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YASKAWA

CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-49850-01C (REVISION 0)

Expiration Date: 3/31/2018

Certification Parameters:

The nonstructural products (mechanical and/or electrical components) listed on this certificate are CERTIFIED[1] FOR SEISMIC APPLICATIONS in accordance with the following building code[2] releases.

IBC 2006, IBC 2009, IBC 2012

The following model designations, options, and accessories are included in this certification. Reference report number **VMA-49850-01** as issued by The VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

Yaskawa 1000 Series Variable Frequency Drives

The above referenced equipment is **APPROVED** for seismic application when properly installed,[3] used as intended, and contains a Seismic Certification Label referencing this Certificate of Compliance[4]. As limited by the tabulated values, below grade, grade, and roof-level installations, installations in essential facilities, for life safety applications, and/or of equipment containing hazardous contents are permitted and included in this certification with an Equipment Importance Factor assigned as I_P=1.5.

Certified Seismic Design Levels	
S_{DS} <= 2.00 g	S_{DS} <= 2.00 g
z/h <= 0.0 (Equipment at Grade)	z/h <= 1.0 (Equipment on Roof)
Soil Classes A, B, C, D, Seismic Risk Category I, II, III, IV, and Seismic Design Categories A, B, C, D, E, and F are all covered under this certification, limited by the S_{DS} value stated above.	

Certified Seismic Installation Methods	
Directly to rigid wall	Directly to non-structural wall

Shake Test of Active and Energized Components, Non-Active Components, and Equipment Structure:

> Qualified by successful seismic shake table testing at the nationally recognized Dynamic Certification Laboratories under the witness of the Certified Seismic Qualification Agency, The VMC Group. Testing was conducted in accordance with ICC-ES AC-156 to envelope the required response spectrum (RRS) of maximum horizontal flexible acceleration (A_{FLEX}) of 3.20 g and a rigid acceleration (A_{RIG}) of 2.40 g. This test level corresponds to an S_{DS} = 2.00 g with a z/h of 1.0. Functionality was verified before and after the shake test.

Basis of Design for Supports and Attachments to the Building:

> For calculations and analysis of the equipment attachment to the building structure, the equivalent static force method was employed using the Seismic Design Acceleration, F_P/W_P,[5] for Load Resistance Factored Design (LRFD) methods. This includes but is not limited to the unit anchoring requirements and external isolation calculations.

Seismic Design Acceleration Equation, $F_P/W_P = 0.4 \times (S_{DS}=2.00\ g) \times (I_P=1.5) \times (a_P/R_P=1.25) \times (1+2(z/h=1.0)) = 4.50\ g$

a_P/R_P is representative of the worst-case shake tested condition, as determined from Table 13.6-1 in ASCE/SEI7-05/10.

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Certified Product Table:

Table 1: A1000 & P1000 Series Standard VFDs (Industrial AC Drives)

Standard Drive Model	Output Current Rating	Nominal HP	Rated Input Voltage	Standard Drive Frame Size	Mounting Method
CIMR-AU2AXXX CIMR-PU2AXXX	0360	150	208V	12	Wall Mounted
CIMR-AU2AXXX CIMR-PU2AXXX	0415	175	208V	12	
CIMR-AU5AXXX CIMR-PU5AXXX	0192	200	600V	12	
CIMR-AU4AXXX CIMR-PU4AXXX	0250	200	480V	12	
CIMR-AU5AXXX CIMR-PU5AXXX	0242	250	600V	12	
CIMR-AU4AXXX CIMR-PU4AXXX	0296	250	480V	12	
CIMR-AU4AXXX CIMR-PU4AXXX	0362	300	480V	12	
CIMR-AU4AXXX CIMR-PU4AXXX	0414	350	480V	13	
CIMR-AU4AXXX CIMR-PU4AXXX	0515	400 & 450	480V	14	
CIMR-AU4AXXX CIMR-PU4AXXX	0675	500 & 600	480V	14	

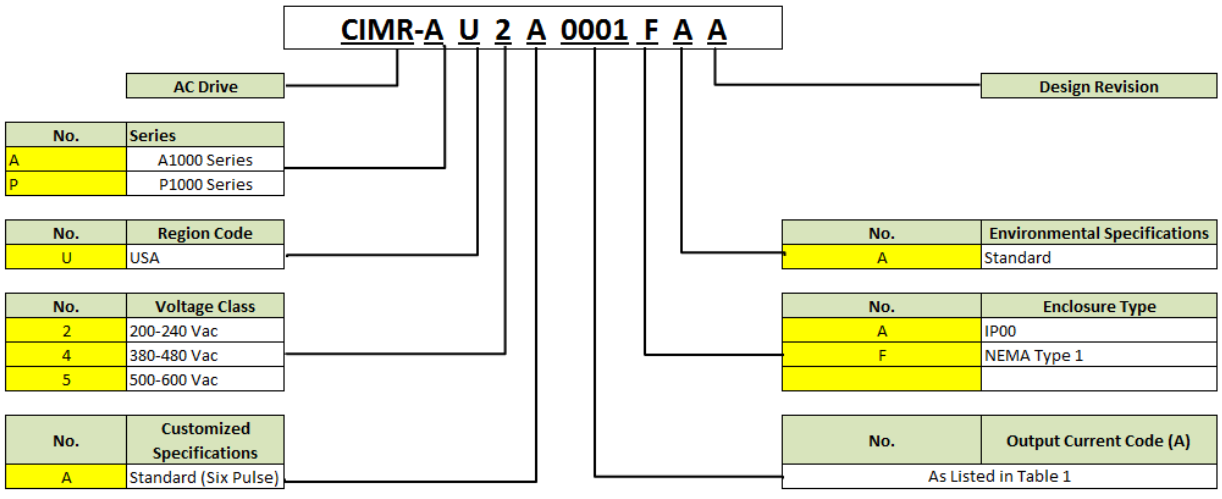

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Table 2: Z1000 Series Standard VFDs (Commercial HVAC Drives)

Standard Drive Model	Output Current Rating	Nominal HP	Rated Input Voltage	Standard Drive Frame Size	Mounting Method
CIMR-ZU4AXXX	0005	3	480V	1	
CIMR-ZU2AXXX	0011	3	208V	1	
CIMR-ZU4AXXX	0008	5	480V	1	
CIMR-ZU2AXXX	0017	5	208V	1	
CIMR-ZU4AXXX	0011	7.5	480V	1	
CIMR-ZU2AXXX	0024	7.5	208V	2	
CIMR-ZU4AXXX	0014	10	480V	2	
CIMR-ZU2AXXX	0031	10	208V	2	
CIMR-ZU4AXXX	0021	15	480V	2	
CIMR-ZU2AXXX	0046	15	208V	3	
CIMR-ZU4AXXX	0027	20	480V	2	
CIMR-ZU2AXXX	0059	20	208V	3	
CIMR-ZU4AXXX	0034	25	480V	3	
CIMR-ZU2AXXX	0075	25	208V	4	
CIMR-ZU4AXXX	0040	30	480V	3	
CIMR-ZU2AXXX	0088	30	208V	4	
CIMR-ZU4AXXX	0052	40	480V	3	
CIMR-ZU2AXXX	0114	40	208V	4	
CIMR-ZU4AXXX	0065	50	480V	4	Wall Mounted
CIMR-ZU2AXXX	0143	50	208V	6	
CIMR-ZU4AXXX	0077	60	480V	4	
CIMR-ZU2AXXX	0169	60	208V	6	
CIMR-ZU4AXXX	0096	75	480V	4	
CIMR-ZU2AXXX	0211	75	208V	6	
CIMR-ZU4AXXX	0124	100	480V	5	
CIMR-ZU2AXXX	0273	100	208V	6	
CIMR-ZU4AXXX	0156	125	480V	6	
CIMR-ZU2AXXX	0343	125	208V	8	
CIMR-ZU4AXXX	0180	150	480V	6	
CIMR-ZU2AXXX	0396	150	208V	8	
CIMR-ZU4AXXX	0240	200	480V	6	
CIMR-ZU4AXXX	0302	250	480V	7	
CIMR-ZU4AXXX	0361	300	480V	8	
CIMR-ZU4AXXX	0414	350	480V	9	
CIMR-ZU4AXXX	0480	400	480V	10	
CIMR-ZU4AXXX	0515	450	480V	10	
CIMR-ZU4AXXX	0590	500	480V	10	

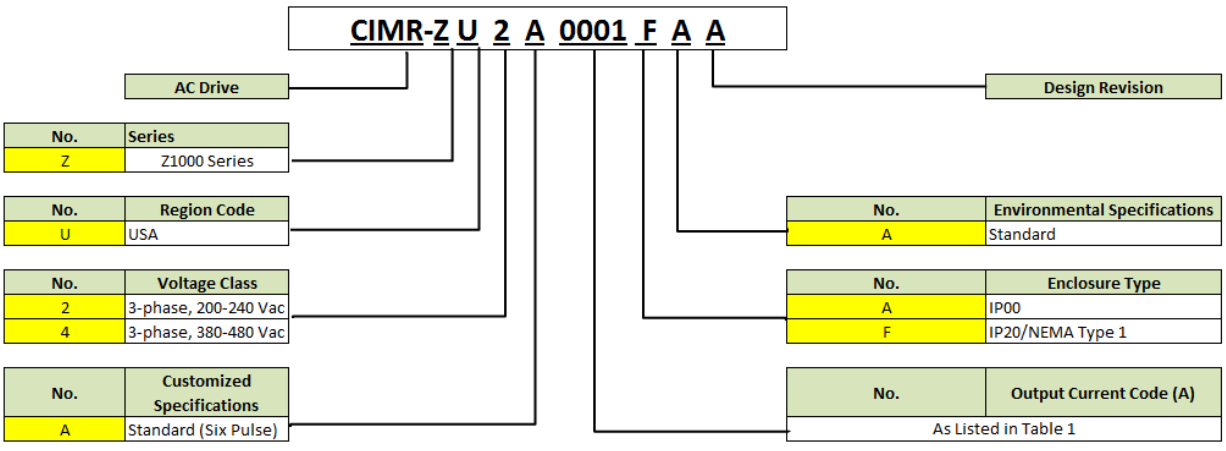

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Table 3: Z1000 Series Wall Mounted Bypass (Commercial HVAC Drives)

Drive Model	Output Current Rating	Nominal HP	Rated Input Voltage	Cabinet Size	NEMA Rating	Power Options	Control Options	Mounting Method
Z1B3B001	1.1 / 1.6	0.5 / 0.75	480V	B3W1	Type 3R	PXXXXXX	TXXX	Wall Mounted
Z1B3D002	2.4	0.5	208V	B3W1		PXXXXXX	TXXX	
Z1B3D003	3.5	0.75	208V	B3W1		PXXXXXX	TXXX	
Z1B3D004	4.6	1	208V	B3W1		PXXXXXX	TXXX	
Z1B3B002	2.1	1	480V	B3W1		PXXXXXX	TXXX	
Z1B3D007	7.5	2	208V	B3W1		PXXXXXX	TXXX	
Z1B3B003	3.4	2	480V	B3W1		PXXXXXX	TXXX	
Z1B3D010	10.6	3	208V	B3W1		PXXXXXX	TXXX	
Z1B3B004	4.8	3	480V	B3W1		PXXXXXX	TXXX	
Z1B3D016	16.7	5	208V	B3W1		PXXXXXX	TXXX	
Z1B3B007	7.6	5	480V	B3W1		PXXXXXX	TXXX	
Z1B3D016	16.7	5	208V	B3W2		PXXXXXX	TXXX	
Z1B3B011	11.0	7.5	480V	B3W1		PXXXXXX	TXXX	
Z1B3D024	24.2	7.5	208V	B3W2		PXXXXXX	TXXX	
Z1B3B011	11.0	7.5	480V	B3W2		PXXXXXX	TXXX	
Z1B3D030	30.8	10	208V	B3W2		PXXXXXX	TXXX	
Z1B3B014	14.0	10	480V	B3W2		PXXXXXX	TXXX	
Z1B3D030	30.8	10	208V	B3W3		PXXXXXX	TXXX	
Z1B3B021	21.0	15	480V	B3W2		PXXXXXX	TXXX	
Z1B3D046	46.2	15	208V	B3W3		PXXXXXX	TXXX	
Z1B3B027	27.0	20	480V	B3W2		PXXXXXX	TXXX	
Z1B3D059	59.4	20	208V	B3W3		PXXXXXX	TXXX	
Z1B3B027	27.0	20	480V	B3W3		PXXXXXX	TXXX	
Z1B3D074	74.8	25	208V	B3W3		PXXXXXX	TXXX	
Z1B3B034	34.0	25	480V	B3W3		PXXXXXX	TXXX	
Z1B3D074	74.8	25	208V	B3W4		PXXXXXX	TXXX	
Z1B3B040	40.0	30	480V	B3W3		PXXXXXX	TXXX	
Z1B3D088	88.0	30	208V	B3W4		PXXXXXX	TXXX	
Z1B3B052	52.0	40	480V	B3W3		PXXXXXX	TXXX	
Z1B3B52L	52.0	40	480V	B3W3		PXXXXXX	TXXX	
Z1B3D114	114.0	40	208V	B3W4		PXXXXXX	TXXX	
Z1B3B065	65.0	50	480V	B3W4		PXXXXXX	TXXX	
Z1B3B077	77.0	60	480V	B3W4		PXXXXXX	TXXX	
Z1B3B096	96.0	75	480V	B3W4		PXXXXXX	TXXX	
Z1B3B124	124.0	100	480V	B3W4		PXXXXXX	TXXX	

NEMA 3R Power (P) Options

F	Input Fuses	Choose One or None
A	Two Motor "AND"	Choose One or None
Y	Two Motor "OR"	
K	Output Reactor	
R	Input Reactor	
N	Noise Filter	Choose One or None
2	Surge Suppressor	Choose None, Any or All
3	Space Heater	
4	50 Degree C	Choose One or None

NEMA 3R Control (T) Options

W	Custom Namplate	Choose One or None
D	Ethernet/IP	Choose One or None
L	LonWorks	
M	Keypad Viewing Window	Choose One or None

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Table 4: Z1000 Series – Wall Mounted Configured VFDs (Commercial HVAC Drives)

Drive Model	Output Current Rating	Nominal HP	Rated Input Voltage	Cabinet Size	NEMA Rating	Power Options	Control Options	Mounting Method
Z1C3B001	1.1 / 1.6	0.5 / 0.75	480V	C3W1	Type 3R	PXXXXXXX	TXXXXX	Wall Mounted
Z1C3D002	2.4	0.5	208V	C3W1		PXXXXXXX	TXXXXX	
Z1C3D003	3.5	0.75	208V	C3W1		PXXXXXXX	TXXXXX	
Z1C3D004	4.6	1	208V	C3W1		PXXXXXXX	TXXXXX	
Z1C3B002	2.1	1	480V	C3W1		PXXXXXXX	TXXXXX	
Z1C3D007	7.5	2	208V	C3W1		PXXXXXXX	TXXXXX	
Z1C3B003	3.4	2	480V	C3W1		PXXXXXXX	TXXXXX	
Z1C3D010	10.6	3	208V	C3W1		PXXXXXXX	TXXXXX	
Z1C3B004	4.8	3	480V	C3W1		PXXXXXXX	TXXXXX	
Z1C3D016	16.7	5	208V	C3W1		PXXXXXXX	TXXXXX	
Z1C3B007	7.6	5	480V	C3W1		PXXXXXXX	TXXXXX	
Z1C3D016	16.7	5	208V	C3W2		PXXXXXXX	TXXXXX	
Z1C3B011	11.0	7.5	480V	C3W1		PXXXXXXX	TXXXXX	
Z1C3D024	24.2	7.5	208V	C3W2		PXXXXXXX	TXXXXX	
Z1C3B011	11.0	7.5	480V	C3W2		PXXXXXXX	TXXXXX	
Z1C3D030	30.8	10	208V	C3W2		PXXXXXXX	TXXXXX	
Z1C3B014	14.0	10	480V	C3W2		PXXXXXXX	TXXXXX	
Z1C3D030	30.8	10	208V	C3W3		PXXXXXXX	TXXXXX	
Z1C3B021	21.0	15	480V	C3W2		PXXXXXXX	TXXXXX	
Z1C3D046	46.2	15	208V	C3W3		PXXXXXXX	TXXXXX	
Z1C3B027	27.0	20	480V	C3W2		PXXXXXXX	TXXXXX	
Z1C3D059	59.4	20	208V	C3W3		PXXXXXXX	TXXXXX	
Z1C3B027	27.0	20	480V	C3W3		PXXXXXXX	TXXXXX	
Z1C3D074	74.8	25	208V	C3W3		PXXXXXXX	TXXXXX	
Z1C3B034	34.0	25	480V	C3W3		PXXXXXXX	TXXXXX	
Z1C3D074	74.8	25	208V	C3W4		PXXXXXXX	TXXXXX	
Z1C3B040	40.0	30	480V	C3W3		PXXXXXXX	TXXXXX	
Z1C3D088	88.0	30	208V	C3W4		PXXXXXXX	TXXXXX	
Z1C3B052	52.0	40	480V	C3W3		PXXXXXXX	TXXXXX	
Z1C3B52L	52.0	40	480V	C3W3		PXXXXXXX	TXXXXX	
Z1C3D114	114.0	40	208V	C3W4		PXXXXXXX	TXXXXX	
Z1C3B065	65.0	50	480V	C3W4		PXXXXXXX	TXXXXX	
Z1C3B077	77.0	60	480V	C3W4		PXXXXXXX	TXXXXX	
Z1C3B096	96.0	75	480V	C3W4		PXXXXXXX	TXXXXX	
Z1C3B124	124.0	100	480V	C3W4		PXXXXXXX	TXXXXX	

NEMA 3R Power (P) Options

C	Circuit Breaker 65k	Choose One or None
M	Circuit Breaker 100k	
F	Input Fuse	Choose One or None
A	Two Motor "AND"	Choose One or None
Y	Two Motor "OR"	
K	Output Reactor	
R	Input Reactor	
N	Noise Filter	Choose One or None
2	Surge Suppressor	Choose None, Any, or All
3	Space Heater	
4	50 Degrees C	Choose One or None

NEMA 3R Control (T) Options

W	Custom Nameplate	Choose One or None
D	Ethernet/IP	Choose One or None
L	LonWorks	
M	Keypad Viewing Window	Choose One or None
Z	Speed Pot	Choose One or None
K	200VA Transformer	Choose One or None

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Table 5: Z1000 Series: Floor Mounted Bypass VFDs (Commercial HVAC Drives)

Drive Model	Output Current Rating	Nominal HP	Rated Input Voltage	Cabinet Size	NEMA Rating	Power Options	Control Options	Mounting Method
Z1B1D211	211.0	75	208V	B1F1	Type 1	PXXXX	TXX	Floor Mounted
Z1B1D273	273.0	100	208V	B1F1		PXXXX	TXX	
Z1B1D343	343.0	125	208V	B1F1		PXXXX	TXX	
Z1B1D396	396.0	150	208V	B1F1		PXXXX	TXX	
Z1B1B240	240.0	200	480V	B1F1		PXXXX	TXX	
Z1B1B302	302.0	250	480V	B1F1		PXXXX	TXX	
Z1B1B361	361.0	300	480V	B1F1		PXXXX	TXX	
Z1B1B414	414.0	350	480V	B1F1		PXXXX	TXX	
Z1B1B477	477.0	400	480V	B1F2		PXXXX	TXX	
Z1B1B590	590.0	500	480V	B1F2		PXXXX	TXX	
Z1B3D114	114.0	40	208V	B3F1	Type 3R	PXXXXX	TXXX	Floor Mounted
Z1B3D143	143.0	50	208V	B3F1		PXXXXX	TXXX	
Z1B3D169	169.0	60	208V	B3F1		PXXXXX	TXXX	
Z1B3B096	96.0	75	480V	B3F1		PXXXXX	TXXX	
Z1B3D211	211.0	75	208V	B3F1		PXXXXX	TXXX	
Z1B3B124	124.0	100	480V	B3F1		PXXXXX	TXXX	
Z1B3D273	273.0	100	208V	B3F1		PXXXXX	TXXX	
Z1B3D273	273.0	100	208V	B3F2		PXXXXX	TXXX	
Z1B3B156	156.0	125	480V	B3F1		PXXXXX	TXXX	
Z1B3D343	343.0	125	208V	B3F1		PXXXXX	TXXX	
Z1B3D343	343.0	125	208V	B3F2		PXXXXX	TXXX	
Z1B3B180	180.0	150	480V	B3F1		PXXXXX	TXXX	
Z1B3D396	396.0	150	208V	B3F1		PXXXXX	TXXX	
Z1B3D396	396.0	150	208V	B3F2		PXXXXX	TXXX	
Z1B3B240	240.0	200	480V	B3F1		PXXXXX	TXXX	
Z1B3B302	302.0	250	480V	B3F1		PXXXXX	TXXX	
Z1B3B361	361.0	300	480V	B3F1		PXXXXX	TXXX	
Z1B3B361	361.0	300	480V	B3F2		PXXXXX	TXXX	
Z1B3B414	414.0	350	480V	B3F1		PXXXXX	TXXX	
Z1B3B414	414.0	350	480V	B3F2		PXXXXX	TXXX	
Z1B3B477	477.0	400	480V	B3F2		PXXXXX	TXXX	
Z1B3B590	590.0	500	480V	B3F2		PXXXXX	TXXX	

NEMA 1 Power (P) Options

M	Circuit Breaker	Choose One or None
G	Drive Service Switch	Choose One or None
B	3 Contactor Bypass	
R	Input Reactor 3%	Choose One or None
N	Noise filter	Choose One or None

NEMA 3R Power (P) Options

F	Input Fuses	Choose One or None
A	Two Motor "AND"	Choose One or None
Y	Two Motor "OR"	
K	Output reactor	
R	Input Reactor	
N	Noise Filter	Choose One or None
2	Surge Suppressor	Choose None, Any or all
3	Space Heater	
4	50 Degree C	Choose One or None

NEMA 1 Control (T) Options

W	Custom Nameplate	Choose One or None
L	LonWorks	Choose One or None
D	Ethernet/IP	

NEMA 3R Control (T) Options

W	Custom Nameplate	Choose One or None
D	Ethernet/IP	Choose One or None
L	LonWorks	
M	Keypad Viewing Window	Choose One or None

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Table 6: Z1000 Series Floor Mounted Configured VFDs (Commercial HVAC Drives)

Standard Drive Model	Output Current Rating	Nominal HP	Rated Input Voltage	Cabinet Size	NEMA Rating	Power Options	Control Options	Mounting Method
Z1C1D343	343.0	125	208V	C1F1	Type 1	PXXXX	TXX	Floor Mounted
Z1C1D396	396.0	150	208V	C1F1		PXXXX	TXX	
Z1C1B302	302.0	250	480V	C1F1		PXXXX	TXX	
Z1C1B361	361.0	300	480V	C1F1		PXXXX	TXX	
Z1C1B414	414.0	350	480V	C1F1		PXXXX	TXX	
Z1C1B477	477.0	400	480V	C1F1T		PXXXX	TXX	
Z1C1B590	590.0	500	480V	C1F1T		PXXXX	TXX	
Z1C3D114	114.0	40	208V	C3F1	Type 3R	PXXXXXXX	TXXXXX	Floor Mounted
Z1C3D143	143.0	50	208V	C3F1		PXXXXXXX	TXXXXX	
Z1C3D169	169.0	60	208V	C3F1		PXXXXXXX	TXXXXX	
Z1C3B096	96.0	75	480V	C3F1		PXXXXXXX	TXXXXX	
Z1C3D211	211.0	75	208V	C3F1		PXXXXXXX	TXXXXX	
Z1C3B124	124.0	100	480V	C3F1		PXXXXXXX	TXXXXX	
Z1C3D273	273.0	100	208V	C3F1		PXXXXXXX	TXXXXX	
Z1C3B156	156.0	125	480V	C3F1		PXXXXXXX	TXXXXX	
Z1C3D343	343.0	125	208V	C3F1		PXXXXXXX	TXXXXX	
Z1C3B180	180.0	150	480V	C3F1		PXXXXXXX	TXXXXX	
Z1C3D396	396.0	150	208V	C3F1		PXXXXXXX	TXXXXX	
Z1C3B240	240.0	200	480V	C3F1		PXXXXXXX	TXXXXX	
Z1C3B302	302.0	250	480V	C3F1		PXXXXXXX	TXXXXX	
Z1C3B361	361.0	300	480V	C3F1		PXXXXXXX	TXXXXX	
Z1C3B414	414.0	350	480V	C3F1		PXXXXXXX	TXXXXX	
Z1C3B477	477.0	400	480V	C3F2		PXXXXXXX	TXXXXX	
Z1C3B590	590.0	500	480V	C3F2		PXXXXXXX	TXXXXX	

NEMA 1 Power (P) Options

C	Circuit Breaker 65k	Choose One or None
M	Circuit Breaker 100k	
F	Input Fuse	Choose One or None
R	Input Reactor	Choose One or None
N	Noise Filter	Choose One or None

NEMA 3R Power (P) Options

C	Circuit Breaker 65k	Choose One or None
M	Circuit Breaker 100k	
F	Input Fuse	Choose One or None
A	Two Motor "AND"	Choose One or None
Y	Two Motor "OR"	
K	Output Reactor	
R	Input Reactor	
N	Noise Filter	Choose One or None
2	Surge Suppressor	Choose None, Any or All
3	Space Heater	
4	50 Degree C	Choose One or None

NEMA 1 Control (T) Options

W	Custom Nameplate	Choose One or None
L	LonWorks	Choose One or None
D	Ethernet/IP	

NEMA 3R Control (T) Options

W	Custom Nameplate	Choose One or None
D	Ethernet/IP	Choose One or None
L	LonWorks	
M	Keypad Viewing Window	Choose One or None
Z	Speed Pot	Choose One or None
K	200VA Transformer	Choose One or None

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Table 7: J1000, P1000, V1000 Series Wall Mounted Micro Drives

Drive Model	Normal Duty		Heavy Duty		Rated Input Voltage	Standard Drive Size	Mounting Method
	Rated Output Current (Amps)	Nominal HP	Rated Output Current (Amps)	Nominal HP			
CIMR-JU2A0001***	1.2	0.125 & 0.25	0.8	0.125	200-240V	1	Wall Mounted
CIMR-JUBA0001***	1.2	0.125 & 0.25	0.8	0.125	200-240V	1	
CIMR-VU2A0001*** CIMR-PW2A0001***	1.2	0.125 & 0.25	0.8	0.125	200-240V	1	
CIMR-VUBA0001*** CIMR-PWBA0001***	1.2	0.125 & 0.25	0.8	0.125	200-240V	1	
CIMR-JU2A0002***	1.9	0.25	1.6	0.25	200-240V	1	
CIMR-JUBA0002***	1.9	0.25	1.6	0.25	200-240V	1	
CIMR-VU2A0002*** CIMR-PW2A0002***	1.9	0.25	1.6	0.25	200-240V	1	
CIMR-VUBA0002*** CIMR-PWBA0002***	1.9	0.25	1.6	0.25	200-240V	1	
CIMR-JU2A0004***	3.3	0.5 & 0.75	3.0	0.5	200-240V	2	
CIMR-JU4A0001***	1.2	0.5	1.2	0.5	380-480V	5	
CIMR-JUBA0003***	3.3	0.5 & 0.75	3.0	0.5	200-240V	3	
CIMR-VU2A0004*** CIMR-PW2A0004***	3.5	0.5 & 0.75	3	0.5	200-240V	2	
CIMR-VUBA0003*** CIMR-PWBA0003***	3.3	0.5 & 0.75	3	0.5	200-240V	3	
CIMR-VU4A0001*** CIMR-PW4A0001***	1.2	0.5	1.2	0.5	380-480V	5	
CIMR-JU4A0002***	2.1	¾ & 1	1.8	0.75	380-480V	6	
CIMR-VU4A0002*** CIMR-PW4A0002***	2.1	¾ & 1	1.8	0.75	380-480V	6	
CIMR-JU2A0006***	6	1	5.0	0.75 & 1	200-240V	4	
CIMR-VU2A0006*** CIMR-PW2a0006***	6	1	5	0.75 & 1	200-240V	4	
CIMR-JUBA0006***	6	1	5.0	0.75 & 1	200-240V	8	
CIMR-VUBA0006*** CIMR-PWBA0006***	6	1	5	0.75 & 1	200-240V	8	
CIMR-VU4A0004*** CIMR-PW4A0004***	4.1	2	3.4	1 & 2	380-480V	8	
CIMR-JU4A0004***	4.1	2	3.4	1 & 2	380-480V	8	
CIMR-VU2A0010*** CIMR-PW2A0010***	9.6	2 & 3	8	2	200-240V	7	
CIMR-VUBA0010*** CIMR-PWBA0010***	9.6	2 & 3	8	2	200-240V	10	
CIMR-JU2A0010***	9.6	2 & 3	8.0	2	200-240V	7	
CIMR-JUBA0010***	9.6	2 & 3	8.0	2	200-240V	10	
CIMR-VU2A0012** CIMR-PW2A0012***	12	3	11	3	200-240V	8	
CIMR-VU4A0005*** CIMR-PW4A0005***	5.4	3	4.8	3	380-480V	9	
CIMR-VU4A0007*** CIMR-PW4A0007***	6.9	4	5.5	3	380-480V	9	
CIMR-VUBA0012*** CIMR-PWBA0012***	12	3	11	3	200-240V	12	
CIMR-JU2A0012***	12	3	11.0	3	200-240V	8	
CIMR-JU4A0005***	5.4	3	4.8	3	380-480V	9	
CIMR-JU4A0007***	6.9	4	5.5	3	380-480V	9	
CIMR-VU4A0009*** CIMR-PW4A0009***	8.8	5	7.2	4	380-480V	9	
CIMR-JU4A0009***	8.8	5	7.2	4	380-480V	9	
CIMR-VU2A0020*** CIMR-PW2A0020***	19.6	5	17.5	5	200-240V	11	

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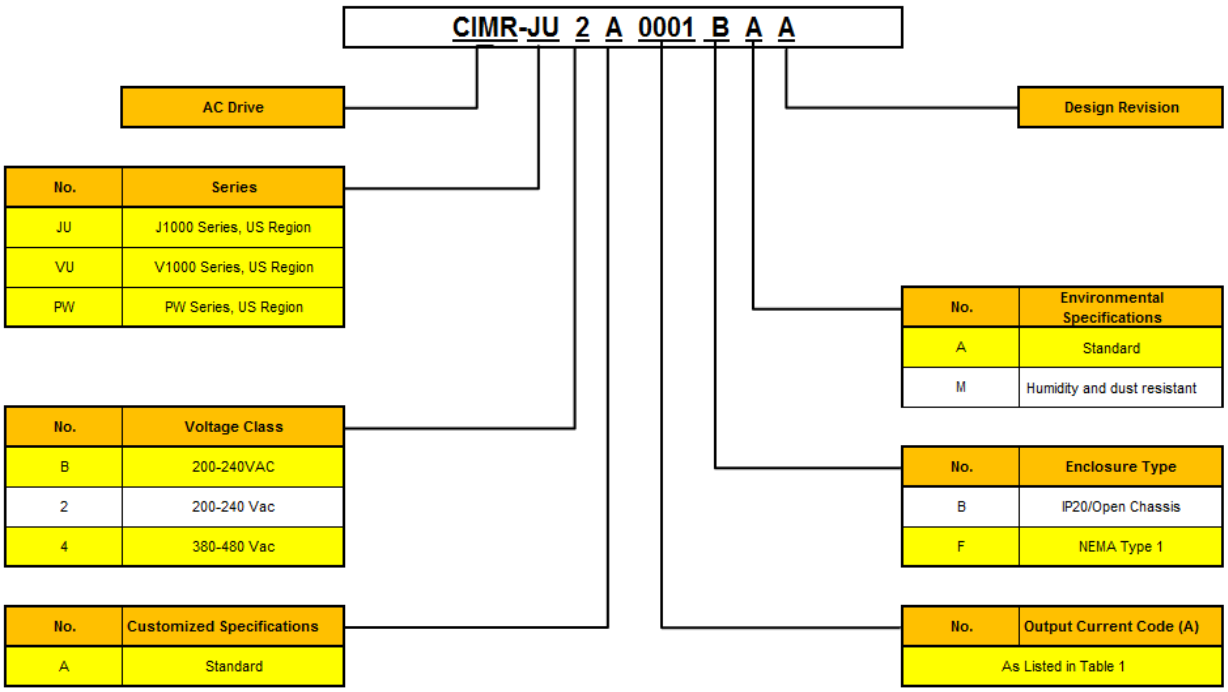
Table 7: J1000, P1000, V1000 Series Wall Mounted Micro Drives con't

Drive Model	Normal Duty		Heavy Duty		Rated Input Voltage	Standard Drive Size	Mounting Method
	Rated Output Current (Amps)	Nominal HP	Rated Output Current (Amps)	Nominal HP			
CIMR-VU4A0011*** CIMR-PW4A0011***	11.1	7.5	9.2	5	380-480V	11	Wall Mounted
CIMR-VUBA0018*** CIMR-PWBA0018***	17.5	5	17.5	5	200-240V	13	
CIMR-JU2A0020***	19.6	5	17.5	5	200-240V	11	
CIMR-JU4A0011***	11.1	7.5	9.2	5	380-480V	11	
CIMR-VU2A0030*** CIMR-PW2A0030***	30	7.5 & 10	25	7.5	200-240V	14	
CIMR-VU4A0018*** CIMR-PW4A0018***	17.5	10	14.8	7.5 & 10	380-480V	14	
CIMR-VU2A0040*** CIMR-PW2A0040***	40	10	33	10	200-240V	14	
CIMR-VU4A0023*** CIMR-PW4A0023***	23	15	18	10	380-480V	14	
CIMR-VU4A0031*** CIMR-PW4A0031***	31	20	24	15	380-480V	15	
CIMR-VU2A0056*** CIMR-PW2A0056***	56	15 & 20	47	15	200-240V	16	
CIMR-VU4A0038*** CIMR-PW4A0038***	38	25	31	20	380-480V	16	
CIMR-VU2A0069*** CIMR-PW2A0069***	69	25	60	20	200-204V	17	



This certification **includes** the product and factory supplied accessories and options. The product and included accessories and options shall be a catalogue design and factory supplied. The product shall be installed and attached to the building structure per the manufacturer supplied seismic installation instructions. This certification **excludes** all non-factory supplied accessories, including but not limited to enclosures, isolation/restraint devices, remote control panels, mounting brackets and other electrical/mechanical components.

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SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Notes and Comments:

1. All equipment listed herein successfully passed the seismic acceptance criteria for shake testing non-structural components and systems as set forth in the ICC AC-156. The Test Response Spectrum (TRS) enveloped the Required Response Spectrum (RRS) for all units tested. The units cited in this certification were representative sample(s) of a contingent of models and all remained captive and structurally sound after the seismic shake simulation. The units also remained functionally operational after the simulation testing as functional testing was completed by the equipment manufacturer before and after the seismic simulations. Although a seismic qualified unit inherently contains some wind resisting capacity, that capacity is undetermined and is excluded from this certification. Snow/Ice loads have been neglected and thus limit the unit to be installed both indoors (covered by an independent protective structure) and out of doors (exposed to accumulating snow/ice) for ground snow loads no greater than 30 psf for all applications.

2. The following building codes are addressed under this certification:

   IBC 2012 – referencing ASCE7-10 and ICC AC-156
   IBC 2009 – referencing ASCE7-05 and ICC AC-156
   IBC 2006 – referencing ASCE7-05 and ICC AC-156

3. Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for seismic applications. Required anchor locations, size, style, and load capacities (tension and shear) are specified on the installation drawings. Mounting requirement details such as anchor brand, type, embedment depth, edge spacing, anchor-to-anchor spacing, concrete strength, special inspection, wall design, and attachment to non-building structures must be outlined and approved by the Engineer of Record for the project or building. Structural walls, structural floors, and housekeeping pads must also be seismically designed and approved by the project or building Structural Engineer of Record to withstand the seismic anchor loads as defined on the installation drawings. The installing contractor is responsible for observing the installation detailed in the seismic installation drawings and the proper installation of all anchors and mounting hardware.

4. For this certificate and certification to remain valid, this certificate must correspond to the “Seismic Certification Label” found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC seismic design criteria set forth by the Certified Seismic Qualification Agency, The VMC Group, and meets the seismic design levels claimed by this certificate.

5. When the site soil properties or final equipment installation location are not known, the soil site coefficient, F_A, defaults to the Soil Site Class D coefficient. Soil Classes A, B, C, D, Seismic Risk Category I, II, III, IV, and Seismic Design Categories A, B, C, D, E, and F are all covered under this certification, limited by the S_{DS} values on page 1, respective to the applicable building code, Importance factor, and z/h ratio.

6. Mechanical, Electrical, and Plumbing connections to the equipment must be flexibly attached as to not transfer load through the connection. The structural integrity of any conduit, cable trays, piping, ductwork and/or flexible connections is the responsibility of others. This certification does not guarantee the equipment will remain compliant to UL or NEMA standards after a seismic event.

7. This certificate applies to units manufactured at the following:
   Z1B1, Z1C1, Z1B3, Z1C3 (Bypass and Configured Panels) – Yaskawa America Inc, 150 W. Oakwood Road, Oak Creek, WI 53154
   CIMR-ZU, CIMR-VU, CIMR-PW (Z1000, P1000, V1000 Drives) – Yaskawa America Inc., 1067 Johnson Drive, Buffalo Grove, IL 60089
   CIMR-JU, CIMR-VU, CIMR-PW (J1000, V1000, P1000 Drives) – Shanghai Yaskawa Drive Co Ltd, 915 Jiaxin St, Cangchangcun, Maluzhen, Kiading Distric, Shanghai, 201818 China
   CIMR-JU, CIMR-VU, CIMR-PU (J1000, V1000, P1000 Drives) – Yaskawa Mfg Service Yukuhashi Co Ltd, 2-13-1 Nishimiyaichi, Yukuhashi-Shi, Fukuoka-Ken 824-8511 Japan

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President, The VMC Group

Issue Date: March 6, 2015
Expiration Date: March 31, 2018

IBC CERTIFIED THE VMC GROUP