



APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.
OSP – 0087 – 10

Check whether application is: NEW RENEWAL

1.0	DANFOSS	Steve Gmeinder
	<i>Manufacturer</i>	<i>Manufacturer's Technical Representative</i>
	8800 W. Bradley Road, Milwaukee, WI. 53224	
	<i>Mailing Address</i>	
	(414) 355-8800	
	<i>Telephone</i>	<i>E-mail Address</i>

2.0	VLT DRIVES, P656 & P650 PANELS	VARIABLE FREQUENCY DRIVES
	<i>Product Name</i>	<i>Product Type</i>
	SEE ATTACHMENT 1	
	<i>Product model No (List all unique product identification numbers and/or serial numbers)</i>	
	<i>General Description: Drive for variable speed control of 3 phase induction motor with or without bypass backup.</i>	

3.0	EQUIPMENTANCHORAGE.COM	JONATHAN ROBERSON, S.E.
	<i>Applicant Company Name</i>	<i>Contact Person</i>
	5877 Pine Ave, Suite 210, Chino Hills, CA. 91709	
	<i>Mailing Address</i>	
	(909) 606-7622	jon@easeco.com
	<i>Telephone</i>	<i>E-mail Address</i>

I hereby agree to reimburse the Office of Statewide Health Planning and Development for the actual costs incurred by the department for review.

	October 15, 2010
<i>Signature of Applicant</i>	<i>Date</i>
PRINCIPAL ENGINEER	EQUIPMENTANCHORAGE.COM
<i>Title</i>	<i>Company Name</i>



Registered Design Professional Preparing the Report

4.0

EQUIPMENTANCHORAGE.COM

Company Name

Jonathan Roberson, S.E.

S4197

Contact Name

California License Number

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

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E-mail Address

California Licensed Structural Engineer Review and Acceptance of the Report

5.0

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Anchorage Pre-Approval

6.0

- Anchorage is pre-approved under OPA- (Separate application for anchorage pre-approval is required)
Anchorage is not Pre-approved

Certification Method

7.0

- Testing in accordance with: ICC-ES AC-156
Analysis
Experience data
Combination of Testing, Analysis, and/or Experience Data (Please Specify):

Testing Laboratory (if applicable)

8.0

Environmental Testing Laboratory, Inc.

Brady Richard

Company Name

Contact Name

11034 Indian Trail, Dallas, TX 75229-3513

Mailing Address

972-247-9657

brady@etldallas.com

Telephone

E-mail:



Approval Parameters

9.0

Design in accordance with ASCE 7-05 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = **1.95g FC101 Drives & P656 Panels | 1.54g All Others**

S_{DS} (Spectral response acceleration at short period) = **2.60g FC101 Drives & P656 Panels | 2.05g All Others**

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

R_p (Equipment or component response modification factor) = **6.0**

I_p (Importance factor) = **1.5**

z/h (Height factor ratio) = **1.0**

Equipment or Component fundamental frequency(s) = **SEE ATTACHMENTS**

Building period limits (if any) = **NO LIMIT**

Overall dimensions and weight (or range thereof) = **SEE ATTACHMENTS**

Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) =

S_{DS} (Spectral response acceleration at short period) =

S_1 (Spectral response acceleration at 1 second period) =

R (Response modification coefficient) = 1.0

Ω_0 (System overstrength factor) = 1.0

C_d (Deflection amplification factor) = 1.0

I_p (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component fundamental period(s) = Sec

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2007: Yes No

10.0 List of attachments supporting the special seismic certification of equipment or components:

- Test Report Drawings Manufacturer's Catalog
- Calculations Others (Please Specify:): **ATTACHMENTS 1 & 2**

11.0 OSHPD Approval (For Office Use Only)

12/9/2011

December 31, 2016

Signature & Date

Approval Expiration Date

M. R. Karim, SHFR

S_{DS} (g) = **See Section 9.0** $z/h = 1.0$

Name & Title

Special Seismic Certification Valid Up to

Condition of Approval (if any):

APPLICATION FOR PREAPPROVAL
SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS
ATTACHMENT 1: DANFOSS VLT DRIVE CHASSIS AND PANELS

TABLE 1: SEISMIC CERTIFIED COMPONENTS: DANFOSS VLT DRIVE PRODUCT SERIES & MODELS ^A

PRODUCT SERIES	DRIVE MODELS			NOTES
	DRIVE CHASSIS	TRADITIONAL PANEL (P650)	VERTICAL PANEL (P656)	
Danfoss VLT FC100 HVAC Drives	FC101 FC102	N/A S102	N/A FC102	Table 4 Tables 2 & 3
Danfoss VLT FC200 AQUA Drives	FC202	S202	FC202	Tables 2 & 3
Danfoss VLT FC300 INDUSTRIAL Drives	FC301 FC302 FC322	S301 S302 S322	N/A FC302 FC322	Tables 2 & 3
<p>NOTES:</p> <p>A) Seismic Certification is limited to the models listed in this table possessing the physical, mechanical and electrical characteristics and product options presented in the tables noted above.</p> <p>B) Identification: Labels are provided on both the panels and the drive chassis. The labels include a Typecode (T/C), Material Number, and a Serial Number (S/N):</p> <ol style="list-style-type: none"> a. Type Codes (T/C) are alphanumeric sequences that reflect physical, mechanical and electrical features and options present in the panel or drive. b. Material Numbers are alphanumeric sequences that are unique to a particular project c. Serial Numbers (S/N) are unique numbers assigned to a panel or drive 				

APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS ATTACHMENT 1: DANFOSS VLT DRIVE CHASSIS AND PANELS

TABLE 2: DANFOSS VLT DRIVE CHASSIS & TRADITIONAL PANEL CONFIGURATION (P650) CHARACTERISTICS

PANEL SIZE	DRIVE ¹ HP RANGE	TIER ²	MAX. DIMENSIONS (IN.)			MAX WT (LBS.)	NOTES
			WIDTH	DEPTH	HEIGHT		
NEMA/UL TYPE 1 / TYPE 12 / TYPE 4X ENCLOSURES							
A2 Frame	0.33 - 5	1	3.5 to 5.2	8.1 to 8.7	13.4 to 19.1	30	
		2	7.6	8.3 to 8.8	31.7	40	
A3 Frame	1-10	1	5.1 to 5.3	8.1 to 8.7	10.6 to 19.1	30	
		2	7.6	7.7 to 8.8	31.7	40	UUT1 & UUT2
A5 Frame	0.5-10	1	9.5	8	16.5	35	
		2	19.2	8.6	18.9	55	
B1 Frame	7.5-25	1	9.5	10.2	18.9	65	
		2	19.1	10.8	21.5	85	
B2 Frame	14-50	1	9.5	10.2	25.6	79	
		2	19.1	10.9	28.2	105	
C1 Frame	20-75	1	12.1	12.2	26.8	100	
		2	24.4	12.7	29.9	145	
C2 Frame	40-125	1	14.6	13.2	30.3	130	
		2	29.3	13.8	33.5	221	UUT3
D1 Frame	50-250	1	16.5	15	47.6	220	
		2	33.1	15	47.6	420	
D2 Frame	250-550	1	16.5	15	62.6	320	
		2	33.1	15	62.6	660	UUT4
NEMA/UL TYPE 3R ENCLOSURES							
1	0.5HP - 10HP	N/A	28.8	11	30	225	
2	5HP - 25HP	N/A	31.1	12.25	38	300	
3	15HP - 40HP	N/A	31.1	12.25	38	300	UUT7
4	25HP - 75HP	N/A	38.5	16.5	47	360	UUT5 & UUT6
CERTIFIED ENCLOSURE	NEMA/UL Type 1, 3R, & 12 NEMA/UL Type 4X (Identical to NEMA 12 enclosure with the addition of a protective spray-on coating & no change in materials).						
CERTIFIED MOUNTING	Wall-mounted: fully supported by a building wall structure. NEMA 3R enclosures may either be surface-mounted to wall or mounted to 12 ga. Unistrut/ Power-Strut backing which is surface mounted to wall at the top and bottom of the unit. Strut backing shall project not more than 1 5/8" from the face of the wall. Mounting to or within an enclosure of a larger unit is beyond the scope of this seismic qualification.						
CERTIFIED SUB-ASSEMBLIES	<ul style="list-style-type: none"> Control Transformers: GE 600,575,460,380,230,208V Primary, 240,120,115,95V Secondary, 100 -500 VA Drive Fuses: Bussman 5-630 Amps Main fuses: Bussmann 2-600 Amps Circuit Breakers: See Table 5 Electronically Controlled Bypass (ECB) or Electro-Mechanical Bypass (EMB or 3MB for NEMA/UL Type 3R) with or w/o: Common Run/Stop for Drive and Bypass, Bypass Undervoltage protection, Automatic Bypass, Run Permissive in Bypass, and/or Firemode via Bypass None, 2 or 3 contactor Bypass circuit Line Reactors installed in NEMA 3R enclosures Main Disconnect Switch , Drive Disconnect Switch and/or Main Circuit Breaker Standard RFI filter A2 (H2*) A, B, C, D option cards 						
NOTES	<ol style="list-style-type: none"> Includes voltages of 200 - 240VAC Single or 3- Phase, 380 - 480VAC Single Phase, 380 - 500VAC 3- Phase, 525 - 600VAC 3 Phase (A, B & C Frames), 525-690VAC 3 phase (D Frames). See Figure 1: Traditional Panel (P650) Tier Visual Identification UUT : Indicates that a test specimen matching these characteristics was tested 						

**APPLICATION FOR PREAPPROVAL
SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS
ATTACHMENT 1: DANFOSS VLT DRIVE CHASSIS AND PANELS**

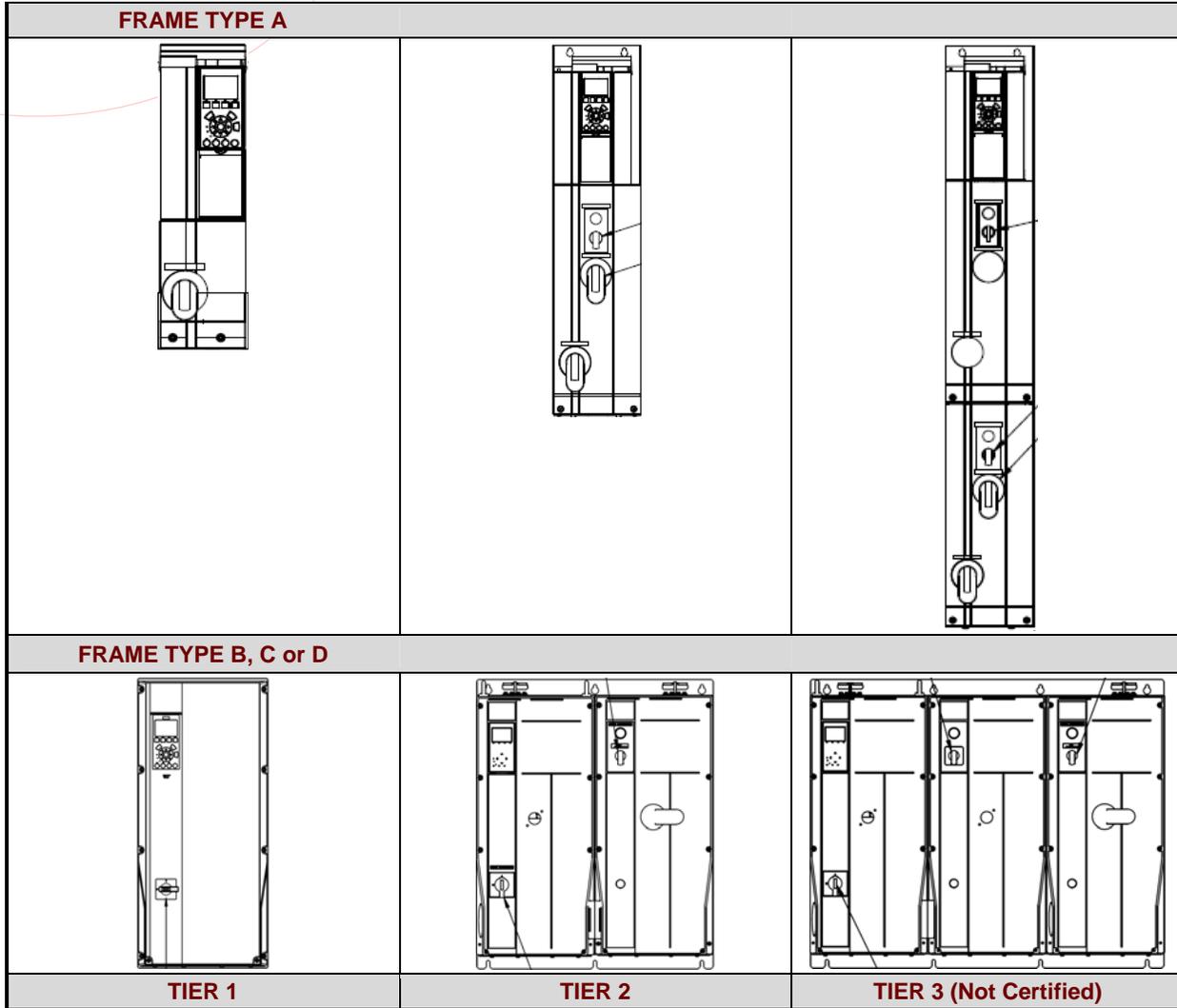


FIGURE 1: TRADITIONAL PANEL (P650) TIER VISUAL IDENTIFICATION

APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS ATTACHMENT 1: DANFOSS VLT DRIVE CHASSIS AND PANELS

TABLE 3: DANFOSS VLT DRIVE VERTICAL PANEL CONFIGURATION (P656) CHARACTERISTICS

PANEL SIZE	DRIVE ¹ HP RANGE	TIER ²	MAX. DIMENSIONS (IN.)			MAX WT (LBS.)	NOTES
			WIDTH	DEPTH	HEIGHT		
B3 Frame	7.5 – 25	1	9.1	11.5	30.0	39	UUT A1
		2	9.2	16.0	41.8	90	UUT A2
B4 Frame	20 – 50	1	9.8	11.3	34.5	72	UUT A3
		2	9.8	17.7	43.3	112	
C3 Frame	25 – 75	1	12.7	14.8	39.6	112	
		2	12.7	18.0	54.4	180	
C4 Frame	40 - 125	1	15.2	14.8	45.8	170	
		2	15.2	18.1	59.7	268	UUT A4
CERTIFIED ENCLOSURE	IP21 / NEMA/UL Type 1 enclosures with carbon steel back panels. B3 Frames have carbon Steel stiffening elements and plastic drive cover. All other Frame sizes have extruded aluminum stiffening elements with carbon steel covers.						
CERTIFIED MOUNTING	Wall-mounted: fully supported by a building wall structure. Mounting to or within an enclosure of a larger unit is beyond the scope of this seismic qualification.						
CERTIFIED SUB-ASSEMBLIES	<ul style="list-style-type: none"> Control Transformers: GE 575,460,380,230,208V Primary 115,95V Secondary, 100 VA Drive Fuses: Bussman 35-250amp Main Fuses: Bussmann 30-250A Circuit Breakers: See Table 5 Control PCB: Electronically Controlled Bypass (ECB) or Electro-Mechanical Bypass (EMB) with or w/o: Common Run/Stop for Drive and Bypass, Bypass Undervoltage protection, Automatic Bypass, Run Permissive in Bypass, and/or Firemode via Bypass None or 3 contactor Bypass circuit Main Disconnect Switch or Main Circuit Breaker RFI filter Class A1/B (H1), A2 (H2) A, B, C option cards Local Control Panel 						
NOTES	<ol style="list-style-type: none"> Includes voltages of 200 - 208VAC, 200 - 240VAC, 380 - 480VAC, and 525 - 600VAC 3 Phase See Figure 2: Vertical Panel (P656) Tier Visual Identification UUT : Indicates that a test specimen matching these characteristics was tested 						

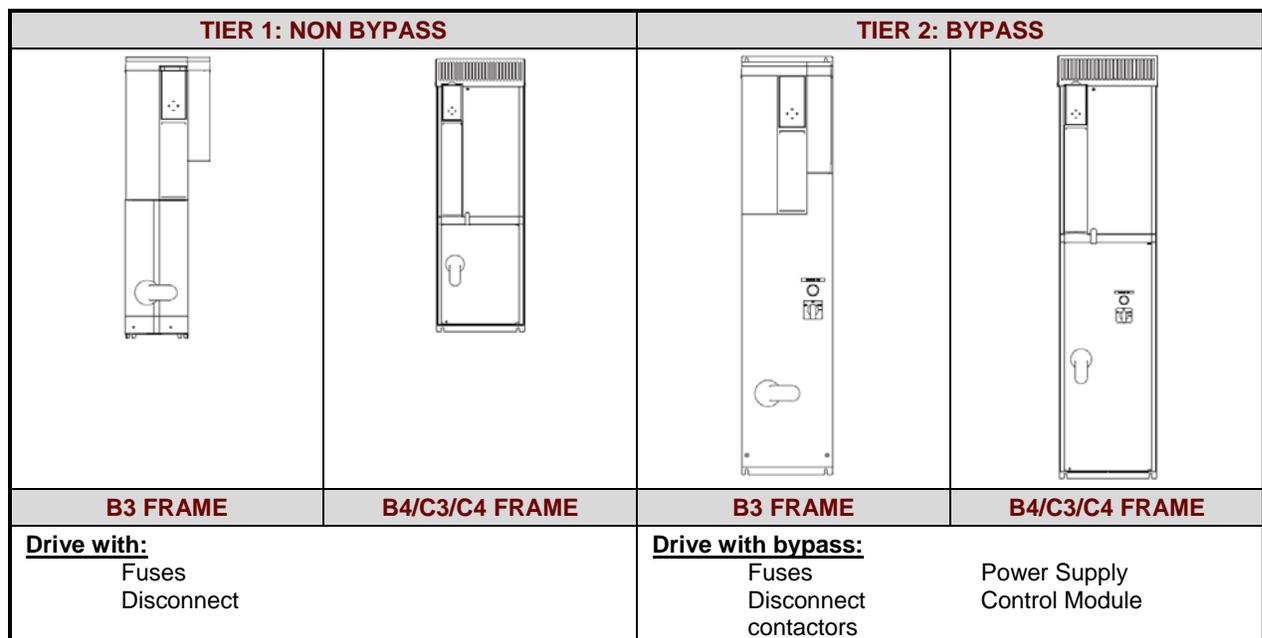


FIGURE 2: VERTICAL PANEL (P656) TIER VISUAL IDENTIFICATION

APPLICATION FOR PREAPPROVAL
SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS
ATTACHMENT 1: DANFOSS VLT DRIVE CHASSIS AND PANELS

TABLE 4: DANFOSS VLT BASIC (FC101) DRIVE CHASSIS CHARACTERISTICS

FRAME SIZE	DRIVE ¹ HP RANGE	MAX. DIMENSIONS (IN.)			MAX WT (LBS.)	NOTES
		WIDTH	DEPTH	HEIGHT		
H1 Frame	0.33 – 2	3.2	6.8	11.5	6	UUT B1
H2 Frame	3 – 5.4	3.8	7.7	12.7	9	
H3 Frame	5 – 10	4.2	8.3	13.7	11	
H4 Frame	7.5 – 20	5.6	9.7	14.8	17	
H5 Frame	15 – 30	6.4	10.3	16.5	23	UUT B2
H6 Frame	20 – 60	10.3	9.6	26.1	60	UUT B3
H7 Frame	30 – 120	13.0	13.2	31.8	90	
H8 Frame	50 – 125	15.4	13.2	37.2	124	UUT B4
CERTIFIED ENCLOSURE	NEMA/UL Type 1 H1-H5 have carbon steel mounting features, with plastic covers. H6-H8 have carbon steel mounting features and sides and plastic covers.					
CERTIFIED MOUNTING	Wall-mounted: fully supported by a building wall structure. Mounting to or within an enclosure of a larger unit is beyond the scope of this seismic qualification.					
CERTIFIED SUBASSEMBLIES	<ul style="list-style-type: none"> • RFI Filter A2 (H2*), A1/B Reduced Cable Length (H3*), A1 (H4*) (Where * indicates Filter Typecode Option) • Local Control Panel • Heatsink Plate on H6-H8 frames. • Nema / UL Type 1 Enclosure Kit 					
NOTES	<ol style="list-style-type: none"> 1. Includes voltages of 200 - 208VAC, 200 - 240VAC, 380 - 480VAC, and 525 - 600VAC 3 Phase 2. Dimensions and weight include Nema / UL Type 1 Kit 3. UUT: Indicates that a test specimen matching these characteristics was tested. 4. Max. Wt. includes weight of Nema 1 rain shield 					

TABLE 5: DANFOSS VLT DRIVE CIRCUIT BREAKERS

Danfoss P/N	Amp Rating
176U5603-176U5611	15-80
176U5613-176U5615	100-150
176U5617	200
177G3814-177G3819	30-100
174H7349-174H7352	125-250
174H7407	50
174H7482	125
174H8800	80
174N6850	200
34056400	25
34056500	30
34056600	40
34056700	50
34056800	60
34056900	70
34057000	80
34057200	100
34057300	125
34057400	150
34057600	200
34057800	250
34057900	400
34058000	600
34059900	800

APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-1: Traditional (P650) 10 Hp 460V drive panel w/ ECB control

DESCRIPTION: A3 Frame Tier 2 NEMA 1 Enclosure with:

- Drive Fuses 30 Amp
- Main Fuses 25 Amp
- 3 contactor bypass,
- Main Disconnect Switch with Main Fusing
- Drive Disconnect Switch
- Standard RFI Filter H2 / A2
- Option A Card: BACNet
- Option C Card: Electronically Controlled Bypass(ECB) control
- Graphical Display

MOUNTING: Wall Mounted
DIMENSIONS: 7.63"(max)W x 8.75"(max)D x 31.74"(max)H
WEIGHT: 40 lbs.



UUT-2: Traditional (P650) 10 Hp 460V drive panel w/ EMB2 control

DESCRIPTION: A3 Frame Tier 2 NEMA 1 Enclosure with:

- Drive Fuses 30 Amp
- Main Fuses 25 Amp
- 2 contactor bypass,
- Electro-Mechanical Bypass (EMB) control
- Main Circuit Breaker 176U5604 - 20Amp
- Drive Disconnect Switch,
- Drive Fusing,
- Standard RFI Filter H2 / A2
- Graphical Display

MOUNTING: Wall Mounted
DIMENSIONS: 7.63"(max)W x 8.75"(max)D x 31.74"(max)H
WEIGHT: 40 lbs.



UUT-3: Traditional (P650) 125Hp 460V panel

DESCRIPTION: C2 Frame Tier 2 NEMA 1 Enclosure with:

- Drive Fuses 250 Amp
- Main Fuses 250 Amp
- Transformer 375 VA
- 3 contactor bypass
- Main Disconnect Switch with Main Fusing
- Electro-Mechanical Bypass (EMB) control
- Standard RFI Filter H2 / A2
- Graphical Display

MOUNTING: Wall Mounted
DIMENSIONS: 29.3"(max)W x 29.5"(max)D x 33.5"(max)H
WEIGHT: 221 lbs.



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-4: Traditional (P650) panel 350Hp 460V

DESCRIPTION: D2 Frame Tier 2 NEMA 1 Enclosure with:

- Drive Fuses 600 Amp
- Transformer 500 VA
- 3 contactor bypass,
- Main Disconnect Switch with Main Fusing
- Electro-Mechanical Bypass (EMB) control
- Standard RFI Filter H2 / A2
- Graphical Display

MOUNTING: Wall Mounted
DIMENSIONS: 33"(max)W x 14.7"(max)D x 60.375"(max)H
WEIGHT: 660 lbs.



UUT-5: 75HP 460V Drives in NEMA 3R Enclosure

DESCRIPTION: NEMA 3R Enclosure with:

- Drive Fuses 150 Amp
- Main Fuses 150 Amp
- Transformer 375VA
- 3 contactor bypass,
- Main Disconnect Switch with Main Fusing
- Electro-Mechanical Bypass (EMB) control
- Standard RFI Filter H2 / A2
- Graphical Display

MOUNTING: Wall Mounted
DIMENSIONS: 38" W x 16.5" D x 47" H
WEIGHT: 360 lb.



UUT-6: 75HP 460V Drives in NEMA 3R Enclosure on Unistrut Backing

DESCRIPTION: NEMA 3R Enclosure with:

- Drive Fuses 150 Amp
- Main Fuses 150 Amp
- Transformer 375VA
- 3 contactor bypass,
- Main Disconnect Switch with Main Fusing
- Electro-Mechanical Bypass (EMB) control
- Standard RFI Filter H2 / A2
- Graphical Display

MOUNTING: Wall Mounted to Unistrut P1000 backing surface-mounted to wall at top & bottom of unit.
DIMENSIONS: 38" W x 16.5" D x 47" H
WEIGHT: 358 lb.



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-7: 40HP 460V Drives in NEMA 3R Enclosure on Unistrut Backing

DESCRIPTION: NEMA 3R Enclosure with IP00 Drive:

- Drive Fuses 80 Amp
- Main Fuses 90 Amp
- Transformer 375VA
- 3 contactor bypass,
- Main Disconnect Switch
- 100KAIC
- Electro-Mechanical Bypass (EMB) control
- 3% Input Reactor
- Standard RFI Filter H2 / A2
- Graphical Display
- Option A Card: MCA-109 BACNet Top Entry
- Option B Card: MCB-109 Analog I/O
- Option D Card: MCB-107 24VDC Backup



MOUNTING: Wall Mounted to Unistrut P1000 backing surface- mounted to wall at top & bottom of unit.
DIMENSIONS: 38" W x 16.5" D x 47" H
WEIGHT: 250 lb.

APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT- A1: Vertical Non-Bypass (P656) Tier 1 Panel, 7.5 HP, 230 V (200 – 240V)

DESCRIPTION: B3 Frame Tier 1 Nema 1 Enclosure with:

- Drive Fuses: 50 amp
- RFI Filter H1 / A1/B
- Main Disconnect Switch
- Nema1 Enclosure
- Graphical Display

MOUNTING Wall

DIMENSIONS: 6.7" W x 10.3" D x 29.4" H

WEIGHT: 36.5 lbs



UUT-A2: Vertical Bypass (P656) Panel, 25 HP, 460 V

DESCRIPTION: B3 Frame Tier 2 Nema 1 enclosure with:

- Drive Fuses: 60 amp
- Main Fuses: 50 amp
- 3 Contactor Bypass
- Standard RFI Filter H2 / A2
- Main Disconnect Switch
- Electro-Mechanical Bypass (EMB2) Control
- Graphical Display

MOUNTING Wall

DIMENSIONS: 9" W x 14" D x 40 1/4" H

WEIGHT: 81 lbs



UUT-A3: Vertical Non Bypass (P656) Panel, 25 HP, 230 V (200 – 240 V)

DESCRIPTION: B4 Frame Tier 1 Nema 1 Enclosure with:

- Drive Fuses: 80 amp, 300 V
- Main Disconnect Switch
- Standard RFI Filter H2 / A2
- Graphical Display

MOUNTING Wall

DIMENSIONS: 9" W x 9 3/8" D x 33 1/2" H

WEIGHT: 66 lbs



UUT-A4: Vertical Bypass (P656) Panel, 125 HP, 460 V (380 – 480V), C4 Frame

DESCRIPTION: C4 Frame Tier 2 Nema 1 Enclosure with:

- Circuit Breaker: 174N6850 - 200 amp
- Drive Fuses: 250 amp
- 3 Contactor Bypass
- Option C Card: Electronically Controlled Bypass (ECB) control
- Transformer: 100VA
- Standard RFI Filter H2 / A2
- Graphical Display

MOUNTING Wall

DIMENSIONS: 14.5" W x 16 3/8" D x 58 1/2" H

WEIGHT: 234 lbs



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT- B1: H1 Frame 2 HP Drive

DESCRIPTION: Product Group: Danfoss
 Drive Series FC101-HVAC
 Power Size 1.5KW
 Voltage 380 to 480 VAC 3 Phase
 Enclosure IP20 Open Chassis with Type 1 Enclosure Kit
 RFI Filter H4 / A1
 Display Local Control Panel

MOUNTING Wall

DIMENSIONS: 3.2" W X 6.81" D X 11.54" H

WEIGHT: 5 LBS



UUT-B2: H5 Frame VLT Basic 30 HP Drive

DESCRIPTION: Product Group: Danfoss
 Drive Series FC101-HVAC
 Power Size 22 KW
 Voltage 380 to 480 VAC 3 Phase
 Enclosure IP20 Open Chassis with Type 1 Enclosure Kit
 RFI Filter H4 / A1
 Display Local Control Panel

MOUNTING Wall

DIMENSIONS: 6.34" W X 10.24" D X 16.46" H

WEIGHT: 22 LBS



UUT-B3: H6 Frame 50 HP Drive

DESCRIPTION: Product Group: Danfoss
 Drive Series FC101-HVAC
 Power Size 37KW
 Voltage 380 to 480 VAC 3 Phase
 Enclosure IP20 Open Chassis with back plate & Type 1 Enclosure Kit
 RFI Filter H3 / A1/B
 Display Local Control Panel

MOUNTING Wall

DIMENSIONS: 10.24" W X 9.53" D X 26.1" H

WEIGHT: 54 LBS



UUT-B4: H8 Frame 125 HP Drive

DESCRIPTION: Product Group: Danfoss
 Drive Series FC101-HVAC
 Power Size 90 KW
 Voltage 380 to 480 VAC 3 Phase
 Enclosure IP20 Open Chassis with back plate & Type 1 Enclosure Kit
 RFI Filter H4 / A1
 Display Local Control Panel

MOUNTING Wall

DIMENSIONS: 15.35" W X 13.2" D X 37.13" H

WEIGHT: 113 LBS + 11LB rain shield

