



Product Service

EC-Statement of Compliance

No. E6 15 03 22021 582

Holder of Certificate: Yaskawa Electric Corp.
Tokyo Plant

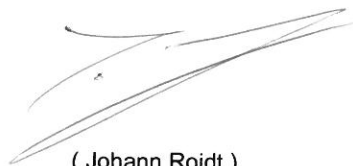
480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN

Name of Object: AC servo systems
AC Servo Motor

This EC-Statement of Compliance is issued according to the Directive 2004/108/EC relating to electromagnetic compatibility. It confirms that the listed apparatus complies with such aspects of the essential 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 to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

Technical report no.: 73551654

Date, 2015-03-30


(Johann Roidt)



TÜV SÜD Product Service GmbH is Notified Body to the Directive 2004/108/EC of the European Parliament and of the council with the identification number 0123.

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Model(s): SGMGH-03xxxxxx, SGMGH-05xxxxxx,
 SGMGH-08xxxxxx, SGMGH-09xxxxxx,
 SGMGH-13xxxxxx, SGMGH-20xxxxxx,
 SGMGH-30xxxxxx, SGMGH-44xxxxxx,
 SGMGH-55xxxxxx, SGMGH-75xxxxxx,
 SGMGH-1Axxxxxx, SGMGH-1Exxxxxx,
 SGMGH-06xxxxxx, SGMGH-09xxxxxx,
 SGMGH-12xxxxxx, SGMGH-20xxxxxx,
 SGMGH-30xxxxxx, SGMGH-40xxxxxx,
 SGMSH-10xxxxxx, SGMSH-15xxxxxx,
 SGMSH-20xxxxxx, SGMSH-30xxxxxx,
 SGMSH-40xxxxxx, SGMSH-50xxxxxx,
 SGMSH-70xxxxxx, SGMSH-15PCA61-Y2,
 SGMSH-20PCA21-Y2, SGMSH-30PCA21-Y2,
 SGMSH-40PCA61-Y2, SGMSH-15PCA2C-Y2,
 SGMSH-20PCA2C-Y2, SGMSH-30PCA2C-Y2,
 SGMDH-22xxxxxx, SGMDH-32xxxxxx,
 SGMDH-40xxxxxx, SGMGH-xxxxxxx-E,
 SGMSH-xxxxxxx-E, SGMDH-xxxxxxx-E
 (See attachment for Nomenclature)

Description of Object:

Rated Voltage:	200 VAC
Rated Power:	0.3 kW - 15 kW
Protection Class:	I
EMC Classification:	Group 1, Class A (EN 55011)

Tested according to: EN 55011:2009/A1:2010
 EN 61000-6-2:2005

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Product Service

Nomenclature

Σ - II Series

1. MODEL DESCRIPTION

1.1 PRODUCT COVERED:

Component-AC Servo Motors, Series SGMGH, SGMSH, SGMDH, followed by any number from 03 to 1E, followed by A, P, followed by 2,C, and so on, followed by A, may be followed by additional letters and/or numbers.

1.2 ELECTRICAL RATINGS:

1.2.1 SGMGH Series

<u>Model</u>	<u>Voltage</u>	<u>Phases</u>	<u>Watts (kW)</u>
SGMGH-03xxxxxx	200	3	0.3
SGMGH-05xxxxxx	200	3	0.45
SGMGH-08xxxxxx	200	3	0.75
SGMGH-09xxxxxx	200	3	0.85
SGMGH-13xxxxxx	200	3	1.3
SGMGH-20xxxxxx	200	3	1.8
SGMGH-30xxxxxx	200	3	2.9
SGMGH-44xxxxxx	200	3	4.4
SGMGH-55xxxxxx	200	3	5.5
SGMGH-75xxxxxx	200	3	7.5
SGMGH-1Axxxxxx	200	3	11
SGMGH-1Exxxxxx	200	3	15
SGMGH-03xxxxxx	200	3	0.3
SGMGH-06xxxxxx	200	3	0.6
SGMGH-09xxxxxx	200	3	0.9
SGMGH-12xxxxxx	200	3	1.2
SGMGH-20xxxxxx	200	3	2.0
SGMGH-30xxxxxx	200	3	3.0
SGMGH-40xxxxxx	200	3	4.0
SGMGH-55xxxxxx	200	3	5.5

1.2.2 SGMSH Series

<u>Model</u>	<u>Voltage</u>	<u>Phases</u>	<u>Watts (kW)</u>
SGMSH-10xxxxxx	200	3	1.0
SGMSH-15xxxxxx	200	3	1.5
SGMSH-20xxxxxx	200	3	2.0
SGMSH-30xxxxxx	200	3	3.0
SGMSH-40xxxxxx	200	3	4.0
SGMSH-50xxxxxx	200	3	5.0
SGMSH-70xxxxxx	200	3	7.0

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1.2.3 SGMDH Series

<u>Model</u>	<u>Voltage</u>	<u>Phases</u>	<u>Watts (kW)</u>
SGMDH-22xxxxxx	200	3	2.2
SGMDH-32xxxxxx	200	3	3.2
SGMDH-40xxxxxx	200	3	4.0

“ X ” represents Variations in model number as described in product covered and series nomenclature which do not affect electrical construction or rating. Reference Product Covered” or “Series Nomenclature”.

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1.3 Series Nomenclature

1.3.1 Standard

SGMSH - 10 A C A -E

A b c d e f g h i

a. Motor Series: SGMGH, SGMSH, SGMDH

b. Motor Output (kW)

Series Rated Speed	SGMGH		SGMSH	SGMDH
	(r/min.) 1500	(r/min.) 1000	(r/min.) 3000	(r/min.) 2000
03	0.3	0.3		
05	0.45			
06		0.6		
08	0.75			
09	0.85	0.9		
10			1.0	
12		1.2		
13	1.3			
15			1.5	
20	1.8	2.0	2.0	
22				2.2
30	2.9	3.0	3.0	
32				3.2
40		4.0	4.0	4.0
44	4.4			
50			5.0	
55	5.5	5.5		
70			7.0	
75	7.5			
1A	11.0			
1E	15.0			

c. Supply Voltage and Structure which of Encoder's shaft connect to Motor's shaft.

Symbol	Supply Voltage	Structure which of Encoder's shaft connect to Motor's shaft
A	200V	Encoder's shaft connect direct to Motor's shaft
P		Encoder's shaft connect to Motor's shaft by Flexible coupling
K		The same as symbol "A". Among SGMGH-05 and SGMGH-08, flange size <input type="checkbox"/> 90 type, use this symbol "K".

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d. Detector:

Symbol	Contents
C	Incremental (17bit)
2	Absolute Value (17bit)
3	Absolute Value (20bit)
5	Absolute Value (17bit) With Super Capacitor

e. Design Revision Order and Rated Speed

- A: SGMGH Series (1500r/min.)
SGMSH Series (3000r/min.)
SGMDH Series (2000r/min.)
- B: SGMGH Series (1000r/min.)
- C: SGMGH Series (1500r/min.)
For high precision machine tool
- D: SGMGH Series (1000r/min.)
For high precision machine tool

f. Shaft Type:

Symbol	Contents
2	Straight
4	Straight, Without Key
6	Straight, With Key and Tap
3	1/10 Conical shaft ends, With Sunk Key
5	1/10 Conical shaft ends, With Woodruff Key
8	Straight, With Tap

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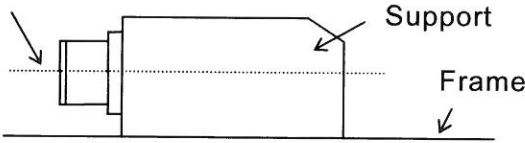


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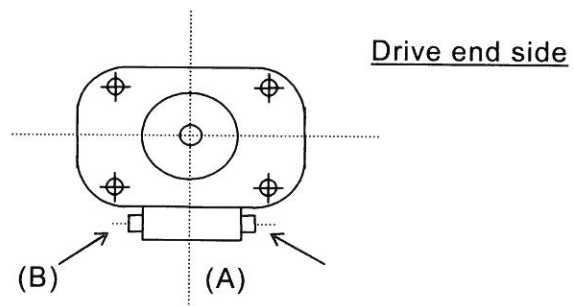
g. Optional parts:

Symbol	Contents
F	With Oil Seal (V type)
G	With Oil Seal (V type) and With Holding Brake (DC90V)
H	With Oil Seal (V type) and With Holding Brake (DC24V)
D	With Oil Seal (S type) and With Holding Brake (DC90V)
E	With Oil Seal (S type) and With Holding Brake (DC24V)
S	With Oil Seal (S type)
1	Without Option
B	With Holding Brake (DC90V)
C	With Holding Brake (DC24V)

h. Design of connection

Symbol	Contents	Draw out direction *1
Blank	Receptacle	
B	With right-angled Support Receptacle	(A)
C		(B)
F	Cable Type 1	(A)
G	(See BE9359793)	(B)
H	Cable Type 2	(A)
J	(See BE9359793)	(B)

* 1 Draw out direction



i. Motor for RoHS directive (Optional)

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1.3.2 Exclusive Design for Customer

SGMSH - 10 A C A - □ □ □ □ -E
 a b c d e f g h i j

a to d.same as standard

e. Revision Order and Rated Speed

- A: SGMGH Series (1500r/min.)
 SGMSH Series (3000r/min.)
 SGMDH Series (2000r/min.)
- B: SGMGH Series (1000r/min.)
- C: SGMGH Series (1500r/min.)
 For high precision machine tool
- D: SGMGH Series (1000r/min.)
 For high precision machine tool
- E: SGMGH Series (Special Rated Speed)
 SGMSH Series (Special Rated Speed)
 SGMDH Series (Special Rated Speed)

f, g. Customer Code

h, i. Design Revision Order for Customer

- 2 digit code for specific change for the client.
 Shaft, encoder (EMC counter measure), output downward,
 addition of name plate for the client, direction of lead wire outlet,
 change mounting bracket.

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j. Motor for RoHS directive (Optional)

2. International Protection class (IP class)

No.	Contents	Except for drive End side (*1)	Oil seal of drive end side	
			V type	S type
1	Connection: Receptacle	IP67	IP55	IP67
2	Connection: Receptacle (With right-angled support)	IP67	IP55	IP67
3	Connection: Cable	IP55	IP55	IP55
4	SGMSH-70xxx-xxxx	IP22	IP22	IP22

*1. When drive end side needs IP55 or IP67, mount an oil seal.

Although, SGMSH-70xxx-xxxx stays IP22 even mounting an oil seal.