



Product Service

# CERTIFICATE

No. B 022021 0785 Rev. 03

**Holder of Certificate:** Yaskawa Electric Corp.  
**Tokyo Plant**  
480 Kamifujisawa, Iruma  
Saitama 358-8555  
JAPAN

**Certification Mark:**



**Product:** Servo Amplifier System  
AC Servo Amplifiers

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 73586458-03

**Valid until:** 2027-11-06

**Date,** 2022-11-07

( Shigehisa Ishikawa )

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Model(s): **SGDXW, SGDXT series**

Nomenclature:

1. Standard Spec., Hardware Option Spec., and FT Spec.

$\frac{\text{SGDXW-}}{\text{A}}$      $\frac{\text{***}}{\text{B}}$      $\frac{\text{*}}{\text{C}}$      $\frac{\text{**}}{\text{D}}$      $\frac{\text{*}}{\text{E}}$      $\frac{\text{****}}{\text{F}}$      $\frac{\text{**}}{\text{G}}$      $\frac{\text{*}}{\text{H}}$

Ex:                    Standard spec.                    SGDX\* - \*\*\* \* \* \* \*  
                           Hardware Option Spec.        SGDX\* - \*\*\* \* \* \* \* \* \* \*  
                           FT Spec.                            SGDX\* - \*\*\* \* \* \* \* \* \* \* \*

A: Model

Group	Model	Note
SGDXW	Sigma-X series SERVOPACK Sigma-XW model	Control of 2 axes
SGDXT	Sigma-X series SERVOPACK Sigma-XT model	Control of 3 axes

B+C: Continuous Output Current Type for SGDXW

Group	Rated input power			Rated output power per 1-axis		Note
	Input voltage	Number of phase	Input current	Output current	Output power	
1R6 A	AC200V	Three	2.5[A]	1.6[A]	0.2kW	
		Single	5.5[A]			
	DC270V	-	3.0[A]			
2R8 A	AC200V	Three	4.7[A]	2.8[A]	0.4kW	
		Single	11[A]			
	DC270V	-	5.8[A]			
5R5 A	AC200V	Three	7.8[A]	5.5[A]	0.75kW	
		Single	12[A]			
	DC270V	-	9.7[A]			
7R6 A	AC200V	Three	11[A]	7.6[A]	1.0kW	
	DC270V	-	14[A]			

B+C: Continuous Output Current Type for SGDXT

Group	Rated input power			Rated output power per 1-axis		Note
	Input voltage	Number of phase	Input current	Output current	Output power	
1R6 A	AC200V	Three	3.9[A]	1.6[A]	0.2kW	
		Single	7.2[A]			
	DC270V	-	4.5[A]			
2R8 A	AC200V	Three	7.5[A]	2.8[A]	0.4kW	
		Single	12[A]			
	DC270V	-	9[A]			

C: Rated Input/Output Voltage Type

Group	Rated Voltage Type		Note
	Input Voltage	Output Voltage	
A	200V3ac,ac 270Vdc	200V3ac	

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## D: Interface Type

Group	Interface Type	Note
40	MECHATROLINK-4/-III I/F	MECHATROLINK-4 and -III can be switched.
A0	EtherCAT I/F	

## E: Design Order

Group	Design Order	Note
A	Standard	

## F: Hardware Option Type

Digit	Bit	Hardware option specification	Note
14	0	Add the HWBB(STO) function	SGDXW and SGDXT
	1		
	2		
	3		
15	0		
	1		
	2		
	3		
16	0	Analog Voltage FB input type	
	1	External DB resistor type or Without DB	
	2		
	3	DO Output common	SGDXT only
17	0	Rack-mounted or Duct-ventilated type	
	1	Varnish coating	
	2	Measures for vibration	
	3		
0000 (blank)		Hardware Option none	

Note : The type of each digit is shown by a hex digit consisting of each bit.

e.g.)

SGDXW-1R6A40A + HWBB option + External DB resistor type + Rack-mounted + Varnish coating

Hardware option code is "1023". Details are shown below.

Digit 14 : 0001h = 1

Digit 15 : 0000h = 0

Digit 16 : 0010h = 2

Digit 17 : 0011h = 3

Then, the product type is "SGDXW-1R6A40A1023"

## G: Software Option Type

Group	Difference from Standard		Note
	Hardware	Software	
Blank	Same	Same	Standard or Hardware Option Spec. only.
0	Same or Diff.	Same	BTO order for Standard spec. and Hardware Option Spec
**	Same or Diff.	Diff.	FT Spec.

Note.1: 9\* is customized the safety related Software.

## H: Order Type

Group	Order Type	Note
Blank	Standard order	
B	BTO order	

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## 2. Y Spec.

$\frac{\text{SGDXW-}}{\text{A}}$      $\frac{\text{***}}{\text{B}}$      $\frac{*}{\text{C}}$      $\frac{\text{**}}{\text{D}}$      $\frac{*}{\text{E}}$      $\frac{\text{Y}}{\text{F}}$      $\frac{\text{*****}}{\text{G}}$

Ex:                      Y spec.                      SGDX\*- \*\*\*\*\* Y \*\*\*\*\*

### A: Model

Group	Model	Note
SGDXW	Sigma-X series SERVOPACK Sigma-XW model	Control of 2 axes
SGDXT	Sigma-X series SERVOPACK Sigma-XT model	Control of 3 axes

### B+C: Continuous Output Current Type for SGDXW

Group	Rated input power			Rated output power per 1-axis		Note
	Input voltage	Number of phase	Input current	Output current	Output power	
1R6 A	AC200V	Three	2.5[A]	1.6[A]	0.2kW	
		Single	5.5[A]			
	DC270V	-	3.0[A]			
2R8 A	AC200V	Three	4.7[A]	2.8[A]	0.4kW	
		Single	11[A]			
	DC270V	-	5.8[A]			
5R5 A	AC200V	Three	7.8[A]	5.5[A]	0.75kW	
		Single	12[A]			
	DC270V	-	9.7[A]			
7R6 A	AC200V	Three	11[A]	7.6[A]	1.0kW	
	DC270V	-	14[A]			

### B+C: Continuous Output Current Type for SGDXT

Group	Rated input power			Rated output power per 1-axis		Note
	Input voltage	Number of phase	Input current	Output current	Output power	
1R6 A	AC200V	Three	3.9[A]	1.6[A]	0.2kW	
		Single	7.2[A]			
	DC270V	-	4.5[A]			
2R8 A	AC200V	Three	7.5[A]	2.8[A]	0.4kW	
		Single	12[A]			
	DC270V	-	9[A]			

### C: Rated Input/Output Voltage Type

Group	Rated Voltage Type		Note
	Input Voltage	Output Voltage	
A	200V3ac,ac 270Vdc	200V3ac	

### D: Interface Type

Group	Interface Type	Note
40	MECHATROLINK-4/-III I/F	MECHATROLINK-4 and -III can be switched.
A0	EtherCAT I/F	

### E: Design Order

Group	Design Order	Note
A	Standard	

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F: Specification Type

Group	Specification Type	Note
Y	Y Specification	

F+G: Y Specification Type

Group	Difference from Standard		Note
	Hardware	Software	
Y*5***	Same	Diff.	Customized for non-safety related parameters and software.
Y*6***	Same	Diff.	Customized for non-safety related parameters and software.
Y*7***	Same	Diff.	Customized for non-safety related parameters and software.
Y*8***	Same	Diff.	Customized for non-safety related parameters and software.
Y*9***	Same	Diff.	Customized for non-safety related parameters and software.

## Parameters:

Rated voltage: 200-240 Vac, 3ac or 270 V-324 Vdc  
 Rated frequency: 50/60 Hz  
 Rated input current: 200 Vac/200 V3ac: 5.5 A-12 A/2.5 A-11 A,  
 270 Vdc: 3.0 A-14 A  
 Overvoltage category: III  
 Pollution degree: 2  
 Degree of protection: IP20  
 Protection Class: I

### Remark:

When installing / inserting the equipment, all requirements of the mentioned test standard must be fulfilled.

**Tested according to:** EN 61800-5-1:2007/A1:2017