



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0516 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Rockwell Automation

Manufacturer's Technical Representative: Bruce Weiss

Mailing Address: 6400 West Enterprise Drive, Mequon, WI 53092

Telephone: (262) 512-2439

Email: bwweiss@ra.rockwell.com

Product Information

Product Name: PowerFlex 755T Drive Systems

Product Type: Low Voltage AC Drives

Product Model Number: See Certified Product Table attached

(List all unique product identification numbers and/or part numbers)

General Description: Drives are designed to provide harmonic mitigation, regeneration, and common bus solutions.

Seismic enhancements made to the test units and modifications required to address anomalies observed during the tests shall be incorporated into product units.

Mounting Description: Rigidly floor mounted

Applicant Information

Applicant Company Name: Rockwell Automation

Contact Person: Bruce Weiss

Mailing Address: 6400 West Enterprise Drive, Mequon, WI 53092

Telephone: (262) 512-2439

Email: bwweiss@ra.rockwell.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: 04/27/2018

Title: Principal Engineer Company Name: Rockwell Automation, Inc.

"Access to Safe, Quality Healthcare Environments that Meet California's

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

09/20/2019

OSP-0516-10

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OSHPD



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

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

Company Name: Forell/Elsesser Engineers, Inc.

Name: Marco Scanu, SE

California License Number: S4454

Mailing Address: 160 Pine St., 6th Flr., San Francisco, CA 94111

Telephone: (415) 837-0700

Email: m.scanu@forell.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):

OSP-0516-10

BY: Timothy J Piland

DATE: 09/20/2019

Testing Laboratory

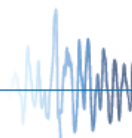
Company Name: National Technical Systems

Contact Name: Tom Boonarkat

Mailing Address: 7800 Highway 20 West, Huntsville, AL 35806

Telephone: (256) 837-3363

Email: Tom.boonarkat@nts.com





**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) = 1.72

S_{DS} (Design spectral response acceleration at short period, g) = 2.29

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

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1

Equipment or Component Natural Frequencies (Hz) = See attachment, UUT Summary Sheets

Overall dimensions and weight (or range thereof) = See attachment, Certified Products Table

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) = OSP-0516-10

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = BY: Timothy J Piland

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = DATE: 09/20/2019

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): Certified Products Table, Certified Subcomponents Table, UUT Summary Sheets

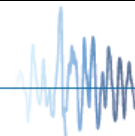
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature: Timothy J. Piland Date: September 20, 2019

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: S_{DS} (g) = 2.29 z/h = 1

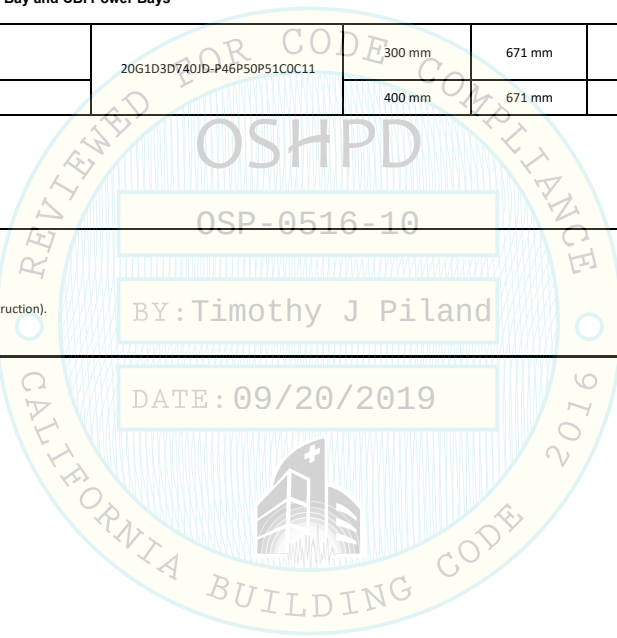
Condition of Approval (if applicable): _____



Rockwell Automation - PowerFlex 755 TM AFE Bus Supply and Common Bus Inverter (CBI) Systems

I. Certified Product Table ¹⁻⁵

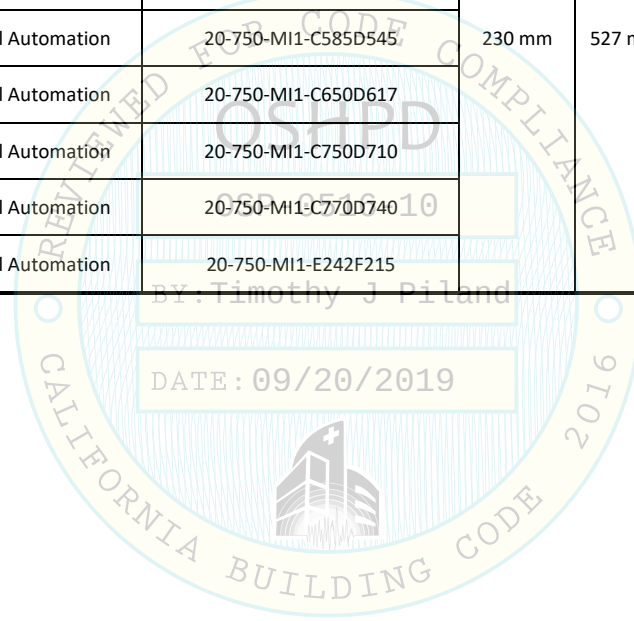
System Catalog Numbers	Unit	Catalog Number	Width	Depth	Height	Weight	Enclosure Type	z/h=1		Test Status
								S _{DS}	F _F /W _P	
AFE Bus supplies (20J1†§#RRR%N&NNNNN-PXX) † = Input type F (Regen) or G (Low Harmonic) [software difference only] § = Enclosure type: 3 (UL Type 1/ IP21/ Nema 1) or 4 (UL Type 12/ IP54/ Nema 12) # = Voltage Rating, C(400V), D(480V), E(600V) or F(690V) (software controls Voltage.) RRR = Output current rating Normal Duty (215A - 770A and is software controlled) % = EMC Filter Jumper optionJ,K,L or M (switch position only) &= HIM option- A(No HIM), D (Enhanced LCD HIM) P17 = Top cable entry without wire bay P46 = System DC bus 4700A P50= DC bus conditioner P51= DC bus conditioner (Marine) <i>The above options were all tested in EUT-1A and EUT-1B.</i>	AFE Bus Supplies: Input Bays and AFE Bus Supply Power Bays									
	Frame 8 Input Bay	20J1†3D740JD-P17P46P50P51	400 mm	671 mm	2132 mm	462 lbs	UL Type 1/IP21 and UL Type 12/IP54 (same construction)	2.29	1.72	EUT-1A
	Frame 8 Bus Supply Power Bay		600 mm	671 mm	2132 mm	1102 lbs	UL Type 1/IP21	2.29	1.72	EUT-1B
Common Bus Inverter (20G1†§#RRR%N&NNNNN-PXX) † = Input type D (With DC Precharge) or E (Without DC Precharge) § = Enclosure type: 3 (ULType 1/ IP21/ Nema 1) or 4 (ULType 12/ IP54/ Nema 12) # = Voltage Rating, C(400V), D(480V), E(600V) or F(690V) [software controls Voltage] RRR = Output current rating Normal Duty (215A - 770A and is controlled by software) % = EMC Filter Jumper optionJ,K,L or M (switch position only) &= HIM option- A(No HIM), D (Enhanced LCD HIM) P46 = System DC bus 4700A P50= DC bus conditioner P51= DC bus conditioner (Marine) C0 = Torque accuracy Module C11= Single POD with control bay <i>The above options were tested in EUT-2A and EUT-2B.</i>	Common Bus Inverter (CBI): Control Bay and CBI Power Bays									
	Control Bay	20G1D3D740JD-P46P50P51C0C11	300 mm	671 mm	2132 mm	180 lbs	UL Type 1/IP21 and UL Type 12/IP54 (same construction) See Note 5.	2.29	1.72	EUT-2A
	Frame 8 Common Bus Inverter Power Bay		400 mm	671 mm	2132 mm	825 lbs	UL Type 1/IP21	2.29	1.72	EUT-2B
Notes 1. All enclosures are cold-formed carbon steel, 14 gauge doors and 16 gauge frame and panels. 2. All units are floor-mounted. 3. All DC bus bars are copper. 4. The bays shown above are combined to create PowerFlex TR & TL Drive Systems and PowerFlex TM AFE Bus Supply systems. 5. Frame 8-12 systems use the same Control Bay and Input Bay which is rated UL Type 1/IP21 and UL Type 12/IP54 (same construction).										



Rockwell Automation - PowerFlex 755TR/TL Drive & TM AFE Bus Supply Systems
II. Certified Subcomponents Table

Internal Components	Manufacturer	Catalog Number	Width	Depth	Height	Weight (lbs)	z/h=1		Testing Status
							S _{DS}	F _p /W _p	
INPUT BAYS Subcomponents:									
AC Precharge Modules									
400/480 VAC, Frame 8	Rockwell Automation	20-750-MACP-CD-F8M	307 mm	347 mm	1133 mm	90	2.29	1.72	EUT1A
Circuit Breaker									
1000 Amp/3 Pole	ABB	T7MLBP3DB0HBDHHEC	210 mm	178 mm	268 mm	11	2.29	1.72	EUT1A
Fused Disconnect									
600 Volt/30 Amp	Rockwell Automation	194R-J30-1753-PBS1	171 mm	148 mm	248 mm	2	2.29	1.72	EUT1A
Contactor									
30 Amp Contact	Rockwell Automation	100-C30KA-10	45 mm	98 mm	81 mm	2	2.29	1.72	EUT1A
ACPC Accessories									
TVSS Module, 400/480 VAC	Rockwell Automation	20-750-MACP-CD-TVSS	75 mm	100 mm	105 mm	1.5	2.29	1.72	EUT1A
Precharge Board, 400/480 VAC	Rockwell Automation	20-750-MACPC1-CD	170 mm	315 mm	25 mm	1	2.29	1.72	EUT1A
Fiber Transceiver Board	Rockwell Automation	20-750-MFTB1-F8	90 mm	50 mm	10 mm	0.1	2.29	1.72	EUT1A
Control Pods									
Control Pod, Regen, Fr8-12	Rockwell Automation	20-750-MCPOD1-F8M	168 mm	128 mm	501 mm	11	2.29	1.72	EUT1A, EUT2A
Control Pod, Low Harmonic, Fr8-12	Rockwell Automation	20-750-MCPOD2-F8M				11	2.29	1.72	Interpolated
Note: Rockwell Automation control pods 20-750-MCPOD1-F8M and 20-750-MCPOD2-F8M differ in software.									

Internal Components	Manufacturer	Catalog Number	Width	Depth	Height	Weight (lbs)	z/h=1		Testing Status
							S _{DS}	F _P /W _P	
POWER BAYS' Subcomponents:									
Power Modules (IGBT PS)									
Converter: 400/480 VAC, 188/216 kW Inverter: 540/650 VDC, 160 kW/250 hp	Rockwell Automation	20-750-MI1-C302D302	230 mm	527 mm	1500 mm	168	2.29	1.72	Interpolated
Converter: 400/480 VAC, 228/258 kW Inverter: 540/650 VDC, 200 kW/300 hp	Rockwell Automation	20-750-MI1-C367D361				168	2.29	1.72	Interpolated
Converter: 400/480 VAC, 286/307 kW Inverter: 540/650 VDC, 250 kW/650 hp	Rockwell Automation	20-750-MI1-C460D430				168	2.29	1.72	Interpolated
Converter: 400/480 VAC, 336/361 kW Inverter: 540/650 VDC, 315 kW/400 hp	Rockwell Automation	20-750-MI1-C540D505				168	2.29	1.72	Interpolated
Converter: 400/480 VAC, 364/390 kW Inverter: 540/650 VDC, 315 kW/450 hp	Rockwell Automation	20-750-MI1-C585D545				185	2.29	1.72	Interpolated
Converter: 400/480 VAC, 405/442 kW Inverter: 540/650 VDC, 355 kW/500 hp	Rockwell Automation	20-750-MI1-C650D617				185	2.29	1.72	Interpolated
Converter: 400/480 VAC, 467/508 kW Inverter: 540/650 VDC, 400 kW/600 hp	Rockwell Automation	20-750-MI1-C750D710				185	2.29	1.72	Interpolated
Converter: 400/480 VAC, 479/529 kW Inverter: 540/650 VDC, 400 kW/650 hp	Rockwell Automation	20-750-MI1-C770D740				185	2.29	1.72	EUT1B
Converter: 600/690 VAC, 217/221 kW Inverter: 810/932 VDC, 250 hp/200 kW	Rockwell Automation	20-750-MI1-E242F215				168	2.29	1.72	Interpolated



Internal Components	Manufacturer	Catalog Number	Width	Depth	Height	Weight (lbs)	z/h=1		Testing Status
							S _{DS}	F _P /W _P	
Power Modules (IGBT PS) cont.									
Converter: 600/690 VAC, 363/272 kW Inverter: 810/932 VDC, 300 hp/250 kW	Rockwell Automation	20-750-MI1-E295F265	230 mm	527 mm	1500 mm	168	2.29	1.72	Interpolated
Converter: 600/690 VAC, 317/339 kW Inverter: 810/932 VDC, 350 hp/315 kW	Rockwell Automation	20-750-MI1-E355F330				168	2.29	1.72	Interpolated
Converter: 600/690 VAC, 353/380 kW Inverter: 810/932 VDC, 400 hp/355 kW	Rockwell Automation	20-750-MI1-E395F370				168	2.29	1.72	Interpolated
Converter: 600/690 VAC, 365/400 kW Inverter: 810/932 VDC, 423 hp/376 kW	Rockwell Automation	20-750-MI1-E409F390				179	2.29	1.72	Interpolated
Converter: 600/690 VAC, 389/426 kW Inverter: 810/932 VDC, 450 hp/400 kW	Rockwell Automation	20-750-MI1-E435F415				179	2.29	1.72	Interpolated
Converter: 600/690 VAC, 487/518 kW Inverter: 810/932 VDC, 550 hp/500 kW	Rockwell Automation	20-750-MI1-E545F505				179	2.29	1.72	Interpolated
Converter: 600/690 VAC, 487/518 kW Inverter: 810/932 VDC, 550 hp/500 kW	Rockwell Automation	20-750-MI1-E545F505C				179	2.29	1.72	Interpolated
Converter: 400/480 VAC, 188/216 kW Inverter: 540/650 VDC, 160 kW/250 hp	Rockwell Automation	20-750-MI2-C302D302				186	2.29	1.72	Interpolated
Converter: 400/480 VAC, 228/258 kW Inverter: 540/650 VDC, 200 kW/300 hp	Rockwell Automation	20-750-MI2-C367D361				186	2.29	1.72	Interpolated
Converter: 400/480 VAC, 286/307 kW Inverter: 540/650 VDC, 250 kW/650 hp	Rockwell Automation	20-750-MI2-C460D430				186	2.29	1.72	Interpolated
Converter: 400/480 VAC, 336/361 kW Inverter: 540/650 VDC, 315 kW/400 hp	Rockwell Automation	20-750-MI2-C540D505				186	2.29	1.72	Interpolated
Converter: 400/480 VAC, 364/390 kW Inverter: 540/650 VDC, 315 kW/450 hp	Rockwell Automation	20-750-MI2-C585D545				200	2.29	1.72	Interpolated
Converter: 400/480 VAC, 405/442 kW Inverter: 540/650 VDC, 355 kW/500 hp	Rockwell Automation	20-750-MI2-C650D617				200	2.29	1.72	Interpolated
Converter: 400/480 VAC, 467/508 kW Inverter: 540/650 VDC, 400 kW/600 hp	Rockwell Automation	20-750-MI2-C750D710				200	2.29	1.72	Interpolated
Converter: 600/690 VAC, 217/221 kW Inverter: 810/932 VDC, 250 hp/200 kW	Rockwell Automation	20-750-MI2-E242F215				184	2.29	1.72	Interpolated
Converter: 600/690 VAC, 363/272 kW Inverter: 810/932 VDC, 300 hp/250 kW	Rockwell Automation	20-750-MI2-E295F265				184	2.29	1.72	Interpolated
Converter: 600/690 VAC, 317/339 kW Inverter: 810/932 VDC, 350 hp/315 kW	Rockwell Automation	20-750-MI2-E355F330				184	2.29	1.72	Interpolated

Internal Components	Manufacturer	Catalog Number	Width	Depth	Height	Weight (lbs)	z/h=1		Testing Status
							S _{DS}	F _p /W _p	
Power Modules (IGBT PS) cont.									
Converter: 600/690 VAC, 353/380 kW Inverter: 810/932 VDC, 400 hp/355 kW	Rockwell Automation	20-750-MI2-E395F370	230 mm	527 mm	1500 mm	184	2.29	1.72	Interpolated
Converter: 600/690 VAC, 365/400 kW Inverter: 810/932 VDC, 423 hp/376 kW	Rockwell Automation	20-750-MI2-E409F390				197	2.29	1.72	Interpolated
Converter: 600/690 VAC, 389/426 kW Inverter: 810/932 VDC, 450 hp/400 kW	Rockwell Automation	20-750-MI2-E435F415				197	2.29	1.72	Interpolated
Converter: 600/690 VAC, 487/518 kW Inverter: 810/932 VDC, 550 hp/500 kW	Rockwell Automation	20-750-MI2-E545F505				197	2.29	1.72	Interpolated
Converter: 600/690 VAC, 487/518 kW Inverter: 810/932 VDC, 550 hp/500 kW	Rockwell Automation	20-750-MI2-E545F505C				197	2.29	1.72	Interpolated
Inverter: 540/650 VDC, 160 kW/250 hp	Rockwell Automation	20-750-MI3-C302D302				250	2.29	1.72	Interpolated
Inverter: 540/650 VDC, 200 kW/300 hp	Rockwell Automation	20-750-MI3-C367D361				250	2.29	1.72	Interpolated
Inverter: 540/650 VDC, 250 kW/650 hp	Rockwell Automation	20-750-MI3-C460D430				250	2.29	1.72	Interpolated
Inverter: 540/650 VDC, 315 kW/400 hp	Rockwell Automation	20-750-MI3-C540D505				250	2.29	1.72	Interpolated
Inverter: 540/650 VDC, 315 kW/450 hp	Rockwell Automation	20-750-MI3-C585D545				267	2.29	1.72	Interpolated
Inverter: 540/650 VDC, 355 kW/500 hp	Rockwell Automation	20-750-MI3-C650D617				267	2.29	1.72	Interpolated
Inverter: 540/650 VDC, 400 kW/600 hp	Rockwell Automation	20-750-MI3-C750D710				267	2.29	1.72	Interpolated
Inverter: 540/650 VDC, 400 kW/650 hp	Rockwell Automation	20-750-MI3-C770D740				267	2.29	1.72	EUT2B
Inverter: 810/932 VDC, 250 hp/200 kW	Rockwell Automation	20-750-MI3-E242F215				250	2.29	1.72	Interpolated
Inverter: 810/932 VDC, 300 hp/250 kW	Rockwell Automation	20-750-MI3-E295F265				250	2.29	1.72	Interpolated
Inverter: 810/932 VDC, 350 hp/315 kW	Rockwell Automation	20-750-MI3-E355F330				250	2.29	1.72	Interpolated
Inverter: 810/932 VDC, 400 hp/355 kW	Rockwell Automation	20-750-MI3-E395F370				250	2.29	1.72	Interpolated

Internal Components	Manufacturer	Catalog Number	Width	Depth	Height	Weight (lbs)	z/h=1		Testing Status
							S _{DS}	F _P /W _P	
Power Modules (IGBT PS) cont.									
Inverter: 810/932 VDC, 423 hp/376 kW	Rockwell Automation	20-750-MI3-E409F390	230 mm	527 mm	1500 mm	261	2.29	1.72	Interpolated
Inverter: 810/932 VDC, 450 hp/400 kW	Rockwell Automation	20-750-MI3-E435F415				261	2.29	1.72	Interpolated
Inverter: 810/932 VDC, 550 hp/500 kW	Rockwell Automation	20-750-MI3-E545F505				261	2.29	1.72	Interpolated
Inverter: 810/932 VDC, 550 hp/500 kW	Rockwell Automation	20-750-MI3-E545F505C				261	2.29	1.72	Interpolated
20-750-MI1-* is only option for Frame 8 AFE Power Bays. 20-750-MI3-* is heaviest, then 20-750-MI2-* is second heaviest due to passive filter components with respect to 20-750-MI1-*. 20-750-MI*-C770D740 is heaviest power structure of all other power structure ratings. "E" units only differ by operating Voltage rating. They have same construction and similar weight as other units and only differ in software. Subcomponents that have been included in multiple successful tests with different SDS values the higher value is used.									
LCL Filter Modules									
400/480 VAC, 499/551 kW, Frame 8	Rockwell Automation	20-750-ML2-C770D740	230 mm	527 mm	1500 mm	470	2.29	1.72	EUT1B
DC Bus Conditioner									
540/650/810/832 VDC	Rockwell Automation	20-750-MDCBUS-COND	211 mm	126 mm	180 mm	6	2.29	1.72	EUT1B
DC Precharge Modules									
DC Precharge, 540/650VDC, Frame 8	Rockwell Automation	20-750-MDCP±-CD-F8M	232 mm	471 mm	371 mm	90	2.29	1.72	EUT2B
DC Link/Fuse Modules									
DC Link/Fuse 540/650VDC	Rockwell Automation	20-750-MDCL±-CD-F8M	200 mm	500 mm	150 mm	18	2.29	1.72	EUT1B
Torque Accuracy Module									
Torque Accuracy Module, 400/480VAC	Rockwell Automation	20-750-MTAM1-CD	163 mm	51 mm	225 mm	2	2.29	1.72	EUT2B
Torque Accuracy Module, 600/690VAC	Rockwell Automation	20-750-MTAM1-EF					2.29	1.72	Interpolate*
*Components have the same construction, dimensions and weight.									
Seismic Kits									
Frame 8 Drive, BS or CBI	Rockwell Automation	20-750-MOSHDPD-F8M	na	na	na	na	2.29	1.72	EUT1A, EUT1B, EUT2A, EUT2B

OSP APPLICATION
Rockwell Automation – PowerFlex 755T Drive Systems
III. EUT Summary Sheets

Date: 04/08/2019

Test Report PR052727-TR-17 – EUT-1A

IP21 Frame 8 Input Bay

NEMA/UL Type 1 Cold Formed Carbon Steel

400 mm W x 671 mm D x 2,132 mm H, 462 lbs

Floor mounted using:

(4) - M12-1.75 x 50 mm Hex Head Bolts, Class 8.8
per bay



Building	Test	S _{DS}	z/h	I _p	Horizontal		Vertical	
Code	Criteria	(g)			A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC 156	2.29	1.0	1.5	3.66	2.75	1.53	0.61
Natural Frequencies (Hz)			Test Results					
F-B	S-S	V	The EUT maintained structural integrity and functionality after the AC156 test. EUT full of contents during testing.					
3.8	3.6	19						

Subcomponents	Manufacturer	Part #
400/480 VAC, Frame 8	Rockwell Automation	20-750-MACP-CD-F8M
1000 Amp/3 Pole	ABB	T7MLBP3DB0HBDHHEC
600 Volt/30 Amp	Rockwell Automation	194R-J30-1753-PBS1
30 Amp Contact	Rockwell Automation	100-C30KA-10
TVSS Module, 400/480 VAC	Rockwell Automation	20-750-MACP-CD-TVSS
Control Board, 400/480 VAC	Rockwell Automation	20-750-MACPC1-CD
Control Pod, Regen, Fr8-12	Rockwell Automation	20-750-MCPOD1-F8M
Frame 8 Seismic Kit	Rockwell Automation	20-750-MOSHPD-F8M

OSP APPLICATION
Rockwell Automation – PowerFlex 755T Drive Systems
III. EUT Summary Sheets

Date: 04/08/2019

Test Report PR052727-TR-17 – EUT-1B

IP21 Frame 8 Bus Supply Power Bay
NEMA/UL Type 1 Cold Formed Carbon Steel
600 mm W x 671 mm D x 2,132 mm H, 1,102 lbs
Floor mounted using:
(4) - M12-1.75 x 50 mm Hex Head Bolts, Class 8.8
per bay



Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	Horizontal		Vertical	
CBC 2016	ICC-ES AC 156	2.29	1.0	1.5	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
					3.66	2.75	1.53	0.61
Natural Frequencies (Hz)			Test Results					
F-B	S-S	V	The EUT maintained structural integrity and functionality after the AC156 test. EUT full of contents during testing.					
3.8	3.6	19						

Subcomponents	Manufacturer	Part #
Converter: 400/480 VAC, 479/529 kW	Rockwell Automation	20-750-MI1-C770D740
LCL: 400/480 VAC, 499/551 kW, Frame 8	Rockwell Automation	20-750-ML1-C540D505
DC Fuse Link: 540/650 VDC	Rockwell Automation	20-750-MDCL†-CD-F8M
Frame 8 Seismic Kit	Rockwell Automation	20-750-MOSHDPD-F8M
DC Bus Conditioner	Rockwell Automation	20-750-MDCBUS-COND

OSP APPLICATION
Rockwell Automation – PowerFlex 755T Drive Systems
III. EUT Summary Sheets

Date: 04/08/2019

Test Report PR052727-TR-17 – EUT-2A

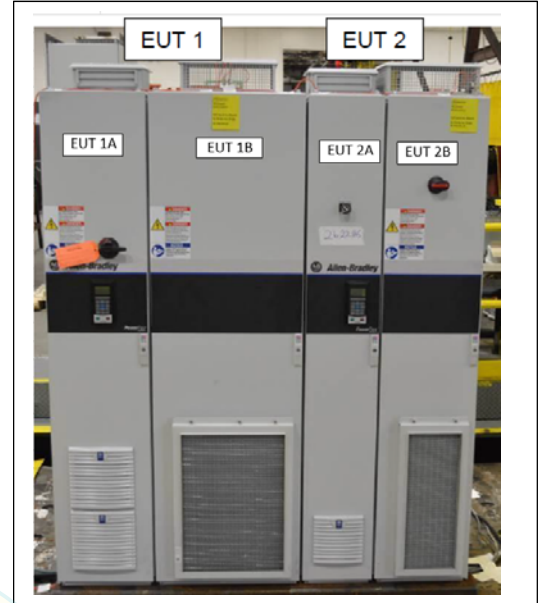
IP21 Control Bay

NEMA/UL Type 1 Cold Formed Carbon Steel

300 mm W x 671 mm D x 2,132 mm H, 180 lbs

Floor mounted using:

(4) - M12-1.75 x 50 mm Hex Head Bolts, Class 8.8
per bay



Building Code	Test Criteria	S_{DS} (g)	z/h	I_p	Horizontal		Vertical	
					A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2016	ICC-ES AC 156	2.29	1.0	1.5	3.66	2.75	1.53	0.61
Natural Frequencies (Hz)			Test Results					
F-B	S-S	V	The EUT maintained structural integrity and functionality after the AC156 test. EUT full of contents during testing.					
8	3.6	>33.3						

Subcomponents	Manufacturer	Part #
Control Pod, Regen, Fr8-12	Rockwell Automation	20-750-MCPOD1-F8M
Frame 8 Seismic Kit	Rockwell Automation	20-750-MOSHPPD-F8M

OSP APPLICATION
Rockwell Automation – PowerFlex 755T Drive Systems
III. EUT Summary Sheets

Date: 04/08/2019

Test Report PR052727-TR-17 – EUT-2B

IP21 Frame 8 CBI Power Bay

NEMA/UL Type 1 Cold Formed Carbon Steel

400 mm W x 671 mm D x 2,132 mm H, 825 lbs

Floor mounted using:

(4) - M12-1.75 x 50 mm Hex Head Bolts, Class 8.8
per bay



Building Code	Test Criteria	S_{DS} (g)	z/h	I_p	Horizontal		Vertical	
					A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2016	ICC-ES AC 156	2.29	1.0	1.5	3.66	2.75	1.53	0.61
Natural Frequencies (Hz)			Test Results					
F-B	S-S	V	The EUT maintained structural integrity and functionality after the AC156 test. EUT full of contents during testing.					
8	3.6	>33.3						

Subcomponents	Manufacturer	Part #
Inverter: 540/650 VDC, 400 kW/650 hp	Rockwell Automation	20-750-MI3-C770D740
DCPC: 540/650 VDC	Rockwell Automation	20-750-MDCP+-CD-F8M
Torque Accuracy Module: 400/480 VAC	Rockwell Automation	20-750-MTAM1-CD
Frame 8 Seismic Kit	Rockwell Automation	20-750-MOSHPD-F8M