APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE USE ONLY								
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP - 0514 - 10								
OSHPD Special Seismic Certification Preapproval (OSP)									
Type: 🛛 New 🗌 Renewal									
Manufacturer Information									
Manufacturer: Kohler Power Systems									
Manufacturer's Technical Representative: Andy Miller									
Mailing Address: 444 Highland Drive, Kohler, WI 53044									
Telephone: (920) 457-4441 Email: andrew	Telephone: (920) 457-4441 Email: <u>andrew.miller@kohler.com</u>								
Product Information									
Product Name: Kohler Transfer Switches									
Product Type: Standard, Closed, and Programmed Transition Automatic Transfer Switches									
Product Model Number: See Attached Product Matrix (List all unique product identification numbers and/or part numbers) General Description: Cabinets are powder-coated carbon steel, NEM switches, and accessories. Seismic enhancements made to test units a anomalies observed during the tests shall be incorporated into the product Matrix Output Description: See Attached Product Matrix Cabinets are powder-coated carbon steel, NEM switches, and accessories. Seismic enhancements made to test units a anomalies observed during the tests shall be incorporated into the product Matrix									
Mounting Description: Rigid floor mount and Rigid wall mount as speci	ified in attachments.								
Applicant Information									
Applicant Company Name: The VMC Group									
Contact Person: John P. Giuliano, PE									
Mailing Address: 113 Main Street, Bloomingdale, NJ 07403									
Telephone: (973) 838-1780 Email: john.giu	uliano@thevmcgroup.com								
I hereby agree to reimburse the Office of Statewide Health Place accordance with the California Administrative Code, 2016. Signature of Applicant: Title: President Company Name: The VM	anning and Development review fees in Date: 4/13/17								
	OCUED								
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	ALIAMAM OSHPD								

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

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Camornia License	ed Structural Engineer Responsible	ie for th	ie Engineering and Tes	st Report(s)
Company Name: _	The VMC Group			
Name: Mr. Ken Ta	rlow	Calif	fornia License Number:	SE2851
Mailing Address:1	13 Main Street, Bloomingdale, NJ 0740	3		
Telephone: (973)	838-1780	Email:	ken.tarlow@thevmcgroup	.com
Supports and Atta	achments Preapproval			
(Separate applica	ttachments are preapproved under OPN ation for OSHPD Preapproval of Manufacture attachments are not preapproved		cation (OPM) of Supports and	d attachments is required)
Certification Meth	nod			
✓ Testing in acco✓ Other (Please §	rdance with: ICC-ES AC156 Specify):			
Testing Laborato	ry			
Company Name: _	Wyle Laboratories			
Contact Name:	Don Smith			
Mailing Address: _	7800 Highway 20 West, P.O. Box 07777	77, Hunts	sville, Alabama 35807-777	7
Telephone: (256)	837-4411	Email:	don.smith@wyle.com	
· · · -	Dynamic Certification Laboratories			
_	Kelly Laplace, Project Manager			
Mailing Address:	1315 Greg Street, Suite 109, Sparks, N		kally@abakataat aam	
Telephone: (775)	358-5085	Email:	kelly@shaketest.com	
Company Name: _	PEER, UC Berkley			
Contact Name:	Clement Barthes			
Mailing Address: _	1302 South 46th Street Building 420, Ric	chmond,	CA 94084	
Telephone: (510)	665-3409	Email:	clementbarthes@berkley.	edu OCIIBB
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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) = 1.50								
S _{DS} (Design spectral response acceleration at short period, g) =								
a _p (In-structure equipment or component amplification factor) =								
R _p (Equipment or component response modification factor) =6.0								
Ω_0 (System overstrength factor) = 2.0								
I _p (Importance factor) = 1.5								
z/h (Height factor ratio) = 1								
Equipment or Component Natural Frequencies (Hz) = See Attachment								
Overall dimensions and weight (or range thereof) = See Attachment								
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) =								
Ω_0 (System overstrength factor) =								
C _d (Deflection amplification factor) =								
I_p (Importance factor) = 1.5								
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):								
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022								
1// 1/00								
Signature: Date: January 8, 2018								
Print Name: Timothy J. Piland Title: SSE								
Special Seismic Certification Valid Up to : $S_{DS}(g) = 2.00$ $z/h = 1$								
Condition of Approval (if applicable):								

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



OSHPD

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Table 1 - KC Series Automatic Transfer Switches
Standard Transition: KCS
Closed Transition: KCC Programmed Transition: KCP

olanuaru III	ansition: KCS			Closed ITa	nsition: KCC				Programmed I	iansilion. No	Г				
Model	Manufacturer	Amps	Voltage	Switch	Construction	Max	Dimensions - [in]	Type 1	Weight - Type 1	Max [Dimensions - Ty [in]	/pe 3R	Weight -	UUT	Installation
Wodei	Manufacturer	Allips	voltage	Type	Construction	Height	Width	Depth	[lbs]	Height	Width	Depth	[lbs]	001	mstallation
		30	480	2-Pole		31.1	18.0	12.4	62	31.1	18.0	12.4 ⁽¹⁾	67	UUT 1	
KCS	Kohler			2-Pole		31.1	18.0	12.4	62	31.1	18.0	12.4 ⁽¹⁾	62		
NOS	Koniei	30-200	208-600	3-Pole		31.1	18.0	12.4	65	31.1	18.0	12.4 ⁽¹⁾	65		
				4-Pole	Carbon Steel	31.1	18.0	12.4	68	31.1	18.0	12.4 ⁽¹⁾	68	Interpolated	Rigid Wall
		230		2-Pole	Welded	48.1	22.0	14.3	115	48.1	22.0	14.3 ⁽¹⁾	115	interpolated	Trigia Trail
KCS	Kohler	(208-480V)	208-480	3-Pole		48.1	22.0	14.3	123	48.1	22.0	14.3 ⁽¹⁾	123		
		` ′		4-Pole		48.1	22.0	14.3	131	48.1	22.0	14.3 ⁽¹⁾	131		
		230	480	4-Pole		48.1	22.0	14.3	123	48.1	22.0	14.3 ⁽¹⁾	123	UUT 2	
		600	480	2-Pole		67.0	24.0	20.2	265	67.0	24.0	20.2 ⁽¹⁾	265	UUT 3	
KCS	Kohler	230	600	2-Pole 3-Pole		67.0 67.0	24.0 24.0	20.2	395 403	67.0 67.0	24.0 24.0	20.2 ⁽¹⁾ 20.2 ⁽¹⁾	395 403		
		(600V)	600	3-Pole 4-Pole		67.0	24.0	20.2	403	67.0	24.0	20.2 ⁽¹⁾	414		
				2-Pole		67.0	24.0	20.2	395	67.0	24.0	20.2 ⁽¹⁾	395		
KCS	Kohler	260-600	208-600	3-Pole		67.0	24.0	20.2	403	67.0	24.0	20.2 ⁽¹⁾	403		
	11011101	200 000	200 000	4-Pole	Carbon Steel	67.0	24.0	20.2	414	67.0	24.0	20.2	414	1	1
			208-600	2-Pole	Welded	67.0	24.0	20.2	395	67.0	24.0	20.2 ⁽¹⁾	395	Interpolated	
KCP KCC	Kohler	150-600		3-Pole		67.0	24.0	20.2	403	67.0	24.0	20.2 ⁽¹⁾	403		
NCC				4-Pole		67.0	24.0	20.2	414	67.0	24.0	20.2 ⁽¹⁾	414		,
KCS				2-Pole		76.1	34.0	20.3	485	76.1	34.0	20.3 ⁽¹⁾	485		
KCP	Kohler	800-1000	208-600	3-Pole		76.1	34.0	20.3	510	76.1	34.0	20.3 ⁽¹⁾	510		
KCC	Ronier			4-Pole		76.1	34.0	20.3	525	76.1	34.0	20.3 ⁽¹⁾	525		
KCS		1000	480	4-Pole		76.1	34.0	20.3	550	76.1	34.0	20.3 ⁽¹⁾	550	UUT 4	
KCP	Kohler	1200	480	3-Pole		90.0	37.9	27.1	770	90.0	37.0	25.2 ⁽²⁾	770	UUT 5	Rigid Base
KCS KCP	Kohler	1200	208-600	3-Pole		90.0	37.9	27.1	1,020	90.0	37.0	25.2 ⁽²⁾	1,020		
KCC				4-Pole		90.0	37.9	27.1	1,070	90.0	37.0	25.2 ⁽²⁾	1,070		
KCS KCP	Kohler	1600-2000	208-600	3-Pole		90.0	37.9	48.0	1,175	90.0	37.0	50.4 ⁽²⁾	1,175		
KCC	Koniei	1000-2000	200-000	4-Pole		90.0	37.9	48.0	1,225	90.0	37.0	50.4 ⁽²⁾	1,225	Interpolated	
KCS KCP	Kohler	1600-2000F	200 600	3-Pole	Carbon Steel	90.0	37.9	27.1	1,175	90.0	37.0	31.2 ⁽²⁾	1,175	interpolated	
KCC	Koniei	1000-2000F	206-000	4-Pole	Assembled	90.0	37.9	27.1	1,225	90.0	37.0	31.2 ⁽²⁾	1,225		
KCS	Kablas	2000 2000	000 000	3-Pole		90.0	37.9	60.0	1,620	90.0	37.0	62.4 ⁽²⁾	1,620		
KCP KCC	Kohler	2600-3000	208-600	4-Pole		90.0	37.9	60.0	1,685	90.0	37.0	62.4 ⁽²⁾	1,685		
KCP	Kohler	3000	480	4-Pole		90.0	37.9	60.0	1,475	90.0	37.0	62.4 ⁽²⁾	1,475	UUT 6	
KCS	Kahlar	4000	200 600	3-Pole		91.0	60.0	72.3	2,149	99.6	63.2	90.9	3,165	LILIT 40	
KCP KCC	Kohler	4000	208-600	4-Pole		91.0	60.0	72.3	2,328	99.6	63.2	90.9	3,357	UUT 10	

Notes for KC Series

¹⁾ Nema 3R logic covers extend 2.1"

²⁾ Vents extend 3"

Table 2 - KB Series Bypass Automatic Transfer Switches Standard Transition: KBS Closed Transition: KBC

Programmed Transition: KBP

Model	Manufacturer	Amps	Voltage	Switch	Construction	Max I	Dimensions - [in]				imensions - Ty [in]	pe 3R	Weight - Type 3R	UUT	Installation
Model	Manufacturer	Allipa	Voltage	Type	Construction	Height	Width	Depth	[lbs]	Height	Width	Depth	[lbs]	001	mstanation
KBS				2-Pole		85.1	34.0	28.0	950	95.2	49.1	36.6	1,560		
KBP	Kohler	150-260	208-600	3-Pole		85.1	34.0	28.0	950	95.2	49.1	36.6	1,560		
KBC				4-Pole		85.1	34.0	28.0	950	95.2	49.1	36.6	1,560	Extrapolated	
KBS	3P Kohler 150-600 2			2-Pole		85.1	46.0	28.0	950	95.2	49.1	36.6	1,560		
KBP		Kohler 150-600	208-600	3-Pole		85.1	46.0	28.0	950	95.2	49.1	36.6	1,560		
KBC			4-Pole		85.1	46.0	28.0	950	95.2	49.1	36.6	1,560	UUT 7		
KBS KBP	Kohler	800 F	208-600	3-Pole		91.0	38.0	32.0	1,400	N/A ⁽¹⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	N/A ⁽¹⁾		
KBC	Koniei		0001	200-000	4-Pole	Carbon Steel	91.0	38.0	32.0	1,400	N/A ⁽¹⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	
KBS KBP	Kohler	800-1200S	208 600	3-Pole	Assembled	91.0	38.0	48.0	1,560	95.4	41.0	62.0	2,200		Nigiu base
KBC	Koulet	800-12008	208-000	4-Pole		91.0	38.0	48.0	1,560	95.4	41.0	62.0	2,200		
KBS KBP	Kohler	1600-2000	208 600	3-Pole		91.0	38.0	60.0	2,360	95.4	41.0	74.0	2,675	Interpolated	
KBC	Koniei	1000-2000	200-000	4-Pole		91.0	38.0	60.0	2,540	95.4	41.0	74.0	2,790		
KBS KBP	Kohler	2600-3000	200 600	3-Pole		91.0	38.0	72.0	2,730	95.4	40.0	86.0	3,270		
KBC	Konlei	2000-3000	200-000	4-Pole		91.0	38.0	72.0	3,360	95.4	40.0	86.0	3,558		
KBS KBP	Kohler	ler 4000	208-600	3-Pole		91.0	60.0	96.0	4,650	99.6	63.0	114.9	6,350		
KBC	Konlei	4000	200-000	4-Pole		91.0	60.0	96.0	5,148	99.6	63.0	114.9	6,500	UUT 9	

Notes for KB Series

¹⁾ N/A signifies that the product is not offered

Table 3 -Certified Subcomponents: Enclosures (KC & KB Series)

		UUT	Installation					
Type	Amp Range	Construction	Material	Thickness	MFR			
NEMA 1	30					1		
NEWA I	30-230	Welded		See Note 1	Kohler	Interpolated	Rigid Wall	
NEMA 3R	30-230	Weided		See Note 1	Koriiei	interpolated	Ngiu waii	
NEWA 31	230					2		
	260-600	Welded			Kohler	Extrapolated		
	600			12 gauge		3, 7		
	600-1000					Intepolated		
NEMA 1	1200		Carbon	12 gauge	Koriiei	5		
	1200-3000	Assembled	Steel			Interpolated		
	3000	Assembled				6	Rigid Base	
	4000			per NEC/UL	ASCO	10	rtigia base	
	260-1000 Welded		40	17.11	Extrapolated			
NEMA 3R	1000		12 gaug	12 gauge	Kohler	4		
	1200-3000	Assembled				Interpolated		
	4000	Assembled		per NEC/UL	ASCO	9		

Notes for Enclosures

Table 4 - Certified Subcomponents: Mechanisms

		Material	UUT	Installation			
Amps	Volts	Poles	Transition Type	MFR			
30	208-600	2, 3, 4	standard	standard ASCO		1	
70	208-600	2, 3, 4	standard	standard ASCO			
104	208-600	2, 3, 4	standard	ASCO			
150	208-600	2, 3, 4	standard, programmed, closed ASCO		Interpolated	Rigid Wall	
200	208-600	2, 3, 4	standard	ASCO			
225	208-600	2, 3, 4	programmed	ASCO			
230	208-480	2, 3, 4	standard	ASCO		2	
230	600	2, 3, 4	standard	ASCO			
260	208-600	2, 3, 4	standard, programmed, closed	ASCO	Carbon Steel	Extrapolated	
400	208-600	2, 3, 4	standard, programmed, closed	ASCO			
600	208-600	2, 3, 4	standard, programmed, closed	ASCO		3, 7	
800	208-600	2, 3, 4	standard, programmed, closed	ASCO		Interpolated	
1000	208-600	3, 4	standard, programmed, closed	ASCO		4	Digid Dage
1200	208-600	3, 4	standard, programmed, closed	ASCO		5	Rigid Base
1600	208-600	3, 4	standard, programmed, closed	ASCO			
2000	208-600	3, 4	standard, programmed, closed ASCO			Interpolated	
2600	208-600	3, 4	standard, programmed ASCO				
3000	208-600	3, 4	standard, programmed, closed	ASCO		6	
4000	208-600	3, 4	standard, programmed, closed	ASCO		9, 10	

¹⁾ Thickness varies from 16ga to 12ga based on amperage and NEC/UL code

Table 5 - Certified Subcomponents: Controllers

	Material	UUT	Installation		
Model	Transition Type	MFR	Waterial	001	ilistaliation
MPAC 1500	Standard			1,2	Rigid Wall
MPAC 1500 w/ Daughter Board	Programmed & Closed	Kohler	Plastic	3, 4, 5, 6	Rigid Base
MPAC 1200	Standard	Konier	Konier Plastic		Rigid Wall
MPAC 1200 w/ Daughter Board	Programmed & Closed			Extrapolated	Rigid Base

Same as 1500 Standard (except for no Ethernet board) Same as 1500 Prog/Closed (except for no Ethernet board)

Table 6 - Certified Subcomponents: Accessories

Kit	Description	Material	Manufacturer	Weight (lb)	UUT
I/O Mounting Kit	Bracket and cover to mount the following 4 PCBs	carbon steel, plastic, copper	Kohler	2	UUT 1
External Battery Supply Module	PCB that provides connection of 12VDC to power the controller for	plastic, copper	Kohler	0.5	UUT 1
Input/Output Module	PCB that provides 2 input/6 outputs	plastic, copper	Kohler	0.5	UUT 1
High-Power Input/Output Module	PCB that provides 2 input/3 high power outputs	plastic, copper	Kohler	0.75	UUT 1
Controller Disconnect Switch	Switch that interrupts the normal sensing wires from the controller for service	carbon steel, plastic, copper	Kohler/ABB	5	UUT 2
Ethernet Module	PCB that provides an Ethernet communications plug	plastic, copper	Kohler	0.1	UUT 1, UU UUT 3, UU UUT 5, UU
Current Sensing Kit	Current Transformers and terminal block to allow the controller to display current	plastic, copper	WICC	varies by CT size	UUT 3, UU
Line-to-Neutral Monitoring Kit	Wire leads that bring the neutral sensing signals back to the controller	copper	Kohler	0.25	UUT 2
Padlockable User Interface Cover	Hinged sheet metal cover over the controller (optional on NEMA 1, standard on 3R)	carbon steel	Kohler	3	UUT 2, UU
Supervised Transfer Control Switch	Switch that allows the user to initiate transfers (requires Alarm Module)	plastic, copper	Schneider	1	UUT 1
Digital Meter Kit	Module that displays higher power functions, threshold alarms, and outputs	plastic, copper	Schneider	15	UUT 3, UU
Heater, Anti-Condensation	Heater, Anti-Condensation Strip heater and hygrostat control		Tempco, Stego	5	UUT 5
Load Shed Kit	Forced transfer to off (programmed transition switches only)	carbon steel, plastic, copper	Schneider	25	UUT 6
Surge Protective Device (SPD)	Transient voltage surge suppression module	carbon steel, plastic, copper	ABB	8	UUT 5



UUT-01

VMA-46550-01E

Model Line	Model Number	Manufacturer
кс	KCS (480V, 30A)	Kohler

Product Construction Summary

Standard Transition ATS with Carbon Steel Enclosure; 30A, 480V; NEMA 1 rating

Options / Subcomponent Summary

Enclosure: Kohler, Mechanism: ASCO; Controller: Kohler, Accessories: Kohler

UUT Properties								
Weight		Dimensi	ons [in]			Lowes	t Nat. Freq	. [Hz]
[lbs]	Length	Wi	Width Height		F-B	S-S	٧	
67	12	1	8	31		N/A	N/A	N/A
	UUT H	ighest Pass	sed Seismi	c Run Infor	mation			
Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.67	0.67

Test Mounting Details

UUT 1 was bolted directly to the shake table wall mount fixture using (4) 3/8" Grade 8 bolts.

UUT-01





UUT-02

VMA-46550-01E

Model Line	Model Number	Manufacturer
кс	KCS (480V, 230A)	Kohler

Product Construction Summary

Standard Transition ATS with Carbon Steel Enclosure; 230A, 480V; NEMA 3R rating

Options / Subcomponent Summary

Enclosure: Kohler, Mechanism: ASCO; Controller: Kohler, Accessories: Kohler

UUT Properties										
Weight		Dimensi	ons [in]			Lowes	t Nat. Freq	. [Hz]		
[lbs]	Length	Wie	Width Height				S-S	٧		
123	14	2	22 48			N/A	N/A	N/A		
	UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.67	0.67		

Test Mounting Details

UUT 2 was bolted directly to the shaek table wall mount fixture using (4) 3/8" Grade 8 bolts.

UUT-02





UUT-03

VMA-46550-01E

Model Line	Model Number	Manufacturer
кс	KCS (480V, 600A)	Kohler

Product Construction Summary

Standard Transition ATS with Carbon Steel Enclosure; 600A, 480V; NEMA 1 rating

Options / Subcomponent Summary

Enclosure: Kohler, Mechanism: ASCO; Controller: Kohler, Accessories: Kohler

UUT Properties											
Weight	Weight Dimensions [in] Lowest Nat. Freq. [Hz]										
[lbs]	Length	Wie	Width Height			F-B	S-S	٧			
265	20	24		67		5.8	7.8	14.0			
	UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)			
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.67	0.67			

Test Mounting Details

UUT 3 was bolted directly to the shake table steel plate fixture using (4) 5/8" Grade 8 bolts.

UUT-03



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UUT-04

VMA-46550-01E

Model Line	Model Number	Manufacturer
кс	KCS (480V, 1000A)	Kohler

Product Construction Summary

Standard Transition ATS with Carbon Steel Enclosure; 1000A, 480V; NEMA 3R rating

Options / Subcomponent Summary

Enclosure: Kohler, Mechanism: ASCO; Controller: Kohler

UUT Properties										
Weight		Dimensions [in] Lowest Nat. Freq. [Hz]								
[lbs]	Length	Width Height				F-B	S-S	V		
550	20	34		76		10.5	7.8	23.5		
	UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.67	0.67		

Test Mounting Details

UUT 4 was bolted directly to the shake table steel plate fixutre using (4) 5/8" Grade 8 bolts.

UUT-04





UUT-05

VMA-46550-01E

Model Line	Model Number	Manufacturer
кс	KCP (480V, 1200A)	Kohler

Product Construction Summary

Programmed Transition ATS with Carbon Steel Enclosure; 1200A, 480V; NEMA 1 rating

Options / Subcomponent Summary

Enclosure: Kohler, Mechanism: ASCO; Controller: Kohler

UUT Properties											
Weight	Dimensions [in] Lowest Nat. Freq. [Hz]										
[lbs]	Length	Wie	Width Height			F-B	S-S	٧			
770	27	38		90		9.5	11.0	19.8			
	UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)			
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.67	0.67			

Test Mounting Details

UUT 5 was bolted directly to the shake table steel plate fixture using (4) 3/4" Grade 8 bolts.

UUT-05





UUT-06

VMA-46550-01E

Model Line	Model Number	Manufacturer
кс	KCP (480V, 3000A)	Kohler

Product Construction Summary

Programmed Transition ATS with Carbon Steel Enclosure; 3000A, 480V; NEMA 1 rating

Options / Subcomponent Summary

Enclosure: Kohler, Mechanism: ASCO; Controller: Kohler

UUT Properties											
Weight	Weight Dimensions [in] Lowest Nat. Freq. [Hz]										
[lbs]	Length	Wie	Width Height			F-B	S-S	٧			
1,475	60	38.0		90	0.0	9.5	12.0	21.0			
	UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)			
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.67	0.67			

Test Mounting Details

UUT 6 was bolted directly to the shake table steel fixture using (4) 3/4" Grade 8 bolts.

UUT-06





UUT-07

58168R10-2; UUT-10

Model Line	Model Number	Manufacturer
Transfer Switches	J7ACTBB30600N5XM	ASCO

Product Construction Summary

Carbon steel enclosure with powder-coated finish; 600A, 480V; NEMA 3R rating

Options / Subcomponent Summary

Enclosure: ASCO, Controller: ASCO

UUT Properties											
Weight		Dimensions [in] Lowest Nat. Freq. [Hz]									
[lbs]	Length	Wic	Width Height				S-S	V			
1,726	37	4	9	95		8.6	9.5	>33.3			
	UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	I P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)			
CBC 2016	ICC-ES AC156	2.50	1.00	1.50	4.00	3.00	1.67	0.67			

Test Mounting Details

UUT 7 was mounted directly to the test fixture using (8) 1/2" Grade 5 bolts.

UUT-07





UUT-09

58791R11; UUT-1

Model Line	Model Number	Manufacturer
Transfer Switches	G7ASLBB34000N5XM	ASCO

Product Construction Summary

Carbon steel enclosure with powder-coated finish; 4000A, 480V; NEMA 3R rating

Options / Subcomponent Summary

Enclosure: ASCO, Mechanism: ASCO

UUT Properties											
Weight [lbs]	Dimensions [in]					Lowest Nat. Freq. [Hz]					
	Length	Width		Height		F-B	S-S	٧			
7,250	115	63.0		100.0		7.5	4.2	>33.3			
UUT Highest Passed Seismic Run Information											
Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)			
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.33	0.53			

Test Mounting Details

UUT 9 was bolted directly to the test fixture using (16) 1/2" Grade 5 bolts.

UUT-09





UUT-10

57674R10-1; UUT-1

Model Line	Model Number	Manufacturer		
Transfer Switches	G7ADTBB34000R50C	ASCO		

Product Construction Summary

Carbon steel enclosure with powder-coated finish; 4000A, 480V; NEMA 1 rating

Options / Subcomponent Summary

Enclosure: ASCO, Controller: ASCO

UUT Properties										
Weight [lbs]	Dimensions [in]					Lowest Nat. Freq. [Hz]				
	Length	Wie	dth	Height		F-B	S-S	٧		
6,435	96	63.0		91.0		9.8	6.1	24.0		
UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2016	ICC-ES AC156	2.39	1.00	1.50	3.82	2.87	1.59	0.64		

Test Mounting Details

UUT 10 was bolted directly to the test fixture using (17) 1/2" Grade 5 bolts.

UUT-10

