

ZERTIFIKAT ♦ CERTIFICATE ♦ 認証証書 ♦ CERTIFICADO ♦ CERTIFICAT



Product Service

# CERTIFICATE

No. B 07 04 22021 256

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

480 Kamifujisawa, Iruma  
Saitama 358-8555  
JAPAN

**Production Facility(ies):** 48921

**Certification Mark:**



**Product:** Motor  
AC Servo Motor

**Model(s):** SGMJV, SGMJV, SGMEV Series  
(See Attachment for Nomenclature)

**Parameters:**

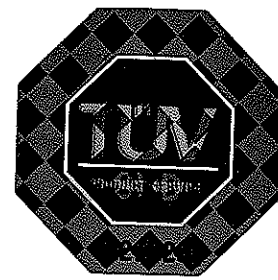
Rated voltage:	200 V / 400 V
Rated output power:	50 - 1000 W (SGMAV) 50 - 750 W (SGMJV) 100 - 1500 W (SGMEV)
Degree of protection:	IP65 except shaft hall(SGMAV, SGMJV) IP55/IP67 except shaft hall(SGMEV)
Protection class:	I
Remark:	When installing / inserting the equipment, all requirements of the mentioned test standards must be fulfilled.

**Tested according to:** EN 60034-1:2004  
EN 60034-5:2001

The product was tested on a voluntary basis and complies with the following essential requirements. The certification mark shown above can be affixed on the product. The certification mark must not be altered in any way. See also notes overleaf.

**Test report no.:** 73515093

**Date,** 2007-04-17



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Nomenclature

1) Standard

<u>SGMAV</u>	<u>01</u>	<u>A</u>	<u>D</u>	<u>A</u>	<u>2</u>	<u>1</u>	<u>-OY</u>
a	b	c	d	e	f	g	h

Letters	Items	(Group)	
a	Motor type	SGMAV	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	A5	50
		01	100
		C2	150
		02	200
		04	400
		06	550
		08	750
		10	1000

Letters	Items	(Group)	Power Supply Voltages[Vrms]
c	Power Supply	A	200

Letters	Items	(Group)	Encoder Type
d	Encoder	D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		6	20bit Serial Absolute Value with Built-in Capacitor

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard

Letters	Items	(Group)	Shaft Type
f	Shaft Type	2	Straight (without keyway)
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)
		B	Straight (with double flat key seat)

Letters	Items	(Group)	Optional Specifications
g	Optional Specifications	1	Without Option
		C	With Brake (24V)
		S	With Shaft Seal
		E	With Brake (24V) and Shaft Seal

Letters	Items	(Group)	Optional Specifications
h	Additional type	Blank	Standard
		-OY	Standard

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2) With Gear

SGMAV-	01	A	D	AH	1	2	C	-OY
a	b	c	d	e	f	g	h	i

Letters	Items	(Group)	
a	Motor type	SGMAV	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	A5	50
		01	100
		C2	150
		02	200
		04	400
		06	550
		08	750
		10	1000

Letters	Items	(Group)	Power Supply Voltages [Vrms]
c	Power Supply	A	200

Letters	Items	(Group)	Encoder Type
d	Encoder	D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		6	20bit Serial Absolute Value with Built-in Capacitor

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	AH	With Non-backlash Gear

Letters	Items	(Group)	Reduction Ratio
f	Reduction Ratio	1	1/5
		2	1/9
		7	1/33
		B	1/11
		C	1/21

Letters	Items	(Group)	Shaft Type
g	Shaft Type	0	Flange Type (without keyway)
		2	Straight (without keyway)
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)

Letters	Items	(Group)	Optional Specifications
h	Optional Specifications	1	Without Option
		C	With Brake (24V)

Letters	Items	(Group)	Optional Specifications
i	Additional type	Blank	Standard
		-OY	Standard

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### 3) Exclusive Design for Customer

SGMAV-	01	A	D	AH	-*	*	*	*
a	b	c	d	e	f	g	h	i

Letters	Items	(Group)	
a	Motor type	SGMAV	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	A5	50
		01	100
		C2	150
		02	200
		04	400
		06	550
		08	750
		10	1000

Letters	Items	(Group)	Power Supply Voltages [Vrms]
c	Power Supply	A	200

Letters	Items	(Group)	Encoder Type
d	Encoder	D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		6	20bit Serial Absolute Value with Built-in Capacitor

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard
		AH	With Non-backlash Gear

Letters	Items	(Group)	Customer Code
f,g	Customer Code	-	Put any alphabet numerals.

Letters	Items	(Group)	Customer Code
h,i	Design Revision Order For Customer	-	Put any numbers.



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1) Standard

SGMJV-	01	A	D	A	2	1	-OY
a	b	c	d	e	f	g	h

Letters	Items	(Group)	
a	Motor type	SGMJV	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	A5	50
		01	100
		02	200
		04	400
		08	750

Letters	Items	(Group)	Power Supply Voltages[Vrms]
c	Power Supply	A	200

Letters	Items	(Group)	Encoder Type
d	Encoder	A	13bit Serial Incremental
		D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		6	20bit Serial Absolute Value with Built-in Capacitor

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard

Letters	Items	(Group)	Shaft Type
f	Shaft Type	2	Straight (without keyway)
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)
		B	Straight (with double flat key seat)

Letters	Items	(Group)	Optional Specifications
g	Optional Specifications	1	Without Option
		C	With Brake (24V)
		S	With Shaft Seal
		E	With Brake (24V) and Shaft Seal

Letters	Items	(Group)	Optional Specifications
h	Additional type	Blank	Standard
		-OY	Standard

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2) With Gear

SGMJV-	01	A	D	AH	1	2	C	-OY
a	b	c	d	e	f	g	h	i

Letters	Items	(Group)	
a	Motor type	SGMJV	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	A5	50
		01	100
		02	200
		04	400
		08	750

Letters	Items	(Group)	Power Supply Voltages [Vrms]
c	Power Supply	A	200

Letters	Items	(Group)	Encoder Type
d	Encoder	A	13bit Serial Incremental
		D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		6	20bit Serial Absolute Value with Built-in Capacitor

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	AH	With Non-backlash Gear

Letters	Items	(Group)	Reduction Ratio
f	Reduction Ratio	1	1/5
		2	1/9
		7	1/33
		B	1/11
		C	1/21

Letters	Items	(Group)	Shaft Type
g	Shaft Type	0	Flange Type (without keyway)
		2	Straight (without keyway)
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)

Letters	Items	(Group)	Optional Specifications
h	Optional Specifications	1	Without Option
		C	With Brake (24V)

Letters	Items	(Group)	Optional Specifications
i	Additional type	Blank	Standard
		-OY	Standard

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### 3) Exclusive Design for Customer

SGMJV-	01	A	D	AH	-*	*	*	*
a	b	c	d	e	f	g	h	i

Letters	Items	(Group)	
a	Motor type	SGMJV	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	A5	50
		01	100
		02	200
		04	400
		08	750

Letters	Items	(Group)	Power Supply Voltages [Vrms]
c	Power Supply	A	200

Letters	Items	(Group)	Encoder Type
d	Encoder	A	13bit Serial Incremental
		D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		6	20bit Serial Absolute Value with Built-in Capacitor

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard
		AH	With Non-backlash Gear

Letters	Items	(Group)	Customer Code
f,g	Customer Code	-	Put any alphabet numerals.

Letters	Items	(Group)	Customer Code
h,i	Design Revision Order For Customer	-	Put any numbers.

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1) Standard

SGMEV-	01	A	D	A	2	1	-OY
a	b	c	d	e	f	g	h

Letters	Items	(Group)	
a	Motor type	SGMEV	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	01	100(Only 200V)
		02	200
		03	300(Only 400V)
		04	400
		07	650(Only 400V)
		08	750
		15	1500

Letters	Items	(Group)	Power Supply Voltages[Vrms]
c	Power Supply	A	200
		D	400

Letters	Items	(Group)	Encoder Type
d	Encoder	D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		6	20bit Serial Absolute Value with Built-in Capacitor

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard (IP55, except shaft hall)
		E	Drip proof provision (IP67, except shaft hall)

Letters	Items	(Group)	Shaft Type
f	Shaft Type	2	Straight (without keyway)
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)
		B	Straight (with double flat key seat)

Letters	Items	(Group)	Optional Specifications
g	Optional Specifications	1	Without Option
		C	With Brake (24V)
		S	With Shaft Seal
		E	With Brake (24V) and Shaft Seal

Letters	Items	(Group)	Optional Specifications
h	Additional type	Blank	Standard
		-OY	Standard





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2) With Gear

SGMEV-	01	A	D	AH	1	2	C	-OY
a	b	c	d	e	f	g	h	i

Letters	Items	(Group)	
a	Motor type	SGMEV	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	01	100(Only 200V)
		02	200
		03	300(Only 400V)
		04	400
		07	650(Only 400V)
		08	750
		15	1500

Letters	Items	(Group)	Power Supply Voltages [Vrms]
c	Power Supply	A	200
		D	400

Letters	Items	(Group)	Encoder Type
d	Encoder	D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		6	20bit Serial Absolute Value with Built-in Capacitor

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	AH	With Non-backlash Gear (IP55, except shaft hall)
		EH	With Non-backlash Gear (IP67, except shaft hall)

Letters	Items	(Group)	Reduction Ratio
f	Reduction Ratio	1	1/5
		2	1/9
		7	1/33
		B	1/11
		C	1/21

Letters	Items	(Group)	Shaft Type
g	Shaft Type	0	Flange Type (without keyway)
		2	Straight (without keyway)
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)

Letters	Items	(Group)	Optional Specifications
h	Optional Specifications	1	Without Option
		C	With Brake (24V)

Letters	Items	(Group)	Optional Specifications
i	Additional type	Blank	Standard
		-OY	Standard

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3) Exclusive Design for Customer

SGMEV-	01	A	D	AH	-*	*	*	*
a	b	c	d	e	f	g	h	i

Letters	Items	(Group)	
a	Motor type	SGMEV	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	01	100(Only 200V)
		02	200
		03	300(Only 400V)
		04	400
		07	650(Only 400V)
		08	750
		15	1500

Letters	Items	(Group)	Power Supply Voltages [Vrms]
c	Power Supply	A	200
		D	400

Letters	Items	(Group)	Encoder Type
d	Encoder	D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		6	20bit Serial Absolute Value with Built-in Capacitor

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard (IP55, except shaft hall)
		E	Drip proof provision (IP67, except shaft hall)
		AH	With Non-backlash Gear (IP55, except shaft hall)
		EH	With Non-backlash Gear (IP67, except shaft hall)

Letters	Items	(Group)	Customer Code
f,g	Customer Code	-	Put any alphabet numerals.

Letters	Items	(Group)	Customer Code
h,i	Design Revision Order For Customer	-	Put any numbers.