b		

Continued on next page

Note:

^{1.} Other regulatory compliance certifications outside of HCAI are not certified under this OSP.

^{2.} Resistance and Watts may be any value. Subcomponents related to the Resistance and Watts Options are bookended by tested units.

^{3.} Where Watts is Greater than 10kW, top section of the enclosure is left empty. This configuration is bookended by the tested units

Table 5 - Certified Options - Dynamic Braking Resistor Nomenclature Chart (Alternative **Branding) (Continued)**



DCL Project Number: 94797-2401 Manufacturer: Post Glover Resistors, Inc.

Product Line: Dynamic Braking Resistor Mounting Description: Rigid Base Mounted

Certified Seismic Levels: Sds 2.26 g at z/h = 1.0 and z/h = 0.0

M CU

DB

Sample Part Number: MCU-DB6D00-10K0-1G30AAN0-MODXXX

		Model I	Numb	er No	men	clatur	re					
6D00	-	10K0	-	1	G3	0	Α	Α	N	0	-	MODXXX

Sample Value	Allowable Value	Category	Definition	Justification for Interpolation/ Extrapolation	Unit		
4	0		NEMA 1 / Type 1	Same design as UUT-09	Same as Tested		
Α	2	Enclosure Rating	NEMA 2 / Type 2	Tested	UUT-09		
	Α		NEMA 3R / IP23 / Type 3R	Tested	UUT-10a,b, UUT-11a,b		
	0		None	Depopulated version of tested units	Extrapolated		
^	Α	Thermal Switch	Normally Closed	Tested	UUT-09, UUT-10a,b, UUT-11a,b		
^	A B Thermal Switch				Normally Open	Same as tested	Same as tested
			Both Normally Open / Normally Open	Same as tested			
0		None	Tested	UUT-11a,b			
	А		Two Pole	Bookended by tested units	Interpolated		
	В		Four Pole	Tested	UUT-09		
N	С	Terminal Block	Six Pole	Tested	UUT-10a,b		
IN	D	Terminal Block	Eight Pole ¹	Bookended by tested units	Interpolated		
	E		Ten Pole ¹	Bookended by tested units	Interpolated		
	F		Twelve Pole ¹	Bookended by tested units	Interpolated		
	N		NEMA Two Hole Bus	Bookended by tested units	Interpolated		
0	0	Bottom	Open	Tested	UUT-09, UUT-10a,b, UUT-11a,b		
MODXXX	MODXXX	Optional, Job Specific	Modification Number	Digits for non-standard options that are within OSHPD guidelines	Same as Tested ²		

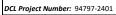
Note:

1. Terminal Block split into multiple shorter Terminal Blocks to get total poles required. Worst case configuration is Six Pole, which was tested in UUT-10a,b. Mohammad Karim

2. UUT09, UUT10 and UUT11 are the MODXXX for the tested units.



Table 6 - Certified Subcomponents





	Grounding Resistor and Dynamic Braking Resis		2			
Subcomponent Type	Model Number	Manufacturer	Description	Material	Weight [lb.]	Unit
	M-CU-NG-DO18-2-XX		2 high, Type 2, NEMA 1 / NEMA 2 Coil Enclosure	Mill Galvanized	70	UUT-09
	M-CU-NG-DO18-2-XX-PG			Galvanneal, Painted	70	Interpolated
	CU-NG-DO18-2-GU-MOD558-XX-PG		2 high, Type 2, NEMA 1 / NEMA 2 Grid Enclosure	Mill Galvanized	70	Interpolated
	CU-NG-DO18-2-GU-MOD558-XX			Galvanneal, Painted	70	Interpolated
	CU-NG-DO18-3R-MOD558-XX-PG		2 high, Nema 3R / IP23, Type 3R Coil Enclosure	Galvanneal, Painted	87	Interpolated
	CU-NG-DO18-3R-MOD558-XX			Mill Galvanized	87	Interpolated
	CU-NG-DO18-3R-GU-MOD558-XX-PG		2 high, Nema 3R / IP23, Type 3R Grid Enclosure	Galvanneal, Painted	87	Interpolated
	CU-NG-DO18-3R-GU-MOD558-XX			Mill Galvanized	87	Interpolated
	M-CU-NG-DO27-2-XX-PG		3 high, Type 2, NEMA 1 / NEMA 2 Coil Enclosure	Galvanneal, Painted	85	Interpolated
	M-CU-NG-DO27-2-XX			Mill Galvanized	85	Interpolated
	CU-NG-DO27-2-GU-MOD558-XX-PG		3 high, Type 2, NEMA 1 / NEMA 2 Grid Enclosure	Mill Galvanized	85	Interpolated
	CU-NG-D027-2-GU-MOD558-XX			Galvanneal, Painted	85	Interpolated
	CU-NG-DO27-3R-MOD558-XX-PG		3 high, Nema 3R / IP23, Type 3R Coil Enclosure	Galvanneal, Painted	110	Interpolated
	CU-NG-DO27-3R-MOD558-XX			Mill Galvanized	110	Interpolated
	CU-NG-DO27-3R-GU-MOD558-XX-PG		3 high, Nema 3R / IP23, Type 3R Grid Enclosure	Galvanneal, Painted	110	Interpolated
	CU-NG-DO27-3R-GU-MOD558-XX		CODE	Mill Galvanized	110	Interpolated
	M-CU-NG-DO36-2-XX-PG	-01	4 high, Type 2, NEMA 1 / NEMA 2 Coil Enclosure	Galvanneal, Painted	99	Interpolated
	M-CU-NG-DO36-2-XX	1 PO.		Mill Galvanized	99	Interpolated
	CU-NG-D036-2-GU-MOD558-XX-PG		4 high, Type 2, NEMA 1 / NEMA 2 Grid Enclosure	Galvanneal, Painted	99	Interpolated
	CU-NG-DO36-2-GU-MOD558-XX			Mill Galvanized	99	Interpolated
	CU-NG-DO36-3R-MOD558-XX-PG		4 high, Nema 3R / IP23, Type 3R Coil Enclosure	Galvanneal, Painted	133	Interpolated
	CU-NG-DO36-3R-MOD558-XX			Mill Galvanized	133	Interpolated
	CU-NG-DO36-3R-GU-MOD558-XX-PG		4 high, Nema 3R / IP23, Type 3R Grid Enclosure	Galvanneal, Painted	133	Interpolated
	CU-NG-DO36-3R-GU-MOD558-XX		1D 0000	Mill Galvanized	133	Interpolated
	M-CU-NG-DO45-2-XX-PG	O_{0}	5 high, Type 2, NEMA 1 / NEMA 2 Coil Enclosure	Galvanneal, Painted	114	Interpolated
	M-CU-NG-DO45-2-XX		3411 1341 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mill Galvanized	114	Interpolated
	CU-NG-DO45-2-GU-MOD558-XX-PG		5 high, Type 2, NEMA 1 / NEMA 2 Grid Enclosure	Galvanneal, Painted	114	Interpolated
	CU-NG-DO45- <mark>2-GU-MOD</mark> 558-XX	1/. 1/.	hammad Karim	Mill Galvanized	114	Interpolated
	CU-NG-DO45-3R-MOD558-XX-PG	y . IVIC	5 high, Nema 3R / IP23, Type 3R Coil Enclosure	Galvanneal, Painted	156	Interpolated
	CU-NG-DO45-3R-MOD558-XX	Post Glover	S41104M1S - ///////////////////////////////////	Mill Galvanized	156	Interpolated
	CU-NG-DO45-3R-GU-MOD558-XX-PG		5 high, Nema 3R / IP23, Type 3R Grid Enclosure	Galvanneal, Painted	156	Interpolated
Enclosures	CU-NG-DO45-3R-GU-MOD558-XX		10/1/2025	Mill Galvanized	156	UUT-11
	M-CU-NG-DO18-2-XX-304	Resistors	2 high, Type 2, NEMA 1 / NEMA 2 Coil Enclosure	304 Stainless Steel	71	Interpolated
	M-CU-NG-D018-2-XX-316			316 Stainless Steel	71	Interpolated
	CU-NG-D018-2-GU-MOD558-XX-304		2 high, Type 2, NEMA 1 / NEMA 2 Grid Enclosure	304 Stainless Steel	71	Interpolated
	CU-NG-D018-2-GU-MOD558-XX-316			316 Stainless Steel	71	Interpolated
	CU-NG-D018-3R-M0D558-XX-304		2 high, Nema 3R / IP23, Type 3R Coil Enclosure	304 Stainless Steel	89	Interpolated
	CU-NG-D018-3R-M0D558-XX-316			316 Stainless Steel	89	Interpolated
	CU-NG-D018-3R-GU-M0D558-XX-304	17	2 high, Nema 3R / IP23, Type 3R Grid Enclosure	304 Stainless Steel	89	Interpolated
	CU-NG-D018-3R-GU-M0D558-XX-316	VA N		316 Stainless Steel	89	Interpolated
	M-CU-NG-D027-2-XX-304	B	3 high, Type 2, NEMA 1 / NEMA 2 Coil Enclosure	304 Stainless Steel 316 Stainless Steel	86	Interpolated
	M-CU-NG-D027-2-XX-316		OILDII		86	Interpolated
	CU-NG-DO27-2-GU-MOD558-XX-304 CU-NG-DO27-2-GU-MOD558-XX-316		3 high, Type 2, NEMA 1 / NEMA 2 Grid Enclosure	304 Stainless Steel	86	Interpolated
				316 Stainless Steel 304 Stainless Steel	86	Interpolated
	CU-NG-DO27-3R-MOD558-XX-304		3 high, Nema 3R / IP23, Type 3R Coil Enclosure		112	Interpolated
	CU-NG-DO27-3R-MOD558-XX-316			316 Stainless Steel	112	Interpolated
	CU-NG-DO27-3R-GU-MOD558-XX-304		3 high, Nema 3R / IP23, Type 3R Grid Enclosure	304 Stainless Steel	112	Interpolated
	CU-NG-DO27-3R-GU-MOD558-XX-316			316 Stainless Steel	112	Interpolated
	M-CU-NG-D036-2-XX-304		4 high, Type 2, NEMA 1 / NEMA 2 Coil Enclosure	304 Stainless Steel	101	Interpolated
	M-CU-NG-D036-2-XX-316			316 Stainless Steel	101 101	Interpolated
	CU-NG-D036-2-GU-M0D558-XX-304		4 high, Type 2, NEMA 1 / NEMA 2 Grid Enclosure	304 Stainless Steel		Interpolated
	CU-NG-D036-2-GU-M0D558-XX-316			316 Stainless Steel	101	Interpolated
	CU-NG-DO36-3R-MOD558-XX-304		4 high, Nema 3R / IP23, Type 3R Coil Enclosure	304 Stainless Steel	136	Interpolated
	CU-NG-DO36-3R-MOD558-XX-316 CU-NG-DO36-3R-GU-MOD558-XX-304			316 Stainless Steel 304 Stainless Steel	136 136	Interpolated
			4 high, Nema 3R / IP23, Type 3R Grid Enclosure			
	CU-NG-DO36-3R-GU-MOD558-XX-316	5		316 Stainless Steel	136	Interpolated
	M-CU-NG-D045-2-XX-304		5 high, Type 2, NEMA 1 / NEMA 2 Coil Enclosure	304 Stainless Steel	116	Interpolated
	M-CU-NG-D045-2-XX-316			316 Stainless Steel	116	Interpolated
	CU-NG-D045-2-GU-M0D558-XX-304		5 high, Type 2, NEMA 1 / NEMA 2 Grid Enclosure	304 Stainless Steel	116	Interpolated
	CU-NG-DO45-2-GU-MOD558-XX-316			316 Stainless Steel	116	Interpolated
	CU-NG-DO45-3R-GU-MOD558-XX-304		5 high, Nema 3R / IP23, Type 3R Grid Enclosure	304 Stainless Steel	159	Interpolated
	CU-NG-D045-3R-GU-M0D558-XX-316			316 Stainless Steel	159	Interpolated
	CU-NG-D045-3R-M0D558-XX-316		5 high, Nema 3R / IP23, Type 3R Coil Enclosure	316 Stainless Steel	159	Interpolated
	CU-NG-DO45-3R-MOD558-XX-304			304 Stainless Steel	159	UUT-10

Table 7 - Certified Subcomponents (continued)



DCL Project Number: 94797-2401

Product Line: Neutral Grounding Resistor and Dynamic Braking Resistor

Subcomponent Type	Model Number	Manufacturer	Descr	iption	Material	Weight [lb.]	Unit
Bushing	I21	Warco	5kV, 196 Ar	mp Constant	Porcelain	<1	UUT-10a,b
	20-4-010		600V, 10	0:5 Ratio	Carbon Steel, Copper	8	UUT-09
Current	20-4-XXX	GE	600V, 5:5 to	o 50:5 Ratio	Carbon Steel, Copper	8	Interpolated
Transformer	21-XXX	GL.	600V, Window Type, 1.25" V	Vindow, 50:5 to 1000:5 Ratio	Carbon Steel, Copper	10	Interpolated
	21-201		600V, Window Type,	1.25" Window, 200:5	Carbon Steel, Copper	10	UUT-10a,b
	BN4060604CH		Mounted on si	de of enclosure	Galvanneal, Painted	5	UUT-09
Junction Box	BN4060604CHSSA	Wiegman	Mounted on si	de of enclosure	316 Stainless Steel	5	Interpolated
	BN4060604CHSS		Mounted on si	de of enclosure	304 Stainless Steel	5	UUT-10a,b
Sensing Resistor	ER-600VC	Littelfuse	Max Volt	age 600 V	Polymer, Copper	<1	UUT-09, UUT-10a,b
Temperature Switch	TS36TXE21	Eska	Temperature S	witch, NC, 150°C	Aluminum	<1	UUT-11a,b
remperature Switch	HSW150	Senasys	Temperature S	witch, NC, 150°C	Aluminum, Epoxy	<1	UUT-09, UUT-10a,b
Subcomponent Type	Model Number	Manufacturer	Grid Width (mm)	Number of Grid Elements	Grid Thickness (Gauge)	Weight per Grid Element [lb.]	Unit
	GUX62C24LE24		117.5	4	24	1.0	UUT-11a,b
	GUX62X24XXXX	1	117.5	2 to 56	24	1.0	Interpolated
Resistor Banks, Grid Element Type	GUX62X20XXXX	Post Glover Resistors	117.5	2 to 56	20	1.3	Interpolated
Liement Type	GUX62X14XXXX	Resistors	117.5	2 to 56	14	2.5	Interpolated
	GUX62B14HE28		117.5	52	14	2.5	UUT-11a,b
Subcomponent Type	Model Number	Manufacturer	Number of Resistors ¹	Wire Material	Wire Thickness (Gauge)	Weight per Resistor Assembly [lb.]	Unit
	FDL120000-UR ²	/2 / fu /	1 and 2	Chromium Alloy	23	2.0	UUT-09, UUT-10a,b
Resistor Banks, Wirewound	FDLXXX	Post Glover Resistors	2 to 72	Chromium Alloy	13 to 23	2.0	Interpolated
WireWoulld	FDL3000-UR ³	Resistors	1 and 2	Chromium Alloy	13	2.0	UUT-09, UUT-10a,b
Deviates Devil	DECSW5-1280	41.6	C2CD_O	Chromium Alloy	28	3.5	UUT-10a,b
Resistor Banks, Smoothwound	DECSW5-XXXX	Post Glover Resistors	1 to 36	Chromium Alloy	13 to 28	3.5	Interpolated
oootwound	DECSW5-8D00	i.esistors	2 Chromium Alloy		13	3.5	UUT-10a,b
Deviates Devile	DEEWR5-R60A-12S	D. H. Clark	2	18 SR Stainless Steel	14	5.0	UUT-10a,b
Resistor Banks, Edgewound	DEEWR5-RXXA-XS	Post Glover Resistors	3 V • 1 to 28 nam	18 SR Stainless Steel	11 to 14	5.0	Interpolated
		110331013	22	18 SR Stainless Steel	11	5.0	

Note:

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^{1.} Total number of resistors tested in UUT-10a,b is 32.

^{2.} There was one FDL120000-UR Resistor tested in UUT-09 and two tested in UUT-10a,b. 10/1/2025

^{3.} There was one FDL3000-UR Resistor tested in UUT-09 and two tested in UUT-10a,b.

Table 8 - Tested Units



DCL Project Number: 94797-2401

Manufacturer: Post Glover Resistors, Inc.

Product Line: Neutral Grounding Resistor and Dynamic Braking Resistor

Product Construction Summary: Mill Galvanized Carbon Steel or 304 Stainless Steel Enclosure, NEMA 2 or NEMA 3R/IP23 or NEMA 1

Mounting: Rigid Base Mounted

Certified Seismic Levels: Sds 2.26 g at z/h = 1.0 and z/h = 0.0

Factors for Force Amplification and Structure Ductility Reduction: H₁= 3.5 at z/h=1.0; 1.0 at z/h=0 and R_µ = 1.3 at z/h=1.0; 1.0 at z/h=0

			Dimensions [in.]		Weight	
Model Number	Description	Length	Width	Height	[lb.] ¹	Unit ¹
M-NGD27A2D3-118021K-UUT09	Resistor, Neutral Grounding, 277V, 2.3A, 10SEC/760°C	20.0	30.5	15.3	82.6	UUT-09
M-NGD60A0D2-145AA5M-UUT10	Resistor, Neutral Grounding, 600V, 0.2A, 10SEC/760°C	21.5	30.6	36.0	304.0 / 299.8	UUT-10a / UUT-10b
M-NGD60A146-1G50A00-UUT11	Resistor, Neutral Grounding, 600V, 146A, 10SEC/760°C	21.5	30.6	36.0	313.4 / 309.2	UUT-11a / UUT-11b

Note

1. UUT-10a and UUT-11a were tested with an optional interior bracket. UUT-10b and UUT-11b were tested without an optional interior bracket. The first weight is the unit with bracket, the second weight is the unit without bracket.



UUT-09

((O)) DCL

DCL Test Report: 94797-2401a **Test Dates:** 7/28/25 – 7/31/25

Manufacturer: Post Glover Resistors, Inc.

Product Line: Neutral Grounding Resistor and Dynamic Braking Resistor

Model Number: M-NGD27A2D3-118021K-UUT09

Product Construction Summary: NEMA 2, Type 2 Mill Galvanized Carbon Steel Enclosure

Options / Component Summary:

Tested unit contained a current transformer, junction box, temperature switch and wirewound resistor banks.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained before and after the AC 156 test.

UUT Properties Lowest Natural Frequency (Hz) Dimensions (inches) Operating Weight (lb) Front-Back Side-Side Vertical Width Height Depth 82.6 20.0 >33.3 >33.3 >33.3 30.5 15.3

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	H _f	Rμ	lp lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES AC156	2.26	1.0	3.5	1.3	1.5	3.62	2.43	N/A	N/A
		2.26	0.0	201.008	$60^{1.0}$		N/A	N/A	1.51	0.60

Unit Mounting Description:

UUT-09 was base mounted to the DCL shake table interface plate using (4) 3/8" Grade 8 bolts and manufacturer-provided flat washers. The 3/8" bolts on UUT-09 were spaced 27" apart in both the front-back direction measured on-center and 14" apart in both the side-side direction measured on-center.



Overall picture of UUT-09.

UUT-10a

(()) DCL

DCL Test Report: 94797-2401a **Test Dates:** 7/28/25 – 7/31/25

Manufacturer: Post Glover Resistors, Inc.

Product Line: Neutral Grounding Resistor and Dynamic Braking Resistor

Model Number: M-NGD60A0D2-145AA5M-UUT10

Product Construction Summary: NEMA 3R / IP23, Type 3R, 304 Stainless Steel Enclosure

Options / Component Summary:

Tested unit contained a current transformer, junction box, temperature switch, wirewound resistor banks, Smoothwound resistor banks and Edgewound resistor banks.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained before and after the AC 156 test.

				UUT P	Properties							
Onovoting	\4/o;aht /lh\	Dir	nensions (inc	hes)	Lowest Natural Frequency (Hz)							
Operating Weight (lb)		Depth	Width	Height	Front-Back		Side-Side		Vertical			
304.0		21.5	30.6	36.0	7.0		12.0		23.5			
Seismic Test Parameters												
Building Code	Test Criteria	Sds (g)	z/h	H _f	Rμ	lp lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2025	ICC-ES AC156	2.26	1.0	3.5	1.3	1.5	3.62	2.43	N/A	N/A		
		2 26	0.0	100	0.01.0		N/A	N/A	1 51	0.60		

Unit Mounting Description:

UUT-10a was base mounted to the DCL shake table interface plate using (4) 3/8" Grade 8 bolts and manufacturer-provided flat washers. The 3/8" bolts on UUT-10a were spaced 14" apart in both the front-back direction measured on-center and 27" apart in both the side-side direction measured on-center.

Optional Bracket: UUT-10a was tested with two optional brackets that were channel shaped and were installed in the interior of the enclosure. The brackets were made of 16 gauge stainless steel for UUT-10a. The brackets were 4" wide, 28" for the long side and 2" for the short side. The brackets were installed in the enclosure using (4) %"-20 x %" ASTM F593 18-8 stainless steel round head carriage bolt, nuts, washers and lock washers per bracket. The bolts were spaced 1" apart in the vertical direction measured on-center and 2 ½" from the top of the bracket.



Overall picture of UUT-10a.

UUT-10b



DCL Test Report: 94797-2401a **Test Dates:** 7/28/25 - 7/31/25

Manufacturer: Post Glover Resistors, Inc.

Product Line: Neutral Grounding Resistor and Dynamic Braking Resistor

Model Number: M-NGD60A0D2-145AA5M-UUT10

Product Construction Summary: NEMA 3R / IP23, Type 3R, 304 Stainless Steel Enclosure

Options / Component Summary:

Tested unit contained a current transformer, junction box, temperature switch, wirewound resistor banks, Smoothwound resistor banks and Edgewound resistor banks.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained before and after the AC 156 test.

				UUT P	roperties							
Operating Weight (lb)		Dimensions (inches)			Lowest Natural Frequency (Hz)							
		Depth	Width	Height	Front-Back		Side-Side		Vertical			
299.8		21.5	30.6	36.0	5.8		11.3		21.8			
	Seismic Test Parameters											
Building Code	Test Criteria	Sds (g)	z/h	H _f	Rμ	Rµ Ip		Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2025	ICC-ES AC156	2.26	1.0	3.5	1.3		3.62	2.43	N/A	N/A		
		2.26	0.0	1.0	1.0	1.5	N/A	N/A	1.51	0.60		
Unit Mounting D	Description:	2	O(5P-08	69	7						

Unit Mounting Description:

UUT-10b was base mounted to the DCL shake table interface plate using (4) 3/8" Grade 8 bolts and manufacturer-provided flat washers. The 3/8" bolts on UUT-10b were spaced 14" apart in both the front-back direction measured on-center and 27" apart in both the side-side direction measured ivionammad Karim

Optional Bracket: UUT-10b was tested without two optional brackets.



Overall picture of UUT-10b.

UUT-11b



DCL Test Report: 94797-2401a **Test Dates:** 7/28/25 – 7/31/25

Manufacturer: Post Glover Resistors, Inc.

Product Line: Neutral Grounding Resistor and Dynamic Braking Resistor

Model Number: M-NGD60A146-1G50A00-UUT11

Product Construction Summary: NEMA 3R / IP23, Type 3R, Mill Galvanized Carbon Steel Enclosure

Options / Component Summary:

Tested unit contained a temperature switch and grid element type resistor banks.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained before and after the AC 156 test.

				UUT P	roperties							
Operating	14/oight /lh\	Dimensions (inches)			Lowest Natural Frequency (Hz)							
Operating Weight (lb)		Depth	Width	Height	Front-Back		Side-Side		Vertical			
309.2		21.5	30.6	36.0	8.3		9.5		25.0			
	Seismic Test Parameters											
Building Code	Test Criteria	Sds (g)	z/h	H _f	Rμ	Rμ lp		Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2025	ICC-ES AC156	2.26	1.0	3.5	1.3	1.5	3.62	2.43	N/A	N/A		
		2.26	0.0	1.0	1.0		N/A	N/A	1.51	0.60		

Unit Mounting Description:

UUT-11b was base mounted to the DCL shake table interface plate using (4) 3/8" Grade 8 bolts and manufacturer-provided flat washers. The 3/8" bolts on UUT-11b were spaced 14" apart in both the front-back direction measured on-center and 27" apart in both the side-side direction measured on-center.

Optional Bracket: UUT-11b was tested without two optional brackets.



Overall picture of UUT-11b.

UUT-10a



DCL Test Report: 94797-2401a **Test Dates:** 7/28/25 – 7/31/25

Manufacturer: Post Glover Resistors, Inc.

Product Line: Neutral Grounding Resistor and Dynamic Braking Resistor

Model Number: M-NGD60A0D2-145AA5J-UUT10

Product Construction Summary: NEMA 3R / IP23, Type 3R, 304 Stainless Steel Enclosure

Options / Component Summary:

Tested unit contained a current transformer, junction box, temperature switch, wirewound resistor banks, Smoothwound resistor banks and Edgewound resistor banks.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained before and after the AC 156 test.

				UUT P	Properties							
Onovoting	Moight (lh)	Dir	nensions (inc	hes)	Lowest Natural Frequency (Hz)							
Operating Weight (lb)		Depth	Width	Height	Front-Back		Side-Side		Vertical			
304.0		21.5	30.6	36.0	7.0		12.0		23.5			
				Seismic Te	st Parametei	's						
Building Code	Test Criteria	Sds (g)	z/h	H _f	Rμ	lp lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2025	ICC-ES AC156	2.26	1.0	3.5	1.3	1.5	3.62	2.43	N/A	N/A		
		2.26	0.0	1.0	0.01.0		N/A	N/A	1.51	0.60		

Unit Mounting Description:

UUT-10a was base mounted to the DCL shake table interface plate using (4) 3/8" Grade 8 bolts and manufacturer-provided flat washers. The 3/8" bolts on UUT-10a were spaced 14" apart in both the front-back direction measured on-center and 27" apart in both the side-side direction measured on-center.

Optional Bracket: UUT-10a was tested with two optional brackets that were channel shaped and were installed in the interior of the enclosure. The brackets were made of 16 gauge stainless steel for UUT-10a. The brackets were 4" wide, 28" for the long side and 2" for the short side. The brackets were installed in the enclosure using (4) %"-20 x %" ASTM F593 18-8 stainless steel round head carriage bolt, nuts, washers and lock washers per bracket. The bolts were spaced 1" apart in the vertical direction measured on-center and 2 ½" from the top of the bracket.



Overall picture of UUT-10a.