



Product Service

CERTIFICATE

No. B 13 10 22021 522

Holder of Certificate: Yaskawa Electric Corp.
Tokyo Plant480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN**Production Facility(ies):** 48921**Certification Mark:****Product:** Electric Motors
AC Servo Motor**Model(s):** SGMM, SGMMJ Series
(See Attachment for Nomenclature)**Parameters:**
Rated voltage: 24 V, 48 V, 100 V
Rated output power: 10 W, 20 W, 30 W
Rated input current: 0,66 - 2,9 A
Protection class: I
Degree of protection: IP55**Remark:**
When installing / inserting the equipment, all requirements of the mentioned test standard 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.: 73503107-05**Date,** 2013-10-07
(Yoshio Sato)

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Electrical rating for SGMMJ:

Model	Supply voltage	Phase	Current (A)	Output (W)
SGMMJ-A1Bxxxxxxx	100	3	0,7	10
SGMMJ-A1Cxxxxxxx	24	3	2,1	10
SGMMJ-A1Exxxxxxx	48	3	2,1	10
SGMMJ-A2Bxxxxxxx	100	3	0,66	20
SGMMJ-A2Cxxxxxxx	24	3	2,0	20
SGMMJ-A2Exxxxxxx	48	3	2,0	20
SGMMJ-A3Bxxxxxxx	100	3	0,98	30
SGMMJ-A3Cxxxxxxx	24	3	2,9	30
SGMMJ-A3Exxxxxxx	48	3	2,9	30

Electrical rating for SGMM:

Model	Supply voltage	Phase	Current (A)	Output (W)
SGMM-A1Sxxxxx	24	3	2,1	10
SGMM-A1Wxxxxx	100	3	0,7	10
SGMM-A2Sxxxxx	24	3	2,0	20
SGMM-A2Wxxxxx	100	3	0,66	20
SGMM-A3Sxxxxx	24	3	2,9	30
SGMM-A3Wxxxxx	100	3	0,98	30

Nomenclature

1) Standard

SGMMJ-
 1 A1 C A A 2 1 H -E
 2 3 4 5 6 7 8 9

1. Motor kind: Σ Series mini Type
 SGMMJ: Serial encoder type

2. Motor output:
 A1 10W
 A2 20W
 A3 30W

3. Power supply:
 B 100V
 C 24V
 E 48V

4. Detector:
 A 13bit serial Incremental
 2 17bit serial Absolute

5. Design revision order:
 A Standard
 B Standard

6. Shaft type:
 2 Straight (without flat key seat)
 A Straight (with flat key seat)

7. Break:
 1 Without break
 C With break (24V)

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8. Optional specification:
 Blank Lead wire length 300mm
 H Lead wire length 500mm
 J Lead wire length 1000mm
 K Lead wire length 1500mm
9. Additional type
 Blank Standard
 -E Standard (for RoHS directive)

<u>SGMM-</u>	<u>A1</u>	<u>S</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>C</u>
1	2	3	4	5	6	7

1. Motor kind: Σ Series mini Type
 SGMM: Pulse encoder type
2. Motor output:
 A1 10W
 A2 20W
 A3 30W
3. Power supply:
 S Compliance to European safety standards (24V).
 W Compliance to European safety standard (100V).
4. Detector:
 3 Incremental (2048P/R)
 5 Incremental (2000P/R)
 F Incremental (1024P/R)
5. Design revision order:
 1 Standard
6. Shaft type:
 2 Straight (without flat key seat)
 3 Straight (with flat key seat)
7. Optional specification:
 C With break (24V)
 T Lead wire length 700mm

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2) With gear

	<u>SGMMJ-</u>	<u>A1</u>	<u>C</u>	<u>A</u>	<u>AJ</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>H</u>	<u>-E</u>
	1	2	3	4	5	6	7	8	9	10
1.	Motor kind:									
	SGMMJ:				Σ Series mini Type					
					Serial encoder type					
2.	Motor output:									
	A1	10W								
	A2	20W								
	A3	30W								
3.	Power supply:									
	B	100V								
	C	24V								
	E	48V								
4.	Detector:									
	A	13bit serial Incremental								
	2	17bit serial Absolute								
5.	Design revision order:									
	AJ	With gear								
	BJ	With gear								
6.	Reduction ratio:									
	1	1/5 (40sq)								
	2	1/16(40sq)								
	3	1/25(40sq)								
	A	1/5(25sq)								
	B	1/16(25sq)								
	C	1/25(25sq)								
7.	Shaft type:									
	2	Straight (without flat key seat)								
	A	Straight (with flat key seat)								
8.	Break:									
	1	Without break								
	C	With break (24V)								
9.	Optional specification:									
	Blank	Lead wire length 300mm								
	H	Lead wire length 500mm								
	J	Lead wire length 1000mm								
	K	Lead wire length 1500mm								
10.	Additional type									
	Blank	Standard								
	-E	Standard (for RoHS directive)								

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<u>SGMM-</u>	<u>A1</u>	<u>S</u>	<u>3</u>	<u>J</u>	<u>X</u>	<u>X</u>	<u>X</u>
1	2	3	4	5	6	7	8

1. Motor kind: Σ Series mini Type
SGMM: Pulse encoder type
2. Motor output:

A1	10W
A2	20W
A3	30W
3. Power supply:

S	Compliance to European safety standards (24V).
W	Compliance to European safety standard (100V).
4. Detector:

3	Incremental (2048P/R)
6	Incremental (2000P/R)
F	Incremental (1024P/R)
5. Design revision order:

J	With gear
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6. Reduction ratio:

1	5 (40sq)
2	16 (40sq)
3	25 (40sq)
A	5 (25sq)
B	16 (25sq)
C	25 (25sq)
7. Shaft type:

2	Straight (without keyway)
3	Straight (with flat key seat)
6	Straight (with keyway and tapped hole)
8	Straight (with tapped hole)
8. Optional specification:

C	With break (24V)
T	Lead wire length 700mm



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3) Exclusive design for customer

<u>SGMMJ-</u>	<u>A1</u>	<u>C</u>	<u>A</u>	<u>A-</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
1	2	3	4	5	6	7	8	9

- Motor kind: Σ Series mini Type
SGMMJ: Serial encoder type
- Motor output:
A1 10W
A2 20W
A3 30W
- Power supply:
B 100V
C 24V
E 48V
- Detector:
A 13bit serial Incremental
2 17bit serial Absolute
- Design revision order
A Standard
B Standard
AJ With gear
BJ With gear
- 6, 7. Customer code
Alphanumerical or blank
- 8, 9. Design revision order for customer
Alphanumerical or blank

<u>SGMM-</u>	<u>A1</u>	<u>S</u>	<u>3</u>	<u>J</u>	<u>X</u>	<u>X</u>	<u>X</u>
1	2	3	4	5	6	7	8

- Motor kind: Σ Series mini Type
SGMM: Pulse encoder type
- Motor output:
A1 10W
A2 20W
A3 30W
- Power supply:
S Compliance to European safety standards (24V).
W Compliance to European safety standard (100V).
- Detector:
3 Incremental (2048P/R)
5 Incremental (2000P/R)
F Incremental (1024P/R)
- 5, 6. Customer code
Alphanumerical or blank
- 7, 8. Design revision order for customer
Alphanumerical or blank

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4) Exclusive design

SGMMJ type

Additional motor type	Drawing	Base Motor	Different point
SGMMJ-A2B2B-FJ21	900-056-518	SGMMJ-A2B2B21-E	Motor type only
SGMMJ-A2B2B-FJ22	900-072-198	SGMMJ-A2B2B21-E	Bearing and model type