



Product Service

CERTIFICATE

No. B 15 05 22021 592

Holder of Certificate: Yaskawa Electric Corp.
Tokyo Plant480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN**Production Facility(ies):** 48675**Certification Mark:****Product:** Servo Motor
AC Servo Motor**Model(s):** SGMSV Series
(See Attachment for Nomenclature)**Parameters:**
Rated voltage: AC 200 V, 400 V, 3 phase
Rated output power: 1.0 - 7.0 kW
Rated input current: 2.8 - 38.3 A
Rated torque: 3.18 - 22.3 N·m
Rated speed: 3000 1/min
Degree of protection: IP22, IP55, IP67
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

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.: 73551084**Valid until:** 2020-05-17**Date,** 2015-05-20
(Shigehisa Ishikawa)

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Technical Data

Electrical ratings

Motor type	Rated output (W)	Rated torque (N·m)	Rated speed (min ⁻¹)	Max. speed (min ⁻¹)	Rated current (A)	Supply Voltage	Rated	Thermal class
SGMSV-10AxAxxx	1.0	3.18	3000	6000	5.7	200	CONT.	F
SGMSV-15AxAxxx	1.5	4.90	3000	5000	9.3	200	CONT.	F
SGMSV-20AxAxxx	2.0	6.36	3000	5000	12.1	200	CONT.	F
SGMSV-25AxAxxx	2.5	7.96	3000	5000	13.8	200	CONT.	F
SGMSV-30AxAxxx	3.0	9.80	3000	5000	17.9	200	CONT.	F
SGMSV-40AxAxxx	4.0	12.6	3000	5000	25.4	200	CONT.	F
SGMSV-50AxAxxx	5.0	15.8	3000	5000	27.6	200	CONT.	F
SGMSV-70AxAxxx	7.0	22.3	3000	5000	38.3	200	CONT.	F
SGMSV-10DxAxxx	1.0	3.18	3000	6000	2.8	400	CONT.	F
SGMSV-15DxAxxx	1.5	4.90	3000	5000	4.7	400	CONT.	F
SGMSV-20DxAxxx	2.0	6.36	3000	5000	6.2	400	CONT.	F
SGMSV-25DxAxxx	2.5	7.96	3000	5000	6.9	400	CONT.	F
SGMSV-30DxAxxx	3.0	9.80	3000	5000	8.9	400	CONT.	F
SGMSV-40DxAxxx	4.0	12.6	3000	5000	12.5	400	CONT.	F
SGMSV-50DxAxxx	5.0	15.8	3000	5000	13.8	400	CONT.	F

Nomenclature

Standard

$\frac{\text{SGMSV} -}{a} \quad \frac{10}{b} \quad \frac{x}{c} \quad \frac{x}{d} \quad \frac{A}{e} \quad \frac{x}{f} \quad \frac{x}{g} \quad \frac{x}{h}$

a. Motor Series: SGMSV

b. Motor Output (W):

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

c. Supply Voltage:

- A: 200 V
- D: 400 V

d. Encoder:

- D: Incremental (20bit)
- 3: Absolute value (20bit)

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e. Design Revision Order

- A: The Standard (Rated Speed 3000 min⁻¹, Peak Torque 300 %)
- V: Winding is the same as a standard. The characteristic is different.
- W: Winding and characteristic is differ from a standard.

f. Shaft Type:

- 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:

- F: With oil seal (V type) (for CE only)
- G: With oil seal (V type) and with holding brake (DC90V) (for CE only)
- H: With oil seal (V type) and with holding brake (DC24V) (for CE only)
- 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:

- Blank: Receptacle
- B, C: With right-angled Support
- F, G: Cable Type 1
- H, J: Cable Type 2

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Exclusive Design for Customer (case 1):

<u>SGMSV -</u>	<u>10</u>	<u>x</u>	<u>x</u>	<u>A</u>	-	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>
a	b	c	d	e		f	g	h	i

a - d: Same as Standard

e: Design Revision Order

A: The Standard (Rated Speed 3000 min⁻¹)

V: Winding is the same as a standard. The characteristic is different.

W: Winding and the characteristic differ from a standard.

f, g: Customer Code:
Alpha-numerical or none

h, i: Design Revision Order for Customer:
Alpha-numerical or none

Exclusive Design for Customer (case 2):

<u>SGMSV -</u>	<u>10</u>	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>	-	<u>x</u>	<u>x</u>
a	b	c	d	e	f	g	h		i	j

a - h: Same as Standard

i: Customer Code:
Alpha-numerical or none

j: Design Revision Order for Customer:
Alpha-numerical or none

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INTERNATIONAL PROTECTION CLASS (IP class)

1.0 to 5.0kW motors (without cooling fan)

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 (Cable isn't attached to the motor.)	IP67	IP55	IP67

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

7.0kW motors (with cooling fan)

No.	Contents	Except for drive end side	Oil seal of drive end side	
			V type	S type
1	SGMSV-70AxAxxx	IP22(*2)	IP22(*2)	IP22(*2)

*2. Protection class of whole of motor is IP22 even mounting an oilseal to the shaft.