



Product Service

EU-Type Examination Certificate

No. E6A 17 02 22021 718

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

Product: **Servo Motor**
AC Servo Motor Direct Drive Sigma Series

Model(s): **SGMCS, SGM7E Series**
(See Attachment for Nomenclature)

Description of Object:

Rated Voltage:	200 VAC
Rated Power:	42 W - 550 W, 3 Phase
Protection Class :	I
EMC Classification:	Group 1, Class A(EN 55011) EMI:category C2(EN 61800-3) EMS:second environment(EN 61800-3)

Tested according to:

- EN 55011:2009/A1:2010
- EN 61000-6-4:2007/A1:2011
- EN 61000-6-2:2005
- EN 61800-3:2004/A1:2012

This EU-Type Examination Certificate is issued according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with such aspects of the requirements of the EMC directive as specified by the manufacturer or his authorized representative in the European Community and applies only to the sample and its technical documentation submitted for testing and certification. This Type Examination does not contain any statements pertaining to the EMC protection requirements governed by other laws which serve to implement EU Directives other than the aforementioned Directive 2014/30/EU. See also notes overleaf.

Evaluation Report No.: 73562873



Date, 2017-02-17 (Johann Roidt)

TÜV SÜD Product Service GmbH is notified Body to the Directive 2014/30/EU relating to electromagnetic compatibility with the identification number 0123.

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Product Service

1. Certified models:

SERVO MOTOR	Voltage	Phases	Rated Current [A _{rms}]	Rated Output [W]	Rated Torque [N·m]
SGMCS-02Bxxxx	200V _{AC}	3	1.9	42	2.0
SGMCS-02BxCxx			1.8		
SGMCS-05Bxxxx			1.8	105	5.0
SGMCS-05BxCxx			1.7		
SGMCS-07Bxxxx			1.4	147	7.0
SGMCS-07BxCxx			1.4		
SGMCS-04Cxxxx			2.1	84	4.0
SGMCS-04CxCxx			2.2		
SGMCS-10Cxxxx			2.0	209	10.0
SGMCS-10CxCxx			2.2		
SGMCS-14Cxxxx			2.0	293	14.0
SGMCS-14CxCxx			2.8		
SGMCS-08Dxxxx			2.1	168	8.0
SGMCS-08DxCxx			1.9		
SGMCS-17Dxxxx			2.3	356	17.0
SGMCS-17DxCxx			2.5		
SGMCS-25Dxxxx			2.7	393	25.0
SGMCS-25DxCxx			2.6		
SGMCS-16ExAxx			3.5	335	16.0
SGMCS-16ExBxx			3.3		
SGMCS-35ExAxx	3.6	550	35.0		
SGMCS-35ExBxx	3.5				

SERVO MOTOR	Voltage	Phases	Rated Current [A _{rms}]	Rated Output [W]	Rated Torque [N·m]
SGM7E-02Bxxxx	200V _{AC}	3	1.8	42	2.0
SGM7E-05Bxxxx			1.7	105	5.0
SGM7E-07Bxxxx			1.4	147	7.0
SGM7E-04Cxxxx			2.2	84	4.0
SGM7E-10Cxxxx			2.2	209	10.0
SGM7E-14Cxxxx			2.8	293	14.0
SGM7E-08Dxxxx			1.9	168	8.0
SGM7E-17Dxxxx			2.5	356	17.0
SGM7E-25Dxxxx			2.6	393	25.0
SGM7E-16Exxxxx			3.3	335	16.0
SGM7E-35Exxxxx			3.5	550	35.0

"x" represents variations in model number as described in product covered and series nomenclature which do not affect electrical construction or rating. Refer to "Series Nomenclature".

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2. Series Nomenclature:

1) Standard

SGMCS - 02 B D A 1 1 -E
 a b c d e f g h

Letters	Items	(Group)	Series
a	Motor type	SGMCS	Sigma-V

Letters	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		

Letters	Items	(Group)	Motor Outer Diameter [mm]
c	Motor Outer Diameter	B	135 dia.
		C	175 dia.
		D	230 dia.
		E	290 dia.

Letters	Items	(Group)	Encoder
d	Encoder	D	20bit Serial Incremental
		3	20bit Serial Absolute Value

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard(Crossed Roller Bearing)
		B	Standard(Anguler Contact Ball Bearing)
		C	Standard(Anguler Contact Ball Bearing)

Letters	Items	(Group)	Connector Position
f	Connector Position	1	C-face
		2	Flange mount type
		4	C-face with cable type

Letters	Items	(Group)	Optional Specifications
g	Optional Specifications	1	Without Option

Letters	Items	(Group)	Optional Specifications
h	Design of RoHS responses model	-E	RoHS Responses Model
		blank	RoHS Non-responses Model

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Product Service

SGM7E - 02 B F A 1 1
 a b c d e f g

Letters	Items	(Group)	Series
a	Motor type	SGM7E	Sigma-7

Letters	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		

Letters	Items	(Group)	Motor Outer Diameter [mm]
c	Motor Outer Diameter	B	135 dia.
		C	175 dia.
		D	230 dia.
		E	290 dia.

Letters	Items	(Group)	Encoder
d	Encoder	F	24bit Serial Incremental
		7	24bit Serial Absolute Value

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard(Angular Contact Ball Bearing)

Letters	Items	(Group)	Connector Position
f	Connector Position	1	C-face
		4	C-face with Cable Type

Letters	Items	(Group)	Optional Specifications
g	Optional Specifications	1	Without Option
		2	High Precision

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Product Service

2) Exclusive design for customer

SGMCS - 02 B D A - * * * *
 a b c d e f g h i

Letters	Items	(Group)	
a	Motor type	SGMCS	

Letters	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		

Letters	Items	(Group)	Motor Outer Diameter [mm]
c	Motor Outer Diameter	B	135 dia.
		C	175 dia.
		D	230 dia.
		E	290 dia.

Letters	Items	(Group)	Encoder
d	Encoder	D	20bit Serial Incremental
		3	20bit Serial Absolute Value

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard(Crossed Roller Bearing)
		B	Standard(Anguler Contact Ball Bearing)
		C	Standard(Anguler Contact Ball Bearing)

Letters	Items	(Group)	Customer Code
f, g	Customer Code	**	Put any 2 digits alphanumeric

Letters	Items	(Group)	Design Revision Order For Customer
h, i	Design Revision Order For Customer	**	Put any 2 digits alphanumeric

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Product Service

SGM7E - 02 B F A - * * * *
 a b c d e f g h i

Letters	Items	(Group)	
a	Motor type	SGM7E	

Letters	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		

Letters	Items	(Group)	Motor Outer Diameter [mm]
c	Motor Outer Diameter	B	135 dia.
		C	175 dia.
		D	230 dia.
		E	290 dia.

Letters	Items	(Group)	Encoder
d	Encoder	F	24bit Serial Incremental
		7	24bit Serial Absolute Value

Letters	Items	(Group)	Design Revision Order
e	Design Revision Order	A	Standard(Anguler Contact Ball Bearing)

Letters	Items	(Group)	Customer Code
f, g	Customer Code	**	Put any 2 digits alphanumeric

Letters	Items	(Group)	Design Revision Order For Customer
h, i	Design Revision Order For Customer	**	Put any 2 digits alphanumeric