



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY
APPLICATION #: OSP - 0411 - 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: [X] New [] Renewal

Manufacturer Information

Manufacturer: Franklin Control Systems

Manufacturer's Technical Representative: Ondrej Fercak

Mailing Address: 22985 NW Evergreen Parkway, Hillsboro, OR 97124

Telephone: 503.403.0448 Email: ofercak@fele.com

Product Information

Product Name: P2, P4, P6 VFD, Bypass & EMB Bypass; ISS, SAS, BAS, EMS, MSAC, MSSC, MCS Starters

Product Type: Variable Frequency Drives (VFDs) and Starters

Product Model Number: See Attachment 1
(List all unique product identification numbers and/or part numbers)

General Description: Wall mounted NEMA 1 variable frequency drives and bypass units constructed of plastic & carbon steel; wall mounted NEMA 3R and NEMA 1 smart starters constructed of plastic & carbon steel.

Mounting Description: Rigid wall mounted

Applicant Information

Applicant Company Name: Manwill Engineering LLC

Contact Person: Derek Manwill, SE

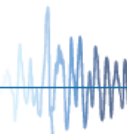
Mailing Address: PO Box 1194, Bend, OR 97709

Telephone: 541.241.2102 Email: derek@manwillSE.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: [Signature] Date: 2/24/2017

Title: President Company Name: Manwill Engineering LLC





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

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

Company Name: Manwill Engineering LLC

Name: Derek Manwill, SE California License Number: S6266

Mailing Address: PO Box 1194, Bend, OR 97709

Telephone: 541.241.2102 Email: derek@manwillSE.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): _____

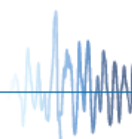
Testing Laboratory

Company Name: Element Materials Technology Minneapolis LLC (formerly Environ)

Contact Name: Alan Thompson

Mailing Address: 9725 Girard Avenue South, Minneapolis, MN 55431

Telephone: 952.888.7795 Email: alan.thompson@element.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) = 1.39 ($S_{DS} = 1.85g, z/h = 1$); 1.13 ($S_{DS} = 2.5g, z/h = 0$)

S_{DS} (Design spectral response acceleration at short period, g) = 1.85 ($z/h = 1$); 2.5 ($z/h = 0$)

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 ($S_{DS} = 1.85g$); 0 ($S_{DS} = 2.5g$)

Equipment or Component Natural Frequencies (Hz) = N/A (wall mounted)

Overall dimensions and weight (or range thereof) = See Attachments 1 & 2

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): Attachments 1 & 2

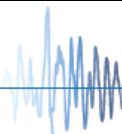
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature:  Date: March 7, 2017

Print Name: Timothy J. Piland Title: SSE

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

Condition of Approval (if applicable): _____



ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 1 - VFD & BYPASS

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
P2, P2/3, P4, P4/3, P6, P6/3 Variable Frequency Drives							
CI-001-P2	7.4	5.9	11.2	11	1HP, 200-230V	EXTRAP	
CI-001-P4	7.4	5.9	11.2	11	1HP, 380-480V	EXTRAP	
CI-002-P2	7.4	5.9	11.2	11	2HP, 200-230V	EXTRAP	
CI-002-P4	7.4	5.9	11.2	11	2HP, 380-480V	EXTRAP	
CI-003-P2	7.4	5.9	11.2	11	3HP, 200-230V	EXTRAP	
CI-003-P4	7.4	5.9	11.2	11	3HP, 380-480V	EXTRAP	
CI-005-P2	7.4	5.9	11.2	11	5HP, 200-230V	EXTRAP	
CI-005-P4	7.4	5.9	11.2	11	5HP, 380-480V	EXTRAP	
CI-007-P2	7.4	5.9	11.2	11	7.5HP, 200-230V	EXTRAP	
CI-007-P4	7.4	5.9	11.2	11	7.5HP, 380-480V	EXTRAP	
CI-010-P2	7.4	7.9	11.2	13	10HP, 200-230V	EXTRAP	
CI-010-P4	7.4	7.9	11.2	13	10HP, 380-480V	EXTRAP	
CI-015-P2	7.4	7.9	11.2	13	15HP, 200-230V	EXTRAP	
CI-015-P4	7.4	7.9	11.2	13	15HP, 480V, plastic & carbon steel	UUT 1 ⁽¹⁾	
CI-001-P6	7.4	7.9	14.0	16	1HP, 525-600V	INTERP	
CI-002-P6	7.4	7.9	14.0	16	2HP, 525-600V	INTERP	
CI-003-P6	7.4	7.9	14.0	16	3HP, 525-600V	INTERP	
CI-005-P6	7.4	7.9	14.0	16	5HP, 525-600V	INTERP	
CI-007-P6	7.4	7.9	14.0	16	7.5HP, 525-600V	INTERP	
CI-010-P6	7.4	7.9	14.0	16	10HP, 525-600V	INTERP	
CI-015-P6	7.4	7.9	14.0	16	15HP, 525-600V	INTERP	
CI-020-P2	7.9	9.8	15.2	30	20HP, 200-230V	INTERP	
CI-020-P4	7.9	9.8	15.2	30	20HP, 380-480V	INTERP	
CI-020-P6	7.9	9.8	15.2	30	20HP, 525-600V	INTERP	
CI-025-P2	7.9	9.8	15.2	30	25HP, 200-230V	INTERP	
CI-025-P4	7.9	9.8	15.2	30	25HP, 480V, plastic & carbon steel	UUT 2 ⁽¹⁾	
CI-025-P6	7.9	9.8	15.2	30	25HP, 525-600V	INTERP	
CI-030-P2	9.2	12.0	18.1	47	30HP, 200-230V	INTERP	
CI-030-P4	9.2	12.0	18.1	47	30HP, 380-480V	INTERP	
CI-030-P6	9.2	12.0	18.1	47	30HP, 525-600V	INTERP	
CI-040-P2	9.2	12.0	18.1	47	40HP, 200-230V	INTERP	
CI-040-P4	9.2	12.0	18.1	47	40HP, 480V, plastic & carbon steel	UUT 3 ⁽¹⁾	
CI-040-P6	9.2	12.0	18.1	47	40HP, 525-600V	INTERP	
CI-050-P4	10.5	11.8	21.0	60	50HP, 380-480V	INTERP	
CI-060-P4	10.5	11.8	21.0	60	60HP, 380-480V	INTERP	
CI-050-P6	11.5	11.8	21.0	69	50HP, 525-600V	INTERP	
CI-060-P6	11.5	11.8	21.0	69	60HP, 525-600V	INTERP	
CI-075-P4	11.5	11.8	21.0	69	75HP, 380-480V, carbon steel	UUT 4 ⁽¹⁾	
CI-075-P6	11.5	11.8	21.0	69	75HP, 525-600V	INTERP	
CI-100-P4	13.3	14.6	24.0	110	100HP, 380-480V	INTERP	
CI-100-P6	13.3	14.6	24.0	110	100HP, 525-600V	INTERP	
CI-125-P4	13.3	14.6	24.0	110	125HP, 380-480V, carbon steel	UUT 5 ⁽¹⁾	
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 1 - VFD & BYPASS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
P2, P2/3, P4, P4/3, P6, P6/3 Bypasses & EMB Bypasses							
CIE1-BYP001-P2	9.8	8	43.8	55	1HP, 4.2A, 200-230V	EXTRAP	
CIE1-BYP001-P2/3	9.8	8	43.8	55	1HP, 4.2A, 200-230V	EXTRAP	
CIE1-BYP001-P4	9.8	8	43.8	55	1HP, 2.1A, 380-480V	EXTRAP	
CIE1-BYP001-P4/3	9.8	8	43.8	55	1HP, 2.1A, 380-480V	EXTRAP	
CIE1-EMB001-P2	9.8	8	43.8	55	1HP, 4.2A, 200-230V	EXTRAP	
CIE1-EMB001-P2/3	9.8	8	43.8	55	1HP, 4.2A, 200-230V	EXTRAP	
CIE1-EMB001-P4	9.8	8	43.8	55	1HP, 2.1A, 380-480V	EXTRAP	
CIE1-EMB001-P4/3	9.8	8	43.8	55	1HP, 2.1A, 380-480V	EXTRAP	
CIE1-BYP002-P2	9.8	8	43.8	55	2HP, 6.8A, 200-230V	EXTRAP	
CIE1-BYP002-P2/3	9.8	8	43.8	55	2HP, 6.8A, 200-230V	EXTRAP	
CIE1-BYP002-P4	9.8	8	43.8	55	2HP, 3.4A, 380-480V	EXTRAP	
CIE1-BYP002-P4/3	9.8	8.0	43.8	55	2HP, 3.4A, 380-480V	EXTRAP	
CIE1-EMB002-P2	9.8	8.0	43.8	55	2HP, 6.8A, 200-230V	EXTRAP	
CIE1-EMB002-P2/3	9.8	8.0	43.8	55	2HP, 6.8A, 200-230V	EXTRAP	
CIE1-EMB002-P4	9.8	8.0	43.8	55	2HP, 3.4A, 380-480V	EXTRAP	
CIE1-EMB002-P4/3	9.8	8.0	43.8	55	2HP, 3.4A, 380-480V	EXTRAP	
CIE1-BYP003-P2	9.8	8.0	43.8	55	3HP, 9.6A, 200-230V	EXTRAP	
CIE1-BYP003-P2/3	9.8	8.0	43.8	55	3HP, 9.6A, 200-230V	EXTRAP	
CIE1-BYP003-P4	9.8	8.0	43.8	55	3HP, 4.8A, 380-480V	EXTRAP	
CIE1-BYP003-P4/3	9.8	8.0	43.8	55	3HP, 4.8A, 380-480V	EXTRAP	
CIE1-EMB003-P2	9.8	8.0	43.8	55	3HP, 9.6A, 200-230V	EXTRAP	
CIE1-EMB003-P2/3	9.8	8.0	43.8	55	3HP, 9.6A, 200-230V	EXTRAP	
CIE1-EMB003-P4	9.8	8.0	43.8	55	3HP, 4.8A, 380-480V	EXTRAP	
CIE1-EMB003-P4/3	9.8	8.0	43.8	55	3HP, 4.8A, 380-480V	EXTRAP	
CIE1-BYP005-P2	9.8	8.0	43.8	55	5HP, 15.2A, 200-230V	EXTRAP	
CIE1-BYP005-P2/3	9.8	8.0	43.8	55	5HP, 15.2A, 200-230V	EXTRAP	
CIE1-BYP005-P4	9.8	8.0	43.8	55	5HP, 7.6A, 380-480V	EXTRAP	
CIE1-BYP005-P4/3	9.8	8.0	43.8	55	5HP, 7.6A, 380-480V	EXTRAP	
CIE1-EMB005-P2	9.8	8.0	43.8	55	5HP, 15.2A, 200-230V	EXTRAP	
CIE1-EMB005-P2/3	9.8	8.0	43.8	55	5HP, 15.2A, 200-230V	EXTRAP	
CIE1-EMB005-P4	9.8	8.0	43.8	55	5HP, 7.6A, 380-480V	EXTRAP	
CIE1-EMB005-P4/3	9.8	8.0	43.8	55	5HP, 7.6A, 380-480V	EXTRAP	
CIE1-BYP007-P2	9.8	8.0	43.8	55	7.5HP, 22A, 200-230V	EXTRAP	
CIE1-BYP007-P2/3	9.8	8.0	43.8	55	7.5HP, 22A, 200-230V	EXTRAP	
CIE1-BYP007-P4	9.8	8.0	43.8	55	7.5HP, 11A, 380-480V	EXTRAP	
CIE1-BYP007-P4/3	9.8	8.0	43.8	55	7.5HP, 11A, 380-480V	EXTRAP	
CIE1-EMB007-P2	9.8	8.0	43.8	55	7.5HP, 22A, 200-230V	EXTRAP	
CIE1-EMB007-P2/3	9.8	8.0	43.8	55	7.5HP, 22A, 200-230V	EXTRAP	
CIE1-EMB007-P4	9.8	8.0	43.8	55	7.5HP, 11A, 380-480V	EXTRAP	
CIE1-EMB007-P4/3	9.8	8.0	43.8	55	7.5HP, 11A, 380-480V	EXTRAP	
CIE1-BYP010-P4	9.8	8.0	43.8	55	10HP, 14A, 380-480V	EXTRAP	
CIE1-BYP010-P4/3	9.8	8.0	43.8	55	10HP, 14A, 380-480V	EXTRAP	
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 1 - VFD & BYPASS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
P2, P2/3, P4, P4/3, P6, P6/3 Bypasses & EMB Bypasses (continued)							
CIE1-EMB010-P4	9.8	8.0	43.8	55	10HP, 14A, 380-480V	EXTRAP	
CIE1-EMB010-P4/3	9.8	8.0	43.8	55	10HP, 14A, 380-480V	EXTRAP	
CIE1-BYP015-P4	9.8	8.0	43.8	55	15HP, 21A, 380-480V	EXTRAP	
CIE1-BYP015-P4/3	9.8	8.0	43.8	55	15HP, 21A, 380-480V	EXTRAP	
CIE1-EMB015-P4	9.8	8.0	43.8	55	15HP, 21A, 380-480V	EXTRAP	
CIE1-EMB015-P4/3	9.8	8.0	43.8	55	15HP, 21A, 480V, plast. & carb. stl.	UUT 1	
CIE1-BYP001-P6	10.0	10.1	50.2	84	1HP, 1.7A, 525-600V	INTERP	
CIE1-BYP001-P6/3	10.0	10.1	50.2	84	1HP, 1.7A, 525-600V	INTERP	
CIE1-BYP002-P6	10.0	10.1	50.2	84	2HP, 2.7A, 525-600V	INTERP	
CIE1-BYP002-P6/3	10.0	10.1	50.2	84	2HP, 2.7A, 525-600V	INTERP	
CIE1-BYP003-P6	10.0	10.1	50.2	84	3HP, 3.9A, 525-600V	INTERP	
CIE1-BYP003-P6/3	10.0	10.1	50.2	84	3HP, 3.9A, 525-600V	INTERP	
CIE1-BYP005-P6	10.0	10.1	50.2	84	5HP, 6.1A, 525-600V	INTERP	
CIE1-BYP005-P6/3	10.0	10.1	50.2	84	5HP, 6.1A, 525-600V	INTERP	
CIE1-BYP007-P6	10.0	10.1	50.2	84	7.5HP, 9A, 525-600V	INTERP	
CIE1-BYP007-P6/3	10.0	10.1	50.2	84	7.5HP, 9A, 525-600V	INTERP	
CIE1-BYP010-P2	10.0	10.1	50.2	84	10HP, 28A, 200-230V	INTERP	
CIE1-BYP010-P2/3	10.0	10.1	50.2	84	10HP, 28A, 200-230V	INTERP	
CIE1-BYP010-P6	10.0	10.1	50.2	84	10HP, 11A, 525-600V	INTERP	
CIE1-BYP010-P6/3	10.0	10.1	50.2	84	10HP, 11A, 525-600V	INTERP	
CIE1-EMB010-P2	10.0	10.1	50.2	84	10HP, 28A, 200-230V	INTERP	
CIE1-EMB010-P2/3	10.0	10.1	50.2	84	10HP, 28A, 200-230V	INTERP	
CIE1-BYP015-P2	10.0	10.1	50.2	84	15HP, 42A, 200-230V	INTERP	
CIE1-BYP015-P2/3	10.0	10.1	50.2	84	15HP, 42A, 200-230V	INTERP	
CIE1-BYP015-P6	10.0	10.1	50.2	84	15HP, 17A, 525-600V	INTERP	
CIE1-BYP015-P6/3	10.0	10.1	50.2	84	15HP, 17A, 525-600V	INTERP	
CIE1-EMB015-P2	10.0	10.1	50.2	84	15HP, 42A, 200-230V	INTERP	
CIE1-EMB015-P2/3	10.0	10.1	50.2	84	15HP, 42A, 200-230V	INTERP	
CIE1-BYP020-P4	10.0	10.1	50.2	84	20HP, 27A, 380-480V	INTERP	
CIE1-BYP020-P4/3	10.0	10.1	50.2	84	20HP, 27A, 380-480V	INTERP	
CIE1-BYP020-P6	10.0	10.1	50.2	84	20HP, 22A, 525-600V	INTERP	
CIE1-BYP020-P6/3	10.0	10.1	50.2	84	20HP, 22A, 525-600V	INTERP	
CIE1-EMB020-P2	10.0	10.1	50.2	84	20HP, 54A, 200-230V	INTERP	
CIE1-EMB020-P2/3	10.0	10.1	50.2	84	20HP, 54A, 200-230V	INTERP	
CIE1-EMB020-P4	10.0	10.1	50.2	84	20HP, 27A, 380-480V	INTERP	
CIE1-EMB020-P4/3	10.0	10.1	50.2	84	20HP, 27A, 380-480V	INTERP	
CIE1-BYP025-P4	10.0	10.1	50.2	84	25HP, 34A, 380-480V	INTERP	
CIE1-BYP025-P4/3	10.0	10.1	50.2	84	25HP, 34A, 380-480V	INTERP	
CIE1-BYP025-P6	10.0	10.1	50.2	84	25HP, 27A, 525-600V	INTERP	
CIE1-BYP025-P6/3	10.0	10.1	50.2	84	25HP, 27A, 525-600V	INTERP	
CIE1-EMB025-P4	10.0	10.1	50.2	84	25HP, 34A, 380-480V	INTERP	
CIE1-EMB025-P4/3	10.0	10.1	50.2	84	25HP, 34A, 480V, plast. & carb. stl.	UUT 2	
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 1 - VFD & BYPASS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
P2, P2/3, P4, P4/3, P6, P6/3 Bypasses & EMB Bypasses (continued)							
CIE1-BYP020-P2	11.3	12.3	56.3	115	20HP, 54A, 200-230V	INTERP	
CIE1-BYP020-P2/3	11.3	12.3	56.3	115	20HP, 54A, 200-230V	INTERP	
CIE1-BYP025-P2	11.3	12.3	56.3	115	25HP, 68A, 200-230V	INTERP	
CIE1-BYP025-P2/3	11.3	12.3	56.3	115	25HP, 68A, 200-230V	INTERP	
CIE1-EMB025-P2	11.3	12.3	56.3	115	25HP, 68A, 200-230V	INTERP	
CIE1-EMB025-P2/3	11.3	12.3	56.3	115	25HP, 68A, 200-230V	INTERP	
CIE1-BYP030-P2	11.3	12.3	56.3	115	30HP, 80A, 200-230V	INTERP	
CIE1-BYP030-P2/3	11.3	12.3	56.3	115	30HP, 80A, 200-230V	INTERP	
CIE1-BYP030-P4	11.3	12.3	56.3	115	30HP, 40A, 380-480V	INTERP	
CIE1-BYP030-P4/3	11.3	12.3	56.3	115	30HP, 40A, 380-480V	INTERP	
CIE1-BYP030-P6	11.3	12.3	56.3	115	30HP, 32A, 525-600V	INTERP	
CIE1-BYP030-P6/3	11.3	12.3	56.3	115	30HP, 32A, 525-600V	INTERP	
CIE1-EMB030-P2	11.3	12.3	56.3	115	30HP, 80A, 200-230V	INTERP	
CIE1-EMB030-P2/3	11.3	12.3	56.3	115	30HP, 80A, 200-230V	INTERP	
CIE1-EMB030-P4	11.3	12.3	56.3	115	30HP, 40A, 380-480V	INTERP	
CIE1-EMB030-P4/3	11.3	12.3	56.3	115	30HP, 40A, 380-480V	INTERP	
CIE1-BYP040-P4	11.3	12.3	56.3	115	40HP, 52A, 380-480V	INTERP	
CIE1-BYP040-P4/3	11.3	12.3	56.3	115	40HP, 52A, 380-480V	INTERP	
CIE1-BYP040-P6	11.3	12.3	56.3	115	40HP, 41A, 525-600V	INTERP	
CIE1-BYP040-P6/3	11.3	12.3	56.3	115	40HP, 41A, 525-600V	INTERP	
CIE1-EMB040-P4	11.3	12.3	56.3	115	40HP, 52A, 380-480V	INTERP	
CIE1-EMB040-P4/3	11.3	12.3	56.3	115	40HP, 52A, 480V, plast. & carb. stl.	UUT 3	
CIE1-BYP040-P2	14.8	23.5	44.3	233	40HP, 104A, 200-230V	INTERP	
CIE1-BYP040-P2/3	14.8	23.5	44.3	233	40HP, 104A, 200-230V	INTERP	
CIE1-BYP050-P4	14.8	23.5	44.3	233	50HP, 65A, 380-480V	INTERP	
CIE1-BYP050-P4/3	14.8	23.5	44.3	233	50HP, 65A, 380-480V	INTERP	
CIE1-BYP050-P6	14.8	23.5	44.3	233	50HP, 52A, 525-600V	INTERP	
CIE1-BYP050-P6/3	14.8	23.5	44.3	233	50HP, 52A, 525-600V	INTERP	
CIE1-BYP060-P4	14.8	23.5	44.3	233	60HP, 77A, 380-480V	INTERP	
CIE1-BYP060-P4/3	14.8	23.5	44.3	233	60HP, 77A, 380-480V	INTERP	
CIE1-BYP060-P6	14.8	23.5	44.3	233	60HP, 62A, 525-600V	INTERP	
CIE1-BYP060-P6/3	14.8	23.5	44.3	233	60HP, 62A, 525-600V	INTERP	
CIE1-BYP075-P4	14.8	23.5	44.3	233	75HP, 96A, 380-480V	INTERP	
CIE1-BYP075-P4/3	14.8	23.5	44.3	233	75HP, 96A, 480V, carbon steel	UUT 4	
CIE1-BYP075-P6	14.8	23.5	44.3	233	75HP, 77A, 525-600V	INTERP	
CIE1-BYP075-P6/3	14.8	23.5	44.3	233	75HP, 77A, 525-600V	INTERP	
CIE1-BYP100-P4	16.7	33.0	50.0	368	100HP, 124A, 380-480V	INTERP	
CIE1-BYP100-P4/3	16.7	33.0	50.0	368	100HP, 124A, 380-480V	INTERP	
CIE1-BYP100-P6	16.7	33.0	50.0	368	100HP, 99A, 525-600V	INTERP	
CIE1-BYP100-P6/3	16.7	33.0	50.0	368	100HP, 99A, 525-600V	INTERP	
CIE1-BYP125-P4	16.7	33.0	50.0	368	125HP, 156A, 380-480V	INTERP	
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 1 - VFD & BYPASS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
P2, P2/3, P4, P4/3, P6, P6/3 Bypasses & EMB Bypasses (continued)							
CIE1-BYP125-P4/3	16.7	33.0	50.0	368	125HP, 156A, 480V, carbon steel	UUT 5	
CIE1-BYP125-P6	16.7	33.0	50.0	368	125HP, 125A, 525-600V	EXTRAP	
CIE1-BYP125-P6/3	16.7	33.0	50.0	368	125HP, 125A, 525-600V	EXTRAP	
MOUNTING:	Rigid wall mounted.			SEISMIC LEVELS:	$S_{DS} = 1.85g$ for $z/h = 1$ $S_{DS} = 2.5g$ for $z/h = 0$ $I_p = 1.5$		
NOTES:	<p>Product Construction: NEMA 1 plastic & carbon steel VFD enclosure or NEMA 1 carbon steel VFD enclosure; NEMA 1 carbon steel bypass enclosure.</p> <p>Options/Subcomponents: Enclosures may contain any combination of subcomponents listed in Table 3 to create a complete VFD or bypass.</p> <p>1. UUTs 1 - 5 include a VFD and bypass that are mounted on a back panel. VFDs may be installed on the back panel without the bypass.</p>						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - STARTERS

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
ISS, SAS, BAS, EMS, MSAC, MSSC, MCS Starters							
BAS1-18/P-G10-40	6.1	7.4	15.7	9.5	18A, 10A disconnect	EXTRAP	
BAS1-18/P-G13-40	6.1	7.4	15.7	9.5	18A, 13A disconnect	EXTRAP	
BAS1-18/P-G17-40	6.1	7.4	15.7	9.5	18A, 17A disconnect	EXTRAP	
BAS1-18/P-G1.6-40	6.1	7.4	15.7	9.5	18A, 1.6A disconnect	EXTRAP	
BAS1-18/P-G2.5-40	6.1	7.4	15.7	9.5	18A, 2.5A disconnect	EXTRAP	
BAS1-18/P-G4-40	6.1	7.4	15.7	9.5	18A, 4A disconnect	EXTRAP	
BAS1-18/P-G6-40	6.1	7.4	15.7	9.5	18A, 6A disconnect	EXTRAP	
BAS1-18/P-G8-40	6.1	7.4	15.7	9.5	18A, 8A disconnect	EXTRAP	
BAS1-32/P-G10-40	6.1	7.4	15.7	9.5	32A, 10A disconnect	EXTRAP	
BAS1-32/P-G13-40	6.1	7.4	15.7	9.5	32A, 13A disconnect	EXTRAP	
BAS1-32/P-G17-40	6.1	7.4	15.7	9.5	32A, 17A disconnect	EXTRAP	
BAS1-32/P-G1.6-40	6.1	7.4	15.7	9.5	32A, 1.6A disconnect	EXTRAP	
BAS1-32/P-G22-40	6.1	7.4	15.7	9.5	32A, 22A disconnect	EXTRAP	
BAS1-32/P-G26-40	6.1	7.4	15.7	9.5	32A, 26A disconnect	EXTRAP	
BAS1-32/P-G2.5-40	6.1	7.4	15.7	9.5	32A, 2.5A disconnect	EXTRAP	
BAS1-32/P-G32-40	6.1	7.4	15.7	9.5	32A, 32A disconnect	EXTRAP	
BAS1-32/P-G4-40	6.1	7.4	15.7	9.5	32A, 4A disconnect	EXTRAP	
BAS1-32/P-G6-40	6.1	7.4	15.7	9.5	32A, 6A disconnect	EXTRAP	
BAS1-32/P-G8-40	6.1	7.4	15.7	9.5	32A, 8A disconnect	EXTRAP	
BAS1-40/P-G40-40	6.1	7.4	15.7	9.5	40A, 40A d., plastic & carbon steel	UUT 6	
BAS1-9/P-G1.6-40	6.1	7.4	15.7	9.5	9A, 1.6A disconnect	INTERP	
BAS1-9/P-G2.5-40	6.1	7.4	15.7	9.5	9A, 2.5A disconnect	INTERP	
BAS1-9/P-G4-40	6.1	7.4	15.7	9.5	9A, 4A disconnect	INTERP	
BAS1-9/P-G6-40	6.1	7.4	15.7	9.5	9A, 6A disconnect	INTERP	
BAS1-9/P-G8-40	6.1	7.4	15.7	9.5	9A, 8A disconnect	INTERP	
BAS1-18/P-40	6.1	7.4	15.7	9.5	18A	INTERP	
BAS1-32/P-40	6.1	7.4	15.7	9.5	32A	INTERP	
BAS1-40/P-40	6.1	7.4	15.7	9.5	40A	INTERP	
BAS1-9/P-40	6.1	7.4	15.7	9.5	9A	INTERP	
ISS1-18/P-G10-40	6.1	7.4	15.7	9.5	18A, 10A disconnect	INTERP	
ISS1-18/P-G13-40	6.1	7.4	15.7	9.5	18A, 13A disconnect	INTERP	
ISS1-18/P-G17-40	6.1	7.4	15.7	9.5	18A, 17A disconnect	INTERP	
ISS1-18/P-G8-40	6.1	7.4	15.7	9.5	18A, 8A disconnect	INTERP	
ISS1-32/P-G22-40	6.1	7.4	15.7	9.5	32A, 22A disconnect	INTERP	
ISS1-32/P-G26-40	6.1	7.4	15.7	9.5	32A, 26A disconnect	INTERP	
ISS1-32/P-G32-40	6.1	7.4	15.7	9.5	32A, 32A disconnect	INTERP	
ISS1-40/P-G40-40	6.1	7.4	15.7	9.5	40A, 40A disconnect	INTERP	
ISS1-40/1P-G10-40	6.1	7.4	15.7	9.5	40A, 10A disconnect	INTERP	
ISS1-9/P-G1.6-40	6.1	7.4	15.7	9.5	9A, 1.6A disconnect	INTERP	
ISS1-9/P-G2.5-40	6.1	7.4	15.7	9.5	9A, 2.5A disconnect	INTERP	
ISS1-9/P-G4-40	6.1	7.4	15.7	9.5	9A, 4A disconnect	INTERP	
ISS1-9/P-G6-40	6.1	7.4	15.7	9.5	9A, 6A disconnect	INTERP	

NOTES: Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - STARTERS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
ISS, SAS, BAS, EMS, MSAC, MSSC, MCS Starters (continued)							
ISS1-9/P-G8-40	6.1	7.4	15.7	9.5	9A, 8A disconnect	INTERP	
ISS1-18/P-40	6.1	7.4	15.7	9.5	18A	INTERP	
ISS1-32/P-40	6.1	7.4	15.7	9.5	32A	INTERP	
ISS1-40/P-40	6.1	7.4	15.7	9.5	40A	INTERP	
ISS1-40/1P-40	6.1	7.4	15.7	9.5	40A	INTERP	
ISS1-9/P-40	6.1	7.4	15.7	9.5	9A	INTERP	
ISS1-18/P-G10-40/G	6.1	7.4	15.7	9.5	18A, 10A disconnect	INTERP	
ISS1-18/P-G13-40/G	6.1	7.4	15.7	9.5	18A, 13A disconnect	INTERP	
ISS1-18/P-G17-40/G	6.1	7.4	15.7	9.5	18A, 17A disconnect	INTERP	
ISS1-32/P-G22-40/G	6.1	7.4	15.7	9.5	32A, 22A disconnect	INTERP	
ISS1-32/P-G26-40/G	6.1	7.4	15.7	9.5	32A, 26A disconnect	INTERP	
ISS1-32/P-G32-40/G	6.1	7.4	15.7	9.5	32A, 32A disconnect	INTERP	
ISS1-40/P-G40-40/G	6.1	7.4	15.7	9.5	40A, 40A disconnect	INTERP	
ISS1-9/P-G1.6-40/G	6.1	7.4	15.7	9.5	9A, 1.6A disconnect	INTERP	
ISS1-9/P-G2.5-40/G	6.1	7.4	15.7	9.5	9A, 2.5A disconnect	INTERP	
ISS1-9/P-G4-40/G	6.1	7.4	15.7	9.5	9A, 4A disconnect	INTERP	
ISS1-9/P-G6-40/G	6.1	7.4	15.7	9.5	9A, 6A disconnect	INTERP	
ISS1-9/P-G8-40/G	6.1	7.4	15.7	9.5	9A, 8A disconnect	INTERP	
ISS1-18/P-40/G	6.1	7.4	15.7	9.5	18A	INTERP	
ISS1-32/P-40/G	6.1	7.4	15.7	9.5	32A	INTERP	
ISS1-40/P-40/G	6.1	7.4	15.7	9.5	40A	INTERP	
ISS1-9/P-40/G	6.1	7.4	15.7	9.5	9A	INTERP	
SAS1-18/L-G10-40	6.1	7.4	15.7	9.5	18A, 10A disconnect	INTERP	
SAS1-18/L-G13-40	6.1	7.4	15.7	9.5	18A, 13A disconnect	INTERP	
SAS1-18/L-G17-40	6.1	7.4	15.7	9.5	18A, 17A disconnect	INTERP	
SAS1-18/L-G1.6-40	6.1	7.4	15.7	9.5	18A, 1.6A disconnect	INTERP	
SAS1-18/L-G2.5-40	6.1	7.4	15.7	9.5	18A, 2.5A disconnect	INTERP	
SAS1-18/L-G4-40	6.1	7.4	15.7	9.5	18A, 4A disconnect	INTERP	
SAS1-18/L-G6-40	6.1	7.4	15.7	9.5	18A, 6A disconnect	INTERP	
SAS1-18/L-G8-40	6.1	7.4	15.7	9.5	18A, 8A disconnect	INTERP	
SAS1-32/L-G10-40	6.1	7.4	15.7	9.5	32A, 10A disconnect	INTERP	
SAS1-32/L-G13-40	6.1	7.4	15.7	9.5	32A, 13A disconnect	INTERP	
SAS1-32/L-G17-40	6.1	7.4	15.7	9.5	32A, 17A disconnect	INTERP	
SAS1-32/L-G1.6-40	6.1	7.4	15.7	9.5	32A, 1.6A disconnect	INTERP	
SAS1-32/L-G22-40	6.1	7.4	15.7	9.5	32A, 22A disconnect	INTERP	
SAS1-32/L-G26-40	6.1	7.4	15.7	9.5	32A, 26A disconnect	INTERP	
SAS1-32/L-G2.5-40	6.1	7.4	15.7	9.5	32A, 2.5A disconnect	INTERP	
SAS1-32/L-G32-40	6.1	7.4	15.7	9.5	32A, 32A disconnect	INTERP	
SAS1-32/L-G4-40	6.1	7.4	15.7	9.5	32A, 4A disconnect	INTERP	
SAS1-32/L-G6-40	6.1	7.4	15.7	9.5	32A, 6A disconnect	INTERP	
SAS1-32/L-G8-40	6.1	7.4	15.7	9.5	32A, 8A disconnect	INTERP	
SAS1-40/L-G40-40	6.1	7.4	15.7	9.5	40A, 40A disconnect	INTERP	
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - STARTERS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
ISS, SAS, BAS, EMS, MSAC, MSSC, MCS Starters (continued)							
SAS1-9/L-G1.6-40	6.1	7.4	15.7	9.5	9A, 1.6A disconnect	INTERP	
SAS1-9/L-G2.5-40	6.1	7.4	15.7	9.5	9A, 2.5A disconnect	INTERP	
SAS1-9/L-G4-40	6.1	7.4	15.7	9.5	9A, 4A disconnect	INTERP	
SAS1-9/L-G6-40	6.1	7.4	15.7	9.5	9A, 6A disconnect	INTERP	
SAS1-9/L-G8-40	6.1	7.4	15.7	9.5	9A, 8A disconnect	INTERP	
SAS1-18/L-40	6.1	7.4	15.7	9.5	18A	INTERP	
SAS1-32/L-40	6.1	7.4	15.7	9.5	32A	INTERP	
SAS1-40/L-40	6.1	7.4	15.7	9.5	40A	INTERP	
SAS1-9/L-40	6.1	7.4	15.7	9.5	9A	INTERP	
ISS3R-40/P-G40-40	6.4	7.6	13.6	12	40A, 40A disconnect	INTERP	
ISS3R-40/P-40	6.4	7.6	13.6	12	40A	INTERP	
SAS3R-40/L-G40-40	6.4	7.6	13.6	12	40A, 40A disconnect	INTERP	
SAS3R-40/L-40	6.4	7.6	13.6	12	40A	INTERP	
BAS3R-40/P-G40-40	6.4	7.6	13.6	12	40A, 40A d., carbon steel	UUT 7	
BAS3R-40/P-40	6.4	7.6	13.6	12	40A	INTERP	
MSAC3R-40/J-G40-40	6.4	7.6	13.6	12	40A, 40A disconnect	INTERP	
MSAC3R-40/J-40	6.4	7.6	13.6	12	40A	INTERP	
MSSC3R-40/J-G40-40	6.4	7.6	13.6	12	40A, 40A disconnect	INTERP	
MSSC3R-40/J-40	6.4	7.6	13.6	12	40A	INTERP	
SAS3R-32/L-G32-40	6.4	7.6	13.6	12	32A, 32A disconnect	INTERP	
SAS3R-32/L-40	6.4	7.6	13.6	12	32A	INTERP	
BAS3R-32/P-G32-40	6.4	7.6	13.6	12	32A, 32A disconnect	INTERP	
BAS3R-32/P-40	6.4	7.6	13.6	12	32A	INTERP	
MSAC3R-32/J-G32-40	6.4	7.6	13.6	12	32A, 32A disconnect	INTERP	
MSAC3R-32/J-40	6.4	7.6	13.6	12	32A	INTERP	
MSSC3R-32/J-G32-40	6.4	7.6	13.6	12	32A, 32A disconnect	INTERP	
MSSC3R-32/J-40	6.4	7.6	13.6	12	32A	INTERP	
ISS3R-32/P-G32-40	6.4	7.6	13.6	12	32A, 32A disconnect	INTERP	
ISS3R-32/P-40	6.4	7.6	13.6	12	32A	INTERP	
ISS3R-32/P-G26-40	6.4	7.6	13.6	12	32A, 26A disconnect	INTERP	
SAS3R-32/L-G26-40	6.4	7.6	13.6	12	32A, 26A disconnect	INTERP	
BAS3R-32/P-G26-40	6.4	7.6	13.6	12	32A, 26A disconnect	INTERP	
MSAC3R-32/J-G26-40	6.4	7.6	13.6	12	32A, 26A disconnect	INTERP	
MSSC3R-32/J-G26-40	6.4	7.6	13.6	12	32A, 26A disconnect	INTERP	
ISS3R-32/P-G22-40	6.4	7.6	13.6	12	32A, 22A disconnect	INTERP	
ISS3R-18/P-40	6.4	7.6	13.6	12	18A	INTERP	
SAS3R-32/L-G22-40	6.4	7.6	13.6	12	32A, 22A disconnect	INTERP	
BAS3R-32/P-G22-40	6.4	7.6	13.6	12	32A, 22A disconnect	INTERP	
MSAC3R-32/J-G22-40	6.4	7.6	13.6	12	32A, 22A disconnect	INTERP	
MSSC3R-32/J-G22-40	6.4	7.6	13.6	12	32A, 22A disconnect	INTERP	
SAS3R-18/L-40	6.4	7.6	13.6	12	18A	INTERP	
BAS3R-18/P-40	6.4	7.6	13.6	12	18A	INTERP	
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - STARTERS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
ISS, SAS, BAS, EMS, MSAC, MSSC, MCS Starters (continued)							
MSAC3R-18/J-40	6.4	7.6	13.6	12	18A	INTERP	
MSSC3R-18/J-40	6.4	7.6	13.6	12	18A	INTERP	
ISS3R-18/P-G17-40	6.4	7.6	13.6	12	18A, 17A disconnect	INTERP	
SAS3R-18/L-G17-40	6.4	7.6	13.6	12	18A, 17A disconnect	INTERP	
SAS3R-32/L-G17-40	6.4	7.6	13.6	12	32A, 17A disconnect	INTERP	
BAS3R-18/P-G17-40	6.4	7.6	13.6	12	18A, 17A disconnect	INTERP	
MSAC3R-18/J-G17-40	6.4	7.6	13.6	12	18A, 17A disconnect	INTERP	
MSAC3R-32/J-G17-40	6.4	7.6	13.6	12	32A, 17A disconnect	INTERP	
MSSC3R-18/J-G17-40	6.4	7.6	13.6	12	18A, 17A disconnect	INTERP	
MSSC3R-32/J-G17-40	6.4	7.6	13.6	12	32A, 17A disconnect	INTERP	
ISS3R-18/P-G13-40	6.4	7.6	13.6	12	18A, 13A disconnect	INTERP	
ISS3R-18/P-G13-40	6.4	7.6	13.6	12	18A, 13A disconnect	INTERP	
SAS3R-18/L-G13-40	6.4	7.6	13.6	12	18A, 13A disconnect	INTERP	
BAS3R-18/P-G13-40	6.4	7.6	13.6	12	18A, 13A disconnect	INTERP	
MSAC3R-18/J-G13-40	6.4	7.6	13.6	12	18A, 13A disconnect	INTERP	
MSAC3R-32/J-G13-40	6.4	7.6	13.6	12	32A, 13A disconnect	INTERP	
MSSC3R-18/J-G13-40	6.4	7.6	13.6	12	18A, 13A disconnect	INTERP	
MSSC3R-32/J-G13-40	6.4	7.6	13.6	12	32A, 13A disconnect	INTERP	
ISS3R-18/P-G10-40	6.4	7.6	13.6	12	18A, 10A disconnect	INTERP	
SAS3R-18/L-G10-40	6.4	7.6	13.6	12	18A, 10A disconnect	INTERP	
BAS3R-18/P-G10-40	6.4	7.6	13.6	12	18A, 10A disconnect	INTERP	
MSAC3R-18/J-G10-40	6.4	7.6	13.6	12	18A, 10A disconnect	INTERP	
MSSC3R-18/J-G10-40	6.4	7.6	13.6	12	18A, 10A disconnect	INTERP	
ISS3R-9/P-40	6.4	7.6	13.6	12	9A	INTERP	
SAS3R-9/L-40	6.4	7.6	13.6	12	9A	INTERP	
BAS3R-9/P-40	6.4	7.6	13.6	12	9A	INTERP	
MSAC3R-9/J-40	6.4	7.6	13.6	12	9A	INTERP	
MSSC3R-9/J-40	6.4	7.6	13.6	12	9A	INTERP	
ISS3R-9/P-G8-40	6.4	7.6	13.6	12	9A, 8A disconnect	INTERP	
SAS3R-18/L-G8-40	6.4	7.6	13.6	12	18A, 8A disconnect	INTERP	
SAS3R-9/L-G8-40	6.4	7.6	13.6	12	9A, 8A disconnect	INTERP	
BAS3R-18/P-G8-40	6.4	7.6	13.6	12	18A, 8A disconnect	INTERP	
BAS3R-32/P-G8-40	6.4	7.6	13.6	12	32A, 8A disconnect	INTERP	
BAS3R-9/P-G8-40	6.4	7.6	13.6	12	9A, 8A disconnect	INTERP	
MSAC3R-32/J-G8-40	6.4	7.6	13.6	12	32A, 8A disconnect	INTERP	
MSAC3R-9/J-G8-40	6.4	7.6	13.6	12	9A, 8A disconnect	INTERP	
MSSC3R-18/J-G8-40	6.4	7.6	13.6	12	18A, 8A disconnect	INTERP	
MSSC3R-32/J-G8-40	6.4	7.6	13.6	12	32A, 8A disconnect	INTERP	
MSSC3R-9/J-G8-40	6.4	7.6	13.6	12	9A, 8A disconnect	INTERP	
ISS3R-9/P-G6-40	6.4	7.6	13.6	12	9A, 6A disconnect	INTERP	
SAS3R-18/L-G6-40	6.4	7.6	13.6	12	18A, 6A disconnect	INTERP	
SAS3R-9/L-G6-40	6.4	7.6	13.6	12	9A, 6A disconnect	INTERP	

NOTES: Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - STARTERS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
ISS, SAS, BAS, EMS, MSAC, MSSC, MCS Starters (continued)							
BAS3R-18/P-G6-40	6.4	7.6	13.6	12	18A, 6A disconnect	INTERP	
BAS3R-9/P-G6-40	6.4	7.6	13.6	12	9A, 6A disconnect	INTERP	
MSAC3R-18/J-G6-40	6.4	7.6	13.6	12	18A, 6A disconnect	INTERP	
MSAC3R-32/J-G6-40	6.4	7.6	13.6	12	32A, 6A disconnect	INTERP	
MSAC3R-9/J-G6-40	6.4	7.6	13.6	12	9A, 6A disconnect	INTERP	
MSSC3R-18/J-G6-40	6.4	7.6	13.6	12	18A, 6A disconnect	INTERP	
MSSC3R-32/J-G6-40	6.4	7.6	13.6	12	32A, 6A disconnect	INTERP	
MSSC3R-9/J-G6-40	6.4	7.6	13.6	12	9A, 6A disconnect	INTERP	
ISS3R-9/P-G4-40	6.4	7.6	13.6	12	9A, 4A disconnect	INTERP	
SAS3R-18/L-G4-40	6.4	7.6	13.6	12	18A, 4A disconnect	INTERP	
SAS3R-9/L-G4-40	6.4	7.6	13.6	12	9A, 4A disconnect	INTERP	
BAS3R-18/P-G4-40	6.4	7.6	13.6	12	18A, 4A disconnect	INTERP	
BAS3R-9/P-G4-40	6.4	7.6	13.6	12	9A, 4A disconnect	INTERP	
MSAC3R-32/J-G4-40	6.4	7.6	13.6	12	32A, 4A disconnect	INTERP	
MSAC3R-9/J-G4-40	6.4	7.6	13.6	12	9A, 4A disconnect	INTERP	
MSSC3R-18/J-G4-40	6.4	7.6	13.6	12	18A, 4A disconnect	INTERP	
MSSC3R-32/J-G4-40	6.4	7.6	13.6	12	32A, 4A disconnect	INTERP	
MSSC3R-9/J-G4-40	6.4	7.6	13.6	12	9A, 4A disconnect	INTERP	
ISS3R-9/P-G2.5-40	6.4	7.6	13.6	12	9A, 2.5A disconnect	INTERP	
SAS3R-18/L-G2.5-40	6.4	7.6	13.6	12	18A, 2.5A disconnect	INTERP	
SAS3R-9/L-G2.5-40	6.4	7.6	13.6	12	9A, 2.5A disconnect	INTERP	
BAS3R-18/P-G2.5-40	6.4	7.6	13.6	12	18A, 2.5A disconnect	INTERP	
BAS3R-9/P-G2.5-40	6.4	7.6	13.6	12	9A, 2.5A disconnect	INTERP	
MSAC3R-32/J-G2.5-40	6.4	7.6	13.6	12	32A, 2.5A disconnect	INTERP	
MSAC3R-9/J-G2.5-40	6.4	7.6	13.6	12	9A, 2.5A disconnect	INTERP	
MSSC3R-18/J-G2.5-40	6.4	7.6	13.6	12	18A, 2.5A disconnect	INTERP	
MSSC3R-32/J-G2.5-40	6.4	7.6	13.6	12	32A, 2.5A disconnect	INTERP	
MSSC3R-9/J-G2.5-40	6.4	7.6	13.6	12	9A, 2.5A disconnect	INTERP	
ISS3R-9/P-G1.6-40	6.4	7.6	13.6	12	9A, 1.6A disconnect	INTERP	
SAS3R-18/L-G1.6-40	6.4	7.6	13.6	12	18A, 1.6A disconnect	INTERP	
SAS3R-9/L-G1.6-40	6.4	7.6	13.6	12	9A, 1.6A disconnect	INTERP	
BAS3R-18/P-G1.6-40	6.4	7.6	13.6	12	18A, 1.6A disconnect	INTERP	
BAS3R-9/P-G1.6-40	6.4	7.6	13.6	12	9A, 1.6A disconnect	INTERP	
MSAC3R-32/J-G1.6-40	6.4	7.6	13.6	12	32A, 1.6A disconnect	INTERP	
MSAC3R-9/J-G1.6-40	6.4	7.6	13.6	12	9A, 1.6A disconnect	INTERP	
MSSC3R-32/J-G1.6-40	6.4	7.6	13.6	12	32A, 1.6A disconnect	INTERP	
MSSC3R-9/J-G1.6-40	6.4	7.6	13.6	12	9A, 1.6A disconnect	INTERP	
EMS1-9/J-G1.6-9	6.1	7.4	15.7	13	9A, 1.6A disconnect	INTERP	
EMS1-32/J-G1.6-32	6.1	7.4	15.7	13	32A, 1.6A disconnect	INTERP	
EMS1-18/J-G1.6-18	6.1	7.4	15.7	13	18A, 1.6A disconnect	INTERP	
EMS1-9/J-G2.5-9	6.1	7.4	15.7	13	9A, 2.5A disconnect	INTERP	
EMS1-32/J-G2.5-32	6.1	7.4	15.7	13	32A, 2.5A disconnect	INTERP	
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - STARTERS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS					
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS					
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS	
	DEPTH	WIDTH	HEIGHT				
ISS, SAS, BAS, EMS, MSAC, MSSC, MCS Starters (continued)							
EMS1-18/J-G2.5-18	6.1	7.4	15.7	13	18A, 2.5A disconnect	INTERP	
EMS1-9/J-G4-9	6.1	7.4	15.7	13	9A, 4A disconnect	INTERP	
EMS1-32/J-G4-32	6.1	7.4	15.7	13	32A, 4A disconnect	INTERP	
EMS1-18/J-G4-18	6.1	7.4	15.7	13	18A, 4A disconnect	INTERP	
EMS1-9/J-G6-9	6.1	7.4	15.7	13	9A, 6A disconnect	INTERP	
EMS1-32/J-G6-32	6.1	7.4	15.7	13	32A, 6A disconnect	INTERP	
EMS1-18/J-G6-18	6.1	7.4	15.7	13	18A, 6A disconnect	INTERP	
EMS1-9/J-G8-9	6.1	7.4	15.7	13	9A, 8A disconnect	INTERP	
EMS1-32/J-G8-32	6.1	7.4	15.7	13	32A, 8A disconnect	INTERP	
EMS1-18/J-G8-18	6.1	7.4	15.7	13	18A, 8A disconnect	INTERP	
EMS1-9/J-9	6.1	7.4	15.7	13	9A	INTERP	
EMS1-32/J-G10-32	6.1	7.4	15.7	13	32A, 10A disconnect	INTERP	
EMS1-18/J-G10-18	6.1	7.4	15.7	13	18A, 10A disconnect	INTERP	
EMS1-32/J-G13-32	6.1	7.4	15.7	13	32A, 13A disconnect	INTERP	
EMS1-18/J-G13-18	6.1	7.4	15.7	13	18A, 13A disconnect	INTERP	
EMS1-32/J-G17-32	6.1	7.4	15.7	13	32A, 17A disconnect	INTERP	
EMS1-18/J-G17-18	6.1	7.4	15.7	13	18A, 17A disconnect	INTERP	
EMS1-18/J-18	6.1	7.4	15.7	13	18A	INTERP	
EMS1-32/J-G22-32	6.1	7.4	15.7	13	32A, 22A disconnect	INTERP	
EMS1-32/J-G26-32	6.1	7.4	15.7	13	32A, 26A d., plastic & carbon steel	UUT 8	
EMS1-32/J-G32-32	6.1	7.4	15.7	13	32A, 32A disconnect	INTERP	
EMS1-32/J-32	6.1	7.4	15.7	13	32A	INTERP	
MCS3R-2S-50/J-G40	10.1	15.0	32.1	57	50A, 40A disconnect	INTERP	
MCS3R-2S-50/J-G50	10.1	15.0	32.1	57	50A, 50A d., carbon steel	UUT 9	
MCS3R-2S-85/J-G63	10.1	15.0	32.1	57	85A, 63A disconnect	EXTRAP	
MCS3R-2S-85/J-G75	10.1	15.0	32.1	57	85A, 75A disconnect	EXTRAP	
MCS3R-2S-85/J-G90	10.1	15.0	32.1	57	85A, 90A disconnect	EXTRAP	
MOUNTING:	Rigid wall mounted.			SEISMIC LEVELS:	$S_{DS} = 1.85g$ for $z/h = 1$ $S_{DS} = 2.5g$ for $z/h = 0$ $I_p = 1.5$		
NOTES:	Product Construction: NEMA 1 plastic & carbon steel enclosure or NEMA 3R carbon steel enclosure. Options/Subcomponents: Enclosures may contain any combination of subcomponents listed in Table 3 to create a complete starter.						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 3 - SUBCOMPONENTS

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS				
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
LSIS - Manual Motor Starter						
CMS-32HI-.16	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-.25	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-.4	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-.63	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-1	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-1.6	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-2.5	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-4	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-6	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-8	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-10	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-13	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-17	3.4	1.8	3.9	0.7		EXTRAP
CMS-32HI-22	3.4	1.8	3.9	0.7		UUT 1
CMS-32HI-26	3.4	1.8	3.9	0.7		UUT 8
CMS-32HI-32	3.4	1.8	3.9	0.7		INTERP
CMS-32HI-40	3.4	1.8	3.9	0.7		UUT 2, 6, 7
CMS-63HI-10	5.1	2.2	5.5	2.1		INTERP
CMS-63HI-13	5.1	2.2	5.5	2.1		INTERP
CMS-63HI-17	5.1	2.2	5.5	2.1		INTERP
CMS-63HI-22	5.1	2.2	5.5	2.1		INTERP
CMS-63HI-26	5.1	2.2	5.5	2.1		INTERP
CMS-63HI-32	5.1	2.2	5.5	2.1		INTERP
CMS-63HI-40	5.1	2.2	5.5	2.1		INTERP
CMS-63HI-50	5.1	2.2	5.5	2.1		UUT 9
CMS-63HI-63	5.1	2.2	5.5	2.1		UUT 3
CMS-100HI-17	6.2	2.8	6.5	4.7		INTERP
CMS-100HI-22	6.2	2.8	6.5	4.7		INTERP
CMS-100HI-26	6.2	2.8	6.5	4.7		INTERP
CMS-100HI-32	6.2	2.8	6.5	4.7		INTERP
CMS-100HI-40	6.2	2.8	6.5	4.7		INTERP
CMS-100HI-50	6.2	2.8	6.5	4.7		INTERP
CMS-100HI-75	6.2	2.8	6.5	4.7		INTERP
CMS-100HI-90	6.2	2.8	6.5	4.7		INTERP
CMS-100HI-100	6.2	2.8	6.5	4.7		UUT 4
LSIS - Contactors						
MRC-9B-120V	3.4	1.8	2.9	0.8		EXTRAP
MRC-9B-208V	3.4	1.8	2.9	0.8		EXTRAP
MRC-9B-220V	3.4	1.8	2.9	0.8		EXTRAP
MRC-9B-240V	3.4	1.8	2.9	0.8		EXTRAP
MRC-9B-24V	3.4	1.8	2.9	0.8		EXTRAP
MRC-9B-277V	3.4	1.8	2.9	0.8		EXTRAP
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.					

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 3 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS				
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
LSIS - Contactors (continued)						
MRC-9B-380V	3.4	1.8	2.9	0.8		EXTRAP
MRC-9B-480V	3.4	1.8	2.9	0.8		EXTRAP
MRC-9B-48V	3.4	1.8	2.9	0.8		EXTRAP
MRC-9B-600V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-120V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-208V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-220V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-240V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-24V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-277V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-380V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-480V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-48V	3.4	1.8	2.9	0.8		EXTRAP
MRC-12B-600V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-120V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-208V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-220V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-240V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-24V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-277V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-380V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-480V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-48V	3.4	1.8	2.9	0.8		EXTRAP
MRC-18B-600V	3.4	1.8	2.9	0.8		EXTRAP
MRC-22B-120V	3.4	1.8	2.9	0.8		EXTRAP
MRC-22B-208V	3.4	1.8	2.9	0.8		EXTRAP
MRC-22B-220V	3.4	1.8	2.9	0.8		EXTRAP
MRC-22B-240V	3.4	1.8	2.9	0.8		EXTRAP
MRC-22B-24V	3.4	1.8	2.9	0.8		UUT 1
MRC-22B-277V	3.4	1.8	2.9	0.8		INTERP
MRC-22B-380V	3.4	1.8	2.9	0.8		INTERP
MRC-22B-480V	3.4	1.8	2.9	0.8		INTERP
MRC-22B-48V	3.4	1.8	2.9	0.8		INTERP
MRC-22B-600V	3.4	1.8	2.9	0.8		INTERP
MRC-32A-120V	3.5	2.2	3.3	1.1		INTERP
MRC-32A-208V	3.5	2.2	3.3	1.1		INTERP
MRC-32A-220V	3.5	2.2	3.3	1.1		INTERP
MRC-32A-240V	3.5	2.2	3.3	1.1		INTERP
MRC-32A-24V	3.5	2.2	3.3	1.1		UUT 8
MRC-32A-277V	3.5	2.2	3.3	1.1		INTERP
MRC-32A-380V	3.5	2.2	3.3	1.1		INTERP
MRC-32A-480V	3.5	2.2	3.3	1.1		INTERP
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.					

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 3 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS				
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
LSIS - Contactors (continued)						
MRC-32A-48V	3.5	2.2	3.3	1.1		INTERP
MRC-32A-600V	3.5	2.2	3.3	1.1		INTERP
MRC-40A-120V	3.5	2.2	3.3	1.1		INTERP
MRC-40A-208V	3.5	2.2	3.3	1.1		INTERP
MRC-40A-220V	3.5	2.2	3.3	1.1		INTERP
MRC-40A-240V	3.5	2.2	3.3	1.1		INTERP
MRC-40A-24V	3.5	2.2	3.3	1.1		UUT 2, 6, 7
MRC-40A-277V	3.5	2.2	3.3	1.1		INTERP
MRC-40A-380V	3.5	2.2	3.3	1.1		INTERP
MRC-40A-480V	3.5	2.2	3.3	1.1		INTERP
MRC-40A-48V	3.5	2.2	3.3	1.1		INTERP
MRC-40A-600V	3.5	2.2	3.3	1.1		INTERP
MRC-50LA-120V	4.7	2.6	4.2	1.9		INTERP
MRC-50LA-208V	4.7	2.6	4.2	1.9		INTERP
MRC-50LA-220V	4.7	2.6	4.2	1.9		INTERP
MRC-50LA-240V	4.7	2.6	4.2	1.9		INTERP
MRC-50LA-24V	4.7	2.6	4.2	1.9		UUT 3, 9
MRC-50LA-277V	4.7	2.6	4.2	1.9		INTERP
MRC-50LA-480V	4.7	2.6	4.2	1.9		INTERP
MRC-50LA-600V	4.7	2.6	4.2	1.9		INTERP
MRC-63L-220V	4.7	2.6	4.2	1.9		INTERP
MRC-65LA-120V	4.7	2.6	4.2	1.9		INTERP
MRC-65LA-208V	4.7	2.6	4.2	1.9		INTERP
MRC-65LA-220V	4.7	2.6	4.2	1.9		INTERP
MRC-65LA-240V	4.7	2.6	4.2	1.9		INTERP
MRC-65LA-24V	4.7	2.6	4.2	1.9		INTERP
MRC-65LA-277V	4.7	2.6	4.2	1.9		INTERP
MRC-65LA-480V	4.7	2.6	4.2	1.9		INTERP
MRC-65LA-600V	4.7	2.6	4.2	1.9		INTERP
MRC-75LA-120V	5.3	2.7	5.5	3.6		INTERP
MRC-75LA-208V	5.3	2.7	5.5	3.6		INTERP
MRC-75LA-220V	5.3	2.7	5.5	3.6		INTERP
MRC-75LA-240V	5.3	2.7	5.5	3.6		INTERP
MRC-75LA-24V	5.3	2.7	5.5	3.6		INTERP
MRC-75LA-277V	5.3	2.7	5.5	3.6		INTERP
MRC-75LA-480V	5.3	2.7	5.5	3.6		INTERP
MRC-75LA-600V	5.3	2.7	5.5	3.6		INTERP
MRC-85LA-120V	5.3	2.7	5.5	3.6		INTERP
MRC-85LA-208V	5.3	2.7	5.5	3.6		INTERP
MRC-85LA-220V	5.3	2.7	5.5	3.6		INTERP
MRC-85LA-240V	5.3	2.7	5.5	3.6		INTERP
MRC-85LA-24V	5.3	2.7	5.5	3.6		INTERP
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.					

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 3 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS				
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
LSIS - Contactors (continued)						
MRC-85LA-277V	5.3	2.7	5.5	3.6		INTERP
MRC-85LA-480V	5.3	2.7	5.5	3.6		INTERP
MRC-85LA-600V	5.3	2.7	5.5	3.6		INTERP
MRC-100LA-120V	5.3	2.7	5.5	3.6		INTERP
MRC-100LA-208V	5.3	2.7	5.5	3.6		INTERP
MRC-100LA-220V	5.3	2.7	5.5	3.6		INTERP
MRC-100LA-240V	5.3	2.7	5.5	3.6		INTERP
MRC-100LA-24V	5.3	2.7	5.5	3.6		INTERP
MRC-100LA-277V	5.3	2.7	5.5	3.6		INTERP
MRC-100LA-480V	5.3	2.7	5.5	3.6		INTERP
MRC-100LA-48V	5.3	2.7	5.5	3.6		INTERP
MRC-100LA-600V	5.3	2.7	5.5	3.6		INTERP
MRC-130LA-120V	5.1	4.2	6.2	4.9		INTERP
MRC-130LA-220V	5.1	4.2	6.2	4.9		INTERP
MRC-130LA-24V	5.1	4.2	6.2	4.9		UUT 4
MRC-130LA-300V	5.1	4.2	6.2	4.9		INTERP
MRC-130LA-400V	5.1	4.2	6.2	4.9		INTERP
MRC-130LA-48V	5.1	4.2	6.2	4.9		INTERP
MRC-130LA-500V	5.1	4.2	6.2	4.9		INTERP
MRC-150LA-120V	5.1	4.2	6.2	4.9		INTERP
MRC-150LA-220V	5.1	4.2	6.2	4.9		INTERP
MRC-150LA-24V	5.1	4.2	6.2	4.9		INTERP
MRC-150LA-300V	5.1	4.2	6.2	4.9		INTERP
MRC-150LA-400V	5.1	4.2	6.2	4.9		INTERP
MRC-150LA-48V	5.1	4.2	6.2	4.9		INTERP
MRC-150LA-500V	5.1	4.2	6.2	4.9		INTERP
MRC-185A-100V	7.2	5.4	8.0	11		UUT 5
MRC-185A-24V	7.2	5.4	8.0	11		EXTRAP
MRC-185A-300V	7.2	5.4	8.0	11		EXTRAP
MRC-185A-400V	7.2	5.4	8.0	11		EXTRAP
MRC-185A-48V	7.2	5.4	8.0	11		EXTRAP
MRC-185A-500V	7.2	5.4	8.0	11		EXTRAP
LSIS - Mini Circuit Breakers						
CI-MCB-D/1P-1A	2.6	0.7	3.2	0.3		EXTRAP
CI-MCB-D/1P-2A	2.6	0.7	3.2	0.3		UUT 4
CI-MCB-D/1P-3A	2.6	0.7	3.2	0.3		UUT 5
CI-MCB-D/2P-1A	2.6	1.4	3.2	0.5		UUT 1-3
CI-MCB-D/2P-2A	2.6	1.4	3.2	0.5		UUT 4, 5
LSIS - Mechanical Interlocks						
MA-1	2.7	0.5	2.8	0.1		UUT 1-4
AR-180	3.3	1.9	2.4	0.2		UUT 5
NOTES:	Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.					

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 3 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS				
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
D-Squared - Transformers						
5051G	3.1	2.5	3.9	2.7		EXTRAP
5061MWCB	3.1	2.5	3.9	2.7		UUT 9
7561MWCB	3.1	2.5	4.3	3.5		UUT 1-3
10051G	3.1	2.5	4.7	4.3		INTERP
10061MWCB	3.1	2.5	4.7	4.3		UUT 4
Micron - Transformer						
B200BTZ13JKF	3.8	4.4	4.5	8.7		UUT 5
LSIS - Thermal Overload						
MTK-32/3-0.16	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-0.25	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-0.4	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-0.63	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-1	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-10	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-13	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-18	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-1.6	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-22	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-25	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-2.5	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-32	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-4	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-40	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-6	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-8	3.4	1.8	2.9	0.4		EXTRAP
MTK-32/3-9	3.4	1.8	2.9	0.4		EXTRAP
MTK-63/3-10L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-13L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-18L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-22L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-25L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-36L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-40L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-50L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-6L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-65L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-8L	3.8	2.2	3.2	0.7		EXTRAP
MTK-63/3-9L	3.8	2.2	3.2	0.7		EXTRAP
MTK-95/3-10L	4.2	2.8	3.8	1.1		EXTRAP
MTK-95/3-100L	4.2	2.8	3.8	1.1		UUT 4
MTK-95/3-13L	4.2	2.8	3.8	1.1		INTERP
MTK-95/3-18L	4.2	2.8	3.8	1.1		INTERP
NOTES:		Table continues on the next page. Additional notes, information and seismic parameters are shown at the end of the table.				

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 3 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
PRODUCT FAMILY:		VARIABLE FREQUENCY DRIVES, BYPASSES, & STARTERS				
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
LSIS - Thermal Overload (continued)						
MTK-95/3-22L	4.2	2.8	3.8	1.1		INTERP
MTK-95/3-25L	4.2	2.8	3.8	1.1		INTERP
MTK-95/3-36L	4.2	2.8	3.8	1.1		INTERP
MTK-95/3-40L	4.2	2.8	3.8	1.1		INTERP
MTK-95/3-50L	4.2	2.8	3.8	1.1		INTERP
MTK-95/3-65L	4.2	2.8	3.8	1.1		INTERP
MTK-95/3-75L	4.2	2.8	3.8	1.1		INTERP
MTK-95/3-85L	4.2	2.8	3.8	1.1		INTERP
MTK-95/3-95L	4.2	2.8	3.8	1.1		INTERP
MTK-150/3-105L	4.3	3.7	4.3	1.5		INTERP
MTK-150/3-130L	4.3	3.7	4.3	1.5		INTERP
MTK-150/3-150L	4.3	3.7	4.3	1.5		INTERP
MTK-150/3-50L	4.3	3.7	4.3	1.5		INTERP
MTK-150/3-65L	4.3	3.7	4.3	1.5		INTERP
MTK-150/3-75L	4.3	3.7	4.3	1.5		INTERP
MTK-150/3-85L	4.3	3.7	4.3	1.5		INTERP
MTK-225/3-100	7.2	5.7	5.5	5.1		INTERP
MTK-225/3-125	7.2	5.7	5.5	5.1		INTERP
MTK-225/3-160	7.2	5.7	5.5	5.1		INTERP
MTK-225/3-185	7.2	5.7	5.5	5.1		UUT 5
MTK-225/3-240	7.2	5.7	5.5	5.1		EXTRAP
Franklin Control Systems - Rogue Overload Module						
RG23	5.1	4.2	5.0	1.1		UUT 6, 7
MOUNTING:	Mounted within unit.			SEISMIC LEVELS:	$S_{DS} = 1.85g$ for $z/h = 1$ $S_{DS} = 2.5g$ for $z/h = 0$	$I_p = 1.5$
NOTES:	Product Construction/Options: Model number uniquely identifies manufacturer, materials and configuration of subcomponents					

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 1

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
MODEL NUMBER:		CIE1-EMB015-P4/3				
UNIT FUNCTION:		VFD & BYPASS				
SERIAL NUMBER:		55033290007				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
9.8	8.0	43.8	55	N/A	N/A	N/A
BUILDING CODE		TEST CRITERIA		LAB REPORT NO.		
2016 CBC		ICC-ES AC156		ELEMENT 46938-1		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
1.85	1	2.96	2.22	1.68	0.68	
2.5	0					
IMPORTANCE FACTOR, I_p = 1.5						
Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.						
MOUNTING:		Rigid wall mounted using (4) 5/16" Grade 8 bolts.				
CONSTRUCTION:		NEMA 1 plastic & carbon steel VFD enclosure; NEMA 1 carbon steel bypass enclosure.				
SUBCOMPONENTS		Franklin Control Systems - VFD (CI-015-P4), LSIS - MMS (CMS-32HI-22), LSIS - contactor (MRC-22B-24V), LSIS - mini circuit breaker (CI-MCB-D/2P-1A), LSIS - mechanical interlock (MA-1), D-Squared - transformer (7561MWCB)				
TESTING NOTES:		N/A				



UUT 2

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
MODEL NUMBER:		CIE1-EMB025-P4/3				
UNIT FUNCTION:		VFD & BYPASS				
SERIAL NUMBER:		55039050627				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
10.0	10.1	50.2	84	N/A	N/A	N/A
BUILDING CODE		TEST CRITERIA		LAB REPORT NO.		
2016 CBC		ICC-ES AC156		ELEMENT 46938-1		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
1.85	1	2.96	2.22	1.68	0.68	
2.5	0					
IMPORTANCE FACTOR, I_p = 1.5						
Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.						
MOUNTING:		Rigid wall mounted using (4) 5/16" Grade 8 bolts.				
CONSTRUCTION:		NEMA 1 plastic & carbon steel VFD enclosure; NEMA 1 carbon steel bypass enclosure.				
SUBCOMPONENTS		Franklin Control Systems - VFD (CI-025-P4), LSIS - MMS (CMS-32HI-40), LSIS - contactor (MRC-40A-24V), LSIS - mini circuit breaker (CI-MCB-D/2P-1A), LSIS - mechanical interlock (MA-1), D-Squared - transformer (7561MWCB)				
TESTING NOTES:		N/A				



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 3

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
MODEL NUMBER:		CIE1-EMB040-P4/3				
UNIT FUNCTION:		VFD & BYPASS				
SERIAL NUMBER:		55034210101				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
11.3	12.3	56.3	115	N/A	N/A	N/A
BUILDING CODE		TEST CRITERIA		LAB REPORT NO.		
2016 CBC		ICC-ES AC156		ELEMENT 46938-1		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
1.85	1	2.96	2.22	1.68	0.68	
2.5	0					
IMPORTANCE FACTOR, I_p = 1.5						
Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.						
MOUNTING:		Rigid wall mounted using (4) 5/16" Grade 8 bolts.				
CONSTRUCTION:		NEMA 1 plastic & carbon steel VFD enclosure; NEMA 1 carbon steel bypass enclosure.				
SUBCOMPONENTS		Franklin Control Systems - VFD (CI-040-P4), LSIS - MMS (CMS-63HI-63), LSIS - contactor (MRC-50LA-24V), LSIS - mini circuit breaker (CI-MCB-D/2P-1A), LSIS - mechanical interlock (MA-1), D-Squared - transformer (7561MWCB)				
TESTING NOTES:		N/A				



UUT 4

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
MODEL NUMBER:		CIE1-BYP075-P4/3				
UNIT FUNCTION:		VFD & BYPASS				
SERIAL NUMBER:		550340200A0				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
14.8	23.5	44.3	233	N/A	N/A	N/A
BUILDING CODE		TEST CRITERIA		LAB REPORT NO.		
2016 CBC		ICC-ES AC156		ELEMENT 46938-1		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
1.85	1	2.96	2.22	1.68	0.68	
2.5	0					
IMPORTANCE FACTOR, I_p = 1.5						
Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.						
MOUNTING:		Rigid wall mounted using (4) 5/16" Grade 8 bolts.				
CONSTRUCTION:		NEMA 1 carbon steel VFD enclosure; NEMA 1 carbon steel bypass enclosure.				
SUBCOMPONENTS		Franklin Control Systems - VFD (CI-075-P4), LSIS - MMS (CMS-100HI-100), LSIS - contactor (MRC-130LA-24V), LSIS - mini circuit breakers (CI-MCB-D/1P-2A & CI-MCB-D/2P-2A), LSIS - mechanical interlock (MA-1), D-Squared - transformer (10061MWCB), LSIS - thermal overload (MTK-95/3-100L)				
TESTING NOTES:		N/A				



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 5

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
MODEL NUMBER:		CIE1-BYP125-P4/3				
UNIT FUNCTION:		VFD & BYPASS				
SERIAL NUMBER:		550330601CD				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
16.7	33.0	50.0	368	N/A	N/A	N/A
BUILDING CODE		TEST CRITERIA		LAB REPORT NO.		
2016 CBC		ICC-ES AC156		ELEMENT 46938-1		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
1.85	1	2.96	2.22	1.68	0.68	
2.5	0					
IMPORTANCE FACTOR, I_p = 1.5						
Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.						
MOUNTING:		Rigid wall mounted using (4) 5/16" Grade 8 bolts.				
CONSTRUCTION:		NEMA 1 carbon steel VFD enclosure; NEMA 1 carbon steel bypass enclosure.				
SUBCOMPONENTS		Franklin Control Systems - VFD (CI-125-P4), LSIS - contactor (MRC-185A-100V), LSIS - mini circuit breakers (CI-MCB-D/1P-2A & CI-MCB-D/2P-2A), LSIS - mechanical interlock (AR-180), Micron - transformer (B200BTZ13JKF), LSIS - thermal overload (MTK-225/3-185)				
TESTING NOTES:		N/A				



UUT 6

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
MODEL NUMBER:		BAS1-40/P-G40-40				
UNIT FUNCTION:		STARTER				
SERIAL NUMBER:		N/A				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
6.1	7.4	15.7	9.5	N/A	N/A	N/A
BUILDING CODE		TEST CRITERIA		LAB REPORT NO.		
2016 CBC		ICC-ES AC156		ELEMENT 46938-1		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.44	1	3.90	2.93	1.68	0.68	
2.5	0					
IMPORTANCE FACTOR, I_p = 1.5						
Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.						
MOUNTING:		Rigid wall mounted using (4) 5/16" Grade 8 bolts.				
CONSTRUCTION:		NEMA 1 plastic & carbon steel enclosure.				
SUBCOMPONENTS		LSIS - MMS (CMS-32HI-40), LSIS - contactor (MRC-40A-24V), Franklin Control Systems - overload module (RG23)				
TESTING NOTES:		N/A				



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 7

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
MODEL NUMBER:		BAS3R-40/P-G40-40				
UNIT FUNCTION:		STARTER				
SERIAL NUMBER:		N/A				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
6.4	7.6	13.6	12	N/A	N/A	N/A
BUILDING CODE		TEST CRITERIA		LAB REPORT NO.		
2016 CBC		ICC-ES AC156		ELEMENT 46938-1		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.44	1	3.90	2.93	1.68	0.68	
2.5	0					
IMPORTANCE FACTOR, I_p = 1.5						
Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.						
MOUNTING:		Rigid wall mounted using (4) 5/16" Grade 8 bolts.				
CONSTRUCTION:		NEMA 3R carbon steel enclosure.				
SUBCOMPONENTS		LSIS - MMS (CMS-32HI-40), LSIS - contactor (MRC-40A-24V), Franklin Control Systems - overload module (RG23)				
TESTING NOTES:		N/A				



UUT 8

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
MODEL NUMBER:		EMS1-32/J-G26-32				
UNIT FUNCTION:		STARTER				
SERIAL NUMBER:		N/A				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
6.1	7.4	15.7	13	N/A	N/A	N/A
BUILDING CODE		TEST CRITERIA		LAB REPORT NO.		
2016 CBC		ICC-ES AC156		ELEMENT 46938-1		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.44	1	3.90	2.93	1.68	0.68	
2.5	0					
IMPORTANCE FACTOR, I_p = 1.5						
Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.						
MOUNTING:		Rigid wall mounted using (4) 5/16" Grade 8 bolts.				
CONSTRUCTION:		NEMA 1 plastic & carbon steel enclosure.				
SUBCOMPONENTS		LSIS - MMS (CMS-32HI-26), LSIS - contactor (MRC-32A-24V)				
TESTING NOTES:		N/A				



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 9

DOCUMENT NO.: 17022CR1.0

MANUFACTURER:		FRANKLIN CONTROL SYSTEMS				
MODEL NUMBER:		MCS3R-2S-50/J-G50				
UNIT FUNCTION:		STARTER				
SERIAL NUMBER:		N/A				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
10.1	15.0	32.1	57	N/A	N/A	N/A
BUILDING CODE		TEST CRITERIA		LAB REPORT NO.		
2016 CBC		ICC-ES AC156		ELEMENT 46938-1		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.44	1	3.90	2.93	1.68	0.68	
2.5	0					
IMPORTANCE FACTOR, I_p = 1.5						
Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.						
MOUNTING:		Rigid wall mounted using (4) 5/16" Grade 8 bolts.				
CONSTRUCTION:		NEMA 3R carbon steel enclosure.				
SUBCOMPONENTS		LSIS - MMS (CMS-63HI-50), LSIS - contactor (MRC-50LA-24V), D-Squared - transformer (5061MWCB)				
TESTING NOTES:		N/A				

