



Product Service

# CERTIFICATE

No. B 16 08 22021 673

**Holder of Certificate:** Yaskawa Electric Corp.  
Tokyo Plant

480 Kamifujisawa, Iruma  
Saitama 358-8555  
JAPAN

**Production Facility(ies):** 48921

**Certification Mark:**



**Product:** Electric Motors  
AC Servo Motor

**Model(s):** SGMCS, SGM7E series  
(See Attachment for Nomenclature)

**Parameters:**

Rated voltage:	AC 200 V
Rated input current:	1,4 - 3,6 A (SGMCS Model) 1,4 - 3,5 A (SGM7E Model)
Rated output power:	42 - 550 W (SGMCS, SGM7E Model)
Protection class:	I
Degree of protection:	IP42, IP65 (SGMCS Model) IP40 (SGM7E Model)

**Remark:**  
When installing / inserting the equipment, all requirements of the mentioned test standard 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.:** 73561244

**Valid until:** 2021-08-25

**Date,** 2016-08-29

( Yoshio Sato )

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### Electrical ratings –

#### SGMCS series

Model	Voltage /Phase	Amps(A)	Output(W)	Torque(N·m)
SGMCS-02Bxxxx	200 / 3	1,9	42	2,0
SGMCS-05Bxxxx	200 / 3	1,8	105	5,0
SGMCS-07Bxxxx	200 / 3	1,4	147	7,0
SGMCS-04Cxxxx	200 / 3	2,1	84	4,0
SGMCS-10Cxxxx	200 / 3	2,0	209	10,0
SGMCS-14Cxxxx	200 / 3	2,0	293	14,0
SGMCS-08Dxxxx	200 / 3	2,1	168	8,0
SGMCS-17Dxxxx	200 / 3	2,3	356	17,0
SGMCS-25Dxxxx	200 / 3	2,7	393	25,0
SGMCS-16ExAxx	200 / 3	3,5	335	16,0
SGMCS-35ExAxx	200 / 3	3,6	550	35,0
SGMCS-16ExBxx	200 / 3	3,3	335	16,0
SGMCS-35ExBxx	200 / 3	3,5	550	35,0
SGMCS-02BxCxx	200 / 3	1,8	42	2,0
SGMCS-05BxCxx	200 / 3	1,7	105	5,0
SGMCS-07BxCxx	200 / 3	1,4	147	7,0
SGMCS-04CxCxx	200 / 3	2,2	84	4,0
SGMCS-10CxCxx	200 / 3	2,2	209	10,0
SGMCS-14CxCxx	200 / 3	2,8	293	14,0
SGMCS-08DxCxx	200 / 3	1,9	168	8,0
SGMCS-17DxCxx	200 / 3	2,5	356	17,0
SGMCS-25DxCxx	200 / 3	2,6	393	25,0

#### SGM7E series

Model	Voltage /Phase	Amps(A)	Output(W)	Torque(N·m)
SGM7E-02Bxxxx	200 / 3	1,8	42	2,0
SGM7E-05Bxxxx	200 / 3	1,7	105	5,0
SGM7E-07Bxxxx	200 / 3	1,4	147	7,0
SGM7E-04Cxxxx	200 / 3	2,2	84	4,0
SGM7E-10Cxxxx	200 / 3	2,2	209	10,0
SGM7E-14Cxxxx	200 / 3	2,8	293	14,0
SGM7E-08Dxxxx	200 / 3	1,9	168	8,0
SGM7E-17Dxxxx	200 / 3	2,5	356	17,0
SGM7E-25Dxxxx	200 / 3	2,6	393	25,0
SGM7E-16Exxxx	200 / 3	3,3	335	16,0
SGM7E-35Exxxx	200 / 3	3,5	550	35,0

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### Nomenclature for SGMCS Model:

#### Standard:

SGMCS - 02 B 3 A 1 1 -E  
a b c d e f g h

- a. Motor type: SGMCS Type
- b. Motor Torque:
- |    |         |
|----|---------|
| 02 | 2,0N·m  |
| 05 | 5,0N·m  |
| 07 | 7,0N·m  |
| 04 | 4,0N·m  |
| 10 | 10,0N·m |
| 14 | 14,0N·m |
| 08 | 8,0N·m  |
| 17 | 17,0N·m |
| 25 | 25,0N·m |
| 16 | 16,0N·m |
| 35 | 35,0N·m |
- c. Motor Outer Diameter:
- |   |          |
|---|----------|
| B | 135 dia. |
| C | 175 dia. |
| D | 230 dia. |
| E | 290 dia. |
- d. Encoder:
- |   |                             |
|---|-----------------------------|
| D | 20bit Serial Incremental    |
| 3 | 20bit Serial Absolute Value |
- e. Design revision order:
- |   |   |
|---|---|
| A | Standard (Crossed roller bearing)       |
| B | Standard (Angular contact ball bearing) |
| C | Standard (Angular contact ball bearing) |
- f. Connector Position:
- |   |                        |
|---|------------------------|
| 1 | C-face                 |
| 2 | Flange mount type      |
| 4 | C-face with cable type |
- g. Optional Specification:  
Any number or alphabet numeral for non-critical optional provision
- h. Design of RoHS model:
- |       |                          |
|-------|--------------------------|
| -E    | RoHS Responses Model     |
| blank | RoHS Non-responses Model |

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**Exclusive Design for Customer:**

$\frac{\text{SGMCS}}{\text{a}} - \frac{\text{02}}{\text{b}} \frac{\text{B}}{\text{c}} \frac{\text{D}}{\text{d}} \frac{\text{A}}{\text{e}} - \frac{*}{\text{f}} \frac{*}{\text{g}} \frac{*}{\text{h}} \frac{*}{\text{i}}$

- a. Motor type: SGMCS Type
- b. Motor Torque:
 

02	2,0N·m
05	5,0N·m
07	7,0N·m
04	4,0N·m
10	10,0N·m
14	14,0N·m
08	8,0N·m
17	17,0N·m
25	25,0N·m
16	16,0N·m
35	35,0N·m
- c. Motor Outer Diameter:
 

B	135 dia.
C	175 dia.
D	230 dia.
E	290 dia.
- d. Encoder:
 

D	20bit Serial Incremental
3	20bit Serial Absolute Value
- e. Design revision order:
 

A	Standard (Crossed roller bearing)
B	Standard (Angular contact ball bearing)
C	Standard (Angular contact ball bearing)
- f,g. Customer Code: \*\* Put any 2 digits alphanumeric
- h,i. Design revision order for customer:
 

**	Put any 2 digits alphanumeric
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Constriction of exclusive design for customer

Type	Difference from the standard type	Drawing and parts list
SGMCS-10C3A-MB11	Cable direction and position only	DP0311394
SGMCS-17D3A-MB11	Cable direction and position only	DP0311398
SGMCS-35E3A-MB11	Cable direction and position only	DP0311400
SGMCS-08DDA-TE12	Type only (Customer code)	DP0310547 DP0311586 (Parts list, Table-2)
SGMCS-14C3B-NT21	Bearing cover size only	DP0350110
SGMCS-05B3B-NT11	Mechanical fixture is modified upon a client.	DP0312901
SGMCS-14C3B-NT12	Mechanical fixture is modified upon a client.	DP0312056
SGMCS-25D3B-NT11	Mechanical fixture is modified upon a client.	DP0312380
SGMCS-17D3B-MB21	Mechanical length, connector and cable IP65 (oil-seal and o-ring)	DP0312422

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### Nomenclature for SGM7E Model:

#### Standard:

SGM7E - 02 B F A 1 1  
 a b c d e f g

- a. Motor type: SGM7E type
- b. Motor Torque:
 

02	2,0N·m
05	5,0N·m
07	7,0N·m
04	4,0N·m
10	10,0N·m
14	14,0N·m
08	8,0N·m
17	17,0N·m
25	25,0N·m
16	16,0N·m
35	35,0N·m
- c. Motor Outer Diameter:
 

B	135 dia.
C	175 dia.
D	230 dia.
E	290 dia.
- d. Encoder:
 

F	24bit Serial Incremental
7	24bit Serial Absolute Value
- e. Design revision order:
 

A	Standard (Angular contact ball bearing)
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- f. Connector Position:
 

1	C-face
4	C-face with cable type
- g. Optional Specification:
 

1	Without option
2	High precision



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**Exclusive Design for Customer:**

SGM7E - 02 B F A - \* \* \* \*  
a b c d e f g h i

- a. Motor type: SGM7E Type
- b. Motor Torque:
 

02	2,0N·m
05	5,0N·m
07	7,0N·m
04	4,0N·m
10	10,0N·m
14	14,0N·m
08	8,0N·m
17	17,0N·m
25	25,0N·m
16	16,0N·m
35	35,0N·m
- c. Motor Outer Diameter:
 

B	135 dia.
C	175 dia.
D	230 dia.
E	290 dia.
- d. Encoder:
 

F	24bit Serial Incremental
7	24bit Serial Absolute Value
- e. Design revision order:
 

A	Standard (Angular contact ball bearing)
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- f,g. Customer Code: \*\* Put any 2 digits alphanumeric
- h,i. Design revision order for customer:
 

**	Put any 2 digits alphanumeric
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**INTERNATIONAL PROTECTION CLASS (IP class)**

Motor type	IP Class
SGMCS	IP42, IP65
SGM7E	IP40