



Product Service

CERTIFICATE

No. B 022021 0760 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

Test report no.: 73546901-11

Valid until: 2026-10-31

Date, 2023-03-10

(Atsushi Nishino)

CERTIFICATE

No. B 022021 0760 Rev. 03

Model(s): SGD7S, SGD7W, SGD7C [Model of Sigma-7 series]
JEPMC-OP3C01-E [Optional Base Unit]

Nomenclature:

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

SGD7*- *** * ** * *** * ** *
A B C D E F G H I

Ex: Standard spec. SGD7*- *** ** *
Hardware Option Spec. SGD7*- *** ** *
EX Spec. SGD7*- *** ** * E **
FT Spec. SGD7*- *** ** * F **

A: Model

Group	Model	Note
SGD7S	Sigma-7 series SERVOPACK Sigma-7S model	Control of 1 axis
SGD7W	Sigma-7 series SERVOPACK Sigma-7W model	Control of 2 axes
SGD7C	Sigma-7 series SERVOPACK Sigma-7C model	Control of 2 axes

B+C: Continuous Output Current Type for SGD7S

Group	Rated input power			Rated output power		Note
	Input voltage	Number of phase	Input current	Output current	Output power	
R70 A	AC200V	Three	0.4[A]	0.66[A]	0.05kW	
		Single	0.8[A]			
R90 A		Three	0.8[A]	0.91[A]	0.1kW	
		Single	1.6[A]			
1R6 A		Three	1.3[A]	1.6[A]	0.2kW	
		Single	2.4[A]			
2R8 A		Three	2.5[A]	2.8[A]	0.4kW	
		Single	5.0[A]			
3R8 A		Three	3.0[A]	3.8[A]	0.5kW	
		Single	4.1[A]			
5R5 A		Three	4.1[A]	5.5[A]	0.75kW	
		Single	8.7[A]			
7R6 A		Three	5.7[A]	7.6[A]	1.0kW	
		Single	7.3[A]			
120 A		Three	7.3[A]	11.6[A]	1.5kW	
		Single	16[A]			
180 A		Three	10[A]	18.5[A]	2.0kW	
		Single	15[A]			
200 A	Three	15[A]	19.6[A]	3.0kW		
	Single	25[A]				
330 A	Three	25[A]	32.9[A]	5 kW		
	Single	29[A]				
470 A	Three	29[A]	46.9[A]	6 kW		
	Single	37[A]				
550 A	Three	37[A]	54.7[A]	7.5 kW		
	Single	54[A]				
590 A	Three	54[A]	58.6[A]	11 kW		
	Single	73[A]				
780 A	Three	73[A]	78.0[A]	15 kW		
	Single					

B+C: Continuous Output Current Type for SGD7W and SGD7C

Group	Rated input power			Rated output power at 1-axis		Note
	Input voltage	Output current	Output current	Output current	Output power	
1R6 A	AC200V	Three	2.5[A]	1.6[A]	0.2kW	
		Single	5.5[A]			
2R8 A		Three	4.7[A]	2.8[A]	0.4kW	
		Single	11[A]			
5R5 A		Three	7.8[A]	5.5[A]	0.75kW	
		Single	12[A]			
7R6 A	Three	11[A]	7.6[A]	1.0kW		
	Single					

CERTIFICATE

No. B 022021 0760 Rev. 03

C: Rated Input/Output Voltage Type

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

D: Interface Type

Group	Interface Type	Note
20	MECHATROLINK-III I/F	Sigma-7W model only.
30	MECHATROLINK-III(RJ45) I/F	Sigma-7W model only.
MA	BUS I/F (Standard)	Sigma-7C model only.

E: Design Order

Group	Design Order	Note
A	Standard	--

F: Hardware Option Type

Group	Hardware Option Type	Note
Blank	Standard	Sigma-7W and Sigma-7C model standard specification only.
000	Standard	In case of Sigma-7W and Sigma-7C model software option only.
001	Rack mount type	Sigma-7W and Sigma-7C model only.
002	Vanish coating	
004	Measures for vibration	
006	Group# 002 and 004	
010	Open collector output of Encoder pulse	Sigma-7W and Sigma-7C model only.
020	External DB resistor type or Without DB	
021	DI power supply DC12V	
022	Zone output	
023	Analog Voltage FB input type	
024	Group# 002 and 020	
025	Group# 001 and 023	
027	Group# 020 and 021	
031	Group# 002 and 023	
032	Group# 001 and 002	
100	Pulse encoder interface and analog input for Thermistor on CN9. CN8(Safety Connector) eliminated.	SGD7S-***A30A only.
101	Group# 100 and 001	SGD7S-***A30A only.
102	Group# 100 and 002	SGD7S-***A30A only.
104	Group# 100 and 004	SGD7S-***A30A only.
108	Group# 100 and 200Vac(Single phase) input type	SGD7S-120A30A only.
110	Group# 100 and 010	SGD7S-***A30A only.
120	Group# 100 and 020	SGD7S-***A30A only.
121	Group# 100 and 021	SGD7S-***A30A only.
122	Group# 100 and 022	SGD7S-***A30A only.
124	Group# 100 and 024	SGD7S-***A30A only.

G: Specification Type

Group	Specification Type	Note
Blank	Standard or Hardware Option Spec.	--
0	BTO order	For Standard spec. and Hardware Option Spec.
E	EX specification	--
F	FT specification	--

CERTIFICATE

No. B 022021 0760 Rev. 03

G+H: Software Option Type

Group	Difference from Standard		Note
	Hardware	Software	
Blank	Same	Same	Standard or Hardware Option Spec. only.
000	Same or Diff.	Same	BTO order for Standard spec. and Hardware Option Spec
E**	Same or Diff.	Diff.	Except E9* and F9*. (see Note.1)
F**	Same or Diff.	Diff.	Customized for non-safety related Software. Hardware is defines of "Hardware Option Type".

Note.1: E9* and F9* are customized the safety related Software.

I: Order Type

Group	Order Type	Note
Blank	Standard order	--
B	BTO order	--

2. Y Spec.

SGD7*- *** * ** * Y *****
 A B C D E F G

Ex: Y spec.

SGD7*- *** ** * Y *****

A: Model

Group	Model	Note
SGD7W	Sigma-7 series SERVOPACK Sigma-7W model	Control of 2 axes
SGD7C	Sigma-7 series SERVOPACK Sigma-7C model	Control of 2 axes

B+C: Continuous Output Current Type for SGD7S

Group	Rated input power			Rated output power		Note
	Input voltage	Number of phase	Input current	Output current	Output power	
R70 A	AC200V	Three	0.4[A]	0.66[A]	0.05kW	
		Single	0.8[A]			
R90 A		Three	0.8[A]	0.91[A]	0.1kW	
		Single	1.6[A]			
1R6 A		Three	1.3[A]	1.6[A]	0.2kW	
		Single	2.4[A]			
2R8 A		Three	2.5[A]	2.8[A]	0.4kW	
		Single	5.0[A]			
3R8 A		Three	3.0[A]	3.8[A]	0.5kW	
5R5 A		Three	4.1[A]	5.5[A]	0.75kW	
		Single	8.7[A]			
7R6 A		Three	5.7[A]	7.6[A]	1.0kW	
120 A		Three	7.3[A]	11.6[A]	1.5kW	
		Single	16[A]			
180 A	Three	10[A]	18.5[A]	2.0kW		
200 A	Three	15[A]	19.6[A]	3.0kW		
330 A	Three	25[A]	32.9[A]	5 kW		
470 A	Three	29[A]	46.9[A]	6 kW		
550 A	Three	37[A]	54.7[A]	7.5 kW		
590 A	Three	54[A]	58.6[A]	11 kW		
780 A	Three	73[A]	78.0[A]	15 kW		

CERTIFICATE

No. B 022021 0760 Rev. 03

B+C: Continuous Output Current Type for SGD7W and SGD7C

Group	Rated input power			Rated output power at 1-axis		Note
	Input voltage	Output current	Output current	Output current	Output power	
1R6 A	AC200V	Three	2.5[A]	1.6[A]	0.2kW	
		Single	5.5[A]			
2R8 A		Three	4.7[A]	2.8[A]	0.4kW	
		Single	11[A]			
5R5 A		Three	7.8[A]	5.5[A]	0.75kW	
		Single	12[A]			
7R6 A	Three	11[A]	7.6[A]	1.0kW		

C: Rated Input/Output Voltage Type

Group	Rated Voltage Type		Note
	Input Voltage	Output Voltage	
A	200V3ac	200V3ac	--

D: Interface Type

Group	Interface Type	Note
20	MECHATROLINK-III I/F	--
30	MECHATROLINK-III(RJ45) I/F	--
MA	BUS I/F (Standard)	Sigma-7C model only.

E: Design Order

Group	Design Order	Note
A	Standard	--

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.	--
Y*6***	Same	Diff.	--
Y*7***	Same	Diff.	Customized for non-safety related Software.
Y*8***	Same	Diff.	--
Y*9***	Same	Diff.	--

3. Option Base Unit

JEPMC-
 A B C D E F

A: Family

Group	Family	Note
JEPMC-	A unit of Machine controller	Sigma-7C is possible to install the optional unit of the machine controller.

B: Unit Type

Group	Unit Type	Note
OP	Optional Unit	

CERTIFICATE

No. B 022021 0760 Rev. 03

C: Compatible Products Type

Group	Compatible Products Type	Note
3C	for Sigma-7-Series AC Servo Drive (Sigma-7C model)	

D: Model-Specific code

Group	Model-Specific code	Note
01	1 slot Base Unit	

E: for Special Customer code

Group	for Special Customer code	Note
Blank	Standard	
Y** T** N G	for Special Customer (**:Number)	Y** : (**:Number from 0 to 99) T** : (**:Number from 0 to 99) Blank means standard

F: for RoHS

Group	for RoHS	Note
-E	RoHS Compliance	

Parameters:

SGD7S, SGD7W, SGD7C Series

Rated voltage:	AC 200-240 V
Rated frequency:	50/60 Hz
Rated input current:	0.8 A-16 A (200 Vac model) 0.4 A-73 A (200 V3ac model)
Pollution degree:	2
Degree of protection:	IP10 and IP20
Protection class:	I
Overvoltage category:	III

JEPMC-OP3C01-E

Rated voltage:	24 Vdc
Rated input current:	0.8 A
Pollution degree:	2
Degree of protection:	IP20

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