

# EU-Type Examination Certificate

No. E6A 022021 0783 Rev. 10

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

**Product:** **AC Servo Systems**  
**AC Servo Amplifier "SERVOPACK"**

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( Volker Albrecht )

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Model(s): **SGDXS-\*\*\*\*\***, **SGDXW-\*\*\*\*\***,  
**SGDXT-\*\*\*\*\***

**Model List**

**SGDXS model Standard Spec., Hardware Option Spec., and FT Spec.**

|                      |                      |
|----------------------|----------------------|
| SGDXS-R70A00Axxxxyyz | SGDXS-R70AA0Axxxxyyz |
| SGDXS-R90A00Axxxxyyz | SGDXS-R90AA0Axxxxyyz |
| SGDXS-1R6A00Axxxxyyz | SGDXS-1R6AA0Axxxxyyz |
| SGDXS-2R8A00Axxxxyyz | SGDXS-2R8AA0Axxxxyyz |
| SGDXS-3R8A00Axxxxyyz | SGDXS-3R8AA0Axxxxyyz |
| SGDXS-5R5A00Axxxxyyz | SGDXS-5R5AA0Axxxxyyz |
| SGDXS-7R6A00Axxxxyyz | SGDXS-7R6AA0Axxxxyyz |
| SGDXS-120A00Axxxxyyz | SGDXS-120AA0Axxxxyyz |
| SGDXS-180A00Axxxxyyz | SGDXS-180AA0Axxxxyyz |
| SGDXS-200A00Axxxxyyz | SGDXS-200AA0Axxxxyyz |
| SGDXS-330A00Axxxxyyz | SGDXS-330AA0Axxxxyyz |
| SGDXS-470A00Axxxxyyz | SGDXS-470AA0Axxxxyyz |
| SGDXS-550A00Axxxxyyz | SGDXS-550AA0Axxxxyyz |
| SGDXS-590A00Axxxxyyz | SGDXS-590AA0Axxxxyyz |
| SGDXS-780A00Axxxxyyz | SGDXS-780AA0Axxxxyyz |
| SGDXS-R70A40Axxxxyyz |                      |
| SGDXS-R90A40Axxxxyyz |                      |
| SGDXS-1R6A40Axxxxyyz |                      |
| SGDXS-2R8A40Axxxxyyz |                      |
| SGDXS-3R8A40Axxxxyyz |                      |
| SGDXS-5R5A40Axxxxyyz |                      |
| SGDXS-7R6A40Axxxxyyz |                      |
| SGDXS-120A40Axxxxyyz |                      |
| SGDXS-180A40Axxxxyyz |                      |
| SGDXS-200A40Axxxxyyz |                      |
| SGDXS-330A40Axxxxyyz |                      |
| SGDXS-470A40Axxxxyyz |                      |
| SGDXS-550A40Axxxxyyz |                      |
| SGDXS-590A40Axxxxyyz |                      |
| SGDXS-780A40Axxxxyyz |                      |

**SGDXW model Standard Spec., Hardware Option Spec., and FT Spec.**

|                      |
|----------------------|
| SGDXW-1R6A40Axxxxyyz |
| SGDXW-2R8A40Axxxxyyz |
| SGDXW-5R5A40Axxxxyyz |
| SGDXW-7R6A40Axxxxyyz |
| SGDXW-1R6AA0Axxxxyyz |
| SGDXW-2R8AA0Axxxxyyz |
| SGDXW-5R5AA0Axxxxyyz |
| SGDXW-7R6AA0Axxxxyyz |

**SGDXT model Standard Spec., Hardware Option Spec., and FT Spec.**

|                      |
|----------------------|
| SGDXT-1R6A40Axxxxyyz |
| SGDXT-2R8A40Axxxxyyz |
| SGDXT-1R6AA0Axxxxyyz |
| SGDXT-2R8AA0Axxxxyyz |

xxxx : Hardware option type (list of certification Hardware option type shown in table 4,5)

yy : FT spec.

z : BTO spec.

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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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**Hardware Option type for SGDXS**

|      |      |      |      |      |
|------|------|------|------|------|
| 0000 | 2000 | 4000 | 8000 | 8060 |
| 0001 | 2001 | 4001 | 8001 | 8061 |
| 0002 | 2002 | 4002 | 8002 | 8062 |
| 0003 | 2003 | 4003 | 8003 | 8063 |
| 0008 | 2008 | 4008 | 8008 | 8068 |
| 0009 | 2009 | 4009 | 8009 | 8069 |
| 000A | 200A | 400A | 800A | 806A |
| 000B | 200B | 400B | 800B | 806B |
| 0010 | 2010 | 4010 | 8010 |      |
| 0011 | 2011 | 4011 | 8011 |      |
| 0012 | 2012 | 4012 | 8012 |      |
| 0013 | 2013 | 4013 | 8013 |      |
| 0018 | 2018 | 4018 | 8018 |      |
| 0019 | 2019 | 4019 | 8019 |      |
| 001A | 201A | 401A | 801A |      |
| 001B | 201B | 401B | 801B |      |
| 0020 | 2020 | 4020 | 8020 |      |
| 0021 | 2021 | 4021 | 8021 |      |
| 0022 | 2022 | 4022 | 8022 |      |
| 0023 | 2023 | 4023 | 8023 |      |
| 0028 | 2028 | 4028 | 8028 |      |
| 0029 | 2029 | 4029 | 8029 |      |
| 002A | 202A | 402A | 802A |      |
| 002B | 202B | 402B | 802B |      |
| 0030 | 2030 | 4030 | 8030 |      |
| 0031 | 2031 | 4031 | 8031 |      |
| 0032 | 2032 | 4032 | 8032 |      |
| 0033 | 2033 | 4033 | 8033 |      |
| 0038 | 2038 | 4038 | 8038 |      |
| 0039 | 2039 | 4039 | 8039 |      |
| 003A | 203A | 403A | 803A |      |
| 003B | 203B | 403B | 803B |      |
|      |      |      | 8040 |      |
|      |      |      | 8041 |      |
|      |      |      | 8042 |      |
|      |      |      | 8043 |      |
|      |      |      | 8048 |      |
|      |      |      | 8049 |      |
|      |      |      | 804A |      |
|      |      |      | 804B |      |

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## Hardware Option type for SGDXS

|      |      |
|------|------|
| A000 | C000 |
| A001 | C001 |
| A002 | C002 |
| A003 | C003 |
| A008 | C008 |
| A009 | C009 |
| A00A | C00A |
| A00B | C00B |
| A010 | C010 |
| A011 | C011 |
| A012 | C012 |
| A013 | C013 |
| A018 | C018 |
| A019 | C019 |
| A01A | C01A |
| A01B | C01B |
| A020 | C020 |
| A021 | C021 |
| A022 | C022 |
| A023 | C023 |
| A028 | C028 |
| A029 | C029 |
| A02A | C02A |
| A02B | C02B |
| A030 | C030 |
| A031 | C031 |
| A032 | C032 |
| A033 | C033 |
| A038 | C038 |
| A039 | C039 |
| A03A | C03A |
| A03B | C03B |

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## Hardware Option type for SGDXW

|      |      |
|------|------|
| 0000 | 1000 |
| 0001 | 1001 |
| 0002 | 1002 |
| 0003 | 1003 |
| 0004 | 1004 |
| 0005 | 1005 |
| 0006 | 1006 |
| 0007 | 1007 |
| 0010 | 1010 |
| 0011 | 1011 |
| 0012 | 1012 |
| 0013 | 1013 |
| 0014 | 1014 |
| 0015 | 1015 |
| 0016 | 1016 |
| 0017 | 1017 |
| 0020 | 1020 |
| 0021 | 1021 |
| 0022 | 1022 |
| 0023 | 1023 |
| 0024 | 1024 |
| 0025 | 1025 |
| 0026 | 1026 |
| 0027 | 1027 |
| 0030 | 1030 |
| 0031 | 1031 |
| 0032 | 1032 |
| 0033 | 1033 |
| 0034 | 1034 |
| 0035 | 1035 |
| 0036 | 1036 |
| 0037 | 1037 |

## Hardware Option type for SGDXT

|      |      |      |      |
|------|------|------|------|
| 0000 | 0080 | 1000 | 1080 |
| 0001 | 0081 | 1001 | 1081 |
| 0002 | 0082 | 1002 | 1082 |
| 0003 | 0083 | 1003 | 1083 |
| 0004 | 0085 | 1004 | 1084 |
| 0005 | 0086 | 1005 | 1085 |
| 0006 | 0087 | 1006 | 1086 |
| 0007 |      | 1007 | 1087 |
| 0020 |      | 1020 |      |
| 0021 |      | 1021 |      |
| 0022 |      | 1022 |      |
| 0023 |      | 1023 |      |
| 0024 |      | 1024 |      |
| 0025 |      | 1025 |      |
| 0026 |      | 1026 |      |
| 0027 |      | 1027 |      |

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Y Spec.

|                     |                     |                     |
|---------------------|---------------------|---------------------|
| SGDXS-R70A00AY***** | SGDXW-1R6A40AY***** | SGDXT-1R6A40AY***** |
| SGDXS-R90A00AY***** | SGDXW-2R8A40AY***** | SGDXT-2R8A40AY***** |
| SGDXS-1R6A00AY***** | SGDXW-5R5A40AY***** | SGDXT-1R6AA0AY***** |
| SGDXS-2R8A00AY***** | SGDXW-7R6A40AY***** | SGDXT-2R8AA0AY***** |
| SGDXS-3R8A00AY***** | SGDXW-1R6AA0AY***** |                     |
| SGDXS-5R5A00AY***** | SGDXW-2R8AA0AY***** |                     |
| SGDXS-7R6A00AY***** | SGDXW-5R5AA0AY***** |                     |
| SGDXS-120A00AY***** | SGDXW-7R6AA0AY***** |                     |
| SGDXS-180A00AY***** |                     |                     |
| SGDXS-200A00AY***** |                     |                     |
| SGDXS-330A00AY***** |                     |                     |
| SGDXS-470A00AY***** |                     |                     |
| SGDXS-550A00AY***** |                     |                     |
| SGDXS-590A00AY***** |                     |                     |
| SGDXS-780A00AY***** |                     |                     |
| SGDXS-R70A40AY***** |                     |                     |
| SGDXS-R90A40AY***** |                     |                     |
| SGDXS-1R6A40AY***** |                     |                     |
| SGDXS-2R8A40AY***** |                     |                     |
| SGDXS-3R8A40AY***** |                     |                     |
| SGDXS-5R5A40AY***** |                     |                     |
| SGDXS-7R6A40AY***** |                     |                     |
| SGDXS-120A40AY***** |                     |                     |
| SGDXS-180A40AY***** |                     |                     |
| SGDXS-200A40AY***** |                     |                     |
| SGDXS-330A40AY***** |                     |                     |
| SGDXS-470A40AY***** |                     |                     |
| SGDXS-550A40AY***** |                     |                     |
| SGDXS-590A40AY***** |                     |                     |
| SGDXS-780A40AY***** |                     |                     |
| SGDXS-R70AA0AY***** |                     |                     |
| SGDXS-R90AA0AY***** |                     |                     |
| SGDXS-1R6AA0AY***** |                     |                     |
| SGDXS-2R8AA0AY***** |                     |                     |
| SGDXS-3R8AA0AY***** |                     |                     |
| SGDXS-5R5AA0AY***** |                     |                     |
| SGDXS-7R6AA0AY***** |                     |                     |
| SGDXS-120AA0AY***** |                     |                     |
| SGDXS-180AA0AY***** |                     |                     |
| SGDXS-200AA0AY***** |                     |                     |
| SGDXS-330AA0AY***** |                     |                     |
| SGDXS-470AA0AY***** |                     |                     |
| SGDXS-550AA0AY***** |                     |                     |
| SGDXS-590AA0AY***** |                     |                     |
| SGDXS-780AA0AY***** |                     |                     |



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## Nomenclature

### 1. Standard Spec., Hardware Option Spec., and FT Spec.

|               |            |          |           |          |             |           |          |
|---------------|------------|----------|-----------|----------|-------------|-----------|----------|
| <u>SGDX*-</u> | <u>***</u> | <u>*</u> | <u>**</u> | <u>*</u> | <u>****</u> | <u>**</u> | <u>*</u> |
| <b>A</b>      | <b>B</b>   | <b>C</b> | <b>D</b>  | <b>E</b> | <b>F</b>    | <b>G</b>  | <b>H</b> |

|     |                       |                          |
|-----|-----------------------|--------------------------|
| Ex: | Standard spec.        | SGDX*- **** ** *         |
|     | Hardware Option Spec. | SGDX*- **** ** * ****    |
|     | FT Spec.              | SGDX*- **** ** * **** ** |

A: Model

| Group | Model                                   | Note              |
|-------|---|-------------------|
| SGDXS | Sigma-X series SERVOPACK Sigma-XS model | Control of 1 axis |
| SGDXW | Sigma-X series SERVOPACK Sigma-XW model | Control of 2 axes |
| SGDXT | Sigma-X series SERVOPACK Sigma-XT model | Control of 3 axes |

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B+C: Continuous Output Current Type for SGDXS

| Group | Rated input current |                 |               | Rated output power |              | Note                                      |
|-------|---------------------|-----------------|---------------|--------------------|--------------|---|
|       | Input voltage       | Number of phase | Input current | Output current     | Output power |   |
| R70 A | AC200V              | Three           | 0.4[A]        | 0.66[A]            | 0.05kW       |   |
|       |                     | Single          | 0.8[A]        |                    |              |   |
|       | DC270V              | -               | 0.5[A]        |                    |              |   |
| R90 A | AC200V              | Three           | 0.8[A]        | 0.91[A]            | 0.1kW        |   |
|       |                     | Single          | 1.6[A]        |                    |              |   |
|       | DC270V              | -               | 1.0[A]        |                    |              |   |
| 1R6 A | AC200V              | Three           | 1.3[A]        | 1.6[A]             | 0.2kW        |   |
|       |                     | Single          | 2.4[A]        |                    |              |   |
|       | DC270V              | -               | 1.5[A]        |                    |              |   |
| 2R8 A | AC200V              | Three           | 2.5[A]        | 2.8[A]             | 0.4kW        |   |
|       |                     | Single          | 5.0[A]        |                    |              |   |
|       | DC270V              | -               | 3.0[A]        |                    |              |   |
| 3R8 A | AC200V              | Three           | 3.0[A]        | 3.8[A]             | 0.5kW        |   |
|       | DC270V              | -               | 3.8[A]        |                    |              |   |
|       | AC200V              | Single          | 3.0[A]        |                    | 0.2kW        |   |
| 5R5 A | AC200V              | Three           | 4.1[A]        | 5.5[A]             | 0.75kW       |   |
|       |                     | Single          | 8.7[A]        |                    |              |   |
|       | DC270V              | -               | 4.9[A]        | 4.4[A]             | 0.75kW       | Fan-less Hardware Option 8*** only        |
|       |                     | AC200V          | Three         |                    |              |   |
|       | DC270V              | -               | 4.9[A]        |                    |              |   |
| 7R6 A | AC200V              | Three           | 5.7[A]        | 7.6[A]             | 1.0kW        |   |
|       |                     | Single          | 5.7[A]        |                    |              |   |
|       | DC270V              | -               | 6.9[A]        |                    |              |   |
|       | AC200V              | Single          | 5.7[A]        |                    | 0.4kW        | Hardware Option 8***, A***, C***only      |
| 120 A | AC200V              | Three           | 7.3[A]        | 11.6[A]            | 1.5kW        | Single phase is Hardware option ***8 only |
|       |                     | Single          | 16[A]         |                    |              |   |
|       | DC270V              | -               | 11[A]         |                    | 0.6kW        | Hardware Option 8***, A***, C***only      |
|       | AC200V              | Single          | 7.3[A]        |                    |              |   |
| 180 A | AC200V              | Three           | 10[A]         | 18.5[A]            | 2.0kW        |   |
|       | DC270V              | -               | 14[A]         |                    |              |   |
|       | AC200V              | Single          | 10[A]         |                    | 0.8kW        |   |
| 200 A | AC200V              | Three           | 15[A]         | 19.6[A]            | 3.0kW        |   |
|       | DC270V              | -               | 20[A]         |                    |              |   |
|       | AC200V              | Single          | 15[A]         |                    | 1.2kW        |   |
| 330 A | AC200V              | Three           | 25[A]         | 32.9[A]            | 5kW          |   |
|       | DC270V              | -               | 34[A]         |                    |              |   |
| 470 A | AC200V              | Three           | 29[A]         | 46.9[A]            | 6kW          |   |
|       | DC270V              | -               | 36[A]         |                    |              |   |
| 550 A | AC200V              | Three           | 37[A]         | 54.7[A]            | 7.5kW        |   |
|       | DC270V              | -               | 48[A]         |                    |              |   |
| 590 A | AC200V              | Three           | 54[A]         | 58.6[A]            | 11kW         |   |
|       | DC270V              | -               | 68[A]         |                    |              |   |
| 780 A | AC200V              | Three           | 73[A]         | 78.0[A]            | 15kW         |   |
|       | DC270V              | -               | 92[A]         |                    |              |   |



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B+C: Continuous Output Current Type for SGDXX

| Group | Rated input power |                 |               | Rated output power per 1-axis |              | Note |
|-------|-------------------|-----------------|---------------|-------------------------------|--------------|------|
|       | Input voltage     | Number of phase | Input current | Output current                | Output power |      |
| 1R6 A | AC200V            | Three           | 2.5[A]        | 1.6[A]                        | 0.2kW        |      |
|       |                   | Single          | 5.5[A]        |                               |              |      |
|       | DC270V            | -               | 3.0[A]        |                               |              |      |
| 2R8 A | AC200V            | Three           | 4.7[A]        | 2.8[A]                        | 0.4kW        |      |
|       |                   | Single          | 11[A]         |                               |              |      |
|       | DC270V            | -               | 5.8[A]        |                               |              |      |
| 5R5 A | AC200V            | Three           | 7.8[A]        | 5.5[A]                        | 0.75kW       |      |
|       |                   | Single          | 12[A]         |                               |              |      |
|       | DC270V            | -               | 9.7[A]        |                               |              |      |
| 7R6 A | AC200V            | Three           | 11[A]         | 7.6[A]                        | 1.0kW        |      |
|       | DC270V            | -               | 14[A]         |                               |              |      |

B+C: Continuous Output Current Type for SGDXT

| Group | Rated input power |                 |               | Rated output power per 1-axis |              | Note |
|-------|-------------------|-----------------|---------------|-------------------------------|--------------|------|
|       | Input voltage     | Number of phase | Input current | Output current                | Output power |      |
| 1R6 A | AC200V            | Three           | 3.9[A]        | 1.6[A]                        | 0.2kW        |      |
|       |                   | Single          | 7.2[A]        |                               |              |      |
|       | DC270V            | -               | 4.5[A]        |                               |              |      |
| 2R8 A | AC200V            | Three           | 7.5[A]        | 2.8[A]                        | 0.4kW        |      |
|       |                   | Single          | 12[A]         |                               |              |      |
|       | DC270V            | -               | 9[A]          |                               |              |      |

C: Rated Input/Output Voltage Type

| Group | Rated Voltage Type   |                | Note |
|-------|----------------------|----------------|------|
|       | Input Voltage        | Output Voltage |      |
| A     | 200V3ac,ac<br>270Vdc | 200V3ac        |      |

D: Interface Type

| Group | Interface Type          | Note                                     |
|-------|-------------------------|--|
| 00    | Analog & Pulse I/F      | Sigma-XS model only.                     |
| 40    | MECHATROLINK-4/-III I/F | MECHATROLINK-4 and -III can be switched. |
| A0    | EtherCAT I/F            |  |

E: Design Order

| Group | Design Order | Note |
|-------|--------------|------|
| A     | Standard     |      |

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## F: Hardware Option Type

| Digit        | Bit | Hardware option specification           | Note   |
|--------------|-----|---|--|
| 14           | 0   | Add the HWBB(STO) function              | SGDXW and SGDXT  |
|              | 1   | Extended function specification1        | MECHATROLINK-4 and -III  |
|              | 2   | Extended function specification2        | EtherCAT only  |
|              | 3   | Standard type for the Chinese market    |  |
| 15           | 0   |   |  |
|              | 1   |   |  |
|              | 2   |   |  |
|              | 3   |   |  |
| 16           | 0   | Analog Voltage FB input type            |  |
|              | 1   | External DB resistor type or Without DB |  |
|              | 2   | Supports Digital Operator               | Analog & Pulse I/F with Hardware option "Standard type for the Chinese market type" only |
|              | 3   | DO Output common                        | SGDXT only   |
| 17           | 0   | Rack-mounted or Duct-ventilated type    |  |
|              | 1   | Varnish coating                         |  |
|              | 2   | Measures for vibration                  |  |
|              | 3   | 200Vac(Single phase) input type         | SGDXS-120A only  |
| 0000 (blank) |     | Hardware Option none                    |  |

Note : The type of each digit is shown by a hex digit consisting of each bit.

e.g.)

SGDXW-1R6A40A + HWBB option + External DB resistor type + Rack-mounted + Varnish coating

Hardware option code is "1023". Details are shown below.

Digit 14 : 0001h = 1

Digit 15 : 0000h = 0

Digit 16 : 0010h = 2

Digit 17 : 0011h = 3

Then, the product type is "SGDXW-1R6A40A1023"

## G: Software Option Type

| Group | Difference from Standard |          | Note  |
|-------|--------------------------|----------|---|
|       | Hardware                 | Software |   |
| Blank | Same                     | Same     | Standard or Hardware Option Spec. only.               |
| 00    | Same or Diff.            | Same     | BTO order for Standard spec. and Hardware Option Spec |
| **    | Same or Diff.            | Diff.    | FT Spec.  |

Note.1: 9\* is customized the safety related Software.

## H: Order Type

| Group | Order Type     | Note |
|-------|----------------|------|
| Blank | Standard order |      |
| B     | BTO order      |      |



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B+C: Continuous Output Current Type for SGDXS

| Group | Rated input current |                 |               | Rated output power |              | Note   |
|-------|---------------------|-----------------|---------------|--------------------|--------------|--|
|       | Input voltage       | Number of phase | Input current | Output current     | Output power |  |
| R70 A | AC200V              | Three           | 0.4[A]        | 0.66[A]            | 0.05kW       |  |
|       |                     | Single          | 0.8[A]        |                    |              |  |
|       | DC270V              | -               | 0.5[A]        |                    |              |  |
| R90 A | AC200V              | Three           | 0.8[A]        | 0.91[A]            | 0.1kW        |  |
|       |                     | Single          | 1.6[A]        |                    |              |  |
|       | DC270V              | -               | 1.0[A]        |                    |              |  |
| 1R6 A | AC200V              | Three           | 1.3[A]        | 1.6[A]             | 0.2kW        |  |
|       |                     | Single          | 2.4[A]        |                    |              |  |
|       | DC270V              | -               | 1.5[A]        |                    |              |  |
| 2R8 A | AC200V              | Three           | 2.5[A]        | 2.8[A]             | 0.4kW        |  |
|       |                     | Single          | 5.0[A]        |                    |              |  |
|       | DC270V              | -               | 3.0[A]        |                    |              |  |
| 3R8 A | AC200V              | Three           | 3.0[A]        | 3.8[A]             | 0.5kW        |  |
|       | DC270V              | -               | 3.8[A]        |                    |              |  |
|       | AC200V              | Single          | 3.0[A]        |                    | 0.2kW        |  |
| 5R5 A | AC200V              | Three           | 4.1[A]        | 5.5[A]             | 0.75kW       |  |
|       |                     | Single          | 8.7[A]        |                    |              |  |
|       | DC270V              | -               | 4.9[A]        | 4.4[A]             | 0.75kW       | Fan-less is Based on Hardware Option 8*** only     |
|       |                     | AC200V          | Three         |                    |              |  |
|       | DC270V              | -               | 4.9[A]        |                    |              |  |
| 7R6 A | AC200V              | Three           | 5.7[A]        | 7.6[A]             | 1.0kW        |  |
|       | DC270V              | -               | 6.9[A]        |                    |              |  |
|       | AC200V              | Single          | 5.7[A]        |                    | 0.4kW        |  |
| 120 A | AC200V              | Three           | 7.3[A]        | 11.6[A]            | 1.5kW        | Single phase is Based on Hardware option ***8 only |
|       |                     | Single          | 16[A]         |                    |              |  |
|       | DC270V              | -               | 11[A]         |                    | 0.6kW        | Based on Hardware Option 8***, A***, C***only      |
|       | AC200V              | Single          | 7.3[A]        |                    |              |  |
| 180 A | AC200V              | Three           | 10[A]         | 18.5[A]            | 2.0kW        |  |
|       | DC270V              | -               | 14[A]         |                    |              |  |
|       | AC200V              | Single          | 10[A]         |                    | 0.8kW        |  |
| 200 A | AC200V              | Three           | 15[A]         | 19.6[A]            | 3.0kW        |  |
|       | DC270V              | -               | 20[A]         |                    |              |  |
|       | AC200V              | Single          | 15[A]         |                    | 1.2kW        |  |
| 330 A | AC200V              | Three           | 25[A]         | 32.9[A]            | 5kW          |  |
|       | DC270V              | -               | 34[A]         |                    |              |  |
| 470 A | AC200V              | Three           | 29[A]         | 46.9[A]            | 6kW          |  |
|       | DC270V              | -               | 36[A]         |                    |              |  |
| 550 A | AC200V              | Three           | 37[A]         | 54.7[A]            | 7.5kW        |  |
|       | DC270V              | -               | 48[A]         |                    |              |  |
| 590 A | AC200V              | Three           | 54[A]         | 58.6[A]            | 11kW         |  |
|       | DC270V              | -               | 68[A]         |                    |              |  |
| 780 A | AC200V              | Three           | 73[A]         | 78.0[A]            | 15kW         |  |
|       | DC270V              | -               | 92[A]         |                    |              |  |

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B+C: Continuous Output Current Type for SGDXX

| Group | Rated input power |                 |               | Rated output power per 1-axis |              | Note |
|-------|-------------------|-----------------|---------------|-------------------------------|--------------|------|
|       | Input voltage     | Number of phase | Input current | Output current                | Output power |      |
| 1R6 A | AC200V            | Three           | 2.5[A]        | 1.6[A]                        | 0.2kW        |      |
|       |                   | Single          | 5.5[A]        |                               |              |      |
|       | DC270V            | -               | 3.0[A]        |                               |              |      |
| 2R8 A | AC200V            | Three           | 4.7[A]        | 2.8[A]                        | 0.4kW        |      |
|       |                   | Single          | 11[A]         |                               |              |      |
|       | DC270V            | -               | 5.8[A]        |                               |              |      |
| 5R5 A | AC200V            | Three           | 7.8[A]        | 5.5[A]                        | 0.75kW       |      |
|       |                   | Single          | 12[A]         |                               |              |      |
|       | DC270V            | -               | 9.7[A]        |                               |              |      |
| 7R6 A | AC200V            | Three           | 11[A]         | 7.6[A]                        | 1.0kW        |      |
|       | DC270V            | -               | 14[A]         |                               |              |      |

B+C: Continuous Output Current Type for SGDXT

| Group | Rated input power |                 |               | Rated output power per 1-axis |              | Note |
|-------|-------------------|-----------------|---------------|-------------------------------|--------------|------|
|       | Input voltage     | Number of phase | Input current | Output current                | Output power |      |
| 1R6 A | AC200V            | Three           | 3.9[A]        | 1.6[A]                        | 0.2kW        |      |
|       |                   | Single          | 7.2[A]        |                               |              |      |
|       | DC270V            | -               | 4.5[A]        |                               |              |      |
| 2R8 A | AC200V            | Three           | 7.5[A]        | 2.8[A]                        | 0.4kW        |      |
|       |                   | Single          | 12[A]         |                               |              |      |
|       | DC270V            | -               | 9[A]          |                               |              |      |

C: Rated Input/Output Voltage Type

| Group | Rated Voltage Type   |                | Note |
|-------|----------------------|----------------|------|
|       | Input Voltage        | Output Voltage |      |
| A     | 200V3ac,ac<br>270Vdc | 200V3ac        |      |

D: Interface Type

| Group | Interface Type          | Note                                     |
|-------|-------------------------|--|
| 00    | Analog & Pulse I/F      | Sigma-XS model only.                     |
| 40    | MECHATROLINK-4/-III I/F | MECHATROLINK-4 and -III can be switched. |
| A0    | EtherCAT I/F            |  |

E: Design Order

| Group | Design Order | Note |
|-------|--------------|------|
| A     | Standard     |      |

F: Specification Type

| Group | Specification Type | Note |
|-------|--------------------|------|
| Y     | Y Specification    |      |

F+G: Y Specification Type

| Group  | Difference from Standard |          | Note   |
|--------|--------------------------|----------|--|
|        | Hardware                 | Software |  |
| Y*5*** | Same                     | Diff.    | Customized for non-safety related parameters and software. |
| Y*6*** | Same                     | Diff.    | Customized for non-safety related parameters and software. |
| Y*7*** | Same                     | Diff.    | Customized for non-safety related parameters and software. |
| Y*8*** | Same                     | Diff.    | Customized for non-safety related parameters and software. |
| Y*9*** | Same                     | Diff.    | Customized for non-safety related parameters and software. |

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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.



# EU-Type Examination Certificate

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**Description of Object:** Rated Voltage: 200 VAC (1 phase, 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)