



Product Service

EU-Type Examination Certificate

No. E6A 17 01 22021 708

Holder of Certificate: Yaskawa Electric Corp.
Tokyo Plant

480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN

Product: AC Servo Systems
Converter, AC Servo Amplifier
(SERVOPACK)

Model(s): Sigma-V-SD series
CACP-JU****A*****, CACP-JU****B*****,
CACR-JU****2A*****, CACR-JU****DA*****,
CACR-JU****CA*****, CACR-JU****EA*****,
CACR-JU****2B*****,
(See Attachment for Nomenclature)

Description of Object:


Rated Voltage: 200 VAC, 270 VDC
400 VAC, 540 VDC
Rated Power: 15/11 kW~45/37 kW, 3 Phase
1.5 kW~45/37 kW, 3 Phase
Protection Class: I
EMC Classification: Group 1, Class A(EN 55011)
EMI:category C2(EN 61800-3)
EMS:second environment(EN 61800-3)

Tested according to:

EN 55011:2009/A1:2010
EN 61000-6-4:2007/A1:2011
EN 61000-6-2:2005
EN 61800-3:2004/A1:2012

This EU-Type Examination Certificate is issued according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with such aspects of the requirements of the EMC directive as specified by the manufacturer or his authorized representative in the European Community and applies only to the sample and its technical documentation submitted for testing and certification. This Type Examination does not contain any statements pertaining to the EMC protection requirements governed by other laws which serve to implement EU Directives other than the aforementioned Directive 2014/30/EU. See also notes overleaf.

Evaluation Report No.: 73562972


(Johann Roidt)

Date, 2017-01-11



TÜV SÜD Product Service GmbH is notified Body to the Directive 2014/30/EU relating to electromagnetic compatibility with the identification number 0123.

Attachment
Certificate No.



Product Service

E6A 17 01 22021 708

Nomenclature for Converter unit (Standard)

CACP-JU ****** ***** ***** ***** ***** ****** ****** *****
A **B** **C** **D** **E** **F** **G** **H** **I**

A: Series name, Sigma-V-SD Series Converter Unit

B: 50% ED Output capacity

Group	Output capacity 50% ED/Rated	Input voltage	Output voltage
15	15/11kW	200V3ac	270Vdc
19	18.5/15kW		
22	22/18.5kW		
30	30/22kW		
37	37/30kW		
45	45/37kW		
15	15/11kW	400V3ac	540Vdc
19	18.5/15kW		
22	22/18.5kW		
45	45/37kW		

C: Input/Output voltage

Group	Input voltage	Output voltage	Unit type
A	200V3ac	270Vdc	Converter
D	400V3ac	540Vdc	Converter

D: Regeneration method

Group	Regeneration method
3	120°

E: Design revision order

- A: Standard
- B: Standard

F: Mounting method

- Blank: Duct-ventilated
- B: Base-mounted



E6A 17 01 22021 708

G: Option specification of hardware

Group	Option specification of hardware	Difference from standard model
Blank	Standard	--
00	Standard	Software and/or parameters are changed.
04	Counter measures for vibration	Put a fixture for weak parts of mechanical vibration by resin material.
10	Isolation degradation detection type	Board with the function is added

H: Option specification of software

Group	Option specification of software	Difference from standard model
Blank	Standard	--
00	Standard	Hardware is exactly same as standard model.

I: Option specification of parameter setting

Group	Option specification of parameter setting	Difference from standard model
Blank	Standard	--
0	Standard	Hardware is exactly same as standard model.

Attachment
Certificate No.



Product Service

E6A 17 01 22021 708

Nomenclature for Drive unit/1 axis (Standard)

CACR-JU ******* ***** ***** ***** ***** ****** ****** *****
A **B** **C** **D** **E** **F** **G** **H** **I**

A: Series name, Sigma-V-SD Series Drive Unit

B: Continuous output current

Group	Output current			Output capacity			Input voltage	Output voltage
	Spindle		Servo rated	Spindle		Servo rated		
	Rated	50%ED		Rated	50%ED			
028	22A	31A	23.8A	2.2kW	3.7kW	3kW	270Vdc	200V3ac
	28A	34A		3.7kW	5.5kW			
036	36A	46A	32.9A	5.5kW	7.5kW	5kW		
065	45A	60A	46.9A	7.5kW	11kW	6kW		
	65A	82A		11kW	15kW			
084	84A	100A	54.7A	15kW	18.5kW	7.5kW		
102	102A	116A	58.6A	18.5kW	22kW	11kW		
125	125A	160A	78.0A	22kW	30kW	15kW		
196	196A	240A	110A	37kW	45kW	22kW		
014	11A	15.5A	11.9A	2.2kW	3.7kW	3kW		
	14A	17A		3.7kW	5.5kW			
018	18A	23A	16.5A	5.5kW	7.5kW	5kW		
033	22.5A	30A	20.8A	7.5kW	11kW	6kW		
	32.5A	41A		11kW	15kW			
042	42A	50A	25.7A	15kW	18.5kW	7.5kW		
051	51A	58A	28.1A	18.5kW	22kW	11kW		
098	98A	120A	52A	37kW	45kW	22kW		

C: Input/Output voltage

Group	Input voltage	Output voltage	Unit type
A	270Vdc	200V3ac	Drive
D	540Vdc	400V3ac	Drive

D: Model

Group	Model
0	Analogue/Pulse I/F
2	MECHATROLINK-III I/F
C	EtherCAT I/F
D	Analogue I/F
E	Analogue Expanded I/F

Attachment
Certificate No.



Product Service

E6A 17 01 22021 708

E: Design revision order
 A: Standard
 B: Functional Safety SIL3

F: Mounting method
 Blank: Duct-ventilated
 B: Base-mounted

G: Option specification of hardware

Group	Option specification of hardware	Difference from standard model
Blank	Standard	--
00	Standard	Software and/or parameters are changed.
01	Encoder feedback orientation	Pulse encoder feedback input is added. (Only Analogue Expanded I/F)
02	External DB resistor type or without DB type	Specification of which the terminal for DB resistor outside was added.
	Magnetic sensor feedback orientation	Magnetic sensor feedback input is added. (Only Analogue Expanded I/F)
04	Counter measures for vibration	Put a fixture for weak parts of mechanical vibration by resin material.
20	Option of functional safety	Optional safety board is added. (MECHATROLINK-III I/F Drive unit only) The safety board is SGDV-OSA01A(Standard model).

H: Option specification of software

Group	Option specification of software	Difference from standard model
Blank	Standard	--
00	Standard	Hardware is exactly same as standard model.

I: Option specification of parameter setting

Group	Option specification of parameter setting	Difference from standard model
Blank	Standard	--
0	Standard	Hardware is exactly same as standard model.

Attachment
Certificate No.



Product Service

E6A 17 01 22021 708

Nomenclature for Drive unit/2 axes (Standard)

CACR-JU ****** ***** ***** ***** ***** ***** ****** ****** *****
A **B** **C** **D** **E** **F** **G** **H** **I** **J**

A: Series name, Sigma-V-SD Series Drive Unit

B: Number of axis
M2: 2 axes

C: Continuous output current

Group	Rated output current For 2 axes drive		Input voltage	Output voltage
	Axis 1	Axis 2		
3	11.6A	11.6A	270Vdc	200V3ac
4	18.5A	18.5A		
5	24.8A	24.8A		
3	5.4A	5.4A	540Vdc	400V3ac
4	8.4A	8.4A		
5	11.9A	11.9A		

D: Input/Output voltage

Group	Input voltage	Output voltage	Unit type
A	270Vdc	200V3ac	Drive
D	540Vdc	400V3ac	Drive

E: Model

Group	Model
0	Analogue/Pulse I/F
2	MECHATROLINK-III I/F
C	EtherCAT I/F

F: Design revision order
A: Standard

G: Mounting method
Blank: Duct-ventilated
B: Base-mounted

Attachment
Certificate No.



Product Service

E6A 17 01 22021 708

H: Option specification of hardware

Group	Option specification of hardware	Difference from standard model
Blank	Standard	--
00	Standard	Software and/or parameters are changed
02	External DB resistor type or without DB type	Specification of which the terminal for DB resistor outside was added.
04	Counter measures for vibration	Put a fixture for weak parts of mechanical vibration by resin material.

I: Option specification of software

Group	Option specification of software	Difference from standard model
Blank	Standard	--
00	Standard	Hardware is exactly same as standard model.

J: Option specification of parameter setting

Group	Option specification of parameter setting	Difference from standard model
Blank	Standard	--
0	Standard	Hardware is exactly same as standard model.

Attachment
Certificate No.



Product Service

E6A 17 01 22021 708

Nomenclature for Converter unit (Y-Specification)

CACP-JU ****** ***** ***** ***** ***** **Y*******
A **B** **C** **D** **E** **F** **G**

A: Series name, Sigma-V-SD Series Converter Unit

B: 50% ED Output capacity

Group	Output capacity 50% ED/Rated	Input voltage	Output voltage
15	15/11kW	200V3ac	270Vdc
19	18.5/15kW		
22	22/18.5kW		
30	30/22kW		
37	37/30kW		
45	45/37kW		
15	15/11kW	400V3ac	540Vdc
19	18.5/15kW		
22	22/18.5kW		
45	45/37kW		

C: Input/Output voltage

Group	Input voltage	Output voltage	Unit type
A	200V3ac	270Vdc	Converter
D	400V3ac	540Vdc	Converter

D: Regeneration method

Group	Regeneration method
3	120°

E: Design revision order

- A: Standard
- B: Standard

F: Mounting method

- Blank: Duct-ventilation
- B: Base-mounting



E6A 17 01 22021 708

G: Specification of Y-number

Group	Specification	Difference from standard model
Y4****	Software and/or parameters are changed.	Hardware is exactly same as standard model.
Y5****	Ditto	Ditto
Y6****	Ditto	Ditto
Y7****	Ditto	Ditto
Y8****	Ditto	Ditto
Y9****	Ditto	Ditto

Nomenclature for Drive unit/1 axis (Y-Specification)

CACR-JU *** * * * * Y****
A **B** **C** **D** **E** **F** **G**

A: Series name, Sigma-V-SD Series Drive Unit

B: Continuous output current

Group	Output current			Output capacity			Input voltage	Output voltage		
	Spindle		Servo rated	Spindle		Servo rated				
	Rated	50%ED		Rated	50%ED					
028	22A	31A	23.8A	2.2kW	3.7kW	3kW	270Vdc	200V3ac		
	28A	34A		3.7kW	5.5kW					
036	36A	46A	32.9A	5.5kW	7.5kW	5kW			540Vdc	400V3ac
065	45A	60A	46.9A	7.5kW	11kW	6kW				
	65A	82A		11kW	15kW					
084	84A	100A	54.7A	15kW	18.5kW	7.5kW				
102	102A	116A	58.6A	18.5kW	22kW	11kW				
125	125A	160A	78.0A	22kW	30kW	15kW				
196	196A	240A	110A	37kW	45kW	22kW				
014	11A	15.5A	11.9A	2.2kW	3.7kW	3kW				
	14A	17A		3.7kW	5.5kW					
018	18A	23A	16.5A	5.5kW	7.5kW	5kW				
033	22.5A	30A	20.8A	7.5kW	11kW	6kW				
	32.5A	41A		11kW	15kW					
042	42A	50A	25.7A	15kW	18.5kW	7.5kW				
051	51A	58A	28.1A	18.5kW	22kW	11kW				
098	98A	120A	52A	37kW	45kW	22kW				

C: Input/Output voltage

Group	Input voltage	Output voltage	Unit type
A	270Vdc	200V3ac	Drive
D	540Vdc	400V3ac	Drive

Attachment
Certificate No.



Product Service

E6A 17 01 22021 708

D: Model

Group	Model
0	Analogue/Pulse I/F
2	MECHATROLINK-III I/F
C	EtherCAT I/F
D	Analogue I/F
E	Analogue Expanded I/F

E: Design revision order

- A: Standard
- B: Functional Safety SIL3

F: Mounting method

- Blank: Duct-ventilated
- B: Base-mounted

G: Specification of Y-number

Group	Specification	Difference from standard model	Remark
Y4****	Software and/or parameters are changed.	Hardware is exactly same as standard model.	In Analogue Expanded I/F, hardware is three kinds of any of option specification "Blank or 01 or 02".
Y5****	Ditto	Ditto	Ditto
Y6****	Ditto	Ditto	Ditto
Y7****	Ditto	Ditto	Ditto
Y8****	Ditto	Ditto	Ditto
Y9****	Ditto	Ditto	Ditto

Note: option specification "Blank" is standard model.

option specification "01" is encoder feedback orientation model.

option specification "02" is magnetic sensor feedback orientation model.

Attachment
Certificate No.



Product Service

E6A 17 01 22021 708

Nomenclature for Drive unit/2 axes (Y-Specification)

CACR-JU ** * * * * * Y*****
 A B C D E F G H

A: Series name, Sigma-V-SD Series Drive Unit

B: Number of axis
M2: 2 axes

C: Continuous output current

Group	Rated output current For 2 axes drive		Input voltage	Output voltage
	Axis 1	Axis 2		
3	11.6A	11.6A	270Vdc	200V3ac
4	18.5A	18.5A		
5	24.8A	24.8A		
3	5.4A	5.4A	540Vdc	400V3ac
4	8.4A	8.4A		
5	11.9A	11.9A		

D: Input/Output voltage

Group	Input voltage	Output voltage	Unit type
A	270Vdc	200V3ac	Drive
D	540Vdc	400V3ac	Drive

E: Model

Group	Model
0	Analogue/Pulse I/F
2	MECHATROLINK-III I/F
C	EtherCAT I/F

F: Design revision order

A: Standard

G: Mounting method

Blank: Duct-ventilated

B: Base-mounted

Attachment
Certificate No.



Product Service

E6A 17 01 22021 708

H: Specification of Y-number

Group	Specification	Difference from standard model
Y4****	Software and/or parameters are changed.	Hardware is exactly same as standard model.
Y5****	Ditto	Ditto
Y6****	Ditto	Ditto
Y7****	Ditto	Ditto
Y8****	Ditto	Ditto
Y9****	Ditto	Ditto