



Product Service

# CERTIFICATE

No. B 022021 0742 Rev. 03

**Holder of Certificate:** Yaskawa Electric Corp.  
**Tokyo Plant**  
480 Kamifujisawa, Iruma  
Saitama 358-8555  
JAPAN

**Certification Mark:**



**Product:** Electric Motors  
AC Servo Motor

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. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 73542801-07

**Valid until:** 2029-09-26

**Date,** 2025-12-18

( Shigehisa Ishikawa )

# CERTIFICATE

No. B 022021 0742 Rev. 03

Model(s): **SGMCV, SGM7F, SGCXF Series**

## Nomenclature for SGMCV Model:

Standard:

SGMCV - 02 A E A 1 1  
 a b c d e f g

Letter	Item	(Group)	
a	Motor type	SGMCV	

Letter	Items	(Group)	Rated torque[N·m]
b	Rated torque	02	2.0
		05	5.0
		07	7.0
		04	4.0
		10	10.0
		14	14.0
		08	8.0
		17	17.0
		25	25.0
		16	16.0
35	35.0		

Letter	Items	(Group)	Motor outer diameter [mm]
c	Motor outer diameter	A	100 dia.
		B	135 dia.
		C	175 dia.
		D	230 dia.

Letter	Items	(Group)	Encoder
d	Encoder	E	22bit serial absolute value (Single turn)
		I	22bit serial absolute value (Multi turn)

Letter	Item	(Group)	Design revision order
e	Design revision order	A	Manufactured in Japan
		M	Manufactured in U.S.A.

Letter	Items	(Group)	Connector position
f	Connector position	1	Surface of non-load
		4	Surface of side

Letter	Items	(Group)	Optional specifications
g	Optional specifications	1	Without option
		5	High precision

# CERTIFICATE

No. B 022021 0742 Rev. 03

Exclusive Design for Customer:

SGMCV - 02 A E A - \* \* \* \*  
 a b c d e f g h i

Letter	Item	(Group)	
a	Motor type	SGMCV	

Letter	Items	(Group)	Rated torque[N·m]
b	Motor output	02	2.0
		05	5.0
		07	7.0
		04	4.0
		10	10.0
		14	14.0
		18	18.0
		08	8.0
		17	17.0
		25	25.0
		16	16.0
35	35.0		

Letter	Items	(Group)	Motor outer diameter [mm]
c	Motor outer diameter	A	100 dia.
		B	135 dia.
		C	175 dia.
		D	230 dia.

Letter	Items	(Group)	Encoder
d	Encoder	E	22bit serial absolute value (Single turn)
		I	22bit serial absolute value (Multi turn)
		3	20bit serial absolute value (Single turn), Only Rated torque 18.0N·m.

Letter	Item	(Group)	Design revision order
e	Design revision order	A	Manufactured in Japan
		K	Manufactured in Japan. Rating specifications, IP specifications are lower than "A". Encoder and/or connector are changed for "A".
		M	Manufactured in U.S.A.

Letters	Item	(Group)	Customer code
f, g	Customer code	**	Put any 2 digits alphanumeric

Letters	Item	(Group)	Design revision order for customer
h, i	Design revision order for customer	**	Put any 2 digits alphanumeric

# CERTIFICATE

No. B 022021 0742 Rev. 03

## Nomenclature for SGM7F Model:

Standard:

SGM7F - 04 B F A 1 1  
 a b c d e f g

Letter	Item	(Group)	
a	Motor type	SGM7F	

Letter	Items	(Group)	Rated torque[N·m]
b	Rated torque	02	2.0
		05	5.0
		07	7.0
		04	4.0
		10	10.0
		14	14.0
		08	8.0
		17	17.0
		25	25.0
		16	16.0
35	35.0		

Letter	Items	(Group)	Motor outer diameter [mm]
c	Motor outer diameter	A	100 dia.
		B	135 dia.
		C	175 dia.
		D	230 dia.

Letter	Items	(Group)	Encoder
d	Encoder	F	24bit serial incremental
		7	24bit serial absolute value

Letter	Item	(Group)	Design revision order
e	Design revision order	A	Manufactured in Japan
		C	Manufactured in China
		M	Manufactured in U.S.A.

Letter	Items	(Group)	Connector position
f	Connector position	1	Surface of non-load
		4	Surface of side

Letter	Items	(Group)	Optional specifications
g	Optional specifications	1	Without option
		2	High precision

# CERTIFICATE

No. B 022021 0742 Rev. 03

Exclusive Design for Customer:

SGM7F - 04 B F A - \* \* \* \*  
 a b c d e f g h i

Letter	Item	(Group)	
a	Motor type	SGM7F	

Letter	Items	(Group)	Rated torque[N·m]
b	Motor output	02	2.0
		05	5.0
		07	7.0
		04	4.0
		10	10.0
		14	14.0
		36	36.0
		08	8.0
		17	17.0
		25	25.0
		16	16.0
35	35.0		

Letter	Items	(Group)	Motor outer diameter [mm]
c	Motor outer diameter	A	100 dia.
		B	135 dia. 140 dia.
		C	175 dia.
		D	230 dia.

Letter	Items	(Group)	Encoder
d	Encoder	F	24bit serial incremental
		7	24bit serial absolute value

Letter	Item	(Group)	Design revision order
e	Design revision order	A	Manufactured in Japan
		C	Manufactured in China
		K	Manufactured in Japan. Rating specifications, IP specifications are lower than "A". Encoder and/or connector are changed for "A".
		M	Manufactured in U.S.A.

Letters	Item	(Group)	Customer code
f, g	Customer code	**	Put any 2 digits alphanumeric

Letters	Item	(Group)	Design revision order for customer
h, i	Design revision order for customer	**	Put any 2 digits alphanumeric

# CERTIFICATE

No. B 022021 0742 Rev. 03

## Nomenclature for SGCXF Model :

Standard:

SGCXF - 02 A M A 4 2  
 a            b            c            d            e            f            g

Letter	Item	(Group)	
a	Motor type	SGCXF	

Letter	Items	(Group)	Rated torque[N·m]
b	Rated torque	02	2.0
		05	5.0
		04	4.0
		10	10.0
		14	14.0
		08	8.0
		17	17.0
		16	16.0

Letter	Items	(Group)	Motor outer diameter [mm]
c	Motor outer diameter	A	100 dia.
		B	135 dia.
		C	175 dia.
		D	230 dia.

Letter	Items	(Group)	Encoder
d	Encoder	M	23bit serial absolute value

Letter	Item	(Group)	Design revision order
e	Design revision order	A	Manufactured in China

Letter	Items	(Group)	Connector position
f	Connector position	4	Surface of side

Letter	Items	(Group)	Optional specifications
g	Optional specifications	2	High precision

# CERTIFICATE

No. B 022021 0742 Rev. 03

Exclusive Design for Customer:

SGCXF - 02 A M A - \* \* \* \*  
 a b c d e f g h i

Letter	Item	(Group)	
a	Motor type	SGCXF	

Letter	Items	(Group)	Rated torque[N·m]
b	Motor output	02	2.0
		05	5.0
		04	4.0
		10	10.0
		14	14.0
		08	8.0
		17	17.0
16	16.0		

Letter	Items	(Group)	Motor outer diameter [mm]
c	Motor outer diameter	A	100 dia.
		B	135 dia.
		C	175 dia.
		D	230 dia.

Letter	Items	(Group)	Encoder
d	Encoder	M	23bit serial absolute value

Letter	Item	(Group)	Design revision order
e	Design revision order	A	Manufactured in China

Letters	Item	(Group)	Customer code
f, g	Customer code	**	Put any 2 digits alphanumeric

Letters	Item	(Group)	Design revision order for customer
h, i	Design revision order for customer	**	Put any 2 digits alphanumeric

## INTERNATIONAL PROTECTION CLASS (IP class)

Motor type	IP Class
SGMCMV*	IP42
SGM7F, SGCXF	IP40

\*: except for hollow hole, attachment side, load side, crevice of cover and connector

# CERTIFICATE

No. B 022021 0742 Rev. 03

## Electrical ratings –

SGMCMV series

Motor type	Rated output (W)	Rated torque (N·m)	Rated speed (min-1)	Rated input current (A)	Supply Voltage / Phase	Rated Operation	Thermal class
SGMCMV-02Axxxx	63	2.0	300	1.6	200 / 3	CONT.	B
SGMCMV-05Axxxx	157	5.0	300	1.8	200 / 3	CONT.	B
SGMCMV-07Axxxx	220	7.0	300	2.0	200 / 3	CONT.	B
SGMCMV-04Bxxxx	126	4.0	300	2.0	200 / 3	CONT.	B
SGMCMV-10Bxxxx	314	10.0	300	2.8	200 / 3	CONT.	B
SGMCMV-14Bxxxx	440	14.0	300	4.6	200 / 3	CONT.	B
SGMCMV-18B3A-xxxx	377	18.0	200	4.8	200 / 3	CONT.	B
SGMCMV-08Cxxxx	251	8.0	300	2.4	200 / 3	CONT.	B
SGMCMV-17Cxxxx	534	17.0	300	4.5	200 / 3	CONT.	B
SGMCMV-25Cxxxx	733-785	25.0	280-300	4.5	200 / 3	CONT.	B
SGMCMV-16Dxxxx	503	16.0	300	5.0	200 / 3	CONT.	B
SGMCMV-35Dxxxx	1100	35.0	300	5.0	200 / 3	CONT.	B

SGMCMV-18B3A-xxxx is type for Exclusive Design for Customer only.

SGM7F series

Motor type	Rated output (W)	Rated torque (N·m)	Rated speed (min-1)	Rated input current (A)	Supply Voltage / Phase	Rated Operation	Thermal class
SGM7F-02Axxxx	63	2.0	300	1.7	200 / 3	CONT.	B
SGM7F-05Axxxx	157	5.0	300	1.8	200 / 3	CONT.	B
SGM7F-07Axxxx	220	7.0	300	2.1	200 / 3	CONT.	B
SGM7F-04Bxxxx	126	4.0	300	2.0	200 / 3	CONT.	B
SGM7F-10Bxxxx	314	10.0	300	2.8	200 / 3	CONT.	B
SGM7F-14Bxxxx	440	14.0	300	4.6	200 / 3	CONT.	B
SGM7F-36Bxx-xxxx	1244	36.0	330	6.8	200 / 3	CONT.	B
SGM7F-08Cxxxx	251	8.0	300	2.4	200 / 3	CONT.	B
SGM7F-17Cxxxx	534	17.0	300	4.5	200 / 3	CONT.	B
SGM7F-25Cxxxx	785	25.0	300	4.5	200 / 3	CONT.	B
SGM7F-16Dxxxx	503	16.0	300	5.0	200 / 3	CONT.	B
SGM7F-35Dxxxx	1100	35.0	300	5.0	200 / 3	CONT.	B

SGM7F-36Bxx-xxxx is type for Exclusive Design for Customer only.

# CERTIFICATE

No. B 022021 0742 Rev. 03

SGCXF series

Motor type	Rated output (W)	Rated torque (N·m)	Rated speed (min-1)	Rated input current (A)	Supply Voltage / Phase	Rated Operation	Thermal class
SGCXF-02Axxxx	63	2.0	300	1.7	200 / 3	CONT.	B
SGCXF-05Axxxx	157	5.0	300	1.8	200 / 3	CONT.	B
SGCXF-04Bxxxx	126	4.0	300	2.0	200 / 3	CONT.	B
SGCXF-10Bxxxx	314	10.0	300	2.5	200 / 3	CONT.	B
SGCXF-14Bxxxx	440	14.0	300	4.6	200 / 3	CONT.	B
SGCXF-08Cxxxx	251	8.0	300	2.4	200 / 3	CONT.	B
SGCXF-17Cxxxx	534	17.0	300	4.5	200 / 3	CONT.	B
SGCXF-16Dxxxx	503	16.0	300	5.0	200 / 3	CONT.	B

## Parameters:

Rated voltage:	200V3ac
Rated input current:	1.6-5.0Arms (SGMVCV Model) 1.7-6.8Arms (SGM7F Model) 1.7-5.0Arms (SGCXF Model)
Rated output:	63-1100W (SGMVCV Model) 63-1244W (SGM7F Model) 63-534W (SGCXF Model)
Degree of protection:	IP42 (SGMVCV Model*) IP40 (SGM7F, SGCXF Model) (*: except for hollow hole, attachment side, load side, crevice of cover and connector)
Protection class:	I

## Remark:

When installing / inserting the equipment, all requirements of the mentioned test standard must be fulfilled.

**Tested according to:** EN 60034-1:2010  
EN IEC 60034-5:2020