



Product Service

# CERTIFICATE

No. B 12 04 22021 442

**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):** SGMMV Series  
(See attachment for nomenclature)

**Parameters:**

Rated voltage:	48V dc / 200V ac
Rated input power:	3.3 ~ 30W
Connection to waterinstallation:	IP42 (SGMMV-BXXXXXX) IP55 (SGMMV-AXXXXXX)
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/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.:** 73534489-01

**Date,** 2012-04-04

(Yoshio Sato)



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Nomenclature

1) Standard

SGMMV-	B3	E	2	A	2	1	K
a	b	c	d	e	f	g	h

Letters	Items	(Group)	-
a	Motor type	SGMMV	-

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	B3	3.3
		B5	5.5
		B9	11
		A1	10
		A2	20
		A3	30

Letters	Items	(Group)	Power Supply Voltages[Vrms]
c	Power Supply	E	48VDC
		A	200VAC (Motor output variation are only 3 types, A1, A2 and A3)

Letters	Items	(Group)	Encoder Type
d	Encoder	2	17bit Serial Absolute Value

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

Letters	Items	(Group)	Shaft Type
f	Shaft Type	2	Straight (without keyway)
		A	Straight (with a flat key seat)

Letters	Items	(Group)	Optional Specifications
g	Optional Specifications	1	Without Option
		C	With Brake (24V) (Motor output variation are only 3 types, A1, A2 and A3)

Letters	Items	(Group)	Optional Specifications
h	Lead Wire Length Specification	Blank	300mm
		H	500mm
		J	1000mm
		K	1500mm

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2) With Gear (Motor output variation are only 3 types, A1, A2, and A3)

SGMMV-	A1	E	2	AJ	A	2	C	K
a	b	c	d	e	f	g	h	i

Letters	Items	(Group)	
a	Motor type	SGMMV	-

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	A1	10
		A2	20
		A3	30

Letters	Items	(Group)	Power Supply Voltages [V]
c	Power Supply	E	48VDC
		A	200VAC

Letters	Items	(Group)	Design Revision Order
d	Encoder	2	17bit Serial Absolute Value

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	AJ	With Gear

Letters	Items	(Group)	Reduction Ratio
f	Reduction Ratio	1 or A	1/5
		2 or B	1/16
		3 or C	1/25

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)	Lead wire length Specification
i	Lead wire length Specification	Blank	300mm
		H	500mm
		J	1000mm
		K	1500mm

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3) Exclusive Design for Customer

SGMMV-	B3	E	2	A	-*	*	*	*
a	b	c	d	e	f	g	h	i

Letters	Items	(Group)	-
a	Motor type	SGMMV	-

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	B3	3.3
		B5	5.5
		B9	11
		A1	10
		A2	20
		A3	30

Letters	Items	(Group)	Power Supply Voltages [Vrms]
c	Power Supply	E	48VDC
		A	200VAC (Motor output variation are only 3 types, A1, A2 and A3)

Letters	Items	(Group)	Encoder Type
d	Encoder	2	17bit Serial Absolute Value

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard
		K	Rating specifications, IP specifications, encoder and/or connector are changed for standard.
		AJ	With Gear (Motor output variation are only 3 types, A1, A2 and A3)
		KJ	With Gear Rating specifications, IP specifications, encoder and/or connector are changed for standard. (Motor output variation are only 3 types, A1, A2 and A3)

Letters	Items	(Group)	Customer Code
f,g	Customer Code	-	-

Letters	Items	(Group)	Customer Code
h,i	Design Revision Order For Customer	-	-