



CERTIFICATE

No. Z10 09 03 22733 023

Holder of Certificate: **Yaskawa Electric Corporation**
Inverter Plant

2-13-1 Nishimiyaichi
 Yukuhashi, Fukuoka
 824-8511 JAPAN

Factory(ies): 42802, 63989, 51347, 38663

Certification Mark:



Product: **AC Servo Systems**
AC Inverter

Model(s): **CIMR-V***** series**
For nomenclature see attachment

Parameters:

Rated voltage:	200 to 240 V 3ac 200 to 240 V ac 380 to 480 V 3ac
Rated frequency:	50 / 60 Hz
Rated input current:	200 V ac: 1.2 to 17.5 A 200 V 3ac: 1.2 to 69 A 400 V 3ac: 1.2 to 38 A
Overvoltage category:	III
Protection class:	I
Remark:	When installing/inserting the equipment all requirements of the mentioned test standards must be fulfilled.

Tested according to:

- EN 954-1:1996 Cat. 3
- EN 50178:1997
- EN 61800-3:2007
- IEC 61800-5-1:2003
- IEC 61508-1,-3,-4:1998 (SIL2)
- IEC 61508-2:2000 (SIL2)

The listed product was tested on a voluntary basis and complies with the relating standards or directives. The certification mark shown above can be affixed on the product. The certification mark must not be altered in any way. See also notes overleaf.

Test report no.: 717500979

Date, 2009-03-26

Page 1 of 11





Attachment to certificate Z10 09 03 22733 023

Nomenclature/Basic

$\frac{\text{CIMR-V}}{\text{A}}$ $\frac{\text{A}}{\text{B}}$ $\frac{\text{Z}}{\text{C}}$ $\frac{\text{A}}{\text{D}}$ $\frac{\text{0001}}{\text{E}}$ $\frac{\text{B}}{\text{F}}$ $\frac{\text{A}}{\text{G}}$ $\frac{*}{\text{H}}$

- A: Basic name of V1000 Series
- B: Regional specification for initial software setting
 A: Japan Spec.
 B: China Spec.
 C: Europe Spec.
 U: USA Spec.
 T: Asia Spec.
 Z: OYMC Spec.
- C: Rated Voltage
 B: 200Vac
 2: 200V3ac
 4: 400V3ac
- D: Customer Specification
 Any alphabet for a customer specification such as software initial setting, enclosure colour.
- E: Rated output

200Vac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,25 (0,18)	0001	0,8	0,13 (0,1)
0002	1,9	0,5 (0,37)	0002	1,6	0,25 (0,2)
0003	3,3	1,0 (0,75)	0003	3,0	0,5 (0,4)
0006	6,0	1,5 (1,1)	0006	5,0	1,0 (0,75)
0010	9,6	3,0 (2,2)	0010	8,0	2,0 (1,5)
0012	12,0	4,0 (3,0)	0012	11,0	3,0 (2,2)

200V3ac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,25 (0,18)	0001	0,8	0,13 (0,1)
0002	1,9	0,5 (0,37)	0002	1,6	0,25 (0,2)
0004	3,5	1,0 (0,75)	0004	3,0	0,5 (0,4)
0006	6,0	1,5 (1,1)	0006	5,0	1,0 (0,75)
0008	8,0	2,0 (1,5)	0008	6,9	1,5 (1,1)
0010	9,6	3,0 (2,2)	0010	8,0	2,0 (1,5)
0012	12,0	4,0 (3,0)	0012	11,0	3,0 (2,2)



0018	17,5	5,0 (3,7)	0018	14,0	4,0 (3,0)
0020	19,6	7,5 (5,5)	0020	17,5	5,5 (4,0)

400V3ac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,5 (0,37)	0001	1,2	0,25 (0,2)
0002	2,1	1,0 (0,75)	0002	1,8	0,5 (0,4)
0004	4,1	2,0 (1,5)	0004	3,4	1,0 (0,75)
0005	5,4	3,0 (2,2)	0005	4,8	2,0 (1,5)
0007	6,9	4,0 (3,0)	0007	5,5	3,0 (2,2)
0009	8,8	5,0 (3,7)	0009	7,2	4,0 (3,0)
0011	11,1	7,5 (5,5)	0011	9,2	5,5 (4,0)

F: Enclosure

- B: IP20
- A: IP00
- F: With upper cover and bottom cover

G: Countermeasure for air pollution

- A: Standard
- B to Z: Countermeasure for air pollution (non safety relevant)

H: Design version

- Blank: LVD compliance
- A: Functional safety compliance

Nomenclature/2nd

CIMR-V A 2 A 0001 B A *
 A B C D E F G H

A Basic name of V1000 Series

B Regional specification for initial software setting

- A: Japan Spec.
- B: China Spec.
- C: Europe Spec.
- U: USA Spec.
- T: Asia Spec.
- Z: OYMC Spec.

C Rated Voltage

- 2: 200V3ac
- 4: 400V3ac

D Customer Specification

Any alphabet for a customer specification such as software initial setting, enclosure color.



E Rated output

200V3ac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0030	30	10,0 (7,5)	0030	25,0	7,5 (5,5)
0040	40	15,0 (11,0)	0040	33,0	10,0 (7,5)
0056	56	20,0 (15,0)	0056	47,0	15,0 (11,0)
0069	69	25,0 (18,5)	0069	60,0	20,0 (15,0)

400V3ac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0018	17,5	10,0 (7,5)	0018	14,8	7,5 (5,5)
0023	23,0	15,0 (11,0)	0023	18,0	10,0 (7,5)
0031	31,0	20,0 (15,0)	0031	24,0	15,0 (11,0)
0038	38,0	25,0 (18,5)	0038	31,0	20,0 (15,0)

F Enclosure

- A: IP00
- F: With upper cover and bottom cover

G Countermeasure for air pollution

- A: Standard
- B to Z: Countermeasure for air pollution (non safety relevant)

H Design version

- Blank: LVD compliance
- A: Functional safety compliance

Nomenclature/Finless and IP20

CIMR-V
A
A
B
Z
C
A
D
0001
E
J
F
A
G
*
H

A Basic name of V1000 Series

B Regional specification for initial software setting

- A: Japan Spec.
- B: China Spec.
- C: Europe Spec.
- U: USA Spec.
- T: Asia Spec.
- Z: OYMC Spec.



C Rated Voltage

- B: 200Vac
- 2: 200V3ac
- 4: 400V3ac

D Customer Specification

Any alphabet for a customer specification such as software initial setting, enclosure color.

E Rated output

200Vac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,25(0,18)	0001	0,8	0,13(0,1)
0002	1,9	0,5(0,37)	0002	1,6	0,25(0,2)
0003	3,3	1,0(0,75)	0003	3,0	0,5(0,4)
0006	6,0	1,5(1,1)	0006	5,0	1,0(0,75)
0010	9,6	3,0(2,2)	0010	8,0	2,0(1,5)
0012	12,0	4,0(3,0)	0012	11,0	3,0(2,2)

200V3ac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,25(0,18)	0001	0,8	0,13(0,1)
0002	1,9	0,5(0,37)	0002	1,6	0,25(0,2)
0004	3,5	1,0(0,75)	0004	3,0	0,5(0,4)
0006	6,0	1,5(1,1)	0006	5,0	1,0(0,75)
0008	8,0	2,0(1,5)	0008	6,9	1,5(1,1)
0010	9,6	3,0(2,2)	0010	8,0	2,0(1,5)
0012	12,0	4,0(3,0)	0012	11,0	3,0(2,2)
0018	17,5	5,0(3,7)	0018	14,0	4,0(3,0)
0020	19,6	7,5(5,5)	0020	17,5	5,5(4,0)

400V3ac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,5(0,37)	0001	1,2	0,25(0,2)
0002	2,1	1,0(0,75)	0002	1,8	0,5(0,4)
0004	4,1	2,0(1,5)	0004	3,4	1,0(0,75)
0005	5,4	3,0(2,2)	0005	4,8	2,0(1,5)
0007	6,9	4,0(3,0)	0007	5,5	3,0(2,2)
0009	8,8	5,0(3,7)	0009	7,2	4,0(3,0)
0011	11,1	7,5(5,5)	0011	9,2	5,5(4,0)



- F Enclosure
 - J: Finless type and IP20
- G Countermeasure for air pollution
 - A: Standard
 - B to Z: Countermeasure for air pollution (non safety relevant)
- H Design version
 - Blank: LVD compliance
 - A: Functional safety compliance

Nomenclature/C3 Filter

CIMR-V A 2 A 0001 E A *
 A B C D E F G H

- A Basic name of V1000 Series
- B Regional specification for initial software setting
 - A: Japan Spec.
 - B: China Spec.
 - C: Europe Spec.
 - U: USA Spec.
 - T: Asia Spec.
 - Z: OYMC Spec.
- C Rated Voltage
 - B: 200Vac
 - 4: 400V3ac
- D Customer Specification
 - Any alphabet for a customer specification such as software initial setting, enclosure color.
- E Rated output

200Vac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,25 (0,18)	0001	0,8	0,13 (0,1)
0002	1,9	0,5 (0,37)	0002	1,6	0,25 (0,2)
0003	3,3	1,0 (0,75)	0003	3,0	0,5 (0,4)
0006	6,0	1,5 (1,1)	0006	5,0	1,0 (0,75)
0010	9,6	3,0 (2,2)	0010	8,0	2,0 (1,5)
0012	12,0	4,0 (3,0)	0012	11,0	3,0 (2,2)



400V3ac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,5 (0,37)	0001	1,2	0,25 (0,2)
0002	2,1	1,0 (0,75)	0002	1,8	0,5 (0,4)
0004	4,1	2,0 (1,5)	0004	3,4	1,0 (0,75)
0005	5,4	3,0 (2,2)	0005	4,8	2,0 (1,5)
0007	6,9	4,0 (3,0)	0007	5,5	3,0 (2,2)
0009	8,8	5,0 (3,7)	0009	7,2	4,0 (3,0)
0011	11,1	7,5 (5,5)	0011	9,2	5,5 (4,0)

- F Enclosure
E: C3 filter installed
- G Countermeasure for air pollution
A: Standard
B to Z: Countermeasure for air pollution (non safety relevant)
- H Design version
Blank: LVD compliance
A: Functional safety compliance

Nomenclature/Finless Bigger

CIMR-V A 2 A 0030 J A *
 A B C D E F G H

- A Basic name of V1000 Series
- B Regional specification for initial software setting
A: Japan Spec.
B: China Spec.
C: Europe Spec.
U: USA Spec.
T: Asia Spec.
Z: OYMC Spec.
- C Rated Voltage
2: 200V3ac
4: 400V3ac
- D Customer Specification
Any alphabet for a customer specification such as software initial setting, enclosure colour.
- E Rated output



200V3ac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0030	30	10,0 (7,5)	0030	25,0	7,5 (5,5)
0040	40	15,0 (11,0)	0040	33,0	10,0 (7,5)
0056	56	20,0 (15,0)	0056	47,0	15,0 (11,0)
0069	69	25,0 (18,5)	0069	60,0	20,0 (15,0)

400V3ac

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0018	17,5	10,0 (7,5)	0018	14,8	7,5 (5,5)
0023	23,0	15,0 (11,0)	0023	18,0	10,0 (7,5)
0031	31,0	20,0 (15,0)	0031	24,0	15,0 (11,0)
0038	38,0	25,0 (18,5)	0038	31,0	20,0 (15,0)

- F Enclosure
 J: IP20/Heat-sink less [excl. 0069]
 L: IP00/Heat-sink less with upper cover and bottom cover [for 0069 only]

- G Countermeasure for air pollution
 A: Standard
 B to Z: Countermeasure for air pollution (non safety relevant)

- H Design version
 Blank: LVD compliance
 A: Functional safety compliance

Nomenclature

CIMR-V A B A 0018 B A *
 A B C D E F G H

- A Basic name of V1000 Series
- B Regional specification for initial software setting
 A: Japan Spec.
 B: China Spec.
 C: Europe Spec.
 U: USA Spec.
 T: Asia Spec.
 Z: OYMC Spec.
- C Rated Voltage
 B: 200Vac



D Customer Specification
Any alphabet for a customer specification such as software initial setting, enclosure color.

E Rated output

Normal duty use (120% load 1 minute)			Heavy-duty use (150% load 1 minute)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0018	-	-	0018	17,5	5,5(4,0)

F Enclosure
B: IP20
F: With upper cover and bottom cover

G Countermeasure for air pollution
A: Standard
B to Z: Countermeasure for air pollution (non safety relevant)

H Design version
Blank: LVD compliance
A: Functional safety compliance

Nomenclature/IP66 with C1 or C2 Filter and without

CIMR-V A 2 A **** G A *
A B C D E F G H

A Basic name of V1000 Series

B Regional specification for initial software setting
A: Japan Spec.
B: China Spec.
C: Europe Spec.
U: USA Spec.
T: Asia Spec.
Z: OYMC Spec.

C Rated Voltage
B: 200Vac
2: 200V3ac
4: 400V3ac

D Customer Specification
Any alphabet for a customer specification such as software initial setting, enclosure colour.



E Rated output

200Vac

Normal duty use (120% load 1 minutes)			Heavy-duty use (150% load 1 minutes)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,25 (0,18)	0001	0,8	0,13 (0,1)
0002	1,9	0,5 (0,37)	0002	1,6	0,25 (0,2)
0003	3,3	1,0 (0,75)	0003	3,0	0,5 (0,4)
0006	6,0	1,5 (1,1)	0006	5,0	1,0 (0,75)
0010	9,6	3,0 (2,2)	0010	8,0	2,0 (1,5)
0012	12,0	4,0 (3,0)	0012	11,0	3,0 (2,2)

200V3ac

Normal duty use (120% load 1 minutes)			Heavy-duty use (150% load 1 minutes)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,25 (0,18)	0001	0,8	0,13 (0,1)
0002	1,9	0,5 (0,37)	0002	1,6	0,25 (0,2)
0004	3,5	1,0 (0,75)	0004	3,0	0,5 (0,4)
0006	6,0	1,5 (1,1)	0006	5,0	1,0 (0,75)
0008	8,0	2,0 (1,5)	0008	6,9	1,5 (1,1)
0010	9,6	3,0 (2,2)	0010	8,0	2,0 (1,5)
0012	12,0	4,0 (3,0)	0012	11,0	3,0 (2,2)
0018	17,5	5,0 (3,7)	0018	14,0	4,0 (3,0)
0020	19,6	7,5 (5,5)	0020	17,5	5,5 (4,0)
0030	30	10,0 (7,5)	0030	25,0	7,5 (5,5)
0040	40	15,0 (11,0)	0040	33,0	10,0 (7,5)
0056	56	20,0 (15,0)	0056	47,0	15,0 (11,0)
0069	69	25,0 (18,5)	0069	60,0	20,0 (15,0)

400V3ac

Normal duty use (120% load 1 minutes)			Heavy-duty use (150% load 1 minutes)		
Model	Rated current (A)	Maximum applicable motor HP (KW)	Model	Rated current (A)	Maximum applicable motor HP (KW)
0001	1,2	0,5 (0,37)	0001	1,2	0,25 (0,2)
0002	2,1	1,0 (0,75)	0002	1,8	0,5 (0,4)
0004	4,1	2,0 (1,5)	0004	3,4	1,0 (0,75)
0005	5,4	3,0 (2,2)	0005	4,8	2,0 (1,5)
0007	6,9	4,0 (3,0)	0007	5,5	3,0 (2,2)
0009	8,8	5,0 (3,7)	0009	7,2	4,0 (3,0)
0011	11,1	7,5 (5,5)	0011	9,2	5,5 (4,0)
0018	17,5	10,0 (7,5)	0018	14,8	7,5 (5,5)
0023	23,0	15,0 (11,0)	0023	18,0	10,0 (7,5)
0031	31,0	20,0 (15,0)	0031	24,0	15,0 (11,0)
0038	38,0	25,0 (18,5)	0038	31,0	20,0 (15,0)



- F Enclosure
G: IP66/without C1 Filter (NEMA4)
H: IP66/with C1 or C2 Filter
- G Countermeasure for air pollution
A: Standard
B to Z: Countermeasure for air pollution (non safety relevant)
- H Design version
Blank: LVD compliance
A: Functional safety compliance

Department: TR-RAMUC
Date: 2009-03-26

Seite 11 von 11