

EU-Type Examination Certificate

No. E6A 022021 0718 Rev. 02

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

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. For details see: www.tuvsud.com/ps-cert

Evaluation Report No.: 73589931

Date, 2021-12-13



(Volker Albrecht)

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Model(s): SGMCS, SGM7E Series

1. Certified models:

SERVO MOTOR	Voltage	Phases	Rated Current [Arms]	Rated Output [W]	Rated Torque [N·m]
SGMCS-02Bxxxx	200VAC	3	1.9	42	2.0
SGMCS-02BxCxx			1.8		
SGMCS-05Bxxxx			105	1.8	
SGMCS-05BxCxx				1.7	
SGMCS-07Bxxxx			147	1.4	
SGMCS-07BxCxx				1.4	
SGMCS-04Cxxxx			84	2.1	
SGMCS-04CxCxx				2.2	
SGMCS-10Cxxxx			209	2.0	
SGMCS-10CxCxx				2.2	
SGMCS-14Cxxxx			293	2.0	
SGMCS-14CxCxx				2.8	
SGMCS-08Dxxxx			168	2.1	
SGMCS-08DxCxx				1.9	
SGMCS-17Dxxxx			356	2.3	
SGMCS-17DxCxx				2.5	
SGMCS-25Dxxxx			393	2.7	
SGMCS-25DxCxx				2.6	
SGMCS-16ExAxx			335	3.5	
SGMCS-16ExBxx				3.3	
SGMCS-35ExAxx	550	3.6			
SGMCS-35ExBxx		3.5			

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SERVO MOTOR	Voltage	Phases	Rated Current [A _{rms}]	Rated Output [W]	Rated Torque [N·m]
SGM7E-02Bxxxx	200VAC	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-16Exxxx			3.3	335	16.0
SGM7E-35Exxxx			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(Angular Contact Ball Bearing)
		C	Standard(Angular 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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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	D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		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)
		C	Manufactured in China (Anguler Contact Ball Bearing)
		M	Manufactured in U.S.A. (Anguler 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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2) Exclusive design for customer

$\frac{SGMCS}{a}$ - $\frac{02}{b}$ $\frac{B}{c}$ $\frac{D}{d}$ $\frac{A}{e}$ - $\frac{*}{f}$ $\frac{*}{g}$ $\frac{*}{h}$ $\frac{*}{i}$

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(Angular Contact Ball Bearing)
		C	Standard(Angular 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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$\frac{SGM7E}{a}$ - $\frac{02}{b}$ $\frac{B}{c}$ $\frac{F}{d}$ $\frac{A}{e}$ - $\frac{*}{f}$ $\frac{*}{g}$ $\frac{*}{h}$ $\frac{*}{i}$

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	D	20bit Serial Incremental
		3	20bit Serial Absolute Value
		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)
		C	Manufactured in China (Anguler Contact Ball Bearing)
		M	Manufactured in U.S.A. (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

Description of Object:

Rated Voltage: 200 VAC, 3 Phase
 Rated Power: 42 W - 550 W
 Remark: All aspects of the essential requirements were assessed.

Tested according to:

EN 55011:2016/A11:2020 (Group 1, Class A)
 EN 61000-6-4:2007/A1:2011
 EN 61000-6-2:2005
 EN 61800-3:2004/A1:2012 (Category C2, Second environment)

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