



Product Service

CERTIFICATE

No. B 15 05 22021 589

Holder of Certificate: Yaskawa Electric Corp.
Tokyo Plant480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN**Production Facility(ies):** 48675**Certification Mark:****Product:** Electric Motors
AC Servo Motor**Model(s):** SGMSS Series
(See Attachment for Nomenclature)**Parameters:**
Rated voltage: AC 200 V, 3 Phase
Rated output power: 1.0 - 7.0 kW
Rated input current: 5.7 - 38.3 A
IP: 67/55/22
Protection class: I
Remark:
When installing/inserting the equipment, all requirements of the mentioned test standards must be fulfilled.**Tested according to:** EN 60034-1:2010
EN 60034-5:2001/A1:2007
EN 60034-9:2005/A1:2007

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. See also notes overleaf.

Test report no.: 73552797**Valid until:** 2020-05-17**Date,** 2015-05-20
(Shigehisa Ishikawa)

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Technical Data

Model Description

SGMSS Model Description

Electrical Ratings:

Model	Voltage (V)	Phase	Watts (KW)	Rated speed (r/min.)	Current (A)	Torque (N·m)
SGMSS-10AxAxxx	200	3	1.0	3000	5.7	3.18
SGMSS-15AxAxxx	200	3	1.5	3000	9.3	4.9
SGMSS-20AxAxxx	200	3	2.0	3000	12.1	6.36
SGMSS-25AxAxxx	200	3	2.5	3000	13.8	7.96
SGMSS-30AxAxxx	200	3	3.0	3000	17.9	9.8
SGMSS-40AxAxxx	200	3	4.0	3000	25.4	12.6
SGMSS-50AxAxxx	200	3	5.0	3000	27.6	15.8
SGMSS-70AxAxxx	200	3	7.0	3000	38.3	22.3

“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”.
Particulars about “-E” model see Series Nomenclature.

Nomenclature for SGMSS AC Servo Motor:

Standard

SGMSS- 10 A x A x x x -E
 a b c d e f g h i

- a. Motor Series : SGMSS
- b. Motor Output:

10	1.0KW
15	1.5KW
20	2.0KW
25	2.5KW
30	3.0KW
40	4.0KW
50	5.0KW
70	7.0KW



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- c. Supply voltage, and structure of encoder's shaft, which is connecting to motor.

SGMSS-10

Symbol	Supply voltage	A structure of encoder's shaft, which is connecting to the associated motor
A	200V	Direct connection
P	200V	By flexible coupling

SGMSS-15 to 70

Symbol	Supply voltage	A structure of encoder's shaft, which is connecting to the associated motor
A	200V	By flexible coupling

- d. Detector:

C	Incremental (17 bit)
2	Absolute Value (17 bit)
3	Absolute Value (20 bit)
5	Absolute Value (17 bit + super capacitor)

- e. Design Revision Order:

A	Standard (rated speed 3000min ⁻¹ , peak torque 300%)
V	Stator winding is same as the standard, although motor specification is different.
W	Stator winding and motor specifications are different from the standard.

- f. Shaft Type:

Symbol	Mechanical Structure
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 Specification:

Symbol	Option
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 cable connection:

Blank(receptacle), {B, C(with right-angle support)}, {F, G(cable type1, see BE9359793)}, {H,J(cable type 1, see BE9359793)}

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i. Design of RoHS responses model.

-E or blank.

If be indicated "-E", those models represent RoHS responses model.

IP classes-1

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

*1: When drive end side needs IP55 or 67, mount an oil seal to the shaft.

IP class-2

No.	Contents	Except for drive end side (*1)	Oil seal of drive end side	
			V type	S type
1	SGMSS-70Axxxxx	IP22	IP22	IP22

*1: IP22 even mounting an oil seal to the shaft.

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Exclusive design for customer (Case 1)

SGMSS- 10 A X A - X X X X -E
 a b c d e f g h i j

a. to e. are same designation as standard type.

f. g. Customer code
 Alphameric character(s) or none

h. i. Design revision order for customer
 Alphameric character(s) or none

j. Design of RoHS responses model.
 -E or blank.
 If be indicated "-E", those models represent RoHS responses model.

Exclusive design for customer (Case 2)

SGMSS- 10 A X A X X X -YX -E
 a b c d e f g h i j

a. to h. are same designation as standard type.

i. Customer code Y2 – Change of brake type for improvement of reliability.
 Y3 – Change of characteristic for torque.

j. Design of RoHS responses model.
 -E or blank.
 If be indicated "-E", those models represent RoHS responses model.