



Product Service

# EC-Statement of Compliance

No. E6 15 03 22021 580

**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.:** 73551655



**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 Series, SGMSH Series, SGMUH Series:**  
 SGMGH-05xxxxxx, SGMGH-09xxxxxx,  
 SGMGH-13xxxxxx, SGMGH-20xxxxxx,  
 SGMGH-20DCA-YG27, SGMGH-30xxxxxx,  
 SGMGH-44xxxxxx, SGMGH-55xxxxxx,  
 SGMGH-75xxxxxx, SGMGH-1Axxxxxx,  
 SGMGH-1Exxxxxx, SGMGH-xxxxxxx-E,  
 SGMSH-10xxxxxx, SGMSH-15xxxxxx,  
 SGMSH-20xxxxxx, SGMSH-30xxxxxx,  
 SGMSH-40xxxxxx, SGMSH-50xxxxxx,  
 SGMSH-xxxxxxx-E, SGMUH-10xxxxxx,  
 SGMUH-15xxxxxx, SGMUH-30xxxxxx,  
 SGMUH-40xxxxxx, SGMUH-xxxxxxx-E,  
 SGMGH-05xxxxxx-OY, SGMGH-09xxxxxx-OY,  
 SGMGH-13xxxxxx-OY, SGMGH-20xxxxxx-OY,  
 SGMGH-30xxxxxx-OY, SGMGH-44xxxxxx-OY,  
 SGMGH-55xxxxxx-OY, SGMGH-75xxxxxx-OY,  
 SGMGH-1Axxxxxx-OY, SGMGH-1Exxxxxx-OY,  
 SGMSH-10xxxxxx-OY, SGMSH-15xxxxxx-OY,  
 SGMSH-20xxxxxx-OY, SGMSH-30xxxxxx-OY,  
 SGMSH-40xxxxxx-OY, SGMSH-50xxxxxx-OY,  
 SGMUH-10xxxxxx-OY, SGMUH-15xxxxxx-OY,  
 SGMUH-30xxxxxx-OY, SGMUH-40xxxxxx-OY  
 (See Attachment for Nomenclature)

**Description of Object:**

Rated Voltage: 400 VAC  
 Rated Power: 0.45 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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**Nomenclature**

**Σ-II Series**

**1.MODEL DESCRIPTION**

**1.1 PRODUCT COVERED:**

Component-AC Servo Motors, Series SGMGH, SGMSH, SGMUH followed by any number from 05 to 1E, followed by D, Q 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-05xxxxxx	400	3	0.45
SGMGH-09xxxxxx	400	3	0.85
SGMGH-13xxxxxx	400	3	1.3
SGMGH-20xxxxxx	400	3	1.8
SGMGH-30xxxxxx	400	3	2.9
SGMGH-44xxxxxx	400	3	4.4
SGMGH-55xxxxxx	400	3	5.5
SGMGH-75xxxxxx	400	3	7.5
SGMGH-1Axxxxxx	400	3	11
SGMGH-1Exxxxxx	400	3	15

**1.2.2 SGMSH Series**

<u>Model</u>	<u>Voltage</u>	<u>Phases</u>	<u>Watts (kW)</u>
SGMSH-10xxxxxx	400	3	1.0
SGMSH-15xxxxxx	400	3	1.5
SGMSH-20xxxxxx	400	3	2.0
SGMSH-30xxxxxx	400	3	3.0
SGMSH-40xxxxxx	400	3	4.0
SGMSH-50xxxxxx	400	3	5.0

**1.2.2 SGMUH Series**

<u>Model</u>	<u>Voltage</u>	<u>Phases</u>	<u>Watts (kW)</u>
SGMUH-10xxxxxx	400	3	1.0
SGMUH-15xxxxxx	400	3	1.5
SGMUH-30xxxxxx	400	3	3.0
SGMUH-40xxxxxx	400	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 D C A □ □ □ -E  
 a      b   c   d   e   f   g   h   i

- a. Motor Series:SGMGH,SGMSH,SGMUH
- b. Motor Output(kW)

Series Rated Speed	SGMGH	SGMSH	SGMUH
	(r/min.) 1500	(r/min.) 3000	(r/min.) 6000
05	0.45		
09	0.85		
10		1.0	1.0
13	1.3		
15		1.5	1.5
20	1.8	2.0	
30	2.9	3.0	3.0
40		4.0	4.0
44	4.4		
50		5.0	
55	5.5		
75	7.5		
1A	11.0		
1E	15.0		

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

Symbol	Supply Vottage	Structure which of Encoder's shaft connect to Motor's shaft
D	400V	Encoder's shaft connect direct to Motor's shaft
Q		Encoder's shaft connect Motor's shaft by flexible Coupling

- d. Detector:

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

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e. Design Revision Order and Rated Speed

A: SGMGH Series(1500r/min.)

SGMSH Series(3000r/min.)

SGMUH Series(6000r/min.)

C: SGMGH Series(1500r/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

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)

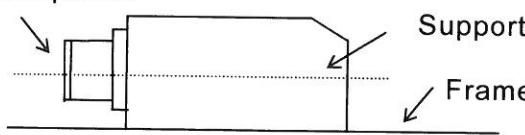
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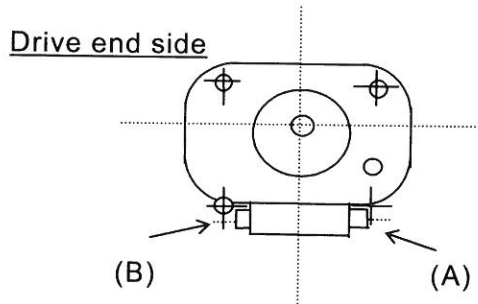


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h.Design of connection

Symbol	Contents	Draw out direction *1
Blank	Receptacle	/
B	With right-angled Support Receptacle	(A)
C		(B)

\* 1 Draw out direction



i.Motor for RoHS directive (Optional)

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1.3.2 Exclusive Design for Customer

SGMSH - 10 D 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.)
  - SGMUH Series(6000r/min.)
  - C:SGMGH Series(1500r/min.)
- For high precision machine tool

f,g.Customer Code

h,i.Design Revision Order for Customer

j.Motor for RoHS directive(Optional)

2. International Protection class(IP class)

No.	Contents	Except for drive end side (*1)	Oilseal 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

\*1.When drive end side needs IP55 or IP67,mount an oilseal.