



Product Service

EU-Type Examination Certificate

No. E6A 17 01 22021 684

Holder of Certificate: Yaskawa Electric Corp.
Tokyo Plant

480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN

Product: AC Servo Systems
AC SERVO MOTOR DIRECT DRIVE Sigma Series

Model(s): SGM7D Type
(See Attachment for Nomenclature)

Description of Object:

Rated voltage: 200 VAC, 3 phase
Rated Frequency: 50 Hz
Rated Power: 16 W-817 W
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.: 73561005

Date, 2017-01-27

(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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1. CERTIFIED MODEL LIST

| SERVO MOTOR | Voltage | Phases | Rated Current [A _{rms}] | Rated Output [W] | Rated Torque [N·m] |
|---------------|--------------------|--------|-----------------------------------|------------------|--------------------|
| SGM7D-30Fxxxx | 200V _{AC} | 3 | 5.7 | 188 | 30.0 |
| SGM7D-58Fxxxx | | | 6.4 | 364 | 58.0 |
| SGM7D-90Fxxxx | | | 5.9 | 565 | 90.0 |
| SGM7D-1AFxxxx | | | 5.0 | 691 | 110 |
| SGM7D-01Gxxxx | | | 1.7 | 16 | 1.30 |
| SGM7D-05Gxxxx | | | 1.6 | 63 | 5.00 |
| SGM7D-08Gxxxx | | | 3.4 | 101 | 8.00 |
| SGM7D-18Gxxxx | | | 3.4 | 226 | 18.0 |
| SGM7D-24Gxxxx | | | 3.1 | 302 | 24.0 |
| SGM7D-34Gxxxx | | | 3.3 | 320 | 34.0 |
| SGM7D-45Gxxxx | | | 4.8 | 565 | 45.0 |
| SGM7D-03Hxxxx | | | 1.1 | 38 | 3.00 |
| SGM7D-28Ixxxx | | | 5.2 | 264 | 28.0 |
| SGM7D-70Ixxxx | | | 5.6 | 440 | 70.0 |
| SGM7D-1ZIxxxx | | | 5.5 | 628 | 100 |
| SGM7D-1CIxxxx | | | 5.0 | 817 | 130 |
| SGM7D-2BIxxxx | | | 5.6 | 691 | 220 |
| SGM7D-2DIxxxx | | | 4.8 | 754 | 240 |
| SGM7D-06Jxxxx | | | 4.0 | 75 | 6.00 |
| SGM7D-09Jxxxx | | | 3.4 | 113 | 9.00 |
| SGM7D-18Jxxxx | | | 3.0 | 226 | 18.0 |
| SGM7D-20Jxxxx | | | 2.2 | 251 | 20.0 |
| SGM7D-38Jxxxx | | | 3.1 | 358 | 38.0 |
| SGM7D-02Kxxxx | | | 1.6 | 52 | 2.06 |
| SGM7D-06Kxxxx | | | 1.8 | 151 | 6.00 |
| SGM7D-08Kxxxx | | | 1.6 | 201 | 8.00 |
| SGM7D-06Lxxxx | | | 1.7 | 113 | 6.00 |
| SGM7D-12Lxxxx | | | 2.1 | 226 | 12.0 |
| SGM7D-30Lxxxx | | | 8.1 | 565 | 30.0 |

"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".



2. Series Nomenclature:

1) Standard

SGM7D - 30 F F C 4 1
 a b c d e f g

| Letters | Items | (Group) | |
|---------|------------|---------|--|
| a | Motor type | SGM7D | |

| Letters | Items | (Group) | Rated Torque[N·m] |
|---------|--------------|---------|-------------------|
| b | Rated Torque | 30 | 30.0 |
| | | 58 | 58.0 |
| | | 90 | 90.0 |
| | | 1A | 110 |
| | | 01 | 1.30 |
| | | 05 | 5.00 |
| | | 08 | 8.00 |
| | | 18 | 18.0 |
| | | 24 | 24.0 |
| | | 34 | 34.0 |
| | | 45 | 45.0 |
| | | 03 | 3.00 |
| | | 28 | 28.0 |
| | | 70 | 70.0 |
| | | 1Z | 100 |
| | | 1C | 130 |
| | | 2B | 220 |
| | | 2D | 240 |
| 06 | 6.00 | | |
| 09 | 9.00 | | |
| 20 | 20.0 | | |
| 38 | 38.0 | | |
| 02 | 2.06 | | |
| 12 | 12.0 | | |

| Letters | Items | (Group) | Motor Outer Diameter [mm] |
|---------|----------------------|---------|---------------------------|
| c | Motor Outer Diameter | F | 264 dia. |
| | | G | 158 dia., 160 dia. |
| | | H | 116 dia. |
| | | I | 264 dia. |
| | | J | 145dia., 150 dia. |
| | | K | 107 dia. |
| | | L | 224 dia. |

| Letters | Items | (Group) | Encoder |
|---------|---------|---------|--|
| d | Encoder | F | 24bit Serial Incremental Value |
| | | 7 | 24bit Serial Absolute Value (Multi turn) |



2) Exclusive design for customer

SGM7D - 30 F F C - * * * *
 a b c d e f g h i

| Letters | Items | (Group) | |
|---------|------------|---------|--|
| a | Motor type | SGM7D | |

| Letters | Items | (Group) | Rated Torque[N·m] |
|---------|--------------|---------|-------------------|
| b | Rated Torque | 30 | 30.0 |
| | | 58 | 58.0 |
| | | 90 | 90.0 |
| | | 1A | 110 |
| | | 01 | 1.30 |
| | | 05 | 5.00 |
| | | 08 | 8.00 |
| | | 18 | 18.0 |
| | | 24 | 24.0 |
| | | 34 | 34.0 |
| | | 45 | 45.0 |
| | | 03 | 3.00 |
| | | 28 | 28.0 |
| | | 70 | 70.0 |
| | | 1Z | 100 |
| | | 1C | 130 |
| | | 2B | 220 |
| | | 2D | 240 |
| | | 06 | 6.00 |
| | | 09 | 9.00 |
| 20 | 20.0 | | |
| 38 | 38.0 | | |
| 02 | 2.06 | | |
| 12 | 12.0 | | |

| Letters | Items | (Group) | Motor Outer Diameter [mm] |
|---------|----------------------|---------|---------------------------|
| c | Motor Outer Diameter | F | 264 dia. |
| | | G | 158 dia., 160 dia. |
| | | H | 116 dia. |
| | | I | 264 dia. |
| | | J | 145dia., 150 dia. |
| | | K | 107 dia. |
| | | L | 224 dia. |

| Letters | Items | (Group) | Encoder |
|---------|---------|---------|--|
| d | Encoder | F | 24bit Serial Incremental Value |
| | | 7 | 24bit Serial Absolute Value (Multi turn) |

| Letters | Items | (Group) | Design Revision Order |
|---------|-----------------------|---------|-----------------------|
| e | Design Revision Order | C | |

Attachment
 Certificate No. **E6A 17 01 22021 684**



Product Service

| Letters | Items | (Group) | Customer Code |
|---------|---------------|---------|---------------|
| f, g | Customer Code | - | - |

| Letters | Items | (Group) | Design Revision Order For Customer |
|---------|------------------------------------|---------|------------------------------------|
| h, i | Design Revision Order For Customer | - | - |