



Product Service

EU-Type Examination Certificate

No. E6A 022021 0787 Rev. 02

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

Product: **AC Servo Systems**
AC Servo Motor

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.: 73591142

Date, 2022-02-22

(Volker Albrecht)

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Model(s): **Sigma-X Series**
SGMXA-***** ,
SGMXJ-***** ,
SGMXG-***** ,
SGMXP-*****

Model List

SGMXA-*****

SERVO MOTOR	Voltage [V _{rms}]	Phases	Rated Output [kW]
SGMXA-A5A*****	200	3	0.05
SGMXA-A8A*****			0.08
SGMXA-01A*****			0.1
SGMXA-C2A*****			0.15
SGMXA-02A*****			0.2
SGMXA-04A*****			0.4
SGMXA-06A*****			0.6
SGMXA-08A*****			0.75
SGMXA-10A*****			1
SGMXA-15A*A*****			1.5
SGMXA-20A*A*****			2.0
SGMXA-25A*A*****			2.5
SGMXA-30A*A*****			3.0
SGMXA-40A*A*****			4.0
SGMXA-50A*A*****			5.0
SGMXA-70A*A*****			7.0

SGMXJ-*****

SERVO MOTOR	Voltage [V _{rms}]	Phases	Rated Output [W]
SGMXJ-A5A*****	200	3	50
SGMXJ-A8A*****			80
SGMXJ-01A*****			100
SGMXJ-C2A*****			150
SGMXJ-02A*****			200
SGMXJ-04A*****			400
SGMXJ-06A*****			600
SGMXJ-08A*****			750

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SGMXG-*****

SERVO MOTOR	Voltage [V _{rms}]	Phases	Rated Output [kW]
SGMXG-03A*A*****	200	3	0.3
SGMXG-05A*A*****			0.45
SGMXG-09A*A*****			0.85
SGMXG-13A*A*****			1.3
SGMXG-20A*A*****			1.8
SGMXG-30A*A*****			2.9
SGMXG-44A*A*****			4.4
SGMXG-55A*A*****			5.5
SGMXG-75A*A*****			7.5
SGMXG-1AA*A*****			11
SGMXG-1EA*A*****			15

SGMXP-*****

SERVO MOTOR	Voltage [V _{rms}]	Phases	Rated Output [W]
SGMXP-A8A*****	200	3	80
SGMXP-01A*****			100
SGMXP-02A*****			200
SGMXP-04A*****			400
SGMXP-08A*****			750
SGMXP-15A*****			1500

“*” represents variations in model number as described in product covered and series nomenclature which do not affect electrical construction or rating. Refer to “Product Covered” or “Series Nomenclature”.

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Nomenclature

SGMXA-*****

1-1) Standard

SGMXA - 01 A U A 2 1 A 2
 a b c d e f g h i

1-2-1) Exclusive Design for Customer

SGMXA - 01 A U A - * * * *
 a b c d e j k l m

1-2-2) Exclusive Design for Customer

SGMXA - 01 A U A A 1 - * * * *
 a b c d e h i j k l m

2-1) With Gear

SGMXA - 01 A U A H 1 2 C A 2
 a b c d e n o f g h i

2-2-1) Exclusive Design for Customer with Gear

SGMXA - 01 A U A H - * * * *
 a b c d e n j k l m

2-2-2) Exclusive Design for Customer

SGMXA - 01 A U A H A 1 - * * * *
 a b c d e n h i j k l m

Letters	Items	(Group)	
a	Motor Model	SGMXA	

Letters	Items	(Group)	Rated Output [kW]
b	Motor Output	A5	0.05
		A8	0.08
		01	0.1
		C2	0.15
		02	0.2
		04	0.4
		06	0.6
		08	0.75
		10	1
		15	1.5
		20	2.0
		25	2.5
		30	3.0
		40	4.0
50	5.0		
70	7.0		

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

Letters	Items	(Group)	Encoder Type
d	Encoder	L	26bit Serial Incremental
		U	26bit Serial Absolute Value
		W	26bit Serial Battery less Absolute Value

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

Letters	Items	(Group)	Shaft Type
f	Shaft Type	0	Flange Type (without keyway)
		2	Straight (without keyway)
		3	1/10 Conical shaft ends, With Sunk Key
		4	Straight (with keyway)
		5	1/10 Conical shaft ends, With Woodruff Key
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)
		B	Straight (with double flat key seat)
		S	Straight (without keyway ($\phi 6$ or $\phi 16$))
		K	Straight (with keyway and tapped hole ($\phi 6$ or $\phi 16$))

Letters	Items	(Group)	Optional Specifications
g	Optional Specifications	1	Without Option
		C	With Brake (24V)
		S	With oil seal (S type)
		E	With oil seal (S type) and with Brake (24V)
		F	With oil seal (V type)
		H	With oil seal (V type) and with Brake (24V)

Letters	Items	(Group)	Optional Specifications
h	Region	A	Japan
		B	Global
		C	China

Letters	Items	(Group)	Optional Specifications
i	Optional Specifications	1	Σ -LINK II
		2	Compatible with Σ -7
		5	Oil-proof improvement(Compatible with Σ -7)

Letters	Items	(Group)	Customer Code
j	Customer Code	A-Z	-
k			



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Letters	Items	(Group)	Design Revision Order for Customer
l	Design Revision Order For Customer	A-Z or 0-9	-
m			

Letters	Items	(Group)	Design Revision Order
n	Gear Type	H	Non-backlash Gear

Letters	Items	(Group)	Reduction Ratio
o	Reduction Ratio	C	1/5
		G	1/9
		J	1/11
		K	1/12
		N	1/20
		P	1/21
		R	1/25
		U	1/33
		X	1/40

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SGMXJ-*****

1-1) Standard

SGMXJ - 01 A U A 2 1 A 2
a b c d e f g h i

1-2-1) Exclusive Design for Customer

SGMXJ - 01 A U A - * * * *
a b c d e j k l m

1-2-2) Exclusive Design for Customer

SGMXJ - 01 A U A A 1 - * * * *
a b c d e h i j k l m

2-1) With Gear

SGMXJ - 01 A U A H 1 2 C A 2
a b c d e n o f g h i

2-2-1) Exclusive Design for Customer with Gear

SGMXJ - 01 A U A H - * * * *
a b c d e n j k l m

2-2-2) Exclusive Design for Customer

SGMXJ - 01 A U A H A 1 - * * * *
a b c d e n h i j k l m

Letters	Items	(Group)	
a	Motor Model	SGMXJ	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	A5	50
		A8	80
		01	100
		C2	150
		02	200
		04	400
		06	600
		08	750

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

Letters	Items	(Group)	Encoder Type
d	Encoder	L	26bit Serial Incremental
		U	26bit Serial Absolute Value
		W	26bit Serial Battery less Absolute Value

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

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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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Letters	Items	(Group)	Shaft Type
f	Shaft Type	0	Flange Type (without keyway)
		2	Straight (without keyway)
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)
		B	Straight (with double flat key seat)
		S	Straight (without keyway ($\varphi 6$ or $\varphi 16$))
		K	Straight (with keyway and tapped hole ($\varphi 6$ or $\varphi 16$))

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	Region	A	Japan
		B	Global
		C	China

Letters	Items	(Group)	Optional Specifications
i	Optional Specifications	1	Σ -LINK II
		2	Compatible with Σ -7
		5	Oil-proof improvement

Letters	Items	(Group)	Customer Code
j	Customer Code	A-Z	-
k			

Letters	Items	(Group)	Design Revision Order for Customer
l	Design Revision Order For Customer	A-Z or 0-9	-
m			

Letters	Items	(Group)	Design Revision Order
n	Gear Type	H	Non-backlash Gear

Letters	Items	(Group)	Reduction Ratio
o	Reduction Ratio	C	1/5
		G	1/9
		J	1/11
		P	1/21
		U	1/33

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SGMXG-*****

1-1) Standard

SGMXG - 09 A U A 2 1 A 2
 a b c d e f g h i

1-2-1) Exclusive Design for Customer

SGMXG - 09 A U A - * * * *
 a b c d e j k l m

1-2-2) Exclusive Design for Customer

SGMXG - 09 A U A A 1 - * * * *
 a b c d e h i j k l m

2-1) With Gear

SGMXG - 09 A U A H 1 2 C A 2
 a b c d e n o f g h i

2-2-1) Exclusive Design for Customer with Gear

SGMXG - 09 A U A H - * * * *
 a b c d e n j k l m

2-2-2) Exclusive Design for Customer

SGMXG - 09 A U A H A 1 - * * * *
 a b c d e n h i j k l m

Letters	Items	(Group)	
a	Motor Model	SGMXG	

Letters	Items	(Group)	Rated Output [kW]
b	Motor Output	03	0.3
		05	0.45
		09	0.85
		13	1.3
		20	1.8
		30	2.9
		44	4.4
		55	5.5
		75	7.5
		1A	11
1E	15		

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

Letters	Items	(Group)	Encoder Type
d	Encoder	L	26bit Serial Incremental
		U	26bit Serial Absolute Value
		W	26bit Serial Battery less Absolute Value

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

Letters	Items	(Group)	Shaft Type
f	Shaft Type	2	Straight (without keyway)
		3	1/10 Conical shaft ends, With Sunk Key
		4	Straight (with keyway)
		5	1/10 Conical shaft ends, With Woodruff Key
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)
		S	Straight (without keyway), small size
		K	Straight (with keyway and tapped hole) small size
		T	Straight (tapped hole), small size
		U	Straight (with keyway), small size

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
		F	With oil seal (V type)
		H	With oil seal (V type) and with Brake (24V)

Letters	Items	(Group)	Optional Specifications
h	Region	A	Japan
		B	Global
		C	China

Letters	Items	(Group)	Optional Specifications
i	Optional Specifications	1	Σ -LINK II
		2	Compatible with Σ -7
		5	Oil-proof improvement

Letters	Items	(Group)	Customer Code
j	Customer Code	A-Z	-
k			

Letters	Items	(Group)	Design Revision Order for Customer
l	Design Revision Order For Customer	A-Z or 0-9	-
m			

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Letters	Items	(Group)	Design Revision Order
n	Gear Type	E	Standard Backlash Gear (with foot)
		F	Standard Backlash Gear (flange mount)
		H	Low-Backlash Gear

Letters	Items	(Group)	Reduction Ratio
o	Reduction Ratio (Low-backlash Gear)	C	1/5
		J	1/11
		K	1/12
		N	1/20
		P	1/21
		R	1/25
		U	1/33
		X	1/40
		Z	1/45
	Reduction Ratio (Standard Backlash Gear)	D	1/6
		J	1/11
		P	1/21
		S	1/29
		Y	1/43

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SGMXP_*****

1-1) Standard

SGMXP - 01 A U A 2 1 A 2
a b c d e f g h i

1-2-1) Exclusive Design for Customer

SGMXP - 01 A U A - * * * *
a b c d e j k l m

1-2-2) Exclusive Design for Customer

SGMXP - 01 A U A A 1 - * * * *
a b c d e h i j k l m

2-1) With Gear

SGMXP - 01 A U A H 1 2 C A 2
a b c d e n o f g h i

2-2-1) Exclusive Design for Customer with Gear

SGMXP - 01 A U A H - * * * *
a b c d e n j k l m

2-2-2) Exclusive Design for Customer

SGMXP - 01 A U A H A 1 - * * * *
a b c d e n h i j k l m

Letters	Items	(Group)	
a	Motor Model	SGMXP	

Letters	Items	(Group)	Rated Output[W]
b	Motor Output	A8	80
		01	100
		02	200
		04	400
		08	750
		15	1500

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

Letters	Items	(Group)	Encoder Type
d	Encoder	L	26bit Serial Incremental
		U	26bit Serial Absolute Value
		W	26bit Serial Battery less Absolute Value

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

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Letters	Items	(Group)	Shaft Type
f	Shaft Type	0	Flange Type (without keyway)
		2	Straight (without keyway)
		4	Straight (with keyway)
		6	Straight (with keyway and tapped hole)
		8	Straight (tapped hole)
		A	Straight (with single flat key seat)
		B	Straight (with double flat key seat)
		S	Straight (without keyway, small size)
		K	Straight (with keyway and tapped hole, small size)

Letters	Items	(Group)	Optional Specifications
g (80,100, 200,400W)	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	
		Lead wire length (mm)					
		300	500	1000	1500		
g (750, 1500W)	Optional Specifications	1	1H	1J	1K	Standard connector	without option
		C	CH	C J	CK		with brake(24V)
		S	SH	S J	SK		with shaft seal
		E	EH	E J	EK		with brake(24V) and shaft seal
		1D	1E	1F	1G	Drip-proofed connector	without option
		CD	CE	CF	CG		with brake(24V)
		SD	SE	SF	SG		with shaft seal
		ED	EE	EF	EG		with brake(24V) and shaft seal

Letters	Items	(Group)	Optional Specifications
h	Region	A	Japan
		B	Global
		C	China

Letters	Items	(Group)	Optional Specifications
i	Optional Specifications	1	Σ -LINK II
		2	Compatible with Σ -7
		5	Oil-proof improvement

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Letters	Items	(Group)	Customer Code
j	Customer Code	A-Z	-
k			

Letters	Items	(Group)	Design Revision Order for Customer
l	Design Revision Order For Customer	A-Z or 0-9	-
m			

Letters	Items	(Group)	Design Revision Order
n	Gear Type	H	Non-backlash Gear

Letters	Items	(Group)	Reduction Ratio
o	Reduction Ratio	C	1/5
		G	1/9
		J	1/11
		P	1/21
		U	1/33

Description of Object:

Rated Voltage: 200 VAC, 3 Phase
 Rated Power: 0.05 kW - 15 kW
 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)