



Product Service

CERTIFICATE

No. B 13 10 22021 524

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 Series**
(See Attachment for Nomenclature)

Parameters:

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

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/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.: TYOMAE16850-06

Date, 2013-10-07

(Yoshio Sato)

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1.1 Model Description

1.1.1 Product Covered:

Component-AC Servo Motor, Series SGMCS, followed by any number from 02B to 035E, followed by 3 or D, followed by A, B or C, maybe followed by 1, 2 or 4, maybe followed by 1 and so on, may be followed by additional letters and or numbers.

1.1.2 Electrical Ratings:

<u>Model</u>	<u>Voltage</u>	<u>Phase</u>	<u>Amps(A)</u>	<u>Watts(kW)</u>
SGMCS-02Bxxxxxxx	200	3	1,9	0,042
SGMCS-05Bxxxxxxx	200	3	1,8	0,105
SGMCS-07Bxxxxxxx	200	3	1,4	0,147
SGMCS-04Cxxxxxxx	200	3	2,1	0,084
SGMCS-10Cxxxxxxx	200	3	2,0	0,209
SGMCS-14Cxxxxxxx	200	3	2,0	0,293
SGMCS-08Dxxxxxxx	200	3	2,1	0,168
SGMCS-17Dxxxxxxx	200	3	2,3	0,356
SGMCS-25Dxxxxxxx	200	3	2,7	0,393
SGMCS-16Exxxxxxx	200	3	3,5	0,335
SGMCS-35Exxxxxxx	200	3	3,6	0,550
SGMCS-02BxCxx-x	200	3	1,8	0,042
SGMCS-05BxCxx-x	200	3	1,7	0,105
SGMCS-07BxCxx-x	200	3	1,4	0,147
SGMCS-04CxCxx-x	200	3	2,1	0,084
SGMCS-10CxCxx-x	200	3	2,2	0,209
SGMCS-14CxCxx-x	200	3	2,2	0,293
SGMCS-08DxCxx-x	200	3	2,8	0,168
SGMCS-17DxCxx-x	200	3	2,5	0,356
SGMCS-25DxCxx-x	200	3	2,6	0,393

"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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1.1.3 Series Nomenclature:

1) Standard

$\frac{\text{SGMCS}}{a}$ - $\frac{02B}{b}$ $\frac{3}{c}$ $\frac{A}{d}$ $\frac{1}{e}$ $\frac{1}{f}$ $\frac{-E}{g}$

- a. Motor type: Σ Series SGMCS Type
- b. Motor Output:
- | | |
|-----|---------|
| 02B | 0,042kW |
| 05B | 0,105kW |
| 07B | 0,147kW |
| 04C | 0,084kW |
| 10C | 0,209kW |
| 14C | 0,293kW |
| 08D | 0,168kW |
| 17D | 0,356kW |
| 25D | 0,393kW |
| 16E | 0,335kW |
| 35E | 0,550kW |
- c. Encoder Spec:
- | | |
|---|-------------------------------|
| D | Incremental (20bit serial) |
| 3 | Absolute Value (20bit serial) |
- d. Design revision order:
- | | |
|---|---|
| A | Standard (Crossed roller bearing) |
| B | Standard (Angular contact ball bearing) |
| C | Standard (Angular contact ball bearing) |
- e. Flange type:
- | | |
|---|-------------------|
| 1 | C-face |
| 2 | Flange mount type |
| 4 | Cable type |
- f. Optional Specification: Any number or alphabet numeral for non-critical optional provision
- g. Design of RoHS model:
- E or blank
If indicated "-E", those models represent RoHS model.



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2) Exclusive design for customer

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

- a. Motor type: Σ Series SGMCS Type
- b. Motor Output:
- | | |
|-----|---------|
| 02B | 0,042KW |
| 05B | 0,105KW |
| 07B | 0,147KW |
| 04C | 0,084KW |
| 10C | 0,209KW |
| 14C | 0,293KW |
| 08D | 0,168KW |
| 17D | 0,356KW |
| 25D | 0,393KW |
| 16E | 0,335KW |
| 35E | 0,550KW |
- c. Encoder Spec:
- | | |
|---|------------------------------|
| D | Incremental(20bit serial) |
| 3 | Absolute Value(20bit serial) |
- d. Design revision order:
- | | |
|---|---|
| A | Standard (Crossed roller bearing) |
| B | Standard (Angular contact ball bearing) |
| C | Standard (Angular contact ball bearing) |
- e.f. Customer Code:
Any number or alphabet numeral for non-critical optional provision
- g.h Design revision order for customer:
Any number or alphabet numeral for non-critical optional provision

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