APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0032

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: ASCO Power Technologies, LP

Manufacturer's Technical Representative: Robert Debrody, P.E.

Mailing Address: 160 Park Avenue, Florham Park, NJ 07932

Telephone: (973) 966-2652 Email: Robert.debrody@ascopower.com

Product Information

Product Name: Transfer Switches

Product Type: Electrical Power Switch

Product Model Number: See Attached Approved Product Listing
(List all unique product identification numbers and/or part numbers)

General Description: Cabinets are powder-coated carbon steel or stainless steel, NEMA 1, 3R, 3RX, 12, or 4X rating (304 stainless steel used on select 3R bases). Units contain controllers, switches, bypasses, circuit breakers, and accessories. Seismic enhancements made to the test units and modifications required to address the anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Rigid floor mounted, Rigid wall mounted

Applicant Information

Applicant Company Name: The VMC Group

Contact Person: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780 Email: john.giuliano@thevmcgroup.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: Date: 12/27/19

Title: President Company Name: The VMC Group

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

Company Name: The VMC Group

Name: Mr. Kenneth Tarlow California License Number: SE-2851

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780 Email: Ken.Tarlow@thevmcgroup.com

Supports and Attachments Preapproval

☐ Supports and attachments are preapproved under OPM-
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)

☒ Supports and attachments are not preapproved

Certification Method

☒ Testing in accordance with: ☒ ICC-ES AC156

☐ Other (Please Specify):

Testing Laboratory

Company Name: Dynamic Certification Laboratories, LLC

Contact Name: Kelly Laplace, Quality Manager

Mailing Address: 1315 Greg Street, Suite 109, Sparks, NV 89431

Telephone: (775) 358-5085 Email: kelly@shaketest.com

Testing Laboratory

Company Name: Wyle Laboratories

Contact Name: Don Smith

Mailing Address: 7800 Highway 20 West, P.O. Box 077777, Huntsville, Alabama 35807-7777

Telephone: (256) 837-4411 Email: don.smith@wyle.com

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = 1.88

S_{DS} (Design spectral response acceleration at short period, g) = 2.50

a_p (In-structure equipment or component amplification factor) = 2.5

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 Attachments

Overall dimensions and weight (or range thereof) = See Attachments

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 February 15, 2028

Signature: Date: February 15, 2022

Print Name: Timothy J. Piland Title:

Special Seismic Certification Valid Up to: S_{DS} (g) = 2.50 z/h = 1

Condition of Approval (if applicable):

Table 1 - Base Mounted Certified Components

Mounting Configuration - Rigid Base Mounted

Model	Dimensions [in]			Weight [lb]	Maximum CG (Height) [in]	Unit
	Depth	Width	Height			
D/E/J**********	14.0	24.0	56.0	375	28	Extrapolated
J7ADTSO30400NSZG	14.5	24.0	56.0	227	28	39a
J07ATSA30150N5XC	15.0	24.0	56.0	240	28	41b
D/E/J**********	42.0	15.5	48.0	570	24	Interpolated
D/E/J**********	17.0	24.0	66.0	375	33	Interpolated
D/E/J**********	17.0	32.0	72.0	375	36	Interpolated
J07ATSC30600N50C	17.0	24.0	63.0	402	32	7
D/E/J**********	42.0	18.0	48.0	570	24	Interpolated
J03ATSB30600NGXH	18.5	24.0	67.3	273	34	13b
J03ATSB30600NGXH	19.0	24.0	67.0	276	34	36a
J03ATSB30600NGXH	18.5	24.0	67.3	277	34	14b
J07APSB30400N5ZP	19.5	42.0	54.5	570	27	28a
J7ACTSA30600N5XQ	20.0	26.5	68.0	516	34	8
J7ACTSB30150N5XC	20.0	34.0	72.0	480	36	26b
D/E/J/K/H/P**********	20.0	34.0	73.0	560	37	Interpolated
D/E/J/K/H/P**********	20.0	34.0	75.0	560	38	Interpolated
H04ADTSB31000N5XH	20.0	34.0	77.0	560	39	11
D/E/J/K/H/P**********	20.0	34.0	91.0	560	46	Interpolated
J4ADTSB30600N5XP	22.0	28.0	69.0	375	35	23a
D/E/J/H/P/Q**********	23.0	33.0	48.0	375	24	Interpolated
H04ATSB31200N5XC	23.0	38.0	87.0	972	44	6
D/E/J/K/H/P**********	24.0	38.0	91.0	972	46	Interpolated
D/E/J/K/H/P**********	24.0	58.0	91.0	972	46	Interpolated
D/E/J/K/H/P**********	28.0	34.0	76.0	1,700	38	Interpolated
D/E/J/K/H/P**********	28.0	34.0	85.0	1,700	43	Interpolated
D/E/J/K/H/P**********	38.0	28.0	91.0	570	46	Interpolated
D/E/J/K/H/P**********	28.0	52.0	85.0	1,700	43	Interpolated
D/E/J/K/H/P**********	28.0	58.0	91.0	540	46	Interpolated
D/E/J/K/H/P**********	28.0	60.0	85.0	1,700	43	Interpolated
D/E/J/K/H/P**********	28.0	64.0	91.0	540	46	Interpolated
D/E/J/K/H/P**********	28.0	68.0	85.0	1,700	43	Interpolated
D/E/J/K/H/P**********	28.0	72.0	85.0	1,700	43	Interpolated
D/E/J/K/H/P**********	28.0	86.0	85.0	1,700	43	Interpolated
J7ACTBB30600N5XM	29.0	45.5	97.5	1,726	49	10
D/E/J/K/H/P**********	32.0	30.0	91.0	972	46	Interpolated
D/E/J/K/H/P**********	30.0	34.0	77.0	540	39	Interpolated
D/E/J/K/H/P**********	36.0	30.0	93.0	570	47	Interpolated
D/E/J/K/H/P**********	40.0	30.0	79.0	570	40	Interpolated
H7ACTSB31000N5ZH	31.0	34.0	77.0	720	39	22a
D/E/J/K/H/P/Q**********	43.0	31.0	77.5	550	39	Interpolated
D/E/J/K/H/P/Q**********	50.0	31.0	95.5	550	48	Interpolated
D/E/J/K/H/P/Q**********	56.0	31.0	95.5	550	48	Interpolated
J7ADTSO30400NSZG	31.5	34.0	75.0	540	38	38a
D/E/J/K/H/P**********	32.0	44.0	100.0	540	50	Interpolated
D/E/J/K/H/P**********	32.0	64.0	91.0	2,000	46	Interpolated
D/E/J/K/H/P**********	32.0	90.0	91.0	2,000	46	Interpolated
D/E/J/K/H/P**********	33.0	37.0	95.5	540	48	Interpolated
D/E/J/K/H/P**********	41.0	33.0	95.5	570	48	Interpolated
D/E/J/K/H/P**********	33.0	41.0	96.0	540	48	Interpolated
D/E/J/K/H/P**********	34.0	38.0	91.0	2,000	46	Interpolated
D/E/J/K/H/P**********	34.0	38.0	97.0	2,000	49	Interpolated
D/E/J/K/H/P**********	40.0	34.0	85.0	2,000	43	Interpolated
D/E/J/K/H/P**********	44.0	34.0	100.0	1,500	50	Interpolated
D/E/J/K/H/P**********	48.0	34.0	85.0	1,500	43	Interpolated
H7ACTBB31200N5ZC	34.0	57.0	91.0	2,050	46	24

(Continued on Next Page)

Table 1 - Base Mounted Certified Components (Continued)

Mounting Configuration - Rigid Base Mounted

Model	Dimensions [in]			Weight [lb]	Maximum CG (Height) [in]	Unit
	Depth	Width	Height			
J/H/P/Q/S/G**********	34.0	86.0	91.0	2,000	46	Interpolated
J/H/P/Q/S/G**********	36.0	37.0	93.0	1,000	47	Interpolated
J/H/P/Q/S/G**********	36.0	38.0	91.0	1,000	46	Interpolated
J/H/P/Q/S/G**********	44.0	36.0	100.0	1,500	50	Interpolated
J/H/P/Q/S/G**********	36.0	49.0	96.0	1,500	48	Interpolated
J/H/P/Q/S/G**********	36.0	54.0	97.0	1,700	49	Interpolated
J/H/P/Q/S/G**********	36.0	57.0	96.0	2,053	48	Interpolated
J/H/P/Q/S/G**********	36.0	65.0	96.0	1,700	48	Interpolated
J/H/P/Q/S/G**********	36.0	93.0	96.0	1,700	48	Interpolated
J/H/P/Q/S/G**********	37.0	37.0	96.0	1,700	48	Interpolated
J/H/P/Q/S/G**********	37.0	41.0	95.5	1,700	48	Interpolated
J/H/P/Q/S/G**********	37.0	49.0	96.0	1,700	48	Interpolated
J/H/P/Q/S/G**********	50.0	37.0	95.5	1,700	48	Interpolated
J/H/P/Q/S/G**********	56.0	37.0	95.5	1,700	48	Interpolated
J/H/P/Q/S/G**********	37.0	61.0	95.5	1,700	48	Interpolated
J/H/P/Q/S/G**********	37.0	65.0	95.5	1,700	48	Interpolated
J/H/P/Q/S/G**********	37.0	68.0	95.0	1,700	48	Interpolated
G07AUBB32000N5ZM	62.0	37.5	97.0	4,390	49	4
H/P/Q/S/G**********	42.0	38.0	88.0	2,000	44	Interpolated
H/P/Q/S/G**********	48.0	38.0	73.0	1,500	37	Interpolated
H/P/Q/S/G**********	48.0	38.0	88.0	2,000	44	Interpolated
H/P/Q/S/G**********	48.0	38.0	91.0	2,000	46	Interpolated
H/P/Q/S/G**********	54.0	38.0	91.0	2,000	46	Interpolated
H/P/Q/S/G**********	54.0	38.0	100.0	3,100	50	Interpolated
H/P/Q/S/G**********	60.0	38.0	75.0	2,000	38	Interpolated
H/P/Q/S/G**********	38.0	60.0	76.0	1,600	38	Interpolated
H/P/Q/S/G**********	60.0	38.0	91.0	3,100	46	Interpolated
H/P/Q/S/G**********	38.0	64.0	91.0	2,000	46	Interpolated
H/P/Q/S/G**********	72.0	38.0	91.0	3,100	46	Interpolated
H/P/Q/S/G**********	72.0	38.0	100.0	3,100	50	Interpolated
H/P/Q/S/G**********	84.0	38.0	91.0	3,100	46	Interpolated
H/P/Q/S/G**********	94.0	38.0	91.0	3,100	46	Interpolated
H/P/Q/S/G**********	39.0	41.0	95.5	2,000	48	Interpolated
H/P/Q/S/G**********	39.0	44.0	100.0	2,000	50	Interpolated
H/P/Q/S/G**********	39.0	44.0	103.0	2,000	52	Interpolated
H/P/Q/S/G**********	39.0	56.0	95.5	2,000	48	Interpolated
H/P/Q/S/G**********	60.0	40.0	94.0	2,000	47	Interpolated
H/P/Q/S/G**********	60.0	40.0	97.0	2,000	49	Interpolated
H/P/Q/S/G**********	42.0	41.0	97.0	2,000	49	Interpolated
H/P/Q/S/G**********	41.0	44.0	103.0	2,000	52	Interpolated
H/P/Q/S/G**********	47.0	41.0	96.0	1,500	48	Interpolated
H/P/Q/S/G**********	62.0	41.0	91.0	1,800	46	Interpolated
H/P/Q/S/G**********	62.0	41.0	96.0	2,520	48	Interpolated
H/P/Q/S/G**********	68.0	41.0	96.0	2,500	48	Interpolated
H/P/Q/S/G**********	74.0	41.0	96.0	3,675	48	Interpolated
Q07ATBB31600N5XM	74.0	41.0	95.4	3,240	48	15
S07ATBB32000N5XM	74.0	41.0	95.5	3,370	48	16
H/P/Q/S/G**********	74.0	41.0	95.5	2,000	48	Interpolated
G07ATBB32000N5XR	74.5	41.0	94.5	3,110	47	12
H/P/Q/S/G**********	86.0	41.0	96.0	3,700	48	Interpolated
H/P/Q/S/G**********	110.0	41.0	96.0	3,100	48	Interpolated
H/P/Q/S/G**********	56.0	42.0	92.0	2,400	46	Interpolated
H/P/Q/S/G**********	56.0	42.0	91.0	1,900	46	Interpolated
H/P/Q/S/G**********	42.0	60.0	103.0	2,400	52	Interpolated
H/P/Q/S/G**********	60.0	44.0	97.0	2,400	49	Interpolated

(Continued on Next Page)

Table 1 - Base Mounted Certified Components (Continued)

Mounting Configuration - Rigid Base Mounted

Model	Dimensions [in]			Weight [lb]	Maximum CG (Height) [in]	Unit
	Depth	Width	Height			
P7ADTBB31200N5XP	62.0	44.0	97.0	2,380	49	19
H/P/Q/S/G/U**********	62.0	44.0	103.0	2,500	52	Interpolated
H/P/Q/S/G/U**********	48.0	56.0	91.0	1,900	46	Interpolated
H/P/Q/S/G/U**********	48.0	76.0	91.0	2,400	46	Interpolated
H/P/Q/S/G/U**********	48.0	90.0	91.0	2,400	46	Interpolated
H/P/Q/S/G/U**********	56.0	63.0	77.5	2,400	39	Interpolated
H/P/Q/S/G/U**********	60.0	64.0	91.0	2,400	46	Interpolated
H/P/Q/S/G/U**********	72.0	60.0	91.0	4,700	46	Interpolated
H/P/Q/S/G/U**********	60.0	76.0	91.0	2,400	46	Interpolated
H/P/Q/S/G/U**********	84.0	60.0	91.0	6,000	46	Interpolated
G7ADTBB34000R50C	96.0	60.0	91.0	6,435	46	3
Q/S/G/U**********	96.0	60.0	91.0	2,700	46	Interpolated
Q/S/G/U**********	62.0	69.0	96.0	2,500	48	Interpolated
Q/S/G/U**********	90.0	63.0	98.0	4,611	49	Interpolated
U07ATBB34000N5XM	115.0	63.0	100.0	6,070	50	17
G7ASLBB34000N5XM	105.0	63.0	97.0	7,520	49	5
Q/S/G/U**********	72.0	64.0	91.0	7,000	46	Interpolated
Q/S/G/U**********	74.0	69.0	96.0	3,700	48	Interpolated
Q/S/G/U**********	72.0	76.0	91.0	3,700	46	Interpolated
Q/S/G/U**********	72.0	90.0	91.0	3,700	46	Interpolated
Q/S/G/U**********	72.0	124.0	91.0	7,000	46	Interpolated
Q/S/G/U**********	74.0	77.0	95.5	3,700	48	Interpolated
Q/S/G/U**********	86.0	77.0	95.5	3,700	48	Interpolated
Q/S/G/U**********	86.0	81.0	96.0	6,123	48	Interpolated
G7ADUBB34000N5ZM[1, 2]	95.0	205.0	99.0	12,450	50	25

1. UUT25 is ASCO outline drawing number 879080-058, which consists of a 4-section lineup: Section 1 contains i-line panel with breakers, Section 2 contains cam-locks and fuses, Section 3 is a transfer switch, model G7ADUBB34000N5ZM and Section 4 is a pull box

2. Units may be installed in a stand-alone or lineup configuration

Table 2 - Nomenclature Chart: Base Mounted Certified Components

Mounting Configuration - Rigid Base Mounted

ASCO Base Mounted Units Model Chart					
A-B-C-D-E-F-G-H-I-J-K-L					
Variable	**Definition**	**Allowable Value**	**Allowable Value Description**	**Notes**	**Unit**
A	Frame	D	Amperage up to 230		Extrapolated
		E	Amperage up to 400		Extrapolated
		J	Amperage up to 600		7,8,10,13b,14b,23a,26b,28a,36a,38a,39a,41b
		K,H,or P	Amperage up to 1200		6,11,19,22a,24
		Q	Amperage up to 1600		15
		S	Amperage up to 2000		16
		G or U	Amperage up to 4000		3,4,5,12,17
B	Series	3 or 03	300 Series Switch		13b,14b,36a
		4 or 04	4000 Series Switch		6,11,23a
		7 or 07	7000 Series Switch		3,4,5,7,8,10,12,15,16,17,19,22a,24,26b,28a,39a,41b
C	Control Type	A	Automatic		39a,41b,13b,36a,14b,28a,7,8,26b,11,23a,6,10,22a,38a,24,4,15,16,12,19,3,17,5
		N	Non-Automatic	Same controller as the automatic above but uses a small dial switch (PN 706991) as tested in 11, 19, 39a.	Extrapolated
		M	Manual	Depopulated version of control type A and uses a manual handle as tested in 10,24,4,15,16,12,19,3,17,5	Extrapolated
D	Transition Switch Style	T	Standard		41b,13b,36a,14b,7,6,15,16,12,3,17
		CT	Closed		8,26b,10,22a,24
		DT	Delayed		39a,11,23a,38a,19
		SL	Softload		5
		U	Utility Service Entrance		4
		CU	Closed Utility Service Entrance	Bookended by 4 and 8,26b,10,22a,24	Extrapolated
		DU	Delayed Utility Service Entrance		25
		G	Generator Service Entrance	Same as tested in 4 (software change only)	Extrapolated
		CG	Closed Generator Service Entrance	Bookended by 4 and 8,26b,10,22a,24	Extrapolated
		DG	Delayed Generator Service Entrance	Bookended by 4 and 39a,11,23a,38a,19	Extrapolated
		P	Dual Breaker Single Service Entrance		28a
		CP	Dual Breaker Closed Single Service Entrance	Bookended by 28a and 8,26b,10,22a,24	Extrapolated
		DP	Dual Breaker Delayed Single Service Entrance	Bookended by 28a and 39a,11,23a,38a,19	Extrapolated
		R	Dual Breaker Dual Service Entrance	Same as 28a with a connection between neutral and ground on both sides vs. one side in 28a	Extrapolated
		CR	Dual Breaker Closed Dual Service Entrance	Same as 28a with a connection between neutral and ground on both sides vs. one side in 28a. Bookended by 28a and 8,26b,10,22a,24	Extrapolated
		DR	Dual Breaker Delayed Dual Service Entrance	Same as 28a with a connection between neutral and ground on both sides vs. one side in 28a. Bookended by 28a and 39a,11,23a,38a,19	Extrapolated
E	Transfer Switch Type	S	Standard		39a,41b,13b,36a,14b,28a,7,8,26b,11,23a,6,22a,38a
		Q	with Quick Connect Lugs	Quick connect lugs (a.k.a. cam-loks) contained in section 2 of UUT25	25
		B	Bypass		10,24,4,15,16,12,19,3,17,5,25
F	Neutral Type	0	No Neutral		38a,39a
		A	Solid		8,41b
		B	Switched		13b,36a,14b,38a,26b,11,23a,6,10,22a,24,4,15,16,12,19,3,5
		C	Overlapping		7
G	Phase Poles	2	2 Phase Poles		Extrapolated
		3	3 Phase Poles		39a,41b,13b,36a,14b,28a,7,8,26b,11,23a,6,10,22a,38a,24,4,15,16,12,19,3,17,5

Table 2 - Nomenclature Chart: Base Mounted Certified Components (Continued)

Mounting Configuration - Rigid Base Mounted

ASCO Base Mounted Units Model Chart					
A-B-C-D-E-F-G-H-I-J-K-L					
Variable	**Definition**	**Allowable Value**	**Allowable Value Description**	**Notes**	**Unit**
H	Amperage	0030	30 Amps		Extrapolated
		0070	70 Amps		Extrapolated
		0100	100 Amps		Extrapolated
		0150	150 Amps		26b,41b
		0200	200 Amps		Interpolated
		0230	230 Amps		Interpolated
		0260	260 Amps		Interpolated
		0400	400 Amps		28a,38a,39a
		0600	600 Amps		13b,36a,14b,7,8,23a,10
		0800	800 Amps		Interpolated
		1000	1000 Amps		11,22a
		1200	1200 Amps		6,19,24
		1600	1600 Amps		15
		2000	2000 Amps		4,12,16
		2600	2600 Amps		Interpolated
		3000	3000 Amps		Interpolated
		4000	4000 Amps		3,5,17
I	Voltage Code	A	115		Extrapolated
		B	120		Extrapolated
		C	208		Extrapolated
		D	220		Extrapolated
		E	230		Extrapolated
		F	240		Extrapolated
		H	380		Extrapolated
		J	400		Extrapolated
		K	415		Extrapolated
		L	440		Extrapolated
		M	460		Extrapolated
		N	480		39a,41b,13b,36a,14b,28a,7,8,26b,11,23a,6,10,22a,38a,24,4,15,16,12,19,17,5
		P	550		Interpolated
		Q	575		Interpolated
		R	600		3
J	Controller	0	MTS	This type has no controller and uses a manual handle as tested in 3,4,5,10,12,15,16,17,19,24	Extrapolated
		5	Group 5		39a,41b,28a,7,8,26b,11,23a,6,10,22a,38a,24,4,15,16,12,19,3,17,5
		G	Group G		13b,14b,36a
		P	Priority Load	Same as Group 5 controller (marketing change only)	Extrapolated
K	Group	0	No Optional Accessories		3,7
		X	Optional Accessories		41b,13b,36a,14b,8,26b,11,23a,6,10,15,16,12,19,17,5
		Z	Value Added Transfer Switch		39a,28a,22a,38a,24,4
		D	Transfer Switch with Distribution Breakers	Breakers contained in section 1 of UUT25	25
L	Enclosure	C	UL Type 1		41b,7,26b,6,24,3
		F	UL Type 3R		Interpolated
		G	UL Type 4		38a,39a
		H	UL Type 4X 304 Stainless		13b,36a,14b,11,22a
		L	UL Type 12		Interpolated
		M	UL Type 3R Secure		10,4,15,16,17,5
		N	UL Type 4 Secure		Interpolated
		P	UL Type 4X Secure 304 Stainless		28a,23a,19
		Q	UL Type 12 Secure		8
		R	UL Type 3RX Secure 304 Stainless		12
		S	UL Type 3RX Secure 316 Stainless		Interpolated
		U	UL Type 4X 316 Stainless		Interpolated
		V	UL Type 4X Secure 316 Stainless		Interpolated

Table 3 - Wall Mounted Certified Components

Mounting Configuration - Rigid Wall Mounted

Model	Dimensions [in]			Weight [lb]	Unit
	Depth	Width	Height		
E00185A20400F40C	7.5	22.5	45.0	136	2
D/E/J***************	11.6	17.5	31.0	55	Interpolated
D03ATSB30030KGZC	12.0	16.4	16.4	43	20a, 20b
D/E/J***************	12.0	16.4	20.4	45	Interpolated
D/E/J***************	12.0	24.5	54.5	74	Interpolated
D/E/J***************	13.0	17.5	32.5	110	Interpolated
D/E/J***************	13.0	18.0	48.0	133	Interpolated
D/E/J***************	13.3	36.0	48.0	145	Interpolated
D/E/J***************	13.4	22.5	48.5	140	Interpolated
D/E/J***************	13.4	36.5	48.5	150	Interpolated
D00300C30230N10C	13.5	18.5	48.0	120	1
D/E/J***************	14.0	24.4	63.0	255	Interpolated
D/E/J***************	14.2	18.0	48.0	135	Interpolated
J07ATSB30400NSXC	14.5	24.0	56.0	227	39b
D07MTSB0070000C	15.0	18.0	48.0	89	34
J07ATSA30150N5XC	15.0	24.0	56.0	240	41a
D/E/J/K***************	15.4	42.5	48.5	230	Interpolated
K03ATSB30400NG0F	15.4	22.5	50.3	176	18a
D03APSA30150NIXM	16.0	36.0	48.0	341	27
D/E/J/K***************	17.0	24.0	63.0	265	Interpolated
D/E/J/K***************	17.5	30.0	63.0	255	Interpolated
D/E/J/K***************	18.0	24.0	63.0	269	Interpolated
D/E/J/K***************	18.0	42.0	48.0	270	Interpolated
J03ATSB30600NGXH	18.5	24.0	67.3	277	14a
J03ATSB30600NGXH	18.5	24.0	67.3	273	13a
J03ATSB30600NGXH	19.0	24.0	67.0	276	36b
J07APSB30400N5ZP	19.5	42.0	54.5	570	28b
J7ACTSA30600N5XQ	20.0	26.5	68.0	516	9
J7ACTSB30150N5XC	20.0	34.0	72.0	480	26a
D/E/J/K/H/P***************	20.0	36.0	60.0	420	Interpolated
J4ADTSB30600N5XP	22.0	28.0	69.0	375	23b
D/E/J/K/H/P***************	26.0	24.4	56.0	350	Interpolated
H7ACTSB31000N5ZH	31.0	34.0	77.0	720	22b
J7ADTSO30400NSZG	31.5	34.0	75.0	540	38b
Load Management Controller					
5850	9.0	20.0	20.9	57	42

Table 4 - Nomenclature Chart: Wall Mounted Certified Components

Mounting Configuration - Wall Mounted

ASCO Wall Mounted Units Model Chart					
A-B-C-D-E-F-G-H-I-J-K-L					
Variable	**Definition**	**Allowable Value**	**Allowable Value Description**	**Notes**	**Unit**
A	Frame	D	Amperage up to 230		20a,20b,1,34,27
		E	Amperage up to 400		2
		J	Amperage up to 600		39b,41a14a,13a,36b,28b,9,26a,23b,38b
		K,H,or P	Amperage up to 1200		18a,22b
B	Series	00185	185 Series Automatic Switch		2
		3 or 03	300 Series Switch		20a,20b,18a,27,14a,13a,36b
		003	300 Series Automatic Switch		1
		4 or 04	4000 Series Switch		23b
		7 or 07	7000 Series Switch		39b,34,41a,28b,9,26a,22b,38b
C	Control Type	A	Automatic		20a,20b,39b,41a,18a,27,14a,13a,36b,28b,9,26a,23b,22b,38b
		N	Non-Automatic	Same controller as the automatic above but uses a small dial switch (PN 706991) as tested in 39b.	Extrapolated
		M	Manual		34
D	Transition Switch Style	T	Standard		20a,20b,39b,41a,18a,14a,13a,36b
		CT	Closed		9,26a,22b
		DT	Delayed		23b
		U	Utility Service Entrance	Same as UUT 27	Extrapolated
		CU	Closed Utility Service Entrance	Bookended by 9,26a,22b and 27	Extrapolated
		DU	Delayed Utility Service Entrance	Bookended by 23b and 27	Extrapolated
		G	Generator Service Entrance	Same as UUT 27 (software change only)	Extrapolated
		CG	Closed Generator Service Entrance	Bookended by 9,26a,22b and 27	Extrapolated
		DG	Delayed Generator Service Entrance	Bookended by 23b and 27	Extrapolated
		P	Dual Breaker Single Service Entrance		27
		CP	Dual Breaker Closed Single Service Entrance	Bookended by 9,26a,22b and 27	Extrapolated
		DP	Dual Breaker Delayed Single Service Entrance	Bookended by 23b and 27	Extrapolated
		R	Dual Breaker Dual Service Entrance	Same as 27 with a connection between neutral and ground on both sides vs. one side in 27	Extrapolated
		CR	Dual Breaker Closed Dual Service Entrance	Same as 27 with a connection between neutral and ground on both sides vs. one side in 27. Bookended by 9,26a,22b and 27	Extrapolated
		DR	Dual Breaker Delayed Dual Service Entrance	Same as 27 with a connection between neutral and ground on both sides vs. one side in 27. Bookended by 23b and 27	Extrapolated
E	Transfer Switch Type	S	Standard		20a,20b,39b,34,41a,18a,27,14a,13a,36b,28b,9,26a,23b,22b,38b
F	Neutral Type	0	No Neutral		38b
		A	Solid		2,41a,27,9
		B	Switched		20a,20b,39b,34,18a,14a,13a,36b,28b,26a,23b,22b
		C	Overlapping		1
G	Phase Poles	2	2 Phase Poles		2
		3	3 Phase Poles		20a,20b,1,39b,41a,18a,27,14a,13a,36b,28b,9,26a,23b,22b,38b
H	Amperage	0030	30 Amps		20a,20b
		0070	70 Amps		34
		0100	100 Amps		Interpolated
		0150	150 Amps		41a,27,26a
		0200	200 Amps		Interpolated
		0230	230 Amps		1
		0260	260 Amps		Interpolated
		0400	400 Amps		2,39b,18a,28b,38b
		0600	600 Amps		14a,13a,36b,9,23b
		0800	800 Amps		Interpolated
		1000	1000 Amps		22b

Table 4 - Nomenclature Chart: Wall Mounted Certified Components (Continued)

Mounting Configuration - Wall Mounted

ASCO Wall Mounted Units Model Chart					
A-B-C-D-E-F-G-H-I-J-K-L					
Variable	**Definition**	**Allowable Value**	**Allowable Value Description**	**Notes**	**Unit**
I	Voltage Code	A	115		Extrapolated
		B	120		Extrapolated
		C	208		Extrapolated
		D	220		Extrapolated
		E	230		Extrapolated
		F	240		2
		H	380		Interpolated
		J	400		Interpolated
		K	415		20a,20b
		L	440		Interpolated
		M	460		Interpolated
		N	480		1,41a,18a,27,14a,13a,36b,28b,9,26a,23b,22b,38b
		P	550	Same as 480V (only difference is change to solenoid winding)	Extrapolated
		Q	575	Same as 480V (only difference is change to solenoid winding)	Extrapolated
		R	600	Same as 480V (only difference is change to solenoid winding)	Extrapolated
J	Controller	0	MTS		34
		1	Group 1		1,27
		4	Group 4		2
		5	Group 5		39b,41a,28b,9,26a,23b,22b,38b
		G	Group G		20a,20b,18a,14a,13a,36b
		P	Priority Load	Same as Group 5 controller (marketing change only)	Extrapolated
K	Group	0	No Optional Accessories		2,1,34,18a
		X	Optional Accessories		39b,41a,27,14a,13a,36b,9,26a,23b
		Z	Value Added Transfer Switch		20a,20b,28b,22b,38b
		D	Transfer Switch with Distribution Breakers	Same as 27	Extrapolated
L	Enclosure	C	UL Type 1		2,20a,20b,1,39b,34,41a,26a
		F	UL Type 3R		18a
		G	UL Type 4		38b
		H	UL Type 4X 304 Stainless		14a,13a,36b,22b
		L	UL Type 12		Interpolated
		M	UL Type 3R Secure		27
		N	UL Type 4 Secure		Interpolated
		P	UL Type 4X Secure 304 Stainless		28b,23b
		Q	UL Type 12 Secure		9
		R	UL Type 3RX Secure 304 Stainless		Interpolated
		S	UL Type 3RX Secure 316 Stainless		Interpolated
		U	UL Type 4X 316 Stainless		Interpolated
		V	UL Type 4X Secure 316 Stainless		Interpolated

Table 5 - Base Mounted Certified Subcomponents, Mechanisms

Amps	Volts	Poles	Transition Type	Manufacturer	Frame	Part Number	Switch Type	Unit
260-400A	115-600V	2, 3, 4	Open, Closed, Delayed	ASCO	E	736004	TS	18b
1000-4000A				ASCO	G	607103	TS	4
				ASCO	G	605795	TS	4
				ASCO	G	824474	BS	3, 5
				ASCO	G	605993		15
				ASCO	G	607102		15
				ASCO	G	607041		4, 12
				ASCO	G	828745		3, 5
				ASCO	G	605981		4, 12
600-1200A				ASCO	H & P	627386	TS	6, 11, 22a
				ASCO	H & P	729318	BS	24
				ASCO	H & P	730061		24
150-600A				ASCO	J	773110	TS	7, 8, 26a, 28a, 39a
				ASCO	J	800814	BS	10
				ASCO	J	804205		10
600-1600A				ASCO	Q	985155		15
800-2000A				ASCO	S	891144		16
2600-4000A				ASCO	U	912437		17
				ASCO	U	914647		17

Notes: 1) TS = Transfer Switch, BS = Bypass Switch

Table 6 - Base Mounted Certified Subcomponents, Enclosures

Type	Material	Max Dimensions [in]			Manufacturer	Unit
		Depth	Width	Height		
NEMA 4X	Stainless Steel	31.0	34.0	77.0	ASCO	36a
NEMA 1	Carbon Steel	96.0	60.0	91.0		3, 6, 7, 16, 18b, 24, 26a
NEMA 3R (Secure)		115.0	63.0	100.0		4, 8, 10, 38a, 39a
NEMA 3R (Non-Secure)		74.0	41.0	96.0		15, 16, 17
NEMA 4		74.0	41.0	96.0		4, 8, 10, 38a, 39a
NEMA 12		74.0	41.0	96.0		4, 8, 10, 38a, 39a
NEMA 3R	Carbon Steel w/ Stainless Steel Legs	115.0	63.0	100.0		5
NEMA 4X	Stainless Steel	62.0	44.0	97.0		11, 12, 13b, 14b, 19, 22a, 23a, 28a, 36a

Notes: 1) Above enclosures are approved for ganged configurations based on the testing of UUT-24 and UUT-25

Table 7 - Base Mounted Certified Subcomponents, Controllers

Part Number	Transition Type	Manufacturer	Unit
798923	Open, Closed, Delayed	ASCO	6
601800-002			3, 4, 5, 7, 8, 10, 11, 12, 15, 16, 17,
733275-B			5
894000-002			13b, 14b
629140-008		Precision Graphics, Inc.	5
629140-009			Same[1]

Notes: 1) Identical to controller tested in UUT 5, only difference is software.

Table 8 - Base Mounted Certified Subcomponents, Breakers

Amps	Model Number	Poles	Manufacturer	Unit
15-100A	724801-xxx	2, 3, 4	Square D	Extrapolated
250A	724801-010			4
600A	724801-xxx			Interpolated
800A	724801-xxx			Interpolated
1200A	724801-xxx			Interpolated
1600A	724801-xxx			Interpolated
2000A	724801-xxx			Interpolated
2000A	762450-000			4
2500A	724801-xxx			Interpolated
3000A	724801-xxx			Interpolated
4000A	724801-xxx			Interpolated
4000A	758952-001			5

Table 9 - Base Mounted Certified Subcomponents, Accessories

Accessory	Type	Part No.	Manufacturer	Unit
Switches	Selector Switches	609570	American Solenoid / Benedikt & Jager	10, 12, 22a, 38a
		609950		11, 19
		706978	Square D / Telemecanique	11, 19, 26a
		706991		11, 19, 39a
		706992		38a
		707010		22a, 26a
		611246	IDEC	22a, 24, 26a, 38a
		299552	Electroswitch / Shallco	16
		706996	Square D / Telemecanique	22a, 24
Relays	Plug-in Relay Assembly	619014	ASCO	12, 16, 22a
	LCR Relay	401612	Telemecanique	12, 16
	LDCR Relay	197660	Deltrol Controls/ Siemens Electromechanical Comp.	16, 22a, 38a
	Lockout Relay	441070-001	Shallco / Electroswitch	26a
	Reverse Pwr Relay	459020-010	Basler	24
	Protective Relay	451227	General Electric	26a
Test Block	Test Block	451226	General Electric	26a
Transformers	Control Transformers	22-002,383925	ASCO	16, 23a, 38a
	Current Transformers	711951	General Electric / ITI	22a
	DC-DC Converters	423016	VICOR	
Power Supply	AC/DC Power Supply	621859	ABB	23a, 26a
Diodes	Bridge Diode Rectifiers	423192	ABB-IXYS	16, 23a, 24
	Bridge Diode Rectifiers	629570		
	Diode Board Assembly	297865	ASCO	
Control Line Fuses	Fuse Blocks	199832	Eaton	16, 23a, 22a, 24
	Fuse	203987	Bussman	22a, 24, 26a, 38a
Indicating Lights	LED Indicating Lights	707016, 716750	Square D / Telemecanique	3, 4, 5, 6, 7, 8, 10, 11, 12, 13b, 14b, 15, 16, 17, 18b, 19
Electrical Controllers	Input for Ext Control Pwr Source	297865	ASCO	22a
	Ext Control Pwr Source	903401		13b, 14b
	Ext Control Pwr Source	621859		22a, 23a
	Engine Exerciser, Event Log	937842		13b, 14b
	Touch Display Interface(TDI)	988000-001		23a
	Serial Comm Module	629750		16
	Ethernet Comm Module	629800		11, 16
	Grp G Quad Ethernet Comm Module	987100-004, 006		13b, 14b
	Grp 5 Quad Ethernet Comm Module	987100-204		23a
	PC Board	750453		11
	CPMS	1193630		38a
	Soft Load Controller	629140		5
	Sequential Controller	A345173		22a
	Moxa E1212 I/O Module	E1212	Moxa	23a, 24
	Moxa IMC-21-M-ST Ethernet to Fiber Converter	IMC21MST		28a
	Moxa EDS-308-MM-ST-T Ethernet Switch	EDS-308-MM-ST-T		22a
	Zelio PLC	834087	Cunny & Guerber	39a
	Alarm Module	219527-001	Mid-Coast Electric	22a

Table 9 - Base Mounted Certified Subcomponents, Accessories (Continued)

Accessory	Type	Part No.	Manufacturer	Unit
Meters	Metering Card	894020	ASCO	13b
	Power Meter	627115		11, 16
	Power Meter	798920-001		14b, 19, 24, 38a
	PQ Meter	932588		22a
	Power Logics PQ Meter	785544-003 / 785544-004	Square D / Schneider	23a, 26a
	Power Logics PM5560 Meter	617731-136 / 769256-006		41b
	Power Logics PM 8000 Meter	617731-152 / 1259872		41b
	CT Rated Meter Socket	10013 CT-13	Eaton	41b
	Cutler Hammer PQ Meter	804996	Cutler Hammer	26a
Strip Heater	Strip Heater & Thermostat	832401-001	ASCO	12, 13b, 16
Timers	Time Cube	733494	Releco	26a
	Time Delay Module	387227, 401355	Omron	22a, 28a
Voltage Surge Arrestor	TVSS	387200-931	ASCO	14b, 28a
Protective ANSI Relays	Reverse Pwr Relay	625986-020	Basler	24
IR Window	IR Window	FLK-075-CLKT	Fluke	38a
SPD	73D Surge Protective Device	TE04XRS30X	ASCO	25
Separable Connectors[1]	Single Pole Separable Connectors 400A - 5000A	HBLMRBO	Hubbell	25
Cam-Loks	Male, Female	HBLMRBY	Hubbell	25
Bus[2]	Section Bus	600A - 6000A	ASCO	25
	Branch Bus	600A - 6000A		25
	Main Bus	600A - 6000A		25
Tie Links	Tie-Links	600A - 6000A	ASCO	25
Fuses	Class J 200A	JKS-200	Bussman	25
	Class L 5000A	A4BQ5000	Mersen/Ferraz	25
Panelboard	I-Line Panelboard	CF20R63C	Square D	25
Panelboard Breakers	15A Breaker	HGA36015	Square D	25
	1200A Breaker	PJA36120U31A		25
ERMS	119M Energy Reduction Maintenance Switch	9001K11J35LLL	Square D	25

Notes: 1) Each 400A is one (1) separable connector and the 5000A is (13) thirteen single separable connectors, both configurations were tested
2) Bus sections were tested in a 600A and 6000A configuration and are limited to 62" length and 6" width vertically and 62" length and 5" width horizontally

Table 10 - Wall Mounted Certified Subcomponents, Mechanisms

Amps	Volts	Poles	Transition Type	Manufacturer	Frame	Part Number	Switch Type	Unit
30-230A	115-600V	2, 3, 4	Open, Closed, Delayed	ASCO	D	720935	TS	1, 20a, 20b, 27
	115-600V	2, 3, 4		ASCO	D	720936		34
260-400A	115-600V	2, 3, 4		ASCO	E	736004		2, 18a
150-600A	115-600V	2, 3, 4		ASCO	J	773110		9, 26b, 28b, 39b

Table 11 - Wall Mounted Certified Subcomponents, Enclosures

Type	Material	Max Dimensions [in]			Manufacturer	Unit
		Depth	Width	Height		
NEMA 1	Carbon Steel	13.0	23.0	48.0	ASCO	1, 2, 20a, 20b, 26b, 34
NEMA 3R		22.0	36.0	67.3		9, 18a, 27, 38b, 39b
NEMA 4		22.0	24.0	67.3		9, 18a, 27, 38b, 39b
NEMA 12		22.0	24.0	67.3		9, 18a, 27, 38b, 39b
NEMA 4X	Stainless Steel	31.0	34.0	77.0		13a, 14a, 23b, 28b, 22b

Table 12 - Wall Mounted Certified Subcomponents, Controllers

Part Number	Transition Type	Manufacturer	Unit
493540	Open, Closed, Delayed	ASCO	1
767113-001-A			2
601800-002			9, 18a
894000-002			13a, 14a, 20a, 20b

Table 13 - Wall Mounted Certified Subcomponents, Accessories

Accessory	Type	Part No.	Manufacturer	Unit
Switches	Selector Switches	609570	American Solenoid / Benedikt & Jager	22b, 38b
	Selector Switches	706978	Square D / Telemecanique	26b
	Selector Switches	706991		39b
	Selector Switches	706992		38b
	Selector Switches	707010		22b, 26b
	Selector Switches	611246	IDEC	22b, 26b, 38b
	Selector Switches	706996	Square D / Telemecanique	22b
Relays	Plug-in Relay Assembly	619014	ASCO	22b
	LDCR Relay	197660	Deltrol Controls/ Siemens Electromechanical Comp.	22b, 38b
	Lockout Relay	441070-001	Shallco / Electroswitch	26b
	Protective Relay	451227	General Electric	26b
Test Block	Test Block	451226	General Electric	26b
Transformers	Control Transformers	22-002,383925	ASCO	23b, 38b
	Current Transformers	711951	General Electric / ITI	22b
	DC-DC Converters	423016	VICOR	
	DC-DC Converters	1124299	Allied Electric	32
Power Supply	AC/DC Power Supply	621859	ABB	23b, 26b
	AC/DC Power Supply	621859	Thomas & Betts	32
Diodes	Bridge Diode Rectifiers	423192	ABB-IXYS	23b
	Bridge Diode Rectifiers	629570		
	Diode Board Assembly	297865	ASCO	
Control Line Fuses	Fuse Blocks	199832	Eaton	23b, 22b
	Fuse	203987	Bussman	22b, 26b, 38b
Indicating Lights	LED Indicating Lights	707016, 716750	Square D / Telemecanique	1, 2, 9, 13a, 13ai, 14a, 18a, 20a, 20b
	LED Indicating Lights	XB6AV5BB	Schneider Electric	32
Electrical Controllers	Input for Ext Control Pwr Source	297865	ASCO	22b
	Ext Control Pwr Source	903401		13a, 14a
	Ext Control Pwr Source	621859		23b, 22b
	Engine Exerciser, Event Log	937842		13a, 14a
	Accessory 18MS(Special Acc)	1064901		20a, 20b
	Accessory 29MS(Special Acc)	1084901		20a, 20b
	Touch Display Interface(TDI)	988000-001		23b
	Grp G Quad Ethernet Comm Module	987100-004, 006		13a, 14a
	Grp 5 Quad Ethernet Comm Module	987100-204		23b
	Group 1 Retrofit Kit	955717		27
	Moxa E1212 I/O Module	E1212	Moxa	23b
	Moxa IMC-21-M-ST Ethernet to Fiber Converter	IMC21MST	Moxa	28b
	Moxa EDS-308-MM-ST-T Ethernet Switch	EDS-308-MM-ST-T	Moxa	22b
	CPMS	1193630	ASCO	38b
	Zelio PLC	834087	Cunny & Guerber	39b
	Alarm Module	219527-001	Mid-Coast Electric	22b
	Alarm Module	SC628	Mallory	32
	Sequential Controller	A345173	ASCO	22b

Table 13 - Wall Mounted Certified Subcomponents, Accessories (Continued)

Accessory	Type	Part No.	Manufacturer	Unit
Meters	Metering Card	894020	ASCO	13a
	Power Meter	798920-001		14a, 38b
	PQ Meter	932588		22b
	Power Logics PQ Meter	785544-003 / 785544-004	Square D / Schneider	23b, 26b
	Power Logics PM5560 Meter	617731-136 / 769256-006		41a
	Power Logics PM 8000 Meter	617731-152 / 1259872		41a
	CT Rated Meter Socket	10013 CT-13	Eaton	41a
	Cutler Hammer PQ Meter	804996	Cutler Hammer	26
Strip Heater	Strip Heater & Thermostat	832401-001	ASCO	13a
Timers	Time Cube	733494	Releco	26b
	Time Delay Module	387227, 401355	Omron	22b, 28b
Voltage Surge Arrestor	TVSS	387200-931	ASCO	14a, 28b
Frame Monitor	Embedded Frame Monitor	1123226	Advantech	32
Circuit Breaker	Circuit Breaker	CC-4101	Thomas & Betts	32
Handle Assembly	Manual Operating Handle Assembly	711649	ASCO	34
IR Window	IR Window	FLK-075-CLKT	Fluke	38b

Table 14 - Wall Mounted Certified Subcomponents, ATS Communication Products

Model	Manufacturer	Description	Enclosure	Max Dimensions, D x W x H (in)	Weight	Unit
5310	ASCO	Single Remote Channel Annunciator	Plastic	3.9 x 4.7 x 4.5	2	13ai
5350		(8) Channel Remote Annunciator	Plastic	8.8 x 6.5 x 2.5	2	Interpolated
8114400		(8) Channel Remote Annunciator	Plastic	8.8 x 6.5 x 2.5	2	40
5705		(8) Device Remote Annunciator	Carbon Steel, NEMA 1/3R/4/12	9.0 x 20.0 x 20.0	54	32
5850-SG		ASCO Load Management Module	Carbon Steel, NEMA 1	8.6 x 20.3 x 20.4	57	42
5810-SG/DG		ASCO Load Management Module	Carbon Steel, NEMA 1	8.6 x 20.3 x 20.4	57	Extrapolated[1]

Notes: 1) Same unit, differes from 5850-SG by software only. (Example part number: 5810-SG, 5810-DG, etc.)

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-01

57674R10-2; UUT 2

Model Line	Model Number	Manufacturer
Series 185	D00300C30230N10C	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
120	13.0	18.5	48.0	N/A	N/A	N/A

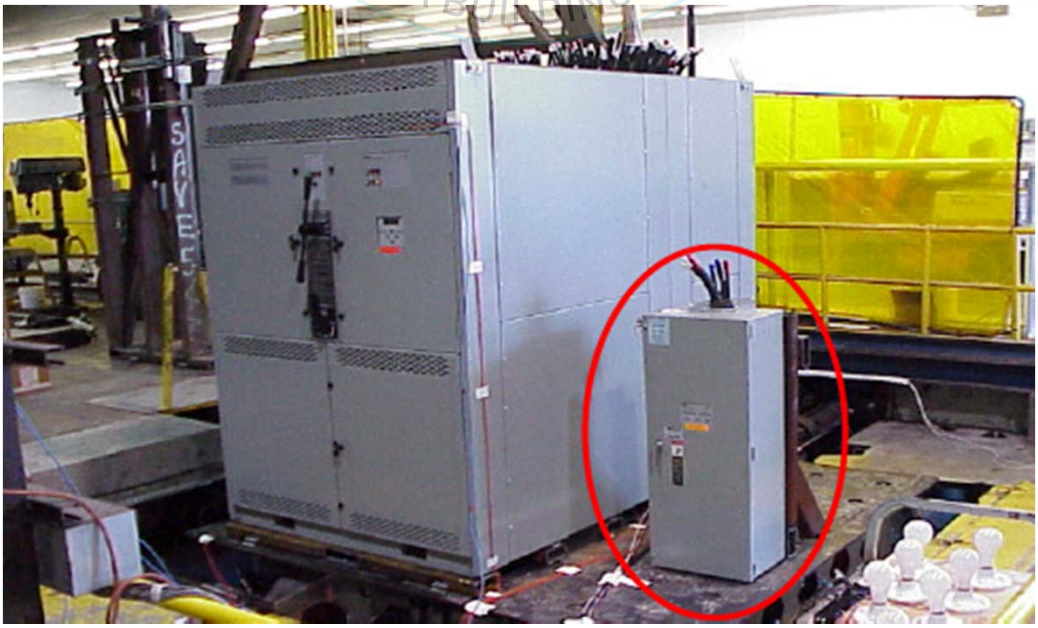
UUT Highest Passed Seismic Run Information

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT (on right) was wall-mounted to the wall fixture using four (4) 5/16" grade 5 bolts and flat washers. The wall fixture was rigidly mounted to the shake table.

UUT-01



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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-02

57525R10-3; UUT 3

Model Line	Model Number	Manufacturer
Series 185	E00185A20400F40C	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
136	8.0	23.0	46.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall-mounted to the wall fixture using four (4) 3/8" grade 5 bolts and flat washers. The wall fixture was rigidly mounted to the shake table.

UUT-02

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-03

57674R10-1; UUT 1

Model Line	Model Number	Manufacturer
Series 7000	G7ADTBB34000R50C	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
6,435	96.0	60.0	91.0	9.8	6.1	24.0

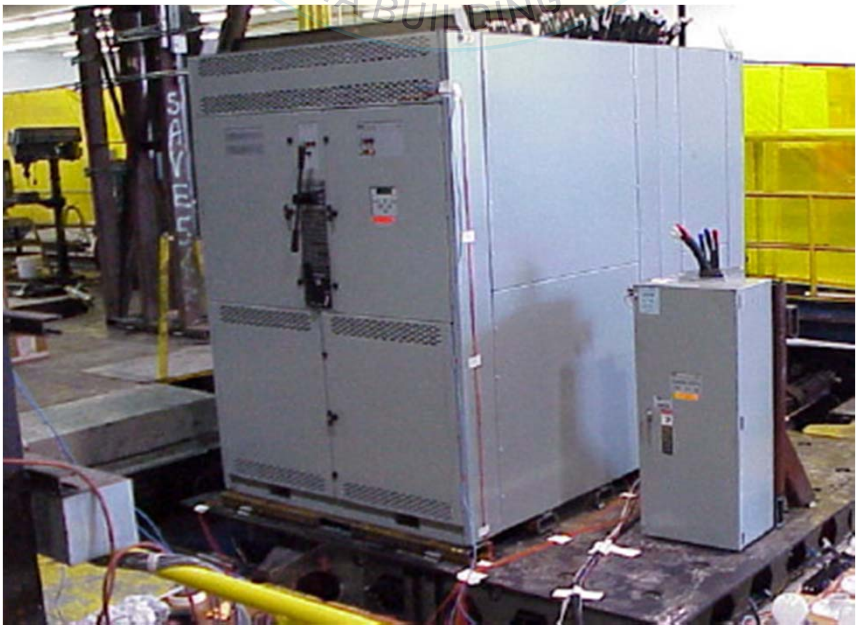
UUT Highest Passed Seismic Run Information

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT (on left) was mounted to the test fixture using seventeen (17) 1/2" grade 5 bolts and flat washers.

UUT-03



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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-04

58168R10-3; UUT 3

Model Line	Model Number	Manufacturer
Series 7000	G07AUBB32000N5ZM	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
4,390	62.0	37.5	97.0	7.1	4.7	24.0

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using six (6) 1/2" grade 5 bolts, flat washers, and 3"x3"x1/4" carbon steel plate washers.

UUT-04

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-05

58791R11; UUT 1

Model Line	Model Number	Manufacturer
Series 7000	G7ASLBB34000N5XM	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
7,520	105.0	63.0	97.0	7.5	4.2	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using twelve (12) 1/2" grade 5 bolts and flat washers.

UUT-05

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-06

57525R10-1; UUT 1

Model Line	Model Number	Manufacturer
Series 4000	H04ATSB31200N5XC	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
972	23.0	38.0	87.0	7.3	12.0	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 1/2" grade 5 bolts, flat washers, and 2"x2"x1/4" carbon steel plate washers.

UUT-06

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-07

57525R10-2; UUT 2

Model Line	Model Number	Manufacturer
Series 7000	J07ATSC30600N50C	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
402	17.0	24.0	63.0	9.4	18.0	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 3/8" grade 5 bolts, flat washers, and 3"x3"x1/4" carbon steel plate washers.

UUT-07

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-08

58168R10-1A; UUT 1

Model Line	Model Number	Manufacturer
Series 7000	J7ACTSA30600N5XQ	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R/12 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
516	20.0	26.5	68.0	9.8	18.0	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 1/2" grade 5 bolts, flat washers, and 2"x2"x1/4" carbon steel plate washers.

UUT-08

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-09

58168R10-1B; UUT 1

Model Line	Model Number	Manufacturer
Series 7000	J7ACTSA30600N5XQ	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R/12 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
516	20.0	26.5	68.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 3/8" grade 5 bolts, flat washers, and 1.5"x1.5"x3/16" carbon steel plate washers. The wall fixture was rigidly mouted to the shake table.

UUT-09

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-10

58168R10-2; UUT 2

Model Line	Model Number	Manufacturer
Series 7000	J7ACTBB30600N5XM	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
1,726	29.0	45.5	97.5	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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using eight (8) 1/2" grade 5 bolts, flat washers, and 2"x2"x1/4" carbon steel plate washers.

UUT-10

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-11

97015-1401g; UUT 11

Model Line	Model Number	Manufacturer
Series 7000	H04ADTSB31000N5XH	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
560	20.0	34.0	77.0	8.0	14.3	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 1/2" grade 5 bolts and flat washers.

UUT-11

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-12

97015-1401b; UUT 12

Model Line	Model Number	Manufacturer
Series 7000	G07ATBB32000N5XR	ASCO

Product Construction Summary

Stainless Steel, NEMA 3RX Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
3,110	74.5	41.0	94.5	7.8	5.3	22.8

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using twelve (12) 1/2" grade 5 bolts and flat washers.

UUT-12

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-13A

97015-1401c; UUT 13A

Model Line	Model Number	Manufacturer
Series 185	J03ATSB30600NGXH	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
273	18.5	24.0	67.3	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 3/8" grade 5 bolts, flat washers, and 3"x3"x1/4" carbon steel plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-13A

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-13A-i

97015-1401c; UUT 13A

Model Line	Model Number	Manufacturer
Annunciator	ATS Remote Annunciator	ASCO

Product Construction Summary

Plastic

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
2	3.9	4.7	4.5	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using two (2) 1/4" grade 5 bolts, flat washers, and 1.5"x1.5"x3/16" plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-13A-i

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-13B

97015-1401c; UUT 13B

Model Line	Model Number	Manufacturer
Series 185	J03ATSB30600NGXH	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
273	18.5	24.0	67.3	10.3	15.8	6.8

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 3/8" grade 5 bolts and flat washers.

UUT-13B

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-14A

97015-1401d; UUT 14A

Model Line	Model Number	Manufacturer
Series 185	J03ATSB30600NGXH	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
277	18.5	24.0	67.3	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 3/8" grade 5 bolts, flat washers, and 3"x3"x1/4" carbon steel plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-14A

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-14B

97015-1401d; UUT 14B

Model Line	Model Number	Manufacturer
Series 185	J03ATSB30600NGXH	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
277	18.5	24.0	67.3	9.8	17.3	17.8

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 3/8" grade 5 bolts and flat washers.

UUT-14B

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-15

97015-1401e; UUT 15

Model Line	Model Number	Manufacturer
Series 7000	Q07ATBB1600N5XM	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
3,240	74.0	41.0	95.4	5.5	9.8	22.0

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using twelve (12) 1/2" grade 5 bolts and flat washers.

UUT-15

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-16

97015-1401f; UUT 16

Model Line	Model Number	Manufacturer
Series 7000	S07ATBB32000N5XM	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
3,370	74.0	41.0	95.5	7.0	5.3	21.3

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using twelve (12) 1/2" grade 5 bolts and flat washers.

UUT-16

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-17

97015-1401a; UUT 17

Model Line	Model Number	Manufacturer
Series 7000	U07ATBB34000N5XM	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
6,070	115.0	63.0	100.0	4.8	4.5	4.8

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using eighteen (18) 1/2" grade 5 bolts and flat washers.

UUT-17

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-18A

36501-1501; UUT 18A

Model Line	Model Number	Manufacturer
Series 7000	K03ATSB30400NG0F	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
176	15.4	22.5	50.3	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 3/8" grade 5 bolts, flat washers, and 3"x3"x1/4" plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-18A

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-18B

36501-1501; UUT 18B

Model Line	Model Number	Manufacturer
Series 7000	K03ATSB30400NG0F	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
176	15.4	22.5	50.3	16.0	29.8	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 1/2" grade 5 bolts and flat washers.

UUT-18B

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-19

97015-1401h; UUT 19

Model Line	Model Number	Manufacturer
Series 7000	P7ADTBB31200N5XP	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
2,380	62.0	44.0	97.0	8.8	7.8	28.8

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using twelve (12) 1/2" grade 5 bolts and flat washers.

UUT-19

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-20A/B

36766-1501; UUT 20A/B

Model Line	Model Number	Manufacturer
Series 185	D03ATSB30030KGZC	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R/12 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
43	12.0	16.4	16.4	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

Each UUT was wall mounted to the wall fixture using four (4) 1/4" grade 5 bolts, flat washers, and 3"x3"x1/4" carbon steel plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-20A/B

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-22A

60216-1701-22; UUT 22A

Model Line	Model Number	Manufacturer
Series 300	H7ACTSB31000N5ZH	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
720	31.0	34.0	77.0	18.0	12.0	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using six (6) 1/2" grade 5 bolts and washers.

UUT-22A

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-22B

60216-1701-22; UUT 22B

Model Line	Model Number	Manufacturer
Series 300	H7ACTSB31000N5ZH	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
720	31.0	34.0	77.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using six (6) 1/2" grade 5 bolts, washers, and 3"x3"x1/4" plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-22B

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-23A

60216-1601b; UUT 23A

Model Line	Model Number	Manufacturer
Series 7000	J4ADTSB30600N5XP	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
375	22.0	28.0	69.0	15.3	8.5	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 1/2" grade 5 bolts and flat washers.

UUT-23A

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-23B

60216-1601b; UUT 23B

Model Line	Model Number	Manufacturer
Series 7000	J4ADTSB30600N5XP	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
375	22.0	28.0	69.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 1/2" grade 5 bolts, flat washers, and 3"x3"x1/4" carbon steel plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-23B

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-24

60216-1701-24; UUT 24

Model Line	Model Number	Manufacturer
Series 7000	H7ACTBB31200N5ZC	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
2,050	34.0	57.0	91.0	10.0	8.6	22.0

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using eleven (11) 1/2" grade 5 bolts and flat washers.

UUT-24

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-25

79249-1801, UUT-25

Model Line	Model Number	Manufacturer
4000 Series	4-section lineup: Section 1 contains i-line panel with breakers Section 2 contains cam-loks and fuses Section 3 is a transfer switch, model G7ADUBB34000N5ZM Section 4 is a pull box	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
12,450	95.0	205.0	99.0	5.5	7.0	10.5

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to an I beam interface test fixture using thirty (30) 1/2" grade 5 bolts and flat washers.

UUT-25

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-26A

60216-1701-26; UUT 26A

Model Line	Model Number	Manufacturer
4000 Series	J7ACTSB30150N5XC	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
480	20.0	34.0	72.0	26.5	22.8	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using five (5) 1/2" grade 5 bolts and flat washers.

UUT-26A

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-26B

60216-1701-26; UUT 26B

Model Line	Model Number	Manufacturer
4000 Series	J7ACTSB30150N5XC	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
480	20.0	34.0	72.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 1/2" grade 5 bolts, flat washers, and 3"x3"x1/4" plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-26B

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-27

60216-1701-27; UUT 27

Model Line	Model Number	Manufacturer
300 Series	D03APSA30150NIXM	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 3R Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
341	16.0	36.0	48.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using six (6) 1/2" grade 5 bolts, flat washers, 3"x3"x1/4" carbon steel plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-27

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-28A

60216-1701-28; UUT 28A

Model Line	Model Number	Manufacturer
4000 Series	J07APSB30400N5ZP	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
570	19.5	42.0	54.5	23.5	9.0	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using six (6) 1/2" grade 5 bolts and flat washers.

UUT-28A

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-28B

60216-1701-28; UUT 28B

Model Line	Model Number	Manufacturer
4000 Series	J07APSB30400N5ZP	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
570	19.5	42.0	54.5	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using six (6) 3/8" grade 5 bolts, flat washers, and 3"x3"x1/4" carbon steel plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-28B

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-32

60216-1701-32; UUT 32

Model Line	Model Number	Manufacturer
Annunciator	5075	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 / 3R / 4 / 12 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
54	9.0	20.0	20.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 1/4" grade 5 bolts, flat washers, and 3"x3"x1/4" plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-32

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-34

60216-1701-34; UUT 34

Model Line	Model Number	Manufacturer
Annunciator	D07MTSB0070000C	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
89	15.0	18.0	48.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 3/8" grade 5 bolts, flat washers, and 3"x3"x1/4" carbon steel plate washers. The wall fixture was rigidly mounted to the shake table.

UUT-34

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-36A

60216-1601c; UUT 36A

Model Line	Model Number	Manufacturer
Series 7000	J03ATSB30600NGXH	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
276	19.0	24.0	67.0	20.3	9.5	15.3

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 1/2" grade 5 bolts and flat washers.

UUT-36A

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-36B

60216-1601c; UUT 36B

Model Line	Model Number	Manufacturer
Series 7000	J03ATSB30600NGXH	ASCO

Product Construction Summary

Stainless Steel, NEMA 4X Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
276	19.0	24.0	67.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 1/2" grade 5 bolts, flat washers, and 3"x3"x1/4" plate washers. The wall fixture was mounted rigidly to the shake table.

UUT-36B

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-38A

60216-1701-38; UUT 38A

Model Line	Model Number	Manufacturer
Series 7000	J7ADTSO30400N5ZG	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
540	31.5	34.0	75.0	20.0	26.0	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using (6) 3/8" grade 5 bolts and flat washers.

UUT-38A

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-38B

60216-1701-38; UUT 38B

Model Line	Model Number	Manufacturer
Series 7000	J7ADTSO30400N5ZG	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
540	31.5	34.0	75.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using six (6) 1/2" grade 5 bolts, flat washers, and 3"x3"x1/4" carbon steel plate washers. The wall fixture was mounted rigidly to the shake table.

UUT-38B

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-39A

60216-1701-39; UUT 39A

Model Line	Model Number	Manufacturer
Series 4000	J07ATSB30400N5XC	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
227	14.5	24.0	56.0	10.0	7.0	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was mounted to the test fixture using four (4) 3/8" grade 5 bolts and flat washers.

UUT-39A

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

UUT-39B

60216-1701-39; UUT 39B

Model Line	Model Number	Manufacturer
Series 4000	J07ATSB30400N5XC	ASCO

Product Construction Summary

Powder-Coated Carbon Steel, NEMA 1 Rating

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
227	14.5	24.0	56.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) 3/8" grade 5 bolts, flat washers, and 3"x3"x1/4" plate washers. The wall fixture was mounted rigidly to the shake table.

UUT-39A

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-40

60216-1601d; UUT 40

Model Line	Model Number	Manufacturer
Annunciator	8114400	ASCO

Product Construction Summary

Plastic

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
2	8.8	6.5	2.5	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT was wall mounted to the wall fixture using four (4) #14 TEK screws and manufacturer provided mounting tabs. The wall fixture was mounted rigidly to the shake table.

UUT-40

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-41A

89607-1901 UUT 41A

Model Line	Model Number	Manufacturer
Power Transfer Switch	J07ATSA30150N5XC	ASCO

Product Construction Summary

Painted Carbon Steel

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
240	15.0	24.0	56.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT 41a was rigid wall mounted to the wall fixture with four (4) 3/8" grade 5 bolts, washers, 3"x3"x1/4" low carbon steel plate washers, and spring nuts.

UUT-41a

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-41B

89607-1901 UUT 41B

Model Line	Model Number	Manufacturer
Power Transfer Switch	J07ATSA30150N5XC	ASCO

Product Construction Summary

Plastic

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
240	15.0	24.0	56.0	11.0	32.0	>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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT 41b was rigid base mounted to an interface place with four (4) 3/8" grade 5 bolts, washers, and 3"x3"x1/4" low carbon steel plate washers.

UUT-41B

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

UNIT UNDER TEST (UUT)
SUMMARY SHEET

UUT-42

89607-1901 UUT 42

Model Line	Model Number	Manufacturer
Load Management Controller	5850	ASCO

Product Construction Summary

Painted Carbon Steel

Options / Subcomponent Summary

Reference subcomponent tables

UUT Properties

Weight [lb]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Depth	Width	Height	F-B	S-S	V
57	9.0	20.0	20.0	N/A	N/A	N/A

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	2.5	1.0	1.5	4.00	3.00	1.67	0.67

Test Mounting Details

UUT 42 was rigid wall mounted to the wall fixture with four (4) 1/4" grade 5 bolts, washers, 3"x3"x1/4" low carbon steel plate washers, and spring nuts.

UUT-42

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