



Product Service

CERTIFICATE

No. B 16 11 22021 689

Holder of Certificate: Yaskawa Electric Corp.
Tokyo Plant

480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN

Production Facility(ies):

48921, 38663

Certification Mark:



Product:

**Electric Motors
AC Servo Motors**

Model(s):

**SGMCV, SGM7F series
(See attachment for nomenclature)**

Parameters:

Rated voltage:	200 V	
Rated input current:	1,6-5,0 A	(SGMCV Model)
	1,7-5,0 A	(SGM7F Model)
Rated output power:	63-1100 W	(SGMCV,SGM7F Model)
Degree of protection:	IP 42	(SGMCV Model*)
	IP 40	(SGM7F 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 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.: 73542801-03

Valid until: 2021-10-31

Date, 2016-11-02

(Yoshio Sato)

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Electrical ratings –

SGMVCV series

Motor type	Rated output (W)	Rated torque (N·m)	Rated speed (min ⁻¹)	Rated current (A)	Supply Voltage / Phase	Rated Operation	Thermal class
SGMVCV-02Axxxx	63	2,0	300	1,6	200 / 3	CONT.	B
SGMVCV-05Axxxx	157	5,0	300	1,8	200 / 3	CONT.	B
SGMVCV-07Axxxx	220	7,0	300	2,0	200 / 3	CONT.	B
SGMVCV-04Bxxxx	126	4,0	300	2,0	200 / 3	CONT.	B
SGMVCV-10Bxxxx	314	10,0	300	2,8	200 / 3	CONT.	B
SGMVCV-14Bxxxx	440	14,0	300	4,6	200 / 3	CONT.	B
SGMVCV-08Cxxxx	251	8,0	300	2,4	200 / 3	CONT.	B
SGMVCV-17Cxxxx	534	17,0	300	4,5	200 / 3	CONT.	B
SGMVCV-25Cxxxx	733-785	25,0	280-300	4,5	200 / 3	CONT.	B
SGMVCV-16Dxxxx	503	16,0	300	5,0	200 / 3	CONT.	B
SGMVCV-35Dxxxx	1100	35,0	300	5,0	200 / 3	CONT.	B

SGM7F series

Motor type	Rated output (W)	Rated torque (N·m)	Rated speed (min ⁻¹)	Rated 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-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

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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

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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
		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
		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

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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
		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

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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
		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
		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

INTERNATIONAL PROTECTION CLASS (IP class)

Motor type	IP Class
SGMCV*	IP42
SGM7F	IP40

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