



Product Service

EC-Statement of Compliance

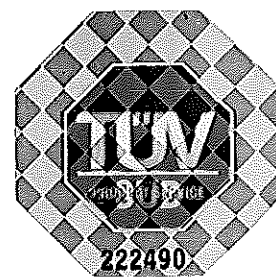
No. E6 12 08 22021 480

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

Name of Object: Servo Motor
AC Servo Motor

This EC-Statement of Compliance is issued according to the Directive 2004/108/EC relating to electromagnetic compatibility. It confirms that the listed apparatus complies with such aspects of the essential 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 to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

Technical report no.: 73538434



Date, 2012-08-06

(Johann Roidt)

TÜV SÜD Product Service GmbH is Notified Body to the Directive 2004/108/EC of the European Parliament and of the council with the identification number 0123.

Page 1 of 18



EC-Statement of Compliance

No. E6 12 08 22021 480

Model(s):

SGMAH series:

SGMAH-A3Bxxxx, SGMAH-A5Bxxxx, SGMAH-A8Bxxxx,
 SGMAH-01Bxxxx, SGMAH-02Bxxxx, SGMAH-03Bxxxx,
 SGMAH-A3Axxxx, SGMAH-A5Axxxx, SGMAH-A8Axxxx,
 SGMAH-01Axxxx, SGMAH-02Axxxx, SGMAH-04Axxxx,
 SGMAH-08Axxxx, SGMAH-03Dxxxx, SGMAH-07Dxxxx,
 SGMAH-01AAA-FJ21, SGMAH-02AAA-FJ21,
 SGMAH-04AAA-FJ11, SGMAH-04AAA-FJ12,
 SGMAH-08ABA-FJ11, SGMAH-08ABA-FJ12,
 SGMAH-A3AAA-TY11, SGMAH-A5A1A-AD11,
 SGMAH-01A1A-AD11, SGMAH-02A1A-AD11,
 SGMAH-02A1A-AD21, SGMAH-04A1A-AD11,
 SGMAH-04A1A-AD21, SGMAH-08A1A-AD11,
 SGMAH-A5A1A-FJ13, SGMAH-02A1A-FJ13,
 SGMAH-02A1A-FJ25, SGMAH-04A1A-FJ11,
 SGMAH-01A1A-FJ61, SGMAH-A5A1AG-TG11,
 SGMAH-A5A1A-YR61, SGMAH-A5A1A-YR71,
 SGMAH-A5A1A-YR81, SGMAH-02A1A-YR21,
 SGMAH-A5AAA-YR21, SGMAH-A5AAA-YR11,
 SGMAH-02AAA-YR11, SGMAH-A5A1F-YA11,
 SGMAH-A5AAF-YA11, SGMAH-02A1F-YA12,
 SGMAH-04AAF-YA11, SGMAH-04AAF-YA14,
 SGMAH-04AAF-YA15

SGMPH series:

SGMPH-A8Bxxxx, SGMPH-01Bxxxx, SGMPH-02Bxxxx,
 SGMPH-A8Axxxx, SGMPH-01Axxxx, SGMPH-02Axxxx,
 SGMPH-04Axxxx, SGMPH-08Axxxx, SGMPH-15Axxxx,
 SGMPH-02Dxxxx, SGMPH-04Dxxxx, SGMPH-08Dxxxx,
 SGMPH-15Dxxxx,
 SGMPH-04AAA-FJ21, SGMPH-04A1A-FJ12,
 SGMPH-04A1A-AD11, SGMPH-04A1A-AD21,
 SGMPH-02A1A-FJ21, SGMPH-04AAA-TE31,
 SGMPH-01A1A-YR61, SGMPH-02A1A-YR71,
 SGMPH-01AAE-YA11, SGMPH-01AAE-YA12,
 SGMPH-01AAE-YA13, SGMPH-01AAE-YA14,
 SGMPH-01AAE-YA15, SGMPH-01AAE-YA17,
 SGMPH-01AAE-YA18, SGMPH-04AAE-YA16

(See Attachment for Nomenclature)

Description of Object:

Rated Voltage:	100 VAC/ 200 VAC/ 400 VAC, 3 phases
Rated Power:	30 W - 750 W (SGMAH), 80 W - 1,500 W (SGMPH)
Protection Class:	I
EMC Classification:	Group 1, Class A (EN 55011/A1)

Tested according to:

EN 55011/A1:2010
 EN 61000-6-2:2005



Product Service

Attachment

Statement No. **E6 12 08 22021 480**

1.SGMAH TYPE

1.1 Model Description

1.1.1 Electrical Ratings:

SERVO MOTOR	Voltage	Phases	Rated Current [A _{rms}]	Rated Output [KW]
SGMAH-A3Bxxxx	100VAC	3	0.66	0.03
SGMAH-A5Bxxxx			0.95	0.05
SGMAH-A8Bxxxx			1.9	0.08
SGMAH-01Bxxxx			2.4	0.10
SGMAH-02Bxxxx			3.0	0.20
SGMAH-03Bxxxx			4.0	0.30
SGMAH-A3Axxxx	200VAC	3	0.44	0.03
SGMAH-A5Axxxx			0.64	0.05
SGMAH-A8Axxxx			0.74	0.08
SGMAH-01Axxxx			0.91	0.10
SGMAH-02Axxxx			2.1	0.20
SGMAH-04Axxxx			2.8	0.40
SGMAH-08Axxxx	400VAC	3	4.4	0.75
SGMAH-03Dxxxx			1.3	0.30
SGMAH-07Dxxxx			2.2	0.65

"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".



Product Service

Attachment

Statement No. **E6 12 08 22021 480**

1.1.2 Series Nomenclature:

1) Standard

SGMAH - 01 A A A 2 BA -OY
 a b c d e f g h

- a. Motor Type: Sigma-II Series SGMAH
- b. Motor Output:
 - A3 – 0,03KW
 - A5 – 0,05KW
 - A8 – 0,08KW
 - 01 – 0,10KW
 - 02 – 0,20KW
 - 03 – 0,30KW
 - 04 – 0,40KW
 - 07 – 0,65KW
 - 08 – 0,75KW
- c. Power Supply:
 - A – 200V
 - B – 100V
 - D – 400V
- d. Encoder Spec.:

A – Incremental	(13bit serial)
B – Incremental	(16bit serial)
C – Incremental	(17bit serial)
1 – Absolute Value	(16bit serial)
2 – Absolute Value	(17bit serial)
4 – Absolute Value	(16bit serial with built-in-capacitor)
5 – Absolute Value	(17bit serial with built-in-capacitor)
- e. Design Revision Order:
 - A – Standard
 - F – Different from standard flange type
- f. Shaft type:

2 – Straight	(without key way)
3 – Tapped 1/10	(with parallel key way)
4 – Straight	(with key way)
5 – Tapped 1/10	(with woodruff keyway)
6 – Straight	(with keyway and tapped hole)
8 – Straight	(with tapped hole)
A – Straight	(with flat key seat)
B – Straight	(with double flat key seat)
C – Straight	(with keyway and flat key seat)



Attachment

Statement No. **E6 12 08 22021 480**

g. Options and Lead wire length specification:

		Lead wire length			
		300mm	500mm	1000mm	1500mm
Standard connector	without option	1	1H	1J	1K
	with brake(90V)	B	BH	B J	BK
	with brake(24V)	C	CH	C J	CK
	with shaft seal	S	SH	S J	SK
	with brake(90V) and shaft seal	D	DH	D J	DK
	with brake(24V) and shaft seal	E	EH	E J	EK
Drip – proofed connector	without option	1D	1E	1F	1G
	with brake(90V)	BD	BE	BF	BG
	with brake(24V)	CD	CE	CF	CG
	with shaft seal	SD	SE	SF	SG
	with brake(90V) and shaft seal	DD	DE	DF	DG
	with brake(24V) and shaft seal	ED	EE	EF	EG

h. Additional type: Blank -Standard
 -OY -Standard
 -E -Standard(for ROHS directive)



Product Service

Attachment

Statement No. **E6 12 08 22021 480**

2)With gear

SGMAH - 01 A A AG 1 1 B -OY
 a b c d e f g h i

- a. Motor Type: Sigma-II Series SGMAH
- b. Motor Output: A3 – 0,03KW
 A5 – 0,05KW
 A8 – 0,08KW
 01 – 0,10KW
 02 – 0,20KW
 03 – 0,30KW
 04 – 0,40KW
 07 – 0,65KW
 08 – 0,75KW
- c. Power Supply: A – 200V
 B – 100V
 D – 400V
- d. Encoder Spec.: A – Incremental (13bit serial)
 B – Incremental (16bit serial)
 C – Incremental (17bit serial)
 1 – Absolute Value (16bit serial)
 2 – Absolute Value (17bit serial)
 4 – Absolute Value (16bit serial with built-in-capacitor)
 5 – Absolute Value (17bit serial with built-in-capacitor)
- e. Design Revision Order: AG – With non – backlash gear
 AH – With non – backlash gear
 AJ – With standard backlash gear
- f. Reduction ratio: 1 – 5
 2 – 9
 3 – 10 or 10,3
 7 – 29 or 33
 B – 11
 C – 21
- g. Shaft Type: 0 – Flange type (without keyway)
 1 – Taper (without keyway)
 2 – Straight (without keyway)
 3 – Taper (with keyway)
 4 – Straight (with keyway)
 5 – Taper (with keyway and tapped hole)
 6 – Straight (with keyway and tapped hole)
 8 – Straight (with tapped hole)



Product Service

Attachment

Statement No. **E6 12 08 22021 480**

h. Options and Lead wire length specification:

		Lead wire length			
		300mm	500mm	1000mm	1500mm
Standard connector	without option	1	1H	1J	1K
	with brake(90V)	B	BH	B J	BK
	with brake(24V)	C	CH	C J	CK
	with shaft seal	S	SH	S J	SK
	with brake(90V) and shaft seal	D	DH	D J	DK
	with brake(24V) and shaft seal	E	EH	E J	EK
Drip – proofed connector	without option	1D	1E	1F	1G
	with brake(90V)	BD	BE	BF	BG
	with brake(24V)	CD	CE	CF	CG
	with shaft seal	SD	SE	SF	SG
	with brake(90V) and shaft seal	DD	DE	DF	DG
	with brake(24V) and shaft seal	ED	EE	EF	EG

i. Additional type: Blank -Standard
 -OY -Standard
 -E -Standard(for ROHS directive)



Attachment

Statement No. **E6 12 08 22021 480**

3) Exclusive design for customer

(1)
SGMAH - 01 A A AG- * * * *
 a b c d e f g h i

- a. Motor Type: Sigma-II Series SGMAH
- b. Motor Output: A3 – 0,03KW
 A5 – 0,05KW
 A8 – 0,08KW
 01 – 0,10KW
 02 – 0,20KW
 03 – 0,30KW
 04 – 0,40KW
 07 – 0,65KW
 08 – 0,75KW
- c. Power Supply: A – 200V
 B – 100V
 D – 400V
- d. Encoder Spec.: A – Incremental (13bit serial)
 B – Incremental (16bit serial)
 C – Incremental (17bit serial)
 1 – Absolute Value (16bit serial)
 2 – Absolute Value (17bit serial)
 4 – Absolute Value (16bit serial with built-in-capacitor)
 5 – Absolute Value (17bit serial with built-in-capacitor)
- e. Design Revision Order: A – Standard(without gear)
 AG - With non – backlash gear
 AH – With non – backlash gear
 AJ – With standard backlash gear
- f.g. Customer Code: put any alphabets.
- h.i. Design Revision Oder for Customer :put any numbers.

(2)
SGMAH -01AAA21 - Y2
 a b

- a. Standard model type
- b. Customer Code: Y1 – ball bearing fixing adhesion
 Y2 – Ball bearing fixing adhesion and encoder added



Product Service

Attachment

Statement No. **E6 12 08 22021 480**

1.SGMPH TYPE

1.1 Model Description

1.1.1 Electrical Ratings:

SERVO MOTOR	Voltage	Phases	Rated Current [A _{rms}]	Rated Output [KW]
SGMPH-A8Bxxxx	100VAC	3	1.8	0.08
SGMPH-01Bxxxx			2.2	0.10
SGMPH-02Bxxxx			2.7	0.20
SGMPH-A8Axxxx	200VAC	3	0.72	0.08
SGMPH-01Axxxx			0.89	0.10
SGMPH-02Axxxx			2.0	0.20
SGMPH-04Axxxx			2.6	0.40
SGMPH-08Axxxx			4.1	0.75
SGMPH-15Axxxx			7.5	1.50
SGMPH-02Dxxxx	400VAC	3	1.4	0.20
SGMPH-04Dxxxx			1.4	0.40
SGMPH-08Dxxxx			2.6	0.75
SGMPH-15Dxxxx			4.5	1.50

"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".



Product Service

Attachment

Statement No. **E6 12 08 22021 480**

1.1.2 Series Nomenclature:

1)Standard

SGMPH - 01 A A A 2 BA -OY
a b c d e f g h

- a. Motor Type: Sigma-II Series SGMPH
- b. Motor Output: A8 – 0,08KW
01 – 0,10KW
02 – 0,20KW
04 – 0,40KW
08 – 0,75KW
15 – 1,50KW
- c. Power Supply: A – 200V
B – 100V
D – 400V
- d. Encoder Spec.: A – Incremental (13bit serial)
B – Incremental (16bit serial)
C – Incremental (17bit serial)
1 – Absolute Value (16bit serial)
2 – Absolute Value (17bit serial)
4 – Absolute Value (16bit serial with built-in-capacitor)
5 – Absolute Value (17bit serial with built-in-capacitor)
- e. Design Revision Order: A – Standard
E – Drip proof provision
- f. Shaft type: 2 – Straight (without key way)
3 – Tapped 1/10 (with parallel key way)
4 – Straight (with key way)
5 – Tapped 1/10 (with woodruff keyway)
6 – Straight (with keyway and tapped hole)
8 – Straight (with tapped hole)
A – Straight (with flat key seat)
B – Straight (with double flat key seat)
C – Straight (with keyway and flat key seat)



Attachment

Statement No. **E6 12 08 22021 480**

Product Service

g. Options and Lead wire length specification:

		Lead wire length			
		300mm	500mm	1000mm	1500mm
Standard connector	without option	1	1H	1J	1K
	with brake(90V)	B	BH	B J	BK
	with brake(24V)	C	CH	C J	CK
	with shaft seal	S	SH	S J	SK
	with brake(90V) and shaft seal	D	DH	D J	DK
	with brake(24V) and shaft seal	E	EH	E J	EK
Drip – proofed connector	without option	1D	1E	1F	1G
	with brake(90V)	BD	BE	BF	BG
	with brake(24V)	CD	CE	CF	CG
	with shaft seal	SD	SE	SF	SG
	with brake(90V) and shaft seal	DD	DE	DF	DG
	with brake(24V) and shaft seal	ED	EE	EF	EG

- h. Additional type:
- Blank -Standard
 - OY -Standard
 - E -Standard(for ROHS directive)



Product Service

Attachment

Statement No. **E6 12 08 22021 480**

2)With gear

SGMPH - 01 A A AG 1 1 B -OY
 a b c d e f g h i

- a. Motor Type: Sigma-II Series SGMPH
- b. Motor Output: A8 – 0,08KW
 01 – 0,10KW
 02 – 0,20KW
 04 – 0,40KW
 08 – 0,75KW
 15 – 1,50KW
- c. Power Supply: A – 200V
 B – 100V
 D – 400V
- d. Encoder Spec.: A – Incremental (13bit serial)
 B – Incremental (16bit serial)
 C – Incremental (17bit serial)
 1 – Absolute Value (16bit serial)
 2 – Absolute Value (17bit serial)
 4 – Absolute Value (16bit serial with built-in-capacitor)
 5 – Absolute Value (17bit serial with built-in-capacitor)
- e. Design Revision Order: AG – With non – backlash gear
 AH – With non – backlash gear
 AJ – With standard backlash gear
 EG – With non – backlash gear and Drip proof provision
 EH – With non – backlash gear and Drip proof provision
 EJ – With standard backlash gear and Drip proof provision
- f. Reduction ratio: 1 – 5
 2 – 9
 3 – 10 or 10,3
 7 – 29 or 33
 B – 11
 C – 21
- g. Shaft Type: 0 – Flange type (without keyway)
 1 – Taper (without keyway)
 2 – Straight (without keyway)
 3 – Taper (with keyway)
 4 – Straight (with keyway)
 5 – Taper (with keyway and tapped hole)
 6 – Straight (with keyway and tapped hole)
 8 – Straight (with tapped hole)



Product Service

Attachment

Statement No. **E6 12 08 22021 480**

h. Options and Lead wire length specification:

		Lead wire length			
		300mm	500mm	1000mm	1500mm
Standard connector	without option	1	1H	1J	1K
	with brake(90V)	B	BH	B J	BK
	with brake(24V)	C	CH	C J	CK
	with shaft seal	S	SH	S J	SK
	with brake(90V) and shaft seal	D	DH	D J	DK
	with brake(24V) and shaft seal	E	EH	E J	EK
Drip – proofed connector	without option	1D	1E	1F	1G
	with brake(90V)	BD	BE	BF	BG
	with brake(24V)	CD	CE	CF	CG
	with shaft seal	SD	SE	SF	SG
	with brake(90V) and shaft seal	DD	DE	DF	DG
	with brake(24V) and shaft seal	ED	EE	EF	EG

- i. Additional type:
- Blank -Standard
 - OY -Standard
 - E -Standard(for ROHS directive)



Attachment

Statement No. **E6 12 08 22021 480**

3) Exclusive design for customer

(1)

$$\frac{\text{SGMPH}}{a} - \frac{01}{b} \frac{A}{c} \frac{A}{d} \frac{AG}{e} - \frac{*}{f} \frac{*}{g} \frac{*}{h} \frac{*}{i}$$

- a. Motor Type: Sigma-II Series SGMPH
- b. Motor Output:
 - A8 – 0,08KW
 - 01 – 0,10KW
 - 02 – 0,20KW
 - 04 – 0,40KW
 - 08 – 0,75KW
 - 15 – 1,50KW
- c. Power Supply:
 - A – 200V
 - B – 100V
 - D – 400V
- d. Encoder Spec.:

A – Incremental	(13bit serial)
B – Incremental	(16bit serial)
C – Incremental	(17bit serial)
1 – Absolute Value	(16bit serial)
2 – Absolute Value	(17bit serial)
4 – Absolute Value	(16bit serial with built-in-capacitor)
5 – Absolute Value	(17bit serial with built-in-capacitor)
- e. Design Revision Order:
 - A – Standard(without gear)
 - E – Drip proof provision(without gear)
 - AG - With non – backlash gear
 - AH – With non – backlash gear
 - AJ – With standard backlash gear
 - EG - With non – backlash gear and Drip proof provision
 - EH – With non – backlash gear and Drip proof provision
 - EJ – With standard backlash gear and Drip proof provision
- f,g. Customer Code: put any alphabets.
- h,i. Design Revision Oder for Customer :put any numbers.



Attachment

Statement No. **E6 12 08 22021 480**

3. Characteristic of Ratings

3.1 SGMAH

SERVO MOTOR	Voltage	Phase s	Rated Current [A _{rms}]	Rated Output [KW]	Rated torque [Nm]	Rated speed [min ⁻¹]	Insulation class [Deg_C]
SGMAH-A3Bxxxx	100VAC	3	0.66	0.03	0.0955	3000	130
SGMAH-A5Bxxxx			0.95	0.05	0.159		
SGMAH-A8Bxxxx			1.9	0.08	0.255		
SGMAH-01Bxxxx			2.4	0.10	0.318		
SGMAH-02Bxxxx			3.0	0.20	0.637		
SGMAH-03Bxxxx			4.0	0.30	0.955		
SGMAH-A3Axxxx	200VAC	3	0.44	0.03	0.0955		
SGMAH-A5Axxxx			0.64	0.05	0.159		
SGMAH-A8Axxxx			0.74	0.08	0.255		
SGMAH-01Axxxx			0.91	0.10	0.318		
SGMAH-02Axxxx			2.1	0.20	0.637		
SGMAH-04Axxxx			2.8	0.40	1.27		
SGMAH-08Axxxx	4.4	0.75	2.39				
SGMAH-03Dxxxx	400VAC	3	1.3	0.30	0.955		
SGMAH-07Dxxxx			2.2	0.65	2.07		



Attachment

Statement No. **E6 12 08 22021 480**

3.2 SGMPH

SERVO MOTOR	Voltage	Phase s	Rated Current [A _{rms}]	Rated Output [KW]	Rated torque [Nm]	Rated speed [min ⁻¹]	Insulation class [Deg_C]
SGMPH-A8Bxxxx	100VAC	3	1.8	0.08	0.255	3000	130
SGMPH-01Bxxxx			2.2	0.10	0.318		
SGMPH-02Bxxxx			2.7	0.20	0.637		
SGMPH-A8Axxxx	200VAC	3	0.72	0.08	0.255		
SGMPH-01Axxxx			0.89	0.10	0.318		
SGMPH-02Axxxx			2.0	0.20	0.637		
SGMPH-04Axxxx			2.6	0.40	1.27		
SGMPH-08Axxxx			4.1	0.75	2.39		
SGMPH-15Axxxx			7.5	1.50	4.77		
SGMPH-02Dxxxx	400VAC	3	1.4	0.20	0.637		
SGMPH-04Dxxxx			1.4	0.40	1.27		
SGMPH-08Dxxxx			2.6	0.75	2.39		
SGMPH-15Dxxxx			4.5	1.50	4.77		

3.3 International protection class(IP class)

Motor type	IP Class
SGMAH	IP55
SGMPH	IP55(Standard) IP67(Drip proof provision)



Attachment

Statement No. **E6 12 08 22021 480**

4. Exclusive design
4.1 SGMAH TYPE

Additional motor type	Drawing	Base motor	Difference point
SGMAH-01AAA-FJ21			Already applied
SGMAH-02AAA-FJ21			
SGMAH-04AAA-FJ11			
SGMAH-04AAA-FJ12			
SGMAH-08ABA-FJ11			
SGMAH-08ABA-FJ12			
SGMAH-A3AAA-TY11			
SGMAH-A5A1A-AD11			
SGMAH-01A1A-AD11			
SGMAH-02A1A-AD11			
SGMAH-02A1A-AD21			
SGMAH-04A1A-AD11			
SGMAH-04A1A-AD21			
SGMAH-08A1A-AD11			
SGMAH-A5A1A-FJ13			
SGMAH-02A1A-FJ13			
SGMAH-02A1A-FJ25			
SGMAH-04A1A-FJ11			
SGMAH-01A1A-FJ61			
SGMAH-A5A1AG-TG11			
SGMAH-A5A1A-YR61	900-030-481	SGMAH-A5A1A21-E	Shaft length from flange is 13mm(25mm), With M4 tap depth 8mm(Without tap). () is base motor
SGMAH-A5A1A-YR71	900-030-482	SGMAH-A5A1A41-E	Motor type only
SGMAH-A5A1A-YR81	900-030-686	SGMAH-A5A1A21-E	Motor type only
SGMAH-02A1A-YR21	900-030-485	SGMAH-02A1A6C-E	Motor type only
SGMAH-A5AAA-YR21	900-029-746	SGMAH-A5AAA21-E	Shaft length from flange is 13mm(25mm), With M4 tap depth 8mm(Without tap). () is base motor
SGMAH-A5AAA-YR11	900-029-745	SGMAH-A5AAA4S-E	Motor type only
SGMAH-02AAA-YR11	900-029-744	SGMAH-02AAA6C-E	Motor type only
SGMAH-A5A1F-YA11	UDA00316	SGMAH-A5A1F21	Length of encoder and motor lead wires. Encoder lead with battery. Motor connector.
SGMAH-A5AAF-YA11	UDA00584	SGMAH-02A1F4C	Motor connector
SGMAH-02A1F-YA12	UDA00552	SGMAH-02A1F4C	Length of encoder and motor lead wires. Encoder connector. Motor connector.
SGMAH-04AAF-YA11	UDA00294	SGMAH-A5A1F21	Length of encoder and motor lead wires. Motor connector.
SGMAH-04AAF-YA14	UDA00587	SGMAH-02A1F4C	Length of encoder and motor lead wires. Motor connector.
SGMAH-04AAF-YA15	UDA00586	SGMAH-04AAF41	Length of encoder and motor lead wires. Motor connector.



Attachment

Statement No. **E6 12 08 22021 480**

4.2 SGMPH TYPE

Additional motor type	Drawing	Base motor	Difference point
SGMPH-04AAA-FJ21			Already applied
SGMPH-04A1A-FJ12			
SGMPH-04A1A-AD11			
SGMPH-04A1A-AD21			
SGMPH-02A1A-FJ21			
SGMPH-04AAA-TE31			
SGMPH-01A1A-YR61	900-030-483	SGMPH-01A1A61-E	Motor type only
SGMPH-02A1A-YR71	900-030-484	SGMPH-02A1A6S-E	Motor type only
SGMPH-01AAE-YA11	UDA00293	SGMPH-01AAE4CK	Length of encoder and motor lead wires. Motor connector.
SGMPH-01AAE-YA12	UDA00359	SGMPH-01AAE4CK	Length of encoder and motor lead wires. Motor connector.
SGMPH-01AAE-YA13	UDA00547	SGMPH-01AAE4CK	Length of encoder and motor lead wires. Motor connector.
SGMPH-01AAE-YA14	UDA00540	SGMPH-01AAE4C	Length of encoder and motor lead wires. Encoder connector and motor connector.
SGMPH-01AAE-YA15	UDA00543	SGMPH-01AAE41	Length of encoder and motor lead wires. Encoder connector and motor connector.
SGMPH-01AAE-YA17	UDA00565	SGMPH-01AAE41	Length of encoder and motor lead wires. Encoder connector and motor connector.
SGMPH-01AAE-YA18	UDA00566	SGMPH-01AAE41	Length of encoder and motor lead wires. Encoder connector and motor connector.
SGMPH-04AAE-YA16	UDA00542	SGMPH-01AAE41	Length of encoder and motor lead wires. Encoder connector and motor connector.