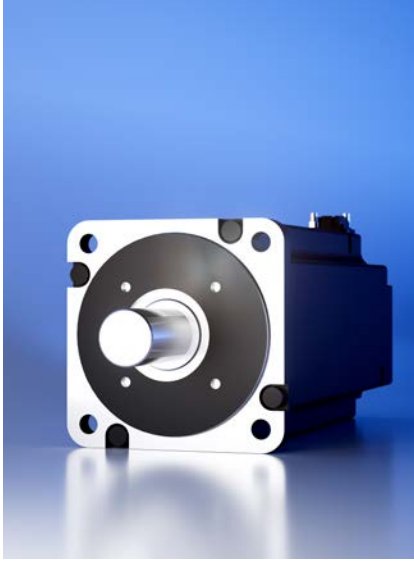


# YASKAWA

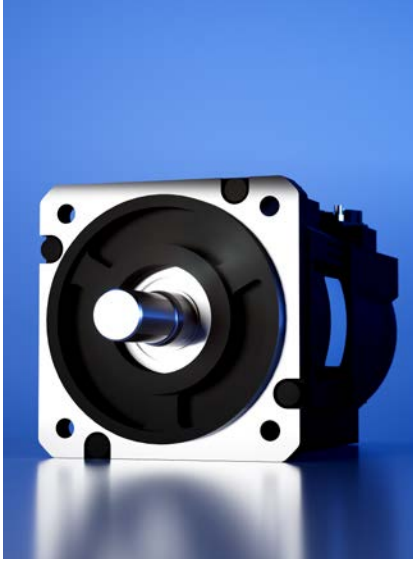


## Sigma-X Sales Catalog



## SGMXA motors

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| Motor & drive combinations | 6  |
| Ratings & specifications   | 20 |
| Dimensions                 | 24 |



## SGMXG motors

|                            |    |
|----------------------------|----|
| Motor & drive combinations | 12 |
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## SGMXJ motors

|                            |    |
|----------------------------|----|
| Motor & drive combinations | 18 |
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## **SGDXS servopacks**

Models and  
accessories  
(200V) **40**

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accessories  
(200V) **44**

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# ENTS

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Encoder cables **56**

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# Rotary servo motors

200 V

Model  
designation

## SGMXG - 09 A W A 6 1 A 1

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

| 1     | Servo motor type           |
|-------|----------------------------|
| SGMXA | Medium inertia, high speed |
| SGMXG | Medium inertia, low speed  |
| SGMXJ | Low inertia, high speed    |

| 2    | Capacity                           |                                    |                                    |
|------|------------------------------------|------------------------------------|------------------------------------|
| Type | SGMXA<br>(3000 min <sup>-1</sup> ) | SGMXG<br>(1500 min <sup>-1</sup> ) | SGMXJ<br>(3000 min <sup>-1</sup> ) |
| A5   | 50 W                               | –                                  | 50 W                               |
| 01   | 100 W                              | –                                  | 100 W                              |
| C2   | 150 W                              | –                                  | 150 W                              |
| 02   | 200 W                              | –                                  | 200 W                              |
| 03   | –                                  | 300 W                              | –                                  |
| 04   | 400 W                              | –                                  | 400 W                              |
| 05   | –                                  | 450 W                              | –                                  |
| 06   | 600 W                              | –                                  | 600 W                              |
| 08   | 750 W                              | –                                  | 750 W                              |
| 09   | –                                  | 850 W                              | –                                  |
| 10   | 1,000 W                            | –                                  | –                                  |
| 13   | –                                  | 1,300 W                            | –                                  |
| 15   | 1,500 W                            | –                                  | –                                  |

| 3 | Power supply voltage |
|---|----------------------|
| A | 200 VAC              |

| 4   | Serial encoder                      |
|-----|-------------------------------------|
| U * | 26-bit absolute encoder             |
| W   | 26-bit batteryless absolute encoder |

| 5 | Design revision order |
|---|-----------------------|
| A | Standard              |

| 6   | Shaft end                 |
|-----|---------------------------|
| 2 * | Straight without key      |
| 6   | Straight with key and tap |

| 7 | Options                     |
|---|-----------------------------|
| 1 | Without options             |
| C | With holding brake (24 VDC) |

| 8 | Destination |
|---|-------------|
| A | Standard    |

| 9 | Ancillary Specification        |
|---|--------------------------------|
| 1 | Standard                       |
| 3 | Encoder with functional safety |

\* On request.

# Rotary servo motors

400 V

Model  
designation

## SGMXG - 09 D H A 6 F A 1

①

②

③

④

⑤

⑥

⑦

⑧

⑨

| 1     | Servo motor type           |
|-------|----------------------------|
| SGMXA | Medium inertia, high speed |
| SGMXG | Medium inertia, low speed  |

| 2    | Capacity                           |                                    |
|------|------------------------------------|------------------------------------|
| Type | SGMXA<br>(3000 min <sup>-1</sup> ) | SGMXG<br>(1500 min <sup>-1</sup> ) |
| 05   | –                                  | 450 W                              |
| 09   | –                                  | 850 W                              |
| 13   | –                                  | 1,300 W                            |
| 15   | 1,500 W                            | –                                  |
| 20   | 2,000 W                            | 1,800 W                            |
| 25   | 2,500 W                            | –                                  |
| 30   | 3,000 W                            | 2,900 W                            |
| 40   | 4,000 W                            | –                                  |
| 44   | –                                  | 4,400 W                            |
| 50   | 5,000 W                            | –                                  |
| 55   | –                                  | 5,500 W                            |
| 75   | –                                  | 7,500 W                            |
| 1A   | –                                  | 11,000 W                           |
| 1E   | –                                  | 15,000 W                           |

| 3 | Power supply voltage |
|---|----------------------|
| D | 400 VAC              |

| 4    | Serial encoder                              |
|------|---------------------------------------------|
| H *1 | 26-bit compact batteryless absolute encoder |
| U *  | 26-bit absolute encoder                     |
| W *2 | 26-bit batteryless absolute encoder         |

| 5 | Design revision order |
|---|-----------------------|
| A | Standard              |

| 6    | Shaft end                          |                                                         |
|------|------------------------------------|---------------------------------------------------------|
| Type | SGMXA<br>(3000 min <sup>-1</sup> ) | SGMXG<br>(1500 min <sup>-1</sup> )                      |
| 2 *  | Straight without key               | Straight without key<br>(models 05 ... 20)              |
| 6    | Straight with key and tap          |                                                         |
| 8 *  | –                                  | Straight without key,<br>with tap<br>(models 30 ... 1E) |

| 7 | Options                                       |
|---|-----------------------------------------------|
| F | With dust seal                                |
| H | With dust seal<br>With holding brake (24 VDC) |

| 8 | Destination |
|---|-------------|
| A | Standard    |

| 9 | Ancillary Specification        |
|---|--------------------------------|
| 1 | Standard                       |
| 3 | Encoder with functional safety |

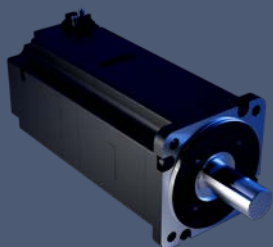
\* On request.

\*1 Only for ancillary specification "Standard"

\*2 Only for ancillary specification "Encoder with functional safety"

# Servo motor and drive combinations

| Rotary servo motor |              |                 | Encoder                      | Shaft                   | Options       | Ancillary |                   |  |
|--------------------|--------------|-----------------|------------------------------|-------------------------|---------------|-----------|-------------------|--|
| Rated torque [Nm]  | Capacity [W] | Model           | Batteryless absolute, 26-bit | Straight with key & tap | Holding brake | Standard  | Functional Safety |  |
| 0.159              | 50           | SGMXA-A5AWA61A1 | x                            | x                       |               | x         |                   |  |
| 0.159              | 50           | SGMXA-A5AWA61A3 | x                            | x                       |               |           | x                 |  |
| 0.159              | 50           | SGMXA-A5AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 0.159              | 50           | SGMXA-A5AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 0.318              | 100          | SGMXA-01AWA61A1 | x                            | x                       |               | x         |                   |  |
| 0.318              | 100          | SGMXA-01AWA61A3 | x                            | x                       |               |           | x                 |  |
| 0.318              | 100          | SGMXA-01AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 0.318              | 100          | SGMXA-01AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 0.477              | 150          | SGMXA-C2AWA61A1 | x                            | x                       |               | x         |                   |  |
| 0.477              | 150          | SGMXA-C2AWA61A3 | x                            | x                       |               |           | x                 |  |
| 0.477              | 150          | SGMXA-C2AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 0.477              | 150          | SGMXA-C2AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 0.637              | 200          | SGMXA-02AWA61A1 | x                            | x                       |               | x         |                   |  |
| 0.637              | 200          | SGMXA-02AWA61A3 | x                            | x                       |               |           | x                 |  |
| 0.637              | 200          | SGMXA-02AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 0.637              | 200          | SGMXA-02AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 1.27               | 400          | SGMXA-04AWA61A1 | x                            | x                       |               | x         |                   |  |
| 1.27               | 400          | SGMXA-04AWA61A3 | x                            | x                       |               |           | x                 |  |
| 1.27               | 400          | SGMXA-04AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 1.27               | 400          | SGMXA-04AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 1.91               | 600          | SGMXA-06AWA61A1 | x                            | x                       |               | x         |                   |  |
| 1.91               | 600          | SGMXA-06AWA61A3 | x                            | x                       |               |           | x                 |  |
| 1.91               | 600          | SGMXA-06AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 1.91               | 600          | SGMXA-06AWA6CA3 | x                            | x                       | x             |           | x                 |  |



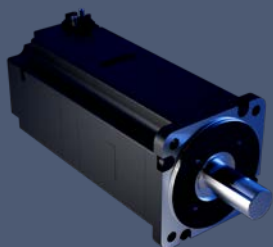
200 V

## SGMXA (3000 min<sup>-1</sup>), 26-bit absolute encoder

|  | Motor cables      |                    |             | Compatible servo drive   |                        |                          |
|--|-------------------|--------------------|-------------|--------------------------|------------------------|--------------------------|
|  | Encoder cable     | Power cable        | Brake cable | Single axis<br>[SGDXS-□] | Dual axis<br>[SGDXW-□] | Triple axis<br>[SGDXT-□] |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | R70A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | R70A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | R70A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | R70A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | R90A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | R90A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | R90A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | R90A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |

# Servo motor and drive combinations

| Rotary servo motor |              |                 | Encoder                      | Shaft                   | Options       | Ancillary |                   |  |
|--------------------|--------------|-----------------|------------------------------|-------------------------|---------------|-----------|-------------------|--|
| Rated torque [Nm]  | Capacity [W] | Model           | Batteryless absolute, 26-bit | Straight with key & tap | Holding brake | Standard  | Functional Safety |  |
| 2.39               | 750          | SGMXA-08AWA61A1 | x                            | x                       |               | x         |                   |  |
| 2.39               | 750          | SGMXA-08AWA61A3 | x                            | x                       |               |           | x                 |  |
| 2.39               | 750          | SGMXA-08AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 2.39               | 750          | SGMXA-08AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 3.18               | 1,000        | SGMXA-10AWA61A1 | x                            | x                       |               | x         |                   |  |
| 3.18               | 1,000        | SGMXA-10AWA61A3 | x                            | x                       |               |           | x                 |  |
| 3.18               | 1,000        | SGMXA-10AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 3.18               | 1,000        | SGMXA-10AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 4.90               | 1,500        | SGMXA-15AWA61A1 | x                            | x                       |               | x         |                   |  |
| 4.90               | 1,500        | SGMXA-15AWA61A3 | x                            | x                       |               |           | x                 |  |
| 4.90               | 1,500        | SGMXA-15AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 4.90               | 1,500        | SGMXA-15AWA6CA3 | x                            | x                       | x             |           | x                 |  |



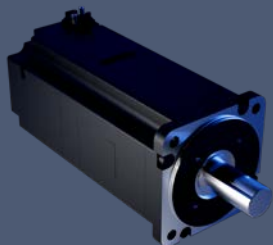
200 V

SGMXA (3000 min<sup>-1</sup>),  
26-bit absolute encoder

|  | Motor cables      |                    |                  | Compatible servo drive   |                        |                          |
|--|-------------------|--------------------|------------------|--------------------------|------------------------|--------------------------|
|  | Encoder cable     | Power cable        | Brake cable      | Single axis<br>[SGDXS-□] | Dual axis<br>[SGDXW-□] | Triple axis<br>[SGDXT-□] |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08NF1-□□-M7 | -                | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08NF1-□□-M7 | -                | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08BF1-□□-M7 | -                | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08BF1-□□-M7 | -                | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08NF1-□□-M7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08NF1-□□-M7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08BF1-□□-M7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08BF1-□□-M7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | JWSP-XB0FL-□□-G7 | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | JWSP-XB0FL-□□-G7 | 120A                     | -                      | -                        |

# Servo motor and drive combinations

| Rotary servo motor |              |                 | Encoder                       |                                       | Shaft                   | Options   |               | Ancillary |                   |  |
|--------------------|--------------|-----------------|-------------------------------|---------------------------------------|-------------------------|-----------|---------------|-----------|-------------------|--|
| Rated torque [Nm]  | Capacity [W] | Model           | Battery-less absolute, 26-bit | Compact battery-less absolute, 26-bit | Straight with key & tap | Dust seal | Holding brake | Standard  | Functional Safety |  |
| 4.9                | 1,500        | SGMXA-15DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 4.9                | 1,500        | SGMXA-15DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 4.9                | 1,500        | SGMXA-15DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 4.9                | 1,500        | SGMXA-15DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 6.36               | 2,000        | SGMXA-20DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 6.36               | 2,000        | SGMXA-20DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 6.36               | 2,000        | SGMXA-20DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 6.36               | 2,000        | SGMXA-20DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 7.96               | 2,500        | SGMXA-25DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 7.96               | 2,500        | SGMXA-25DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 7.96               | 2,500        | SGMXA-25DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 7.96               | 2,500        | SGMXA-25DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 9.8                | 3,000        | SGMXA-30DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 9.8                | 3,000        | SGMXA-30DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 9.8                | 3,000        | SGMXA-30DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 9.8                | 3,000        | SGMXA-30DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 12.6               | 4,000        | SGMXA-40DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 12.6               | 4,000        | SGMXA-40DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 12.6               | 4,000        | SGMXA-40DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 12.6               | 4,000        | SGMXA-40DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 15.8               | 5,000        | SGMXA-50DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 15.8               | 5,000        | SGMXA-50DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 15.8               | 5,000        | SGMXA-50DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 15.8               | 5,000        | SGMXA-50DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |



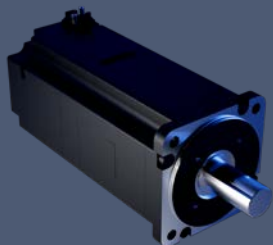
400 V

SGMXA (3000 min<sup>-1</sup>),  
26-bit absolute encoder

|  | Motor cables      |                    |                  | Compatible servo drive   |                        |                          |
|--|-------------------|--------------------|------------------|--------------------------|------------------------|--------------------------|
|  | Encoder cable     | Power cable        | Brake cable      | Single axis<br>[SGDXS-□] | Dual axis<br>[SGDXW-□] | Triple axis<br>[SGDXT-□] |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 5R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 5R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 5R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 5R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 8R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 8R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 8R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 8R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 170D                     | -                      | -                        |

# Servo motor and drive combinations

| Rotary servo motor |              |                 | Encoder                      | Shaft                   | Options       | Ancillary |                   |  |
|--------------------|--------------|-----------------|------------------------------|-------------------------|---------------|-----------|-------------------|--|
| Rated torque [Nm]  | Capacity [W] | Model           | Batteryless absolute, 26-bit | Straight with key & tap | Holding brake | Standard  | Functional Safety |  |
| 1.96               | 300          | SGMXG-03AWA61A1 | x                            | x                       |               | x         |                   |  |
| 1.96               | 300          | SGMXG-03AWA61A3 | x                            | x                       |               |           | x                 |  |
| 1.96               | 300          | SGMXG-03AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 1.96               | 300          | SGMXG-03AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 2.86               | 450          | SGMXG-05AWA61A1 | x                            | x                       |               | x         |                   |  |
| 2.86               | 450          | SGMXG-05AWA61A3 | x                            | x                       |               |           | x                 |  |
| 2.86               | 450          | SGMXG-05AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 2.86               | 450          | SGMXG-05AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 5.39               | 850          | SGMXG-09AWA61A1 | x                            | x                       |               | x         |                   |  |
| 5.39               | 850          | SGMXG-09AWA61A3 | x                            | x                       |               |           | x                 |  |
| 5.39               | 850          | SGMXG-09AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 5.39               | 850          | SGMXG-09AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 8.34               | 1,300        | SGMXG-13AWA61A1 | x                            | x                       |               | x         |                   |  |
| 8.34               | 1,300        | SGMXG-13AWA61A3 | x                            | x                       |               |           | x                 |  |
| 8.34               | 1,300        | SGMXG-13AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 8.34               | 1,300        | SGMXG-13AWA6CA3 | x                            | x                       | x             |           | x                 |  |



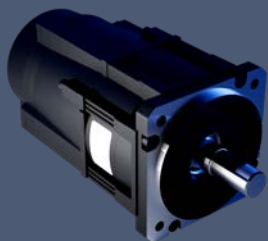
200 V

## SGMXG (1500 min<sup>-1</sup>), 26-bit absolute encoder

|  | Motor cables      |                    |                  | Compatible servo drive   |                        |                          |
|--|-------------------|--------------------|------------------|--------------------------|------------------------|--------------------------|
|  | Encoder cable     | Power cable        | Brake cable      | Single axis<br>[SGDXS-□] | Dual axis<br>[SGDXW-□] | Triple axis<br>[SGDXT-□] |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM21-□□-E-G7 | -                | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM21-□□-E-G7 | -                | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM41-□□-E-G7 | -                | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM41-□□-E-G7 | -                | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM21-□□-E-G7 | -                | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM21-□□-E-G7 | -                | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM41-□□-E-G7 | -                | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM41-□□-E-G7 | -                | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | JWSP-XB0FL-□□-G7 | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | JWSP-XB0FL-□□-G7 | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | -                | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | JWSP-XB0FL-□□-G7 | 120A                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-G7 | JWSP-XB0FL-□□-G7 | 120A                     | -                      | -                        |

# Servo motor and drive combinations

| Rotary servo motor |              |                 | Encoder                       |                                       | Shaft                   | Options   |               | Ancillary |                   |  |
|--------------------|--------------|-----------------|-------------------------------|---------------------------------------|-------------------------|-----------|---------------|-----------|-------------------|--|
| Rated torque [Nm]  | Capacity [W] | Model           | Battery-less absolute, 26-bit | Compact battery-less absolute, 26-bit | Straight with key & tap | Dust seal | Holding brake | Standard  | Functional Safety |  |
| 2.86               | 450          | SGMXG-05DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 2.86               | 450          | SGMXG-05DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 2.86               | 450          | SGMXG-05DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 2.86               | 450          | SGMXG-05DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 5.39               | 850          | SGMXG-09DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 5.39               | 850          | SGMXG-09DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 5.39               | 850          | SGMXG-09DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 5.39               | 850          | SGMXG-09DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 8.34               | 1,300        | SGMXG-13DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 8.34               | 1,300        | SGMXG-13DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 8.34               | 1,300        | SGMXG-13DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 8.34               | 1,300        | SGMXG-13DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 11.5               | 1,800        | SGMXG-20DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 11.5               | 1,800        | SGMXG-20DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 11.5               | 1,800        | SGMXG-20DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 11.5               | 1,800        | SGMXG-20DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 18.6               | 2,900        | SGMXG-30DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 18.6               | 2,900        | SGMXG-30DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 18.6               | 2,900        | SGMXG-30DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 18.6               | 2,900        | SGMXG-30DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 28.4               | 4,400        | SGMXG-44DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 28.4               | 4,400        | SGMXG-44DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 28.4               | 4,400        | SGMXG-44DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 28.4               | 4,400        | SGMXG-44DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 35.0               | 5,500        | SGMXG-55DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 35.0               | 5,500        | SGMXG-55DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 35.0               | 5,500        | SGMXG-55DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 35.0               | 5,500        | SGMXG-55DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |



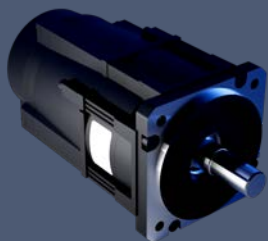
400 V

SGMXG (1500 min<sup>-1</sup>),  
26-bit absolute encoder

|  | Motor cables      |                    |                  | Compatible servo drive   |                        |                          |
|--|-------------------|--------------------|------------------|--------------------------|------------------------|--------------------------|
|  | Encoder cable     | Power cable        | Brake cable      | Single axis<br>[SGDXS-□] | Dual axis<br>[SGDXW-□] | Triple axis<br>[SGDXT-□] |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM21-□□-E-G7 | -                | 1R9D                     | -                      | -                        |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM41-□□-E-G7 | -                | 1R9D                     | -                      | -                        |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM21-□□-E-G7 | -                | 1R9D                     | -                      | -                        |
|  | JWSP-XP2IF1-□□-G7 | JZSP-CVM41-□□-E-G7 | -                | 1R9D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-D7 | -                | 3R5D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 3R5D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-D7 | -                | 3R5D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM15NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 3R5D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 5R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 5R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 5R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 5R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 8R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 8R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | -                | 8R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM20NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 8R4D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 120D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | -                | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM30NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 170D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM55NFL-□□-D7 | -                | 210D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM55NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 210D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM55NFL-□□-D7 | -                | 210D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM55NFL-□□-D7 | JWSP-XB0FL-□□-G7 | 210D                     | -                      | -                        |

# Servo motor and drive combinations

| Rotary servo motor |              |                 | Encoder                       |                                       | Shaft                   | Options   |               | Ancillary |                   |  |
|--------------------|--------------|-----------------|-------------------------------|---------------------------------------|-------------------------|-----------|---------------|-----------|-------------------|--|
| Rated torque [Nm]  | Capacity [W] | Model           | Battery-less absolute, 26-bit | Compact battery-less absolute, 26-bit | Straight with key & tap | Dust seal | Holding brake | Standard  | Functional Safety |  |
| 48.0               | 7,500        | SGMXG-75DHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 48.0               | 7,500        | SGMXG-75DHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 48.0               | 7,500        | SGMXG-75DWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 48.0               | 7,500        | SGMXG-75DWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 70.0               | 11,000       | SGMXG-1ADHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 70.0               | 11,000       | SGMXG-1ADHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 70.0               | 11,000       | SGMXG-1ADWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 70.0               | 11,000       | SGMXG-1ADWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |
| 95.4               | 15,000       | SGMXG-1EDHA6FA1 |                               | x                                     | x                       | x         |               | x         |                   |  |
| 95.4               | 15,000       | SGMXG-1EDHA6HA1 |                               | x                                     | x                       | x         | x             | x         |                   |  |
| 95.4               | 15,000       | SGMXG-1EDWA6FA3 | x                             |                                       | x                       | x         |               |           | x                 |  |
| 95.4               | 15,000       | SGMXG-1EDWA6HA3 | x                             |                                       | x                       | x         | x             |           | x                 |  |



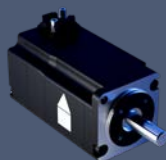
400 V

SGMXG (1500 min<sup>-1</sup>),  
26-bit absolute encoder

|  | Motor cables      |                    |                  | Compatible servo drive   |                        |                          |
|--|-------------------|--------------------|------------------|--------------------------|------------------------|--------------------------|
|  | Encoder cable     | Power cable        | Brake cable      | Single axis<br>[SGDXS-□] | Dual axis<br>[SGDXW-□] | Triple axis<br>[SGDXT-□] |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM5BNFL-□□-D7 | -                | 260D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM5BNFL-□□-D7 | JWSP-XB0FL-□□-G7 | 260D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM5BNFL-□□-D7 | -                | 260D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM5BNFL-□□-D7 | JWSP-XB0FL-□□-G7 | 260D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM1ANFL-□□-D7 | -                | 280D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM1ANFL-□□-D7 | JWSP-XB0FL-□□-G7 | 280D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM1ANFL-□□-D7 | -                | 280D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM1ANFL-□□-D7 | JWSP-XB0FL-□□-G7 | 280D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM1ANFL-□□-D7 | -                | 370D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM1ANFL-□□-D7 | JWSP-XB0FL-□□-G7 | 370D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM1ANFL-□□-D7 | -                | 370D                     | -                      | -                        |
|  | JWSP-XP2IF2-□□-G7 | JWSP-XM1ANFL-□□-D7 | JWSP-XB0FL-□□-G7 | 370D                     | -                      | -                        |

# Servo motor and drive combinations

| Rotary servo motor |              |                 | Encoder                      | Shaft                   | Options       | Ancillary |                   |  |
|--------------------|--------------|-----------------|------------------------------|-------------------------|---------------|-----------|-------------------|--|
| Rated torque [Nm]  | Capacity [W] | Model           | Batteryless absolute, 26-bit | Straight with key & tap | Holding brake | Standard  | Functional Safety |  |
| 0.159              | 50           | SGMXJ-A5AWA61A1 | x                            | x                       |               | x         |                   |  |
| 0.159              | 50           | SGMXJ-A5AWA61A3 | x                            | x                       |               |           | x                 |  |
| 0.159              | 50           | SGMXJ-A5AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 0.159              | 50           | SGMXJ-A5AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 0.318              | 100          | SGMXJ-01AWA61A1 | x                            | x                       |               | x         |                   |  |
| 0.318              | 100          | SGMXJ-01AWA61A3 | x                            | x                       |               |           | x                 |  |
| 0.318              | 100          | SGMXJ-01AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 0.318              | 100          | SGMXJ-01AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 0.477              | 150          | SGMXJ-C2AWA61A1 | x                            | x                       |               | x         |                   |  |
| 0.477              | 150          | SGMXJ-C2AWA61A3 | x                            | x                       |               |           | x                 |  |
| 0.477              | 150          | SGMXJ-C2AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 0.477              | 150          | SGMXJ-C2AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 0.637              | 200          | SGMXJ-02AWA61A1 | x                            | x                       |               | x         |                   |  |
| 0.637              | 200          | SGMXJ-02AWA61A3 | x                            | x                       |               |           | x                 |  |
| 0.637              | 200          | SGMXJ-02AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 0.637              | 200          | SGMXJ-02AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 1.27               | 400          | SGMXJ-04AWA61A1 | x                            | x                       |               | x         |                   |  |
| 1.27               | 400          | SGMXJ-04AWA61A3 | x                            | x                       |               |           | x                 |  |
| 1.27               | 400          | SGMXJ-04AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 1.27               | 400          | SGMXJ-04AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 1.91               | 600          | SGMXJ-06AWA61A1 | x                            | x                       |               | x         |                   |  |
| 1.91               | 600          | SGMXJ-06AWA61A3 | x                            | x                       |               |           | x                 |  |
| 1.91               | 600          | SGMXJ-06AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 1.91               | 600          | SGMXJ-06AWA6CA3 | x                            | x                       | x             |           | x                 |  |
| 2.39               | 750          | SGMXJ-08AWA61A1 | x                            | x                       |               | x         |                   |  |
| 2.39               | 750          | SGMXJ-08AWA61A3 | x                            | x                       |               |           | x                 |  |
| 2.39               | 750          | SGMXJ-08AWA6CA1 | x                            | x                       | x             | x         |                   |  |
| 2.39               | 750          | SGMXJ-08AWA6CA3 | x                            | x                       | x             |           | x                 |  |



## SGMXJ (3000 min<sup>-1</sup>), 26-bit absolute encoder

|  | Motor cables      |                    |             | Compatible servo drive   |                        |                          |
|--|-------------------|--------------------|-------------|--------------------------|------------------------|--------------------------|
|  | Encoder cable     | Power cable        | Brake cable | Single axis<br>[SGDXS-□] | Dual axis<br>[SGDXW-□] | Triple axis<br>[SGDXT-□] |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | R70A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | R70A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | R70A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | R70A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | R90A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | R90A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | R90A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | R90A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 1R6A                     | 1R6A                   | 1R6A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 2R8A                     | 2R8A                   | 2R8A                     |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5NF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XMA5BF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08NF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08NF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08BF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |
|  | JWSP-XP2IF1-□□-G7 | JWSP-XM08BF1-□□-M7 | -           | 5R5A                     | 5R5A                   | -                        |

# Ratings and specifications

200 V

SGMXA (3000 min<sup>-1</sup>)

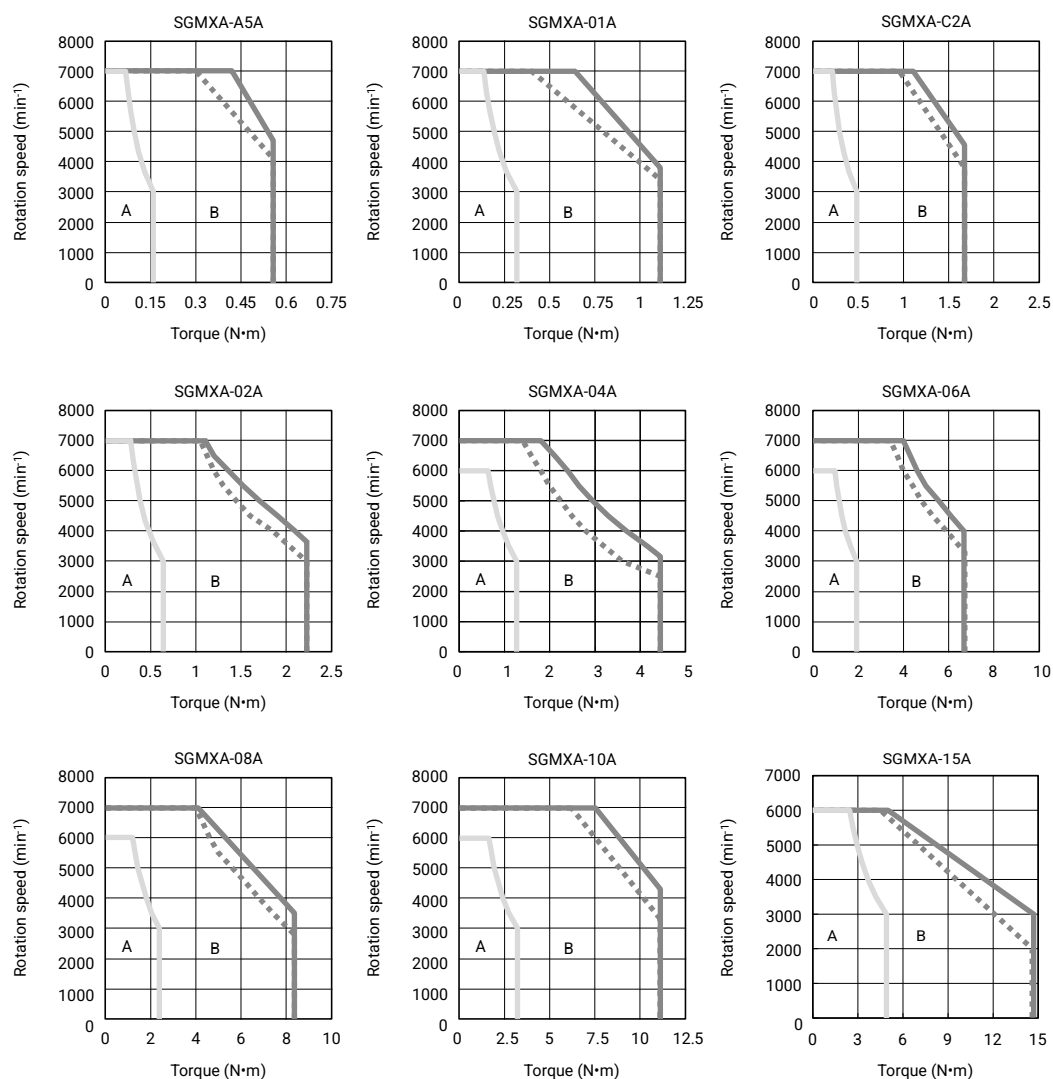
| Servo motor SGMXA-□                         |                                                                               |                                      | A5A                                                                      | 01A    | C2A    | 02A   | 04A   | 06A   | 08A   | 10A   | 15A   |
|---------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|
| Rated output                                |                                                                               | W                                    | 50                                                                       | 100    | 150    | 200   | 400   | 600   | 750   | 1000  | 1500  |
| Rated torque                                |                                                                               | Nm                                   | 0.159                                                                    | 0.318  | 0.477  | 0.637 | 1.27  | 1.91  | 2.39  | 3.18  | 4.90  |
| Instantaneous peak torque                   |                                                                               | Nm                                   | 0.557                                                                    | 1.11   | 1.67   | 2.23  | 4.46  | 6.69  | 8.36  | 11.1  | 14.7  |
| Rated current                               |                                                                               | A <sub>rms</sub>                     | 0.57                                                                     | 0.89   | 1.5    | 1.5   | 2.4   | 4.5   | 4.4   | 6.4   | 9.3   |
| Instantaneous max. current                  |                                                                               | A <sub>rms</sub>                     | 2.1                                                                      | 3.2    | 5.6    | 5.9   | 9.3   | 16.9  | 16.8  | 23.2  | 28    |
| Rated speed                                 |                                                                               | min <sup>-1</sup>                    | 3,000                                                                    |        |        |       |       |       |       |       |       |
| Continuous allowable rotation speed         |                                                                               | min <sup>-1</sup>                    | 7,000                                                                    |        |        |       | 6,000 |       |       |       |       |
| Max. speed                                  |                                                                               | min <sup>-1</sup>                    | 7,000                                                                    |        |        |       |       |       |       |       |       |
| Torque constant                             |                                                                               | Nm/A <sub>rms</sub>                  | 0.304                                                                    | 0.384  | 0.332  | 0.458 | 0.576 | 0.456 | 0.584 | 0.541 | 0.590 |
| Rotor<br>moment of<br>inertia (JM)          | Without holding brakes                                                        | kg×m <sup>2</sup> × 10 <sup>-4</sup> | 0.0220                                                                   | 0.0340 | 0.0461 | 0.139 | 0.216 | 0.315 | 0.773 | 0.969 | 2.00  |
|                                             | With holding brakes                                                           |                                      | 0.0300                                                                   | 0.0420 | 0.0541 | 0.199 | 0.276 | 0.375 | 0.943 | 1.14  | 2.25  |
|                                             | Without holding brake and with<br>batteryless absolute encoder                |                                      | 0.0257                                                                   | 0.0377 | 0.0498 | 0.143 | 0.220 | 0.319 | 0.777 | 0.973 | -     |
|                                             | With holding brake and<br>batteryless encoder                                 |                                      | 0.0337                                                                   | 0.0457 | 0.0578 | 0.203 | 0.280 | 0.379 | 0.947 | 1.14  | -     |
| Allowable<br>load moment<br>of inertia (JL) | Without external devices                                                      | At 6000 min <sup>-1</sup>            | 40×                                                                      | 40×    | 40×    | 30×   | 20×   | 20×   | 20×   | 20×   | 10×   |
|                                             |                                                                               | At 7000 min <sup>-1</sup>            |                                                                          |        |        | 25×   | 15×   | 20×   | 15×   | 20×   | -     |
|                                             | With external regenerative<br>resistor and external dynamic<br>brake resistor | At 6000 min <sup>-1</sup>            | 40×                                                                      | 40×    | 40×    | 30×   | 20×   | 20×   | 20×   | 30×   | 20×   |
|                                             |                                                                               | At 7000 min <sup>-1</sup>            |                                                                          |        |        |       |       |       |       |       | -     |
| Rated power<br>rate                         | Without holding brakes                                                        | kW/s                                 | 11.5                                                                     | 29.7   | 49.4   | 29.1  | 74.7  | 116   | 73.7  | 104   | 120   |
|                                             | With holding brakes                                                           |                                      | 8.42                                                                     | 24.1   | 42.1   | 20.4  | 58.5  | 97.3  | 60.4  | 88.8  | 107   |
| Rated<br>angular<br>acceleration            | Without holding brakes                                                        | rad/s <sup>2</sup>                   | 72200                                                                    | 93500  | 103500 | 45700 | 58800 | 60600 | 30800 | 32800 | 24500 |
|                                             | With holding brakes                                                           |                                      | 53000                                                                    | 75700  | 88200  | 31900 | 46000 | 50900 | 25300 | 27900 | 21700 |
| Derating rate for servo motor with oil seal |                                                                               | %                                    | 80                                                                       | 90     |        |       | 95    |       |       | 95    | -     |
| Time rating                                 |                                                                               |                                      | Continuous                                                               |        |        |       |       |       |       |       |       |
| Insulation resistance                       |                                                                               |                                      | 500 VDC, 10 MΩ min.                                                      |        |        |       |       |       |       |       |       |
| Ambient temperature                         |                                                                               |                                      | 0°C to 40°C<br>(With derating, usage is possible between 40°C and 60°C.) |        |        |       |       |       |       |       |       |
| Ambient humidity                            |                                                                               |                                      | 20% to 80% relative humidity (with no condensation)                      |        |        |       |       |       |       |       |       |
| Vibration class                             |                                                                               |                                      | V15                                                                      |        |        |       |       |       |       |       |       |
| Enclosure                                   |                                                                               |                                      | Totally enclosed, self-cooled, IP67                                      |        |        |       |       |       |       |       |       |
| Vibration resistance                        |                                                                               |                                      | 49 m/s <sup>2</sup>                                                      |        |        |       |       |       |       |       |       |

# Torque-rotation speed characteristics

200 V

SGMXA (3000 min<sup>-1</sup>)

**A** : Continuous duty zone      — (solid lines): Three-phase, 200 V  
**B** : Intermittent duty zone      ..... (dotted lines): Single-phase, 200 V



# Ratings and specifications

400 V

SGMXA (3000 min<sup>-1</sup>)

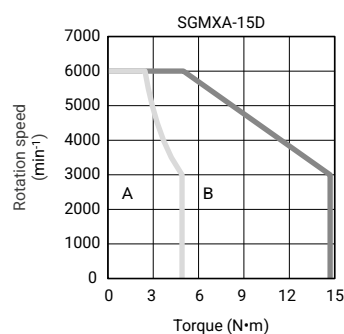
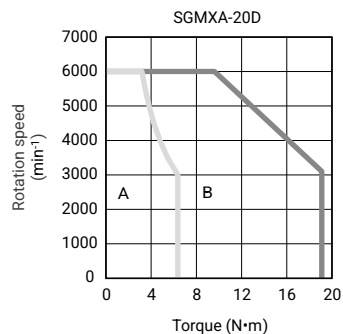
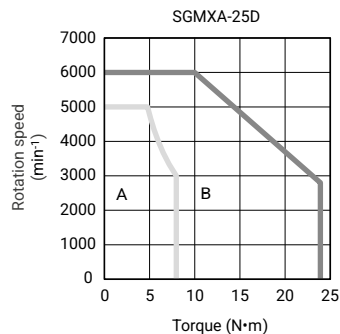
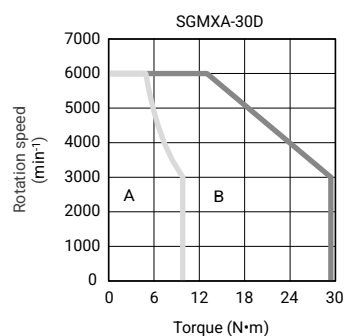
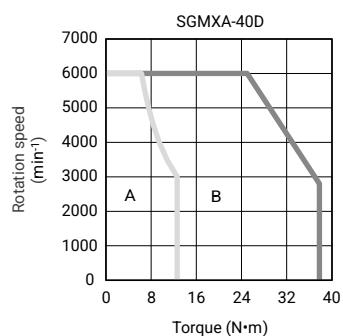
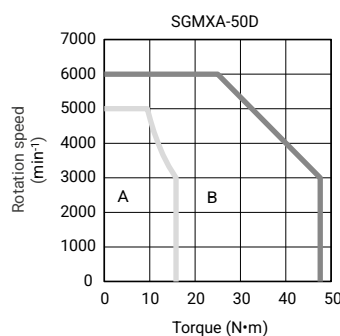
| Servo motor SGMXA-□                   |                                                                         |                                      | 15D                                                                      | 20D   | 25D   | 30D   | 40D   | 50D   |
|---------------------------------------|-------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------|-------|-------|-------|-------|-------|
| Rated output                          |                                                                         | W                                    | 1,500                                                                    | 2,000 | 2,500 | 3,000 | 4,000 | 5,000 |
| Rated torque                          |                                                                         | Nm                                   | 4.90                                                                     | 6.36  | 7.96  | 9.80  | 12.6  | 15.8  |
| Instantaneous peak torque             |                                                                         | Nm                                   | 14.7                                                                     | 19.1  | 23.9  | 29.4  | 37.8  | 47.6  |
| Rated current                         |                                                                         | A <sub>rms</sub>                     | 4.5                                                                      | 5.9   | 7.4   | 8.9   | 12.5  | 13.8  |
| Instantaneous max. current            |                                                                         | A <sub>rms</sub>                     | 14                                                                       | 20    | 25    | 28    | 39    | 42    |
| Rated speed                           |                                                                         | min <sup>-1</sup>                    | 3,000                                                                    |       |       |       |       |       |
| Continuous allowable rotation speed   |                                                                         | min <sup>-1</sup>                    | 6,000                                                                    |       | 5,000 | 6,000 |       | 5,000 |
| Max. speed                            |                                                                         | min <sup>-1</sup>                    | 6,000                                                                    |       |       |       |       |       |
| Torque constant                       |                                                                         | Nm/A <sub>rms</sub>                  | 1.23                                                                     | 1.18  | 1.15  | 1.16  | 1.06  | 1.21  |
| Rotor moment of inertia (JM)          | Without holding brakes                                                  | kg×m <sup>2</sup> × 10 <sup>-4</sup> | 2.00                                                                     | 2.47  | 3.19  | 7.00  | 9.60  | 12.3  |
|                                       | With holding brakes                                                     |                                      | 2.25                                                                     | 2.72  | 3.44  | 9.20  | 11.8  | 14.5  |
| Allowable load moment of inertia (JL) | Without external devices                                                |                                      | 10×                                                                      |       |       | 5×    |       |       |
|                                       | With external regenerative resistor and external dynamic brake resistor |                                      | 20×                                                                      |       |       | 15×   |       |       |
| Rated power rate                      | Without holding brakes                                                  | kW/s                                 | 120                                                                      | 164   | 199   | 137   | 165   | 203   |
|                                       | With holding brakes                                                     |                                      | 107                                                                      | 149   | 184   | 104   | 135   | 172   |
| Rated angular acceleration            | Without holding brakes                                                  | rad/s <sup>2</sup>                   | 24500                                                                    | 25700 | 24900 | 14000 | 13100 | 12800 |
|                                       | With holding brakes                                                     |                                      | 21700                                                                    | 23300 | 23100 | 10600 | 10600 | 10800 |
| Time rating                           |                                                                         |                                      | Continuous                                                               |       |       |       |       |       |
| Insulation resistance                 |                                                                         |                                      | 500 VDC, 10 MΩ min.                                                      |       |       |       |       |       |
| Ambient temperature                   |                                                                         |                                      | 0°C to 40°C<br>(With derating, usage is possible between 40°C and 60°C.) |       |       |       |       |       |
| Ambient humidity                      |                                                                         |                                      | 20% to 80% relative humidity (with no condensation)                      |       |       |       |       |       |
| Vibration class                       |                                                                         |                                      | V15                                                                      |       |       |       |       |       |
| Enclosure                             |                                                                         |                                      | Totally enclosed, self-cooled, IP67                                      |       |       |       |       |       |
| Vibration resistance                  |                                                                         |                                      | 49 m/s <sup>2</sup>                                                      |       |       |       |       |       |

# Torque-rotation speed characteristics

400 V

SGMXA (3000 min<sup>-1</sup>)

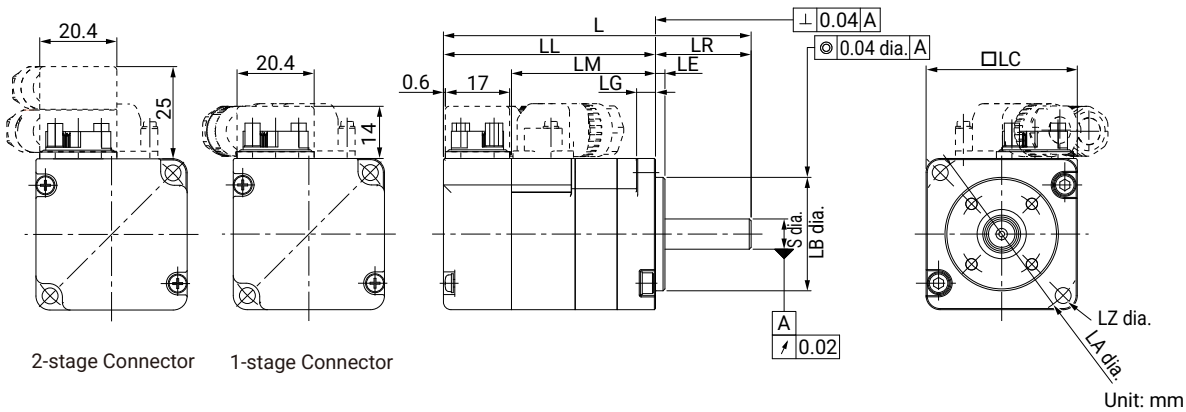
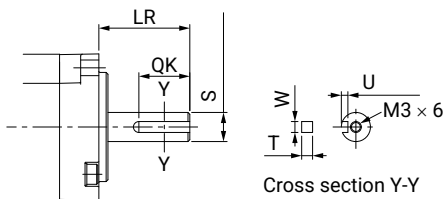
**A** : Continuous duty zone      — (solid lines): Three-phase, 400 V  
**B** : Intermittent duty zone



# Dimensions

SGMXA (3000 min<sup>-1</sup>)

| Dimensions [mm] | Without brake   |                  | With brake      |                  | LR | Flange surface |    |     |     |    |     | Shaft end |    |   |   |     | Mass [kg]                   |                          |
|-----------------|-----------------|------------------|-----------------|------------------|----|----------------|----|-----|-----|----|-----|-----------|----|---|---|-----|-----------------------------|--------------------------|
| Servo motor     | L* <sup>1</sup> | LL* <sup>1</sup> | L* <sup>1</sup> | LL* <sup>1</sup> |    | LA             | LB | LC  | LE  | LG | LZ  | S         | QK | W | T | U   | Without brake* <sup>2</sup> | With brake* <sup>2</sup> |
| SGMXA-A5A□A□1A1 | 80.5            | 55.5             | 121             | 96               | 25 | 46             | 30 | 40  | 2.5 | 5  | 4.3 | 8         | 14 | 3 | 3 | 1.8 | 0.3                         | 0.6                      |
| SGMXA-01A□A□1A1 | 92.5            | 67.5             | 133             | 108              | 25 | 46             | 30 | 40  | 2.5 | 5  | 4.3 | 8         | 14 | 3 | 3 | 1.8 | 0.4                         | 0.7                      |
| SGMXA-C2A□A□1A1 | 104.5           | 79.5             | 153             | 128              | 25 | 46             | 30 | 40  | 2.5 | 5  | 4.3 | 8         | 14 | 3 | 3 | 1.8 | 0.5                         | 0.8                      |
| SGMXA-02A□A□1A1 | 98.5            | 68.5             | 139             | 109              | 30 | 70             | 50 | 60  | 3   | 6  | 5.5 | 14        | 14 | 5 | 5 | 3   | 0.8                         | 1.4                      |
| SGMXA-04A□A□1A1 | 115             | 85               | 155.5           | 125.5            | 30 | 70             | 50 | 60  | 3   | 6  | 5.5 | 14        | 14 | 5 | 5 | 3   | 1.2                         | 1.8                      |
| SGMXA-06A□A□1A1 | 137             | 107              | 191             | 161              | 30 | 70             | 50 | 60  | 3   | 6  | 5.5 | 14        | 14 | 5 | 5 | 3   | 1.6                         | 2.2                      |
| SGMXA-08A□A□1A1 | 136             | 96               | 183             | 143              | 40 | 90             | 70 | 80  | 3   | 8  | 7   | 19        | 22 | 6 | 6 | 3.5 | 2.3                         | 2.9                      |
| SGMXA-10A□A□1A1 | 161             | 121              | 208             | 168              | 40 | 90             | 70 | 80  | 3   | 8  | 7   | 19        | 22 | 6 | 6 | 3.5 | 3.1                         | 3.7                      |
| SGMXA-15A□A□1A1 | 200             | 155              | 241             | 196              | 45 | 115            | 95 | 100 | 3   | 10 | 7   | 24        | 32 | 8 | 7 | 4   | 4.6                         | 6.0                      |



Shapes of the actual products may differ.  
Number of holes may differ.

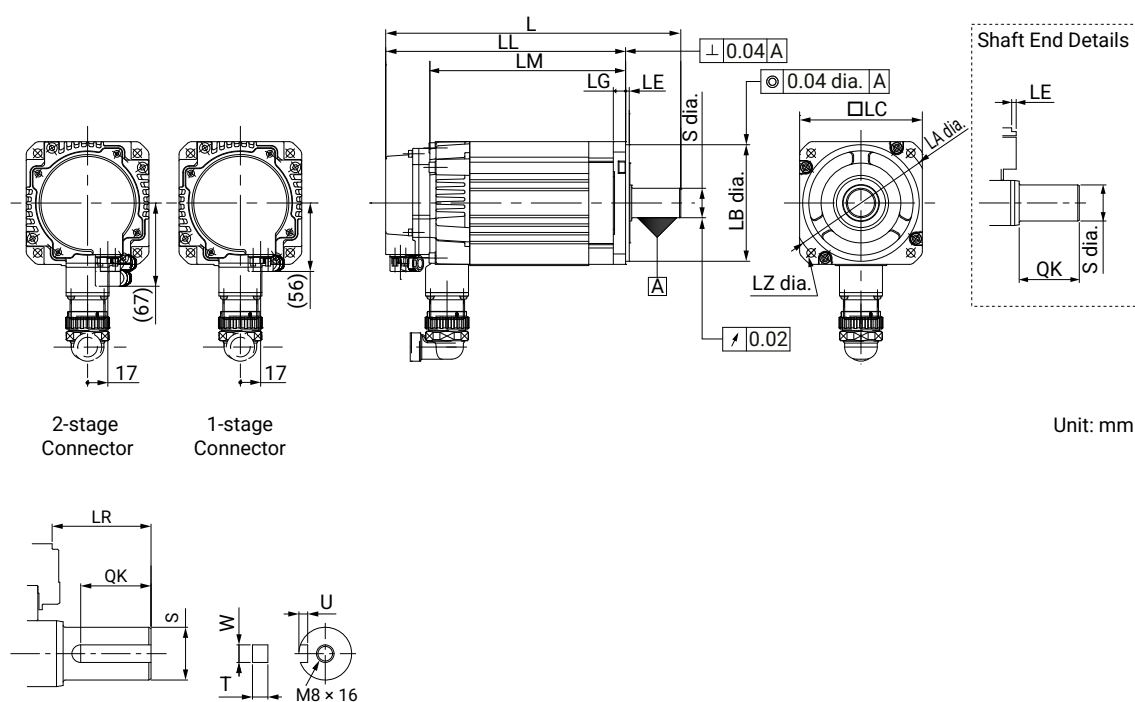
\*<sup>1</sup> Motors with batteryless encoders add 8 mm.

\*<sup>2</sup> Motors with batteryless encoders add 0.1 kg.

# Dimensions

SGMXA (3000 min<sup>-1</sup>)

| Dimensions [mm] | Without brake |     | With brake |     | LR | Flange surface |     |     |    |    |    | Shaft end |    |   |   |   | Mass [kg]     |            |
|-----------------|---------------|-----|------------|-----|----|----------------|-----|-----|----|----|----|-----------|----|---|---|---|---------------|------------|
| Servo motor     | L             | LL  | L          | LL  |    | LA             | LB  | LC  | LE | LG | LZ | S         | QK | W | T | U | Without brake | With brake |
| SGMXA-15D□A□FA1 | 200           | 155 | 241        | 196 | 45 | 115            | 95  | 100 | 3  | 10 | 7  | 24        | 32 | 8 | 7 | 4 | 4.6           | 6.0        |
| SGMXA-20D□A□FA1 | 216           | 171 | 257        | 212 | 45 | 115            | 95  | 100 | 3  | 10 | 7  | 24        | 32 | 8 | 7 | 4 | 5.4           | 6.8        |
| SGMXA-25D□A□FA1 | 239           | 194 | 290        | 245 | 45 | 115            | 95  | 100 | 3  | 10 | 7  | 24        | 32 | 8 | 7 | 4 | 6.8           | 8.7        |
| SGMXA-30D□A□FA1 | 255           | 192 | 291        | 228 | 63 | 145            | 110 | 130 | 6  | 12 | 9  | 28        | 50 | 8 | 7 | 4 | 10.5          | 13         |
| SGMXA-40D□A□FA1 | 294           | 231 | 330        | 267 | 63 | 145            | 110 | 130 | 6  | 12 | 9  | 28        | 50 | 8 | 7 | 4 | 13.5          | 16         |
| SGMXA-50D□A□FA1 | 334           | 271 | 370        | 307 | 63 | 145            | 110 | 130 | 6  | 12 | 9  | 28        | 50 | 8 | 7 | 4 | 16.5          | 19         |



Shapes of the actual products may differ.  
Number of holes may differ.

# Ratings and specifications

200 V

SGMXG (1500 min<sup>-1</sup>)

| Servo motor SGMXG-□                   |                                                                         |                                      | 03A□A                                                                    | 05A□A | 09A□A | 13A□A |
|---------------------------------------|-------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------|-------|-------|-------|
| Rated output                          |                                                                         | W                                    | 300                                                                      | 450   | 850   | 1,300 |
| Rated torque                          |                                                                         | Nm                                   | 1.96                                                                     | 2.86  | 5.39  | 8.34  |
| Instantaneous peak torque             |                                                                         | Nm                                   | 5.88                                                                     | 8.92  | 14.2  | 23.3  |
| Rated current                         |                                                                         | A <sub>rms</sub>                     | 2.8                                                                      | 3.8   | 6.9   | 10.7  |
| Instantaneous max. current            |                                                                         | A <sub>rms</sub>                     | 8.0                                                                      | 11    | 17    | 28    |
| Rated speed                           |                                                                         | min <sup>-1</sup>                    | 1,500                                                                    |       |       |       |
| Continuous allowable rotation speed   |                                                                         | min <sup>-1</sup>                    | 4,000                                                                    |       |       |       |
| Max. speed                            |                                                                         | min <sup>-1</sup>                    | 4,000                                                                    |       |       |       |
| Torque constant                       |                                                                         | Nm/A <sub>rms</sub>                  | 0.776                                                                    | 0.854 | 0.859 | 0.891 |
| Rotor moment of inertia (JM)          | Without holding brakes                                                  | kg×m <sup>2</sup> × 10 <sup>-4</sup> | 2.48                                                                     | 3.33  | 13.9  | 19.9  |
|                                       | With holding brakes                                                     |                                      | 2.73                                                                     | 3.58  | 16.0  | 22.0  |
| Allowable load moment of inertia (JL) | Without external devices                                                | At 3000 min <sup>-1</sup>            | 15×                                                                      | 15×   | 5×    | 5×    |
|                                       |                                                                         | At 4000 min <sup>-1</sup>            | 8.4×                                                                     | 8.4×  | 2×    | 2×    |
|                                       | With external regenerative resistor and external dynamic brake resistor | At 3000 min <sup>-1</sup>            | 15×                                                                      | 15×   | 10×   | 10×   |
|                                       |                                                                         | At 4000 min <sup>-1</sup>            | 8.4×                                                                     | 8.4×  | 8×    | 9×    |
| Rated power rate                      | Without holding brakes                                                  | kW/s                                 | 15.5                                                                     | 24.6  | 20.9  | 35.0  |
|                                       | With holding brakes                                                     |                                      | 14.1                                                                     | 22.9  | 18.2  | 31.6  |
| Rated angular acceleration            | Without holding brakes                                                  | rad/s <sup>2</sup>                   | 7900                                                                     | 8590  | 3880  | 4190  |
|                                       | With holding brakes                                                     |                                      | 7180                                                                     | 7990  | 3370  | 3790  |
| Time rating                           |                                                                         |                                      | Continuous                                                               |       |       |       |
| Insulation resistance                 |                                                                         |                                      | 500 VDC, 10 MΩ min.                                                      |       |       |       |
| Ambient temperature                   |                                                                         |                                      | 0°C to 40°C<br>(With derating, usage is possible between 40°C and 60°C.) |       |       |       |
| Ambient humidity                      |                                                                         |                                      | 20% to 80% relative humidity (with no condensation)                      |       |       |       |
| Vibration class                       |                                                                         |                                      | V15                                                                      |       |       |       |
| Enclosure                             |                                                                         |                                      | Totally enclosed, self-cooled, IP67                                      |       |       |       |
| Vibration resistance                  |                                                                         |                                      | 49 m/s <sup>2</sup>                                                      |       |       |       |

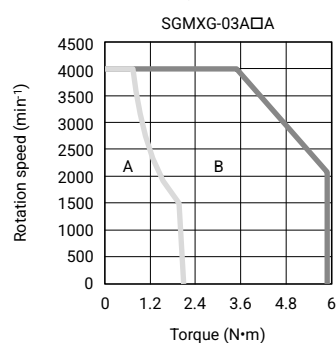
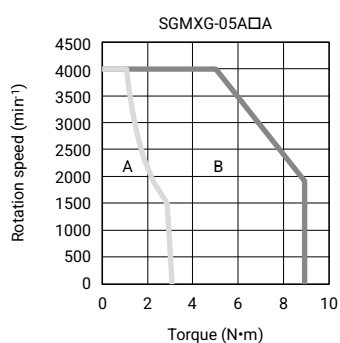
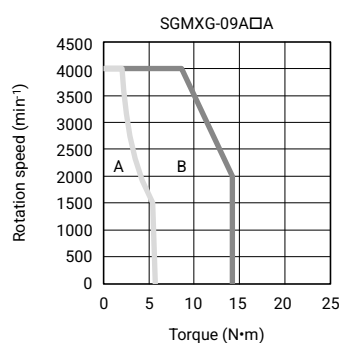
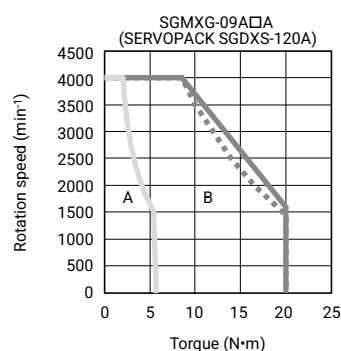
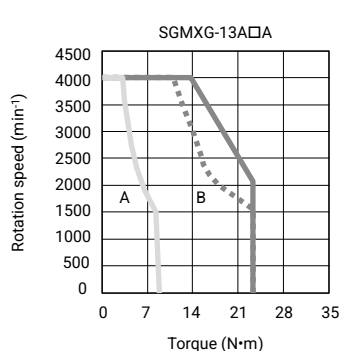
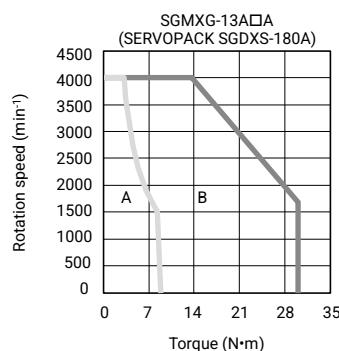
# Torque-rotation speed characteristics

200 V

SGMXG (1500 min<sup>-1</sup>)

A : Continuous duty zone  
B : Intermittent duty zone

(solid lines): Three-phase, 200 V  
(dotted lines): Single-phase, 200 V



# Ratings and specifications

400 V

SGMXG (1500 min<sup>-1</sup>)

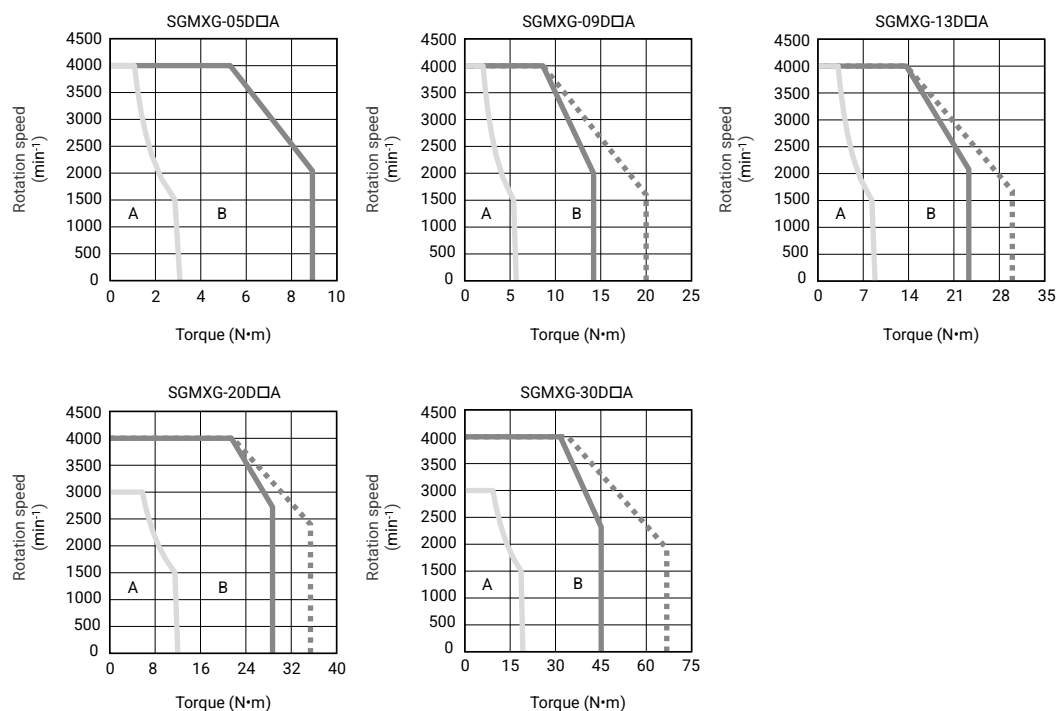
| Servo motor SGMXG-□                   |                                                                         |                                      | 05D□A                                                                    | 09D□A | 13D□A | 20D□A | 30D□A |
|---------------------------------------|-------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------|-------|-------|-------|-------|
| Rated output                          |                                                                         | W                                    | 450                                                                      | 850   | 1,300 | 1,800 | 2,900 |
| Rated torque                          |                                                                         | Nm                                   | 2.86                                                                     | 5.39  | 8.34  | 11.5  | 18.6  |
| Instantaneous peak torque             |                                                                         | Nm                                   | 8.92                                                                     | 14.2  | 23.3  | 28.7  | 45.1  |
| Rated current                         |                                                                         | A <sub>rms</sub>                     | 1.9                                                                      | 3.5   | 5.4   | 8.4   | 11.9  |
| Instantaneous max. current            |                                                                         | A <sub>rms</sub>                     | 5.5                                                                      | 8.5   | 14    | 21    | 28    |
| Rated speed                           |                                                                         | min <sup>-1</sup>                    | 1,500                                                                    |       |       |       |       |
| Continuous allowable rotation speed   |                                                                         | min <sup>-1</sup>                    | 4,000                                                                    |       |       | 3,000 |       |
| Max. speed                            |                                                                         | min <sup>-1</sup>                    | 4,000                                                                    |       |       |       |       |
| Torque constant                       |                                                                         | Nm/A <sub>rms</sub>                  | 1.71                                                                     | 1.72  | 1.78  | 1.50  | 1.69  |
| Rotor moment of inertia (JM)          | Without holding brakes                                                  | kg×m <sup>2</sup> × 10 <sup>-4</sup> | 3.33                                                                     | 13.9  | 19.9  | 26.0  | 46.0  |
|                                       | With holding brakes                                                     |                                      | 3.58                                                                     | 16.0  | 22.0  | 28.1  | 53.9  |
| Allowable load moment of inertia (JL) | Without external devices                                                | At 3000 min <sup>-1</sup>            | 15×                                                                      | 5×    |       |       |       |
|                                       |                                                                         | At 4000 min <sup>-1</sup>            | 8.4×                                                                     | 2×    |       | 5×    | 2.2×  |
|                                       | With external regenerative resistor and external dynamic brake resistor | At 3000 min <sup>-1</sup>            | 15×                                                                      | 10×   |       |       |       |
|                                       |                                                                         | At 4000 min <sup>-1</sup>            | 8.4×                                                                     | 8×    | 9×    | 7×    | 2.2×  |
| Rated power rate                      | Without holding brakes                                                  | kW/s                                 | 24.6                                                                     | 20.9  | 35.0  | 50.9  | 75.2  |
|                                       | With holding brakes                                                     |                                      | 22.9                                                                     | 18.2  | 31.6  | 47.1  | 64.2  |
| Rated angular acceleration            | Without holding brakes                                                  | rad/s <sup>2</sup>                   | 8590                                                                     | 3880  | 4190  | 4420  | 4040  |
|                                       | With holding brakes                                                     |                                      | 7990                                                                     | 3370  | 3790  | 4090  | 3450  |
| Time rating                           |                                                                         |                                      | Continuous                                                               |       |       |       |       |
| Insulation resistance                 |                                                                         |                                      | 500 VDC, 10 MΩ min.                                                      |       |       |       |       |
| Ambient temperature                   |                                                                         |                                      | 0°C to 40°C<br>(With derating, usage is possible between 40°C and 60°C.) |       |       |       |       |
| Ambient humidity                      |                                                                         |                                      | 20% to 80% relative humidity (with no condensation)                      |       |       |       |       |
| Vibration class                       |                                                                         |                                      | V15                                                                      |       |       |       |       |
| Enclosure                             |                                                                         |                                      | Totally enclosed, self-cooled, IP67                                      |       |       |       |       |
| Vibration resistance                  |                                                                         |                                      | 49 m/s <sup>2</sup>                                                      |       |       |       |       |

# Torque-rotation speed characteristics

400 V

SGMXG (1500 min<sup>-1</sup>)

**A** : Continuous duty zone      — (solid lines): Three-phase, 400 V  
**B** : Intermittent duty zone      ..... (dotted lines): Three-phase, 400 V (with changed SERVOPACK combination)



# Ratings and specifications

400 V

SGMXG (1500 min<sup>-1</sup>)

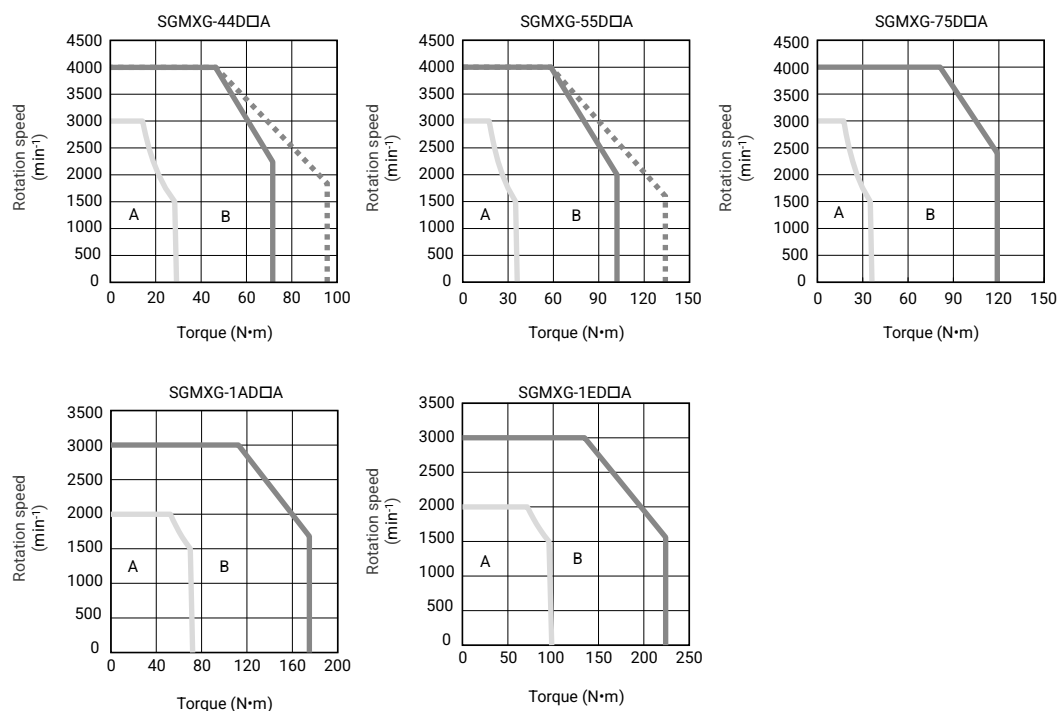
| Servo motor SGMXG-□                   |                                                                         |                                      | 44D□A                                                                    | 55D□A                 | 75D□A | 1AD□A  | 1ED□A  |
|---------------------------------------|-------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------|-----------------------|-------|--------|--------|
| Rated output                          |                                                                         | W                                    | 4,400                                                                    | 5,500                 | 7,500 | 11,000 | 15,000 |
| Rated torque                          |                                                                         | Nm                                   | 28.4                                                                     | 35.0                  | 48.0  | 70.0   | 95.4   |
| Instantaneous peak torque             |                                                                         | Nm                                   | 71.6                                                                     | 102                   | 119   | 175    | 224    |
| Rated current                         |                                                                         | A <sub>rms</sub>                     | 16.0                                                                     | 18.6                  | 25.7  | 28.1   | 37.0   |
| Instantaneous max. current            |                                                                         | A <sub>rms</sub>                     | 41                                                                       | 55                    | 63    | 70     | 85     |
| Rated speed                           |                                                                         | min <sup>-1</sup>                    | 1,500                                                                    |                       |       |        |        |
| Continuous allowable rotation speed   |                                                                         | min <sup>-1</sup>                    | 3,000                                                                    |                       |       | 2,000  |        |
| Max. speed                            |                                                                         | min <sup>-1</sup>                    | 4,000                                                                    |                       |       | 3,000  |        |
| Torque constant                       |                                                                         | Nm/A <sub>rms</sub>                  | 1.92                                                                     | 2.05                  | 1.97  | 2.76   | 2.86   |
| Rotor moment of inertia (JM)          | Without holding brakes                                                  | kg×m <sup>2</sup> × 10 <sup>-4</sup> | 67.5                                                                     | 89.0                  | 125   | 242    | 303    |
|                                       | With holding brakes                                                     |                                      | 75.4                                                                     | 96.9                  | 133   | 261    | 341    |
| Allowable load moment of inertia (JL) | Without external devices                                                | At 2000 min <sup>-1</sup>            | -                                                                        |                       |       | 5×     |        |
|                                       |                                                                         | At 3000 min <sup>-1</sup>            | 5×                                                                       |                       |       | 2.2×   | 1.5×   |
|                                       |                                                                         | At 4000 min <sup>-1</sup>            | 2.4×                                                                     | 3.5×                  | 2.2×  | -      |        |
|                                       | With external regenerative resistor and external dynamic brake resistor | At 2000 min <sup>-1</sup>            | -                                                                        |                       |       | 10×    |        |
|                                       |                                                                         | At 3000 min <sup>-1</sup>            | 10×                                                                      |                       |       | 4×     | 2×     |
|                                       |                                                                         | At 4000 min <sup>-1</sup>            | 5×                                                                       |                       | 4×    | -      |        |
| Rated power rate                      | Without holding brakes                                                  | kW/s                                 | 119                                                                      | 138                   | 184   | 202    | 300    |
|                                       | With holding brakes                                                     |                                      | 107                                                                      | 126                   | 173   | 188    | 267    |
| Rated angular acceleration            | Without holding brakes                                                  | rad/s <sup>2</sup>                   | 4210                                                                     | 3930                  | 3840  | 2890   | 3150   |
|                                       | With holding brakes                                                     |                                      | 3770                                                                     | 3610                  | 3610  | 2680   | 2800   |
| Time rating                           |                                                                         |                                      | Continuous                                                               |                       |       |        |        |
| Insulation resistance                 |                                                                         |                                      | 500 VDC, 10 MΩ min.                                                      |                       |       |        |        |
| Ambient temperature                   |                                                                         |                                      | 0°C to 40°C<br>(With derating, usage is possible between 40°C and 60°C.) |                       |       |        |        |
| Ambient humidity                      |                                                                         |                                      | 20% to 80% relative humidity (with no condensation)                      |                       |       |        |        |
| Vibration class                       |                                                                         |                                      | V15                                                                      |                       |       |        |        |
| Enclosure                             |                                                                         |                                      | Totally enclosed, self-cooled, IP67                                      |                       |       |        |        |
| Vibration resistance                  |                                                                         |                                      | 49 m/s <sup>2</sup>                                                      | 24.5 m/s <sup>2</sup> |       |        |        |

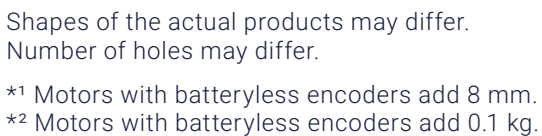
# Torque-rotation speed characteristics

400 V

SGMXG (1500 min<sup>-1</sup>)

**A** : Continuous duty zone      — (solid lines): Three-phase, 400 V  
**B** : Intermittent duty zone      ..... (dotted lines): Three-phase, 400 V (with changed SERVOPACK combination)

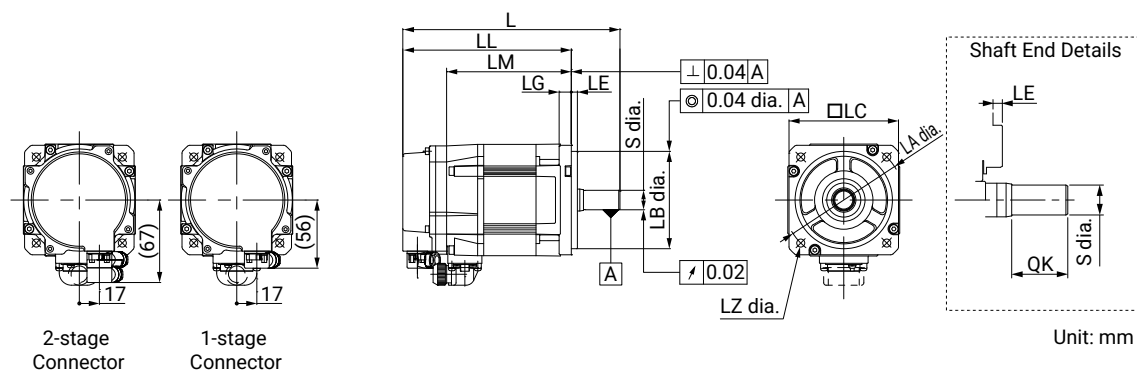
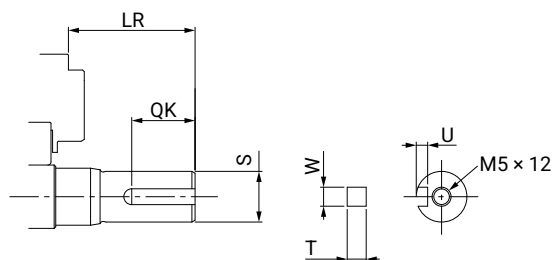




# Dimensions

SGMXG (1500 min<sup>-1</sup>)

| Dimensions [mm] | Without brake |     | With brake |     | LR  | Flange surface |       |     |     |    |      | Shaft end |    |    |    |   | Mass [kg]     |            |
|-----------------|---------------|-----|------------|-----|-----|----------------|-------|-----|-----|----|------|-----------|----|----|----|---|---------------|------------|
| Servo motor     | L             | LL  | L          | LL  |     | LA             | LB    | LC  | LE  | LG | LZ   | S         | QK | W  | T  | U | Without brake | With brake |
| SGMXG-05D□A□FA1 | 177           | 137 | 210        | 170 | 40  | 100            | 80    | 90  | 5   | 10 | 6.6  | 16        | 20 | 5  | 5  | 3 | 3.2           | 4.2        |
| SGMXG-09D□A□FA1 | 193           | 135 | 229        | 171 | 58  | 145            | 110   | 130 | 6   | 12 | 9    | 24        | 25 | 8  | 7  | 4 | 5.5           | 7.5        |
| SGMXG-13D□A□FA1 | 209           | 151 | 245        | 187 | 58  | 145            | 110   | 130 | 6   | 12 | 9    | 24        | 25 | 8  | 7  | 4 | 7.1           | 9.0        |
| SGMXG-20D□A□FA1 | 227           | 169 | 263        | 205 | 58  | 145            | 110   | 130 | 6   | 12 | 9    | 24        | 25 | 8  | 7  | 4 | 8.6           | 11.0       |
| SGMXG-30D□A□FA1 | 237           | 158 | 287        | 208 | 79  | 200            | 114.3 | 180 | 3.2 | 18 | 13.5 | 35        | 60 | 10 | 8  | 5 | 13.5          | 19.5       |
| SGMXG-44D□A□FA1 | 261           | 182 | 311        | 232 | 79  | 200            | 114.3 | 180 | 3.2 | 18 | 13.5 | 35        | 60 | 10 | 8  | 5 | 17.5          | 23.5       |
| SGMXG-55D□A□FA1 | 332           | 219 | 376        | 263 | 113 | 200            | 114.3 | 180 | 3.2 | 18 | 13.5 | 42        | 90 | 12 | 8  | 5 | 21.5          | 27.5       |
| SGMXG-75D□A□FA1 | 378           | 265 | 422        | 309 | 113 | 200            | 114.3 | 180 | 3.2 | 18 | 13.5 | 42        | 90 | 12 | 8  | 5 | 29.5          | 35.0       |
| SGMXG-1AD□A□FA1 | 445           | 329 | 496        | 380 | 116 | 235            | 200   | 220 | 4   | 20 | 13.5 | 42        | 90 | 12 | 8  | 5 | 57            | 65         |
| SGMXG-1ED□A□FA1 | 507           | 391 | 596        | 480 | 116 | 235            | 200   | 220 | 4   | 20 | 13.5 | 55        | 90 | 16 | 10 | 6 | 67            | 79         |



Shapes of the actual products may differ.  
Number of holes may differ.

# Ratings and specifications

200 V

SGMXJ (3000 min<sup>-1</sup>)

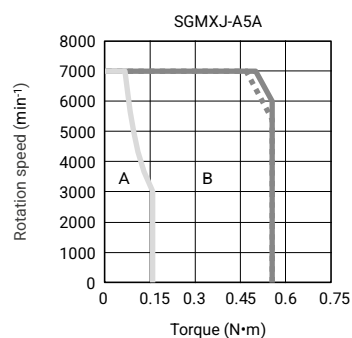
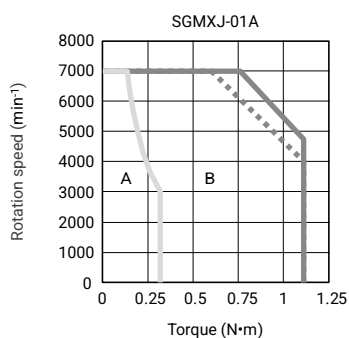
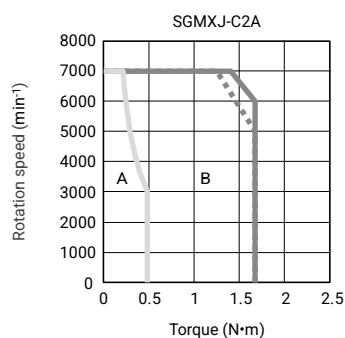
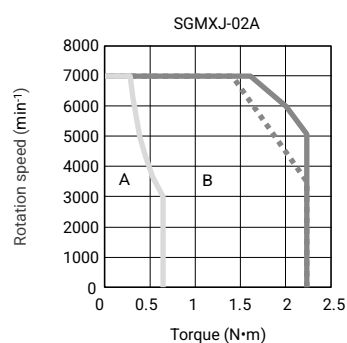
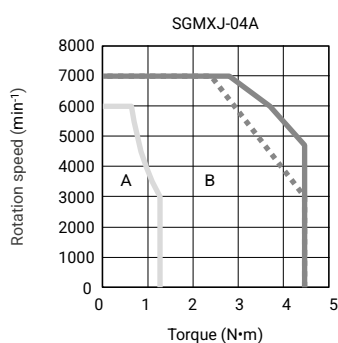
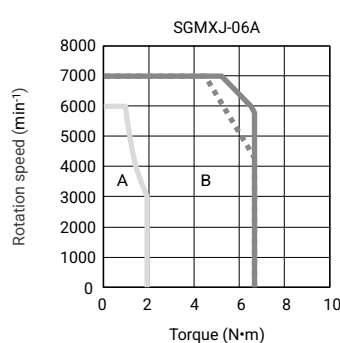
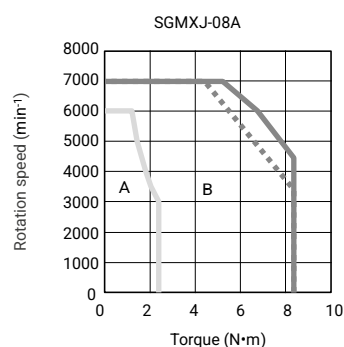
| Servo motor SGMXJ-□                         |                                                                         |                                      | A5A                                                                      | 01A    | C2A    | 02A   | 04A   | 06A   | 08A   |
|---------------------------------------------|-------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------|--------|--------|-------|-------|-------|-------|
| Rated output                                |                                                                         | W                                    | 50                                                                       | 100    | 150    | 200   | 400   | 600   | 750   |
| Rated torque                                |                                                                         | Nm                                   | 0.159                                                                    | 0.318  | 0.477  | 0.637 | 1.27  | 1.91  | 2.39  |
| Instantaneous peak torque                   |                                                                         | Nm                                   | 0.557                                                                    | 1.11   | 1.67   | 2.23  | 4.46  | 6.69  | 8.36  |
| Rated current                               |                                                                         | A <sub>rms</sub>                     | 0.55                                                                     | 0.85   | 1.6    | 1.6   | 2.5   | 4.2   | 4.4   |
| Instantaneous max. current                  |                                                                         | A <sub>rms</sub>                     | 2.0                                                                      | 3.1    | 5.7    | 5.8   | 9.3   | 15.3  | 16.9  |
| Rated speed                                 |                                                                         | min <sup>-1</sup>                    | 3,000                                                                    |        |        |       |       |       |       |
| Continuous allowable rotation speed         |                                                                         | min <sup>-1</sup>                    | 7,000                                                                    |        |        |       | 6,000 |       |       |
| Max. speed                                  |                                                                         | min <sup>-1</sup>                    | 7,000                                                                    |        |        |       |       |       |       |
| Torque constant                             |                                                                         | Nm/A <sub>rms</sub>                  | 0.316                                                                    | 0.413  | 0.321  | 0.444 | 0.544 | 0.493 | 0.584 |
| Rotor moment of inertia (JM)                | Without holding brakes                                                  | kg×m <sup>2</sup> × 10 <sup>-4</sup> | 0.0421                                                                   | 0.0669 | 0.0946 | 0.263 | 0.486 | 0.800 | 1.59  |
|                                             | With holding brakes                                                     |                                      | 0.0501                                                                   | 0.0749 | 0.103  | 0.323 | 0.546 | 0.860 | 1.76  |
|                                             | Without holding brake and with batteryless absolute encoder             |                                      | 0.0458                                                                   | 0.0706 | 0.0983 | 0.267 | 0.490 | 0.804 | 1.59  |
|                                             | With holding brake and batteryless encoder                              |                                      | 0.0538                                                                   | 0.0786 | 0.107  | 0.327 | 0.550 | 0.864 | 1.76  |
| Allowable load moment of inertia (JL)       | Without external devices                                                | At 6000 min <sup>-1</sup>            | 35×                                                                      | 35×    | 35×    | 15×   | 10×   | 20×   | 12×   |
|                                             |                                                                         | At 7000 min <sup>-1</sup>            |                                                                          |        |        | 10×   | 5×    | 15×   | 8×    |
|                                             | With external regenerative resistor and external dynamic brake resistor | At 6000 min <sup>-1</sup>            | 35×                                                                      | 35×    | 35×    | 25×   | 25×   | 20×   | 15×   |
|                                             |                                                                         | At 7000 min <sup>-1</sup>            |                                                                          |        |        |       |       |       |       |
| Rated power rate                            | Without holding brakes                                                  | kW/s                                 | 6.00                                                                     | 15.1   | 24.0   | 15.4  | 33.1  | 45.6  | 35.9  |
|                                             | With holding brakes                                                     |                                      | 5.04                                                                     | 13.5   | 22.1   | 12.5  | 29.5  | 42.4  | 32.4  |
| Rated angular acceleration                  | Without holding brakes                                                  | rad/s <sup>2</sup>                   | 37700                                                                    | 47500  | 50400  | 24200 | 26100 | 23800 | 15000 |
|                                             | With holding brakes                                                     |                                      | 31700                                                                    | 42400  | 46400  | 19700 | 23200 | 22200 | 13500 |
| Derating rate for servo motor with oil seal |                                                                         | %                                    | 80                                                                       | 90     |        |       | 95    |       |       |
| Time rating                                 |                                                                         |                                      | Continuous                                                               |        |        |       |       |       |       |
| Insulation resistance                       |                                                                         |                                      | 500 VDC, 10 MΩ min.                                                      |        |        |       |       |       |       |
| Ambient temperature                         |                                                                         |                                      | 0°C to 40°C<br>(With derating, usage is possible between 40°C and 60°C.) |        |        |       |       |       |       |
| Ambient humidity                            |                                                                         |                                      | 20% to 80% relative humidity (with no condensation)                      |        |        |       |       |       |       |
| Vibration class                             |                                                                         |                                      | V15                                                                      |        |        |       |       |       |       |
| Enclosure                                   |                                                                         |                                      | Totally enclosed, self-cooled, IP67                                      |        |        |       |       |       |       |
| Vibration resistance                        |                                                                         |                                      | 49 m/s <sup>2</sup>                                                      |        |        |       |       |       |       |

# Torque-rotation speed characteristics

200 V

SGMXJ (3000 min<sup>-1</sup>)

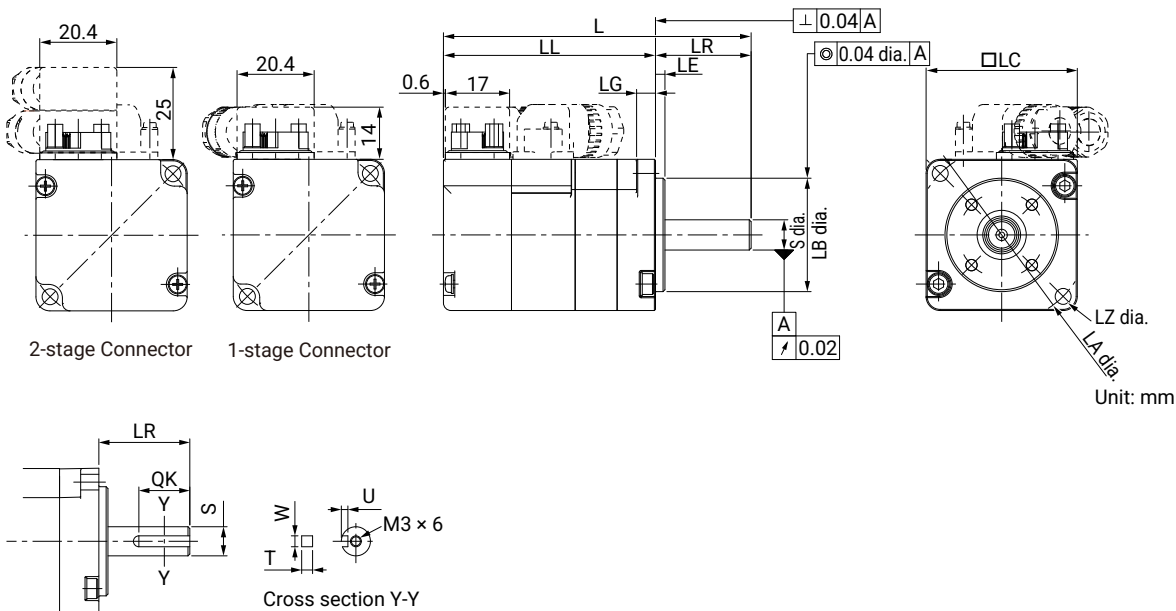
**A** : Continuous duty zone (solid lines): Three-phase, 200 V  
**B** : Intermittent duty zone (dotted lines): Single-phase, 200 V



# Dimensions

SGMXJ (3000 min<sup>-1</sup>)

| Dimensions [mm] | Without brake   |                  | With brake      |                  | LR | Flange surface |    |    |     |    |     | Shaft end |    |   |   |     | Mass [kg]                   |                          |
|-----------------|-----------------|------------------|-----------------|------------------|----|----------------|----|----|-----|----|-----|-----------|----|---|---|-----|-----------------------------|--------------------------|
| Servo motor     | L* <sup>1</sup> | LL* <sup>1</sup> | L* <sup>1</sup> | LL* <sup>1</sup> |    | LA             | LB | LC | LE  | LG | LZ  | S         | QK | W | T | U   | Without brake* <sup>2</sup> | With brake* <sup>2</sup> |
| SGMXJ-A5A□A□1A1 | 80.5            | 55.5             | 121             | 96               | 25 | 46             | 30 | 40 | 2.5 | 5  | 4.3 | 8         | 14 | 3 | 3 | 1.8 | 0.3                         | 0.6                      |
| SGMXJ-01A□A□1A1 | 92.5            | 67.5             | 133             | 108              | 25 | 46             | 30 | 40 | 2.5 | 5  | 4.3 | 8         | 14 | 3 | 3 | 1.8 | 0.4                         | 0.7                      |
| SGMXJ-C2A□A□1A1 | 104.5           | 79.5             | 153             | 128              | 25 | 46             | 30 | 40 | 2.5 | 5  | 4.3 | 8         | 14 | 3 | 3 | 1.8 | 0.5                         | 0.8                      |
| SGMXJ-02A□A□1A1 | 98.5            | 68.5             | 139             | 109              | 30 | 70             | 50 | 60 | 3   | 6  | 5.5 | 14        | 14 | 5 | 5 | 3   | 0.8                         | 1.4                      |
| SGMXJ-04A□A□1A1 | 115             | 85               | 155.5           | 125.5            | 30 | 70             | 50 | 60 | 3   | 6  | 5.5 | 14        | 14 | 5 | 5 | 3   | 1.1                         | 1.7                      |
| SGMXJ-06A□A□1A1 | 137             | 107              | 191             | 161              | 30 | 70             | 50 | 60 | 3   | 6  | 5.5 | 14        | 14 | 5 | 5 | 3   | 1.6                         | 2.2                      |
| SGMXJ-08A□A□1A1 | 136             | 96               | 183             | 143              | 40 | 90             | 70 | 80 | 3   | 8  | 7   | 19        | 22 | 6 | 6 | 3.5 | 2.2                         | 2.8                      |



Shapes of the actual products may differ.  
Number of holes may differ.

\*<sup>1</sup> Motors with batteryless encoders add 8 mm.

\*<sup>2</sup> Motors with batteryless encoders add 0.1 kg.



# Servopacks

Model  
designation

## SGDXS - R70 A 00 A 0000

① ② ③ ④ ⑤ ⑥

| 1     | Servopack type         |
|-------|------------------------|
| SGDXS | Servopack, single-axis |
| SGDXW | Servopack, dual-axis   |
| SGDXT | Servopack, triple-axis |

| 2    | Max. applicable motor capacity per axis |       |       |
|------|-----------------------------------------|-------|-------|
| Type | SGDXS                                   | SGDXW | SGDXT |
| R70  | 50 W                                    | –     | –     |
| R90  | 100 W                                   | –     | –     |
| 1R6  | 200 W                                   | 200 W | 200 W |
| 2R8  | 400 W                                   | 400 W | 400 W |
| 5R5  | 750 W                                   | 750 W | –     |
| 120  | 1,500 W                                 | –     | –     |

| 3 | Power supply voltage |
|---|----------------------|
| A | 200 VAC              |

| 4    | Interface                                   |       |       |
|------|---------------------------------------------|-------|-------|
| Type | SGDXS                                       | SGDXW | SGDXT |
| 00   | Analog voltage/<br>pulse train ref.         | —     |       |
| 40 * | Mechatrolink-4/III communications reference |       |       |
| A0   | EtherCAT communications reference           |       |       |

| 5 | Design revision order |
|---|-----------------------|
| A | Standard              |

| 6    | Hardware options                                              |                              |       |
|------|---------------------------------------------------------------|------------------------------|-------|
| Type | SGDXS                                                         | SGDXW                        | SGDXT |
| –    | None                                                          |                              |       |
| 0000 |                                                               |                              |       |
| 0008 | Single-phase,<br>200 VAC power<br>supply input * <sup>2</sup> | –                            |       |
| 1000 | –                                                             | HWBB function * <sup>1</sup> |       |

\* On request.

\*<sup>1</sup> Enables STO function for multi-axis servopacks.

\*<sup>2</sup> Only SGDXS-120A models.

# Servopacks

Model  
designation

## SGDXS - 1R9 D 00 A 0000

①

②

③

④

⑤

⑥

| 1     | Servopack type         |
|-------|------------------------|
| SGDXS | Servopack, single-axis |

| 2   | Max. applicable motor capacity per axis |
|-----|-----------------------------------------|
| 1R9 | 500 W                                   |
| 3R5 | 1,000 W                                 |
| 5R4 | 1,500 W                                 |
| 8R4 | 2,000 W                                 |
| 120 | 3,000 W                                 |
| 170 | 5,000 W                                 |
| 210 | 6,000 W                                 |
| 260 | 7,500 W                                 |
| 280 | 11,000 W                                |
| 370 | 15,000 W                                |

| 3 | Power supply voltage |
|---|----------------------|
| D | 400 VAC              |

| 4    | Interface                                   |
|------|---------------------------------------------|
| 00   | Analog voltage/pulse train ref.             |
| 40 * | Mechatrolink-4/III communications reference |
| A0   | EtherCAT communications reference           |

| 5 | Design revision order |
|---|-----------------------|
| A | Standard              |

| 6      | Hardware options                |
|--------|---------------------------------|
| –      | None                            |
| 0000   |                                 |
| 0020 * | External dynamic brake resistor |

\* On request.

# Servo drives and accessories

| Servo drive       |      |               | EMC filter |                         | CN1 I/O connection            |                                                                        |  |
|-------------------|------|---------------|------------|-------------------------|-------------------------------|------------------------------------------------------------------------|--|
| Model             | Axes | Communication | Model      | Top-mount <sup>★1</sup> | Model                         | Remarks                                                                |  |
| SGDXS-R70A00A     | 1    | Analog/Pulse  | FESS-B005A | x                       | JZSP-CSI9-1-E                 | Soldered connector kit, 50 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-R90A00A     | 1    | Analog/Pulse  | FESS-B005A | x                       | JZSP-CSI9-1-E                 | Soldered connector kit, 50 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-1R6A00A     | 1    | Analog/Pulse  | FESS-B005A | x                       | JZSP-CSI9-1-E                 | Soldered connector kit, 50 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-2R8A00A     | 1    | Analog/Pulse  | FESS-B005A | x                       | JZSP-CSI9-1-E                 | Soldered connector kit, 50 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-5R5A00A     | 1    | Analog/Pulse  | FESS-B009A | x                       | JZSP-CSI9-1-E                 | Soldered connector kit, 50 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-120A00A0008 | 1    | Analog/Pulse  | FESS-B016A | -                       | JZSP-CSI9-1-E                 | Soldered connector kit, 50 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |

- <sup>★1</sup> The servo drive can be mounted on top of the EMC filter.  
<sup>★2</sup> □ defines the cable length with 1, 2, or 3 m.  
<sup>★3</sup> □□ defines the cable length with A5 = 0.5 m, or 01 = 1 m.  
<sup>★4</sup> □□ defines the cable length with 01 = 1 m, or 03 = 3 m.



200 V

SGDXS  
Single axis

| CN8 Safety function cables |                                   | Shield clamp     | CN7 Computer cable |                                      | CN6 Communication cable |         |
|----------------------------|-----------------------------------|------------------|--------------------|--------------------------------------|-------------------------|---------|
| Model                      | Remarks                           | Model            | Model              | Remarks                              | Model                   | Remarks |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |         |
| -                          | -                                 |                  |                    |                                      |                         |         |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |         |
| -                          | -                                 |                  |                    |                                      |                         |         |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |         |
| -                          | -                                 |                  |                    |                                      |                         |         |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |         |
| -                          | -                                 |                  |                    |                                      |                         |         |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |         |
| -                          | -                                 |                  |                    |                                      |                         |         |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |         |
| -                          | -                                 |                  |                    |                                      |                         |         |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |         |
| -                          | -                                 |                  |                    |                                      |                         |         |

# Servo drives and accessories

| Servo drive       |      |               | EMC filter |                         | CN1 I/O connection           |                                                                        |  |
|-------------------|------|---------------|------------|-------------------------|------------------------------|------------------------------------------------------------------------|--|
| Model             | Axes | Communication | Model      | Top-mount <sup>*1</sup> | Model                        | Remarks                                                                |  |
| SGDXS-R70AA0A     | 1    | EtherCAT      | FESS-B005A | x                       | JZSP-CSI9-2-E                | Soldered connector kit, 26 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-R90AA0A     | 1    | EtherCAT      | FESS-B005A | x                       | JZSP-CSI9-2-E                | Soldered connector kit, 26 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-1R6AA0A     | 1    | EtherCAT      | FESS-B005A | x                       | JZSP-CSI9-2-E                | Soldered connector kit, 26 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-2R8AA0A     | 1    | EtherCAT      | FESS-B005A | x                       | JZSP-CSI9-2-E                | Soldered connector kit, 26 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-5R5AA0A     | 1    | EtherCAT      | FESS-B009A | x                       | JZSP-CSI9-2-E                | Soldered connector kit, 26 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-120AA0A0008 | 1    | EtherCAT      | FESS-B016A | -                       | JZSP-CSI9-2-E                | Soldered connector kit, 26 pin                                         |  |
|                   |      |               |            |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|                   |      |               |            |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |

<sup>\*1</sup> The servo drive can be mounted on top of the EMC filter.

<sup>\*2</sup> □ defines the cable length with 1, 2, or 3 m.

<sup>\*3</sup> □□ defines the cable length with 01 = 1 m.

<sup>\*4</sup> □□ defines the cable length with 01 = 1 m, or 03 = 3 m.

<sup>\*5</sup> □□ defines the cable length with P2 = 0.2 m, P5 = 0.5 m, 01 = 1 m, 03 = 3 m, 05 = 5 m, or 10 = 10 m.



200 V

EtherCAT®

SGDXS  
Single axis

|  | CN8 Safety function cables |                                   | Shield clamp     | CN7 Computer cable |                                      | CN6 Communication cable |                                                      |
|--|----------------------------|-----------------------------------|------------------|--------------------|--------------------------------------|-------------------------|------------------------------------------------------|
|  | Model                      | Remarks                           | Model            | Model              | Remarks                              | Model                   | Remarks                                              |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
|  | -                          | -                                 |                  |                    |                                      |                         |                                                      |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
|  | -                          | -                                 |                  |                    |                                      |                         |                                                      |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
|  | -                          | -                                 |                  |                    |                                      |                         |                                                      |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
|  | -                          | -                                 |                  |                    |                                      |                         |                                                      |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
|  | -                          | -                                 |                  |                    |                                      |                         |                                                      |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
|  | -                          | -                                 |                  |                    |                                      |                         |                                                      |

# Servo drives and accessories

| Servo drive       |      |               | EMC filter        |                         | CN1 I/O connection            |                                                                        |  |
|-------------------|------|---------------|-------------------|-------------------------|-------------------------------|------------------------------------------------------------------------|--|
| Model             | Axes | Communication | Model             | Top-mount <sup>★1</sup> | Model                         | Remarks                                                                |  |
| SGDXW-1R6AA0A1000 | 2    | EtherCAT      | FESW-B005A        | x                       | DP9420007-E                   | Soldered connector kit                                                 |  |
|                   |      |               |                   |                         | JZSP-CSI03-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
| SGDXW-2R8AA0A1000 | 2    | EtherCAT      | FESW-B011A        | x                       | DP9420007-E                   | Soldered connector kit                                                 |  |
|                   |      |               |                   |                         | JZSP-CSI03-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
| SGDXW-5R5AA0A1000 | 2    | EtherCAT      | FESW-B012A        | x                       | DP9420007-E                   | Soldered connector kit                                                 |  |
|                   |      |               |                   |                         | JZSP-CSI03-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
| SGDXT-1R6AA0A1000 | 3    | EtherCAT      | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|                   |      |               |                   |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|                   |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXT-2R8AA0A1000 | 3    | EtherCAT      | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|                   |      |               |                   |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|                   |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |

★1 The servo drive can be mounted on top of the EMC filter.

★2 □ defines the cable length with 1, 2, or 3 m.

★3 □□ defines the cable length with 01 = 1 m.

★4 □□ defines the cable length with 01 = 1 m, or 03 = 3 m.

★5 □□ defines the cable length with P2 = 0.2 m, P5 = 0.5 m, 01 = 1 m, 03 = 3 m, 05 = 5 m, or 10 = 10 m.



# EtherCAT®

## SGDXW & SGDXT Double & Triple axis

| CN8 Safety function cables |                                   | Shield clamp     | CN7 Computer cable |                                      | CN6 Communication cable |                                                      |
|----------------------------|-----------------------------------|------------------|--------------------|--------------------------------------|-------------------------|------------------------------------------------------|
| Model                      | Remarks                           | Model            | Model              | Remarks                              | Model                   | Remarks                                              |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
| -                          | -                                 |                  |                    |                                      |                         |                                                      |
| 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SET | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | JZSP-CM3RRM0-□□-E *5    | Communication Cable with RJ45 Connector on both ends |
| JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                  |                    |                                      |                         |                                                      |
| -                          | -                                 |                  |                    |                                      |                         |                                                      |

# Servo drives and accessories

| Servo drive   |      |               | EMC filter        |                         | CN1 I/O connection            |                                                                        |  |
|---------------|------|---------------|-------------------|-------------------------|-------------------------------|------------------------------------------------------------------------|--|
| Model         | Axes | Communication | Model             | Top-mount <sup>★1</sup> | Model                         | Remarks                                                                |  |
| SGDXS-1R9D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-3R5D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-5R4D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-8R4D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-120D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>★2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>★3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |

★1 The servo drive can be mounted on top of the EMC filter.

★2 □ defines the cable length with 1, 2, or 3 m.

★3 □□ defines the cable length with A5 = 0.5 m, or 01 = 1 m.

★4 □□ defines the cable length with 01 = 1 m, or 03 = 3 m.

★5 □□ defines the cable length with P2 = 0.2 m, P5 = 0.5 m, 01 = 1 m, 03 = 3 m, 05 = 5 m, or 10 = 10 m.



400 V

SGDXS  
Single axis

|  | CN8 Safety function cables |                                   | Shield clamp    | CN7 Computer cable |                                      | CN6 Communication cable |         |
|--|----------------------------|-----------------------------------|-----------------|--------------------|--------------------------------------|-------------------------|---------|
|  | Model                      | Remarks                           | Model           | Model              | Remarks                              | Model                   | Remarks |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SC | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                 |                    |                                      |                         |         |
|  | -                          | -                                 |                 |                    |                                      |                         |         |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SC | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                 |                    |                                      |                         |         |
|  | -                          | -                                 |                 |                    |                                      |                         |         |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SC | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                 |                    |                                      |                         |         |
|  | -                          | -                                 |                 |                    |                                      |                         |         |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SC | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                 |                    |                                      |                         |         |
|  | -                          | -                                 |                 |                    |                                      |                         |         |
|  | 2013595-1                  | Connector kit                     | KLBUE 4-13.5 SC | JZSP-CVS06-02-E    | USB-A / Mini-USB cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-□□-E-G7 *4      | Connector cable with flying leads |                 |                    |                                      |                         |         |
|  | -                          | -                                 |                 |                    |                                      |                         |         |

# Servo drives and accessories

| Servo drive   |      |               | EMC filter        |                         | CN1 I/O connection            |                                                                        |  |
|---------------|------|---------------|-------------------|-------------------------|-------------------------------|------------------------------------------------------------------------|--|
| Model         | Axes | Communication | Model             | Top-mount <sup>*1</sup> | Model                         | Remarks                                                                |  |
| SGDXS-170D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>*2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-210D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>*2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-260D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>*2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-280D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>*2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-370D00A | 1    | Analog/Pulse  | under development |                         | JZSP-CSI9-1-E                 | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI01-□-E <sup>*2</sup>  | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | CBK-U-MP2B-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |

<sup>\*1</sup> The servo drive can be mounted on top of the EMC filter.

<sup>\*2</sup> □ defines the cable length with 1, 2, or 3 m.

<sup>\*3</sup> □□ defines the cable length with A5 = 0.5 m, or 01 = 1 m.

<sup>\*4</sup> □□ defines the cable length with 01 = 1 m, or 03 = 3 m.

<sup>\*5</sup> □□ defines the cable length with P2 = 0.2 m, P5 = 0.5 m, 01 = 1 m, 03 = 3 m, 05 = 5 m, or 10 = 10 m.



400 V

SGDXS  
Single axis

|  | CN8 Safety function cables |                                      | Shield clamp      | CN7 Computer cable  |                                         | CN6 Communication cable |         |
|--|----------------------------|--------------------------------------|-------------------|---------------------|-----------------------------------------|-------------------------|---------|
|  | Model                      | Remarks                              | Model             | Model               | Remarks                                 | Model                   | Remarks |
|  | 2013595-1                  | Connector kit                        | KLBUE 10-20<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                         |         |
|  | -                          | -                                    |                   |                     |                                         |                         |         |
|  | 2013595-1                  | Connector kit                        | KLBUE 10-20<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                         |         |
|  | -                          | -                                    |                   |                     |                                         |                         |         |
|  | 2013595-1                  | Connector kit                        | KLBUE 10-20<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                         |         |
|  | -                          | -                                    |                   |                     |                                         |                         |         |
|  | 2013595-1                  | Connector kit                        | KLBUE 15-32_SC    | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                         |         |
|  | -                          | -                                    |                   |                     |                                         |                         |         |
|  | 2013595-1                  | Connector kit                        | KLBUE 15-32_SC    | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | -                       | -       |
|  | JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                         |         |
|  | -                          | -                                    |                   |                     |                                         |                         |         |

# Servo drives and accessories

| Servo drive   |      |               | EMC filter        |                         | CN1 I/O connection           |                                                                        |  |
|---------------|------|---------------|-------------------|-------------------------|------------------------------|------------------------------------------------------------------------|--|
| Model         | Axes | Communication | Model             | Top-mount <sup>*1</sup> | Model                        | Remarks                                                                |  |
| SGDXS-1R9DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-3R5DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-5R4DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-8R4DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-120DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |

<sup>\*1</sup> The servo drive can be mounted on top of the EMC filter.

<sup>\*2</sup> □ defines the cable length with 1, 2, or 3 m.

<sup>\*3</sup> □□ defines the cable length with 01 = 1 m.

<sup>\*4</sup> □□ defines the cable length with 01 = 1 m, or 03 = 3 m.

<sup>\*5</sup> □□ defines the cable length with P2 = 0.2 m, P5 = 0.5 m, 01 = 1 m, 03 = 3 m, 05 = 5 m, or 10 = 10 m.



400 V

EtherCAT®

SGDXS  
Single axis

| CN8 Safety function cables |                                      | Shield clamp       | CN7 Computer cable  |                                         | CN6 Communication cable      |                                                            |
|----------------------------|--------------------------------------|--------------------|---------------------|-----------------------------------------|------------------------------|------------------------------------------------------------|
| Model                      | Remarks                              | Model              | Model               | Remarks                                 | Model                        | Remarks                                                    |
| 2013595-1                  | Connector kit                        | KLBUE 4-13.5<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                    |                     |                                         |                              |                                                            |
| -                          | -                                    |                    |                     |                                         |                              |                                                            |
| 2013595-1                  | Connector kit                        | KLBUE 4-13.5<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                    |                     |                                         |                              |                                                            |
| -                          | -                                    |                    |                     |                                         |                              |                                                            |
| 2013595-1                  | Connector kit                        | KLBUE 4-13.5<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                    |                     |                                         |                              |                                                            |
| -                          | -                                    |                    |                     |                                         |                              |                                                            |
| 2013595-1                  | Connector kit                        | KLBUE 4-13.5<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                    |                     |                                         |                              |                                                            |
| -                          | -                                    |                    |                     |                                         |                              |                                                            |
| 2013595-1                  | Connector kit                        | KLBUE 4-13.5<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                    |                     |                                         |                              |                                                            |
| -                          | -                                    |                    |                     |                                         |                              |                                                            |
| 2013595-1                  | Connector kit                        | KLBUE 4-13.5<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                    |                     |                                         |                              |                                                            |
| -                          | -                                    |                    |                     |                                         |                              |                                                            |

# Servo drives and accessories

| Servo drive   |      |               | EMC filter        |                         | CN1 I/O connection           |                                                                        |  |
|---------------|------|---------------|-------------------|-------------------------|------------------------------|------------------------------------------------------------------------|--|
| Model         | Axes | Communication | Model             | Top-mount <sup>*1</sup> | Model                        | Remarks                                                                |  |
| SGDXS-170DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-210DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-260DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-280DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |
| SGDXS-370DA0A | 1    | EtherCAT      | under development |                         | JZSP-CSI9-2-E                | Soldered connector kit                                                 |  |
|               |      |               |                   |                         | JZSP-CSI02-□-E <sup>*2</sup> | Connector cable with flying leads                                      |  |
|               |      |               |                   |                         | SBK-U-VBA-□□EU <sup>*3</sup> | CN1 connection; terminal block with cable & screwless clamp connectors |  |

<sup>\*1</sup> The servo drive can be mounted on top of the EMC filter.

<sup>\*2</sup> □ defines the cable length with 1, 2, or 3 m.

<sup>\*3</sup> □□ defines the cable length with 01 = 1 m.

<sup>\*4</sup> □□ defines the cable length with 01 = 1 m, or 03 = 3 m.

<sup>\*5</sup> □□ defines the cable length with P2 = 0.2 m, P5 = 0.5 m, 01 = 1 m, 03 = 3 m, 05 = 5 m, or 10 = 10 m.



400 V

EtherCAT®

SGDXS  
Single axis

| CN8 Safety function cables |                                      | Shield clamp      | CN7 Computer cable  |                                         | CN6 Communication cable      |                                                            |
|----------------------------|--------------------------------------|-------------------|---------------------|-----------------------------------------|------------------------------|------------------------------------------------------------|
| Model                      | Remarks                              | Model             | Model               | Remarks                                 | Model                        | Remarks                                                    |
| 2013595-1                  | Connector kit                        | KLBUE 10-20<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                              |                                                            |
| -                          | -                                    |                   |                     |                                         |                              |                                                            |
| 2013595-1                  | Connector kit                        | KLBUE 10-20<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                              |                                                            |
| -                          | -                                    |                   |                     |                                         |                              |                                                            |
| 2013595-1                  | Connector kit                        | KLBUE 10-20<br>SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                              |                                                            |
| -                          | -                                    |                   |                     |                                         |                              |                                                            |
| 2013595-1                  | Connector kit                        | KLBUE<br>15-32_SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                              |                                                            |
| -                          | -                                    |                   |                     |                                         |                              |                                                            |
| 2013595-1                  | Connector kit                        | KLBUE<br>15-32_SC | JZSP-CVS06-<br>02-E | USB-A / Mini-USB<br>cable, length 2.5 m | JZSP-<br>CM3RRM0-<br>□□-E *5 | Communication Cable<br>with RJ45 Connector<br>on both ends |
| JZSP-CVH03-<br>□□-E-G7 *4  | Connector cable with<br>flying leads |                   |                     |                                         |                              |                                                            |
| -                          | -                                    |                   |                     |                                         |                              |                                                            |

# Safety for servo drives

200 V

SGDXS  
Single axis

| Servo drive   |                    | Advanced safety module |                                                  |              |
|---------------|--------------------|------------------------|--------------------------------------------------|--------------|
| Model         | Communication      | Model                  | Interface                                        | Mounting kit |
| SGDXS-□□□A00A | Analog Pulse       | SGDXS-OSA01A           | Digital I/O                                      | SGDXS-OZA01A |
| SGDXS-□□□AA0A | EtherCAT           | SGDXS-OSA01A           | Digital I/O                                      | SGDXS-OZA01A |
|               |                    | SGDXS-OSAA0A           | Safety over EtherCAT (FSoE)                      |              |
|               |                    | SGDXS-OSAA1A           | Safety over EtherCAT (FSoE),<br>with Digital I/O |              |
| SGDXS-□□□A40A | Mechatrolink-4/III | SGDXS-OSA01A           | Digital I/O                                      | SGDXS-OZA01A |

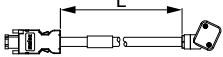
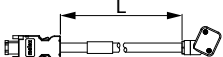
# Option modules for servo drives

SGDXS  
Single axis

| Servo drive   |                    | Option module  |                                                           |              |
|---------------|--------------------|----------------|-----------------------------------------------------------|--------------|
| Model         | Communication      | Model          | Interface                                                 | Mounting kit |
| SGDXS-□□□A00A | Analog Pulse       | SGDV-OFA01A    | Yaskawa Protocol                                          | SGDXS-OZA01A |
|               |                    | SGDV-OFB01A-G2 | Serial and Sin/Cos Encoder;<br>EnDat 2.1   2.2; Hiperface |              |
|               |                    | SGDV-OFB03A-G2 | Pulse A quad B Encoders                                   |              |
|               |                    | SGDV-OFB04A-G2 | Resolver                                                  |              |
| SGDXS-□□□AA0A | EtherCAT           | SGDV-OFA01A    | Yaskawa Protocol                                          | SGDXS-OZA01A |
|               |                    | SGDV-OFB01A-G2 | Serial and Sin/Cos Encoder;<br>EnDat 2.1   2.2; Hiperface |              |
|               |                    | SGDV-OFB03A-G2 | Pulse A quad B Encoders                                   |              |
|               |                    | SGDV-OFB04A-G2 | Resolver                                                  |              |
| SGDXS-□□□A40A | Mechatrolink-4/III | SGDV-OFA01A    | Yaskawa Protocol                                          | SGDXS-OZA01A |
|               |                    | SGDV-OFB01A-G2 | Serial and Sin/Cos Encoder;<br>EnDat 2.1   2.2; Hiperface |              |
|               |                    | SGDV-OFB03A-G2 | Pulse A quad B Encoders                                   |              |
|               |                    | SGDV-OFB04A-G2 | Resolver                                                  |              |

# Cables

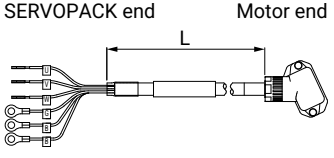
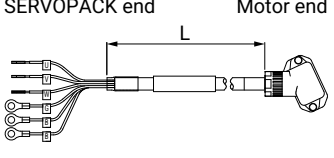
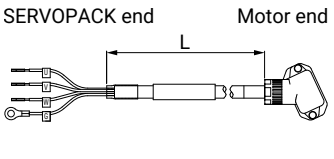
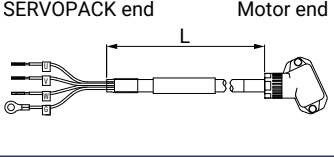
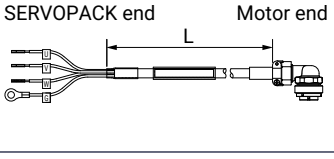
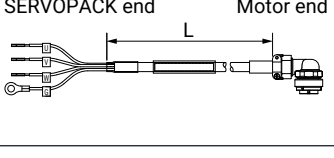
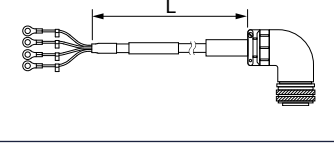
## Encoder cables

| Encoder cable     |        |                                                                         |                                                                                                                                                              |
|-------------------|--------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model             | Length | Specification                                                           | Appearance                                                                                                                                                   |
| JWSP-XP2IF1-03-G7 | 3 m    | For batteryless absolute encoder<br>Cable installed toward load         | SERVOPACK end      Encoder end<br>                                        |
| JWSP-XP2IF1-05-G7 | 5 m    |                                                                         |                                                                                                                                                              |
| JWSP-XP2IF1-10-G7 | 10 m   |                                                                         |                                                                                                                                                              |
| JWSP-XP2IF1-15-G7 | 15 m   |                                                                         |                                                                                                                                                              |
| JWSP-XP2IF1-20-G7 | 20 m   |                                                                         |                                                                                                                                                              |
| JWSP-XP2IF2-03-G7 | 3 m    | For batteryless absolute encoder<br>Cable installed away from load      | SERVOPACK end      Encoder end<br>                                        |
| JWSP-XP2IF2-05-G7 | 5 m    |                                                                         |                                                                                                                                                              |
| JWSP-XP2IF2-10-G7 | 10 m   |                                                                         |                                                                                                                                                              |
| JWSP-XP2IF2-15-G7 | 15 m   |                                                                         |                                                                                                                                                              |
| JWSP-XP2IF2-20-G7 | 20 m   |                                                                         |                                                                                                                                                              |
| JZSP-CSP12-E-G5   | 0.3 m  | Cable with battery case<br>(Required when an absolute encoder is used.) | SERVOPACK end      Encoder end<br><br>Battery unit<br>(battery included) |

\* On request.

# Cables

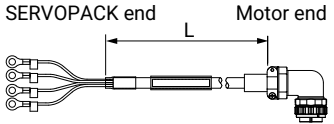
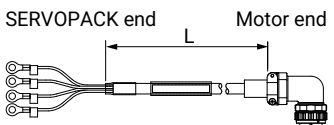
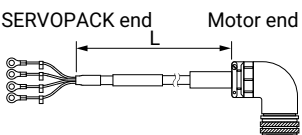
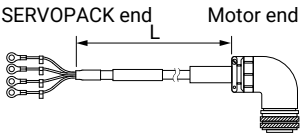
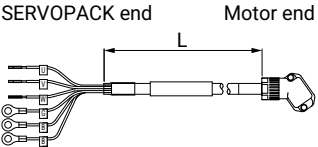
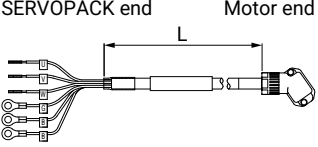
## Power cables

| Power cable        |        |                                                                             |                                                                                       |
|--------------------|--------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Model              | Length | Specification                                                               | Appearance                                                                            |
| JWSP-XM08BF1-03-M7 | 3 m    | For servo motors with holding brakes<br>Cable installed toward load         |    |
| JWSP-XM08BF1-05-M7 | 5 m    |                                                                             |                                                                                       |
| JWSP-XM08BF1-10-M7 | 10 m   |                                                                             |                                                                                       |
| JWSP-XM08BF1-15-M7 | 15 m   |                                                                             |                                                                                       |
| JWSP-XM08BF1-20-M7 | 20 m   |                                                                             |                                                                                       |
| JWSP-XM08BF2-03-M7 | 3 m    | For servo motors with holding brakes<br>Cable installed away from load *    |    |
| JWSP-XM08BF2-05-M7 | 5 m    |                                                                             |                                                                                       |
| JWSP-XM08BF2-10-M7 | 10 m   |                                                                             |                                                                                       |
| JWSP-XM08BF2-15-M7 | 15 m   |                                                                             |                                                                                       |
| JWSP-XM08BF2-20-M7 | 20 m   |                                                                             |                                                                                       |
| JWSP-XM08NF1-03-M7 | 3 m    | For servo motors without holding brakes<br>Cable installed toward load      |   |
| JWSP-XM08NF1-05-M7 | 5 m    |                                                                             |                                                                                       |
| JWSP-XM08NF1-10-M7 | 10 m   |                                                                             |                                                                                       |
| JWSP-XM08NF1-15-M7 | 15 m   |                                                                             |                                                                                       |
| JWSP-XM08NF1-20-M7 | 20 m   |                                                                             |                                                                                       |
| JWSP-XM08NF2-03-M7 | 3 m    | For servo motors without holding brakes<br>Cable installed away from load * |  |
| JWSP-XM08NF2-05-M7 | 5 m    |                                                                             |                                                                                       |
| JWSP-XM08NF2-10-M7 | 10 m   |                                                                             |                                                                                       |
| JWSP-XM08NF2-15-M7 | 15 m   |                                                                             |                                                                                       |
| JWSP-XM08NF2-20-M7 | 20 m   |                                                                             |                                                                                       |
| JWSP-XM15NFL-03-D7 | 3 m    | For servo motors<br>with or without holding brakes<br>Right-angle plug      |  |
| JWSP-XM15NFL-05-D7 | 5 m    |                                                                             |                                                                                       |
| JWSP-XM15NFL-10-D7 | 10 m   |                                                                             |                                                                                       |
| JWSP-XM15NFL-15-D7 | 15 m   |                                                                             |                                                                                       |
| JWSP-XM15NFL-20-D7 | 20 m   |                                                                             |                                                                                       |
| JWSP-XM15NFL-03-G7 | 3 m    | For servo motors<br>with or without holding brakes<br>Right-angle plug      |  |
| JWSP-XM15NFL-05-G7 | 5 m    |                                                                             |                                                                                       |
| JWSP-XM15NFL-10-G7 | 10 m   |                                                                             |                                                                                       |
| JWSP-XM15NFL-15-G7 | 15 m   |                                                                             |                                                                                       |
| JWSP-XM15NFL-20-G7 | 20 m   |                                                                             |                                                                                       |
| JWSP-XM1ANFL-03-D7 | 3 m    | For servo motors<br>with or without holding brakes<br>Right-angle plug      |  |
| JWSP-XM1ANFL-05-D7 | 5 m    |                                                                             |                                                                                       |
| JWSP-XM1ANFL-10-D7 | 10 m   |                                                                             |                                                                                       |
| JWSP-XM1ANFL-15-D7 | 15 m   |                                                                             |                                                                                       |
| JWSP-XM1ANFL-20-D7 | 20 m   |                                                                             |                                                                                       |

\* On request.

# Cables

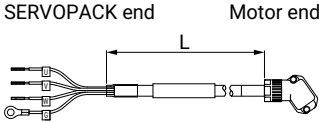
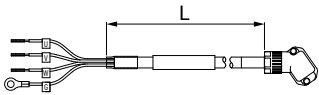
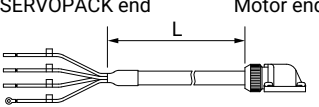
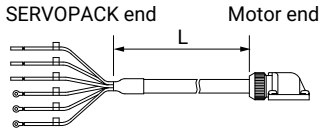
## Power cables

| Power cable        |        |                                                                          |                                                                                                                                    |
|--------------------|--------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Model              | Length | Specification                                                            | Appearance                                                                                                                         |
| JWSP-XM20NFL-03-D7 | 3 m    | For servo motors<br>with or without holding brakes<br>Right-angle plug   |  <p>SERVOPACK end      Motor end</p> <p>L</p>   |
| JWSP-XM20NFL-05-D7 | 5 m    |                                                                          |                                                                                                                                    |
| JWSP-XM20NFL-10-D7 | 10 m   |                                                                          |                                                                                                                                    |
| JWSP-XM20NFL-15-D7 | 15 m   |                                                                          |                                                                                                                                    |
| JWSP-XM20NFL-20-D7 | 20 m   |                                                                          |                                                                                                                                    |
| JWSP-XM30NFL-03-D7 | 3 m    | For servo motors<br>with or without holding brakes<br>Right-angle plug   |  <p>SERVOPACK end      Motor end</p> <p>L</p>   |
| JWSP-XM30NFL-05-D7 | 5 m    |                                                                          |                                                                                                                                    |
| JWSP-XM30NFL-10-D7 | 10 m   |                                                                          |                                                                                                                                    |
| JWSP-XM30NFL-15-D7 | 15 m   |                                                                          |                                                                                                                                    |
| JWSP-XM30NFL-20-D7 | 20 m   |                                                                          |                                                                                                                                    |
| JWSP-XM55NFL-03-D7 | 3 m    | For servo motors<br>with or without holding brakes<br>Right-angle plug   |  <p>SERVOPACK end      Motor end</p> <p>L</p>  |
| JWSP-XM55NFL-05-D7 | 5 m    |                                                                          |                                                                                                                                    |
| JWSP-XM55NFL-10-D7 | 10 m   |                                                                          |                                                                                                                                    |
| JWSP-XM55NFL-15-D7 | 15 m   |                                                                          |                                                                                                                                    |
| JWSP-XM55NFL-20-D7 | 20 m   |                                                                          |                                                                                                                                    |
| JWSP-XM5BNFL-03-D7 | 3 m    | For servo motors<br>with or without holding brakes<br>Right-angle plug   |  <p>SERVOPACK end      Motor end</p> <p>L</p> |
| JWSP-XM5BNFL-05-D7 | 5 m    |                                                                          |                                                                                                                                    |
| JWSP-XM5BNFL-10-D7 | 10 m   |                                                                          |                                                                                                                                    |
| JWSP-XM5BNFL-15-D7 | 15 m   |                                                                          |                                                                                                                                    |
| JWSP-XM5BNFL-20-D7 | 20 m   |                                                                          |                                                                                                                                    |
| JWSP-XMA5BF1-03-M7 | 3 m    | For servo motors with holding brakes<br>Cable installed toward load      |  <p>SERVOPACK end      Motor end</p> <p>L</p> |
| JWSP-XMA5BF1-05-M7 | 5 m    |                                                                          |                                                                                                                                    |
| JWSP-XMA5BF1-10-M7 | 10 m   |                                                                          |                                                                                                                                    |
| JWSP-XMA5BF1-15-M7 | 15 m   |                                                                          |                                                                                                                                    |
| JWSP-XMA5BF1-20-M7 | 20 m   |                                                                          |                                                                                                                                    |
| JWSP-XMA5BF2-03-M7 | 3 m    | For servo motors with holding brakes<br>Cable installed away from load * |  <p>SERVOPACK end      Motor end</p> <p>L</p> |
| JWSP-XMA5BF2-05-M7 | 5 m    |                                                                          |                                                                                                                                    |
| JWSP-XMA5BF2-10-M7 | 10 m   |                                                                          |                                                                                                                                    |
| JWSP-XMA5BF2-15-M7 | 15 m   |                                                                          |                                                                                                                                    |
| JWSP-XMA5BF2-20-M7 | 20 m   |                                                                          |                                                                                                                                    |

\* On request.

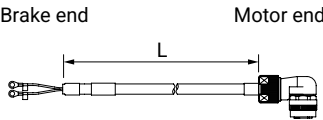
# Cables

## Power cables

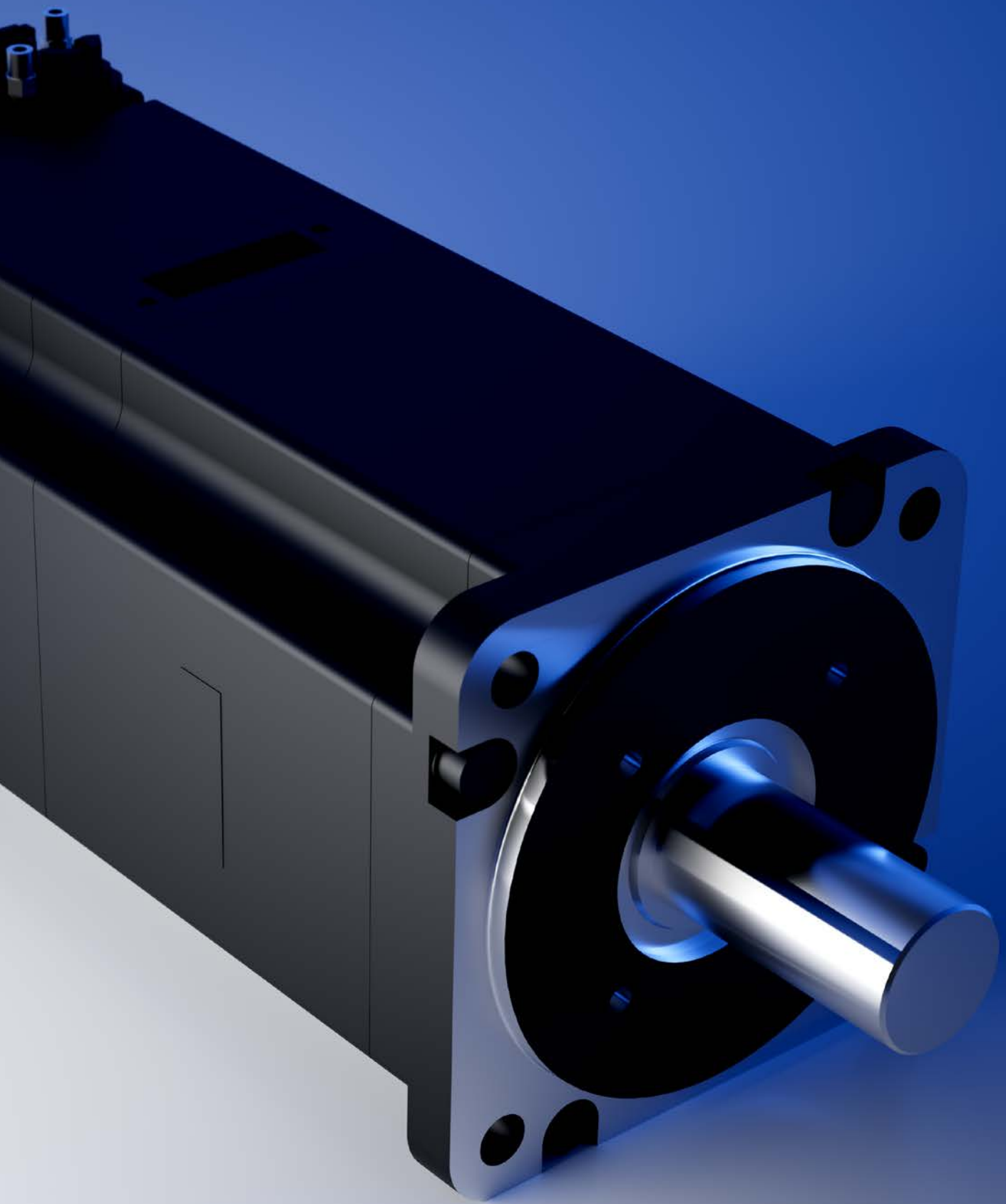
| Power cable        |        |                                                                             |                                                                                       |
|--------------------|--------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Model              | Length | Specification                                                               | Appearance                                                                            |
| JWSP-XMA5NF1-03-M7 | 3 m    | For servo motors without holding brakes<br>Cable installed toward load      |    |
| JWSP-XMA5NF1-05-M7 | 5 m    |                                                                             |                                                                                       |
| JWSP-XMA5NF1-10-M7 | 10 m   |                                                                             |                                                                                       |
| JWSP-XMA5NF1-15-M7 | 15 m   |                                                                             |                                                                                       |
| JWSP-XMA5NF1-20-M7 | 20 m   |                                                                             |                                                                                       |
| JWSP-XMA5NF2-03-M7 | 3 m    | For servo motors without holding brakes<br>Cable installed away from load * |    |
| JWSP-XMA5NF2-05-M7 | 5 m    |                                                                             |                                                                                       |
| JWSP-XMA5NF2-10-M7 | 10 m   |                                                                             |                                                                                       |
| JWSP-XMA5NF2-15-M7 | 15 m   |                                                                             |                                                                                       |
| JWSP-XMA5NF2-20-M7 | 20 m   |                                                                             |                                                                                       |
| JZSP-CVM21-03-E-G7 | 3 m    | For servo motors without holding brakes                                     |   |
| JZSP-CVM21-05-E-G7 | 5 m    |                                                                             |                                                                                       |
| JZSP-CVM21-10-E-G7 | 10 m   |                                                                             |                                                                                       |
| JZSP-CVM21-15-E-G7 | 15 m   |                                                                             |                                                                                       |
| JZSP-CVM21-20-E-G7 | 20 m   |                                                                             |                                                                                       |
| JZSP-CVM41-03-E-G7 | 3 m    | For servo motors with holding brakes                                        |  |
| JZSP-CVM41-05-E-G7 | 5 m    |                                                                             |                                                                                       |
| JZSP-CVM41-10-E-G7 | 10 m   |                                                                             |                                                                                       |
| JZSP-CVM41-15-E-G7 | 15 m   |                                                                             |                                                                                       |
| JZSP-CVM41-20-E-G7 | 20 m   |                                                                             |                                                                                       |

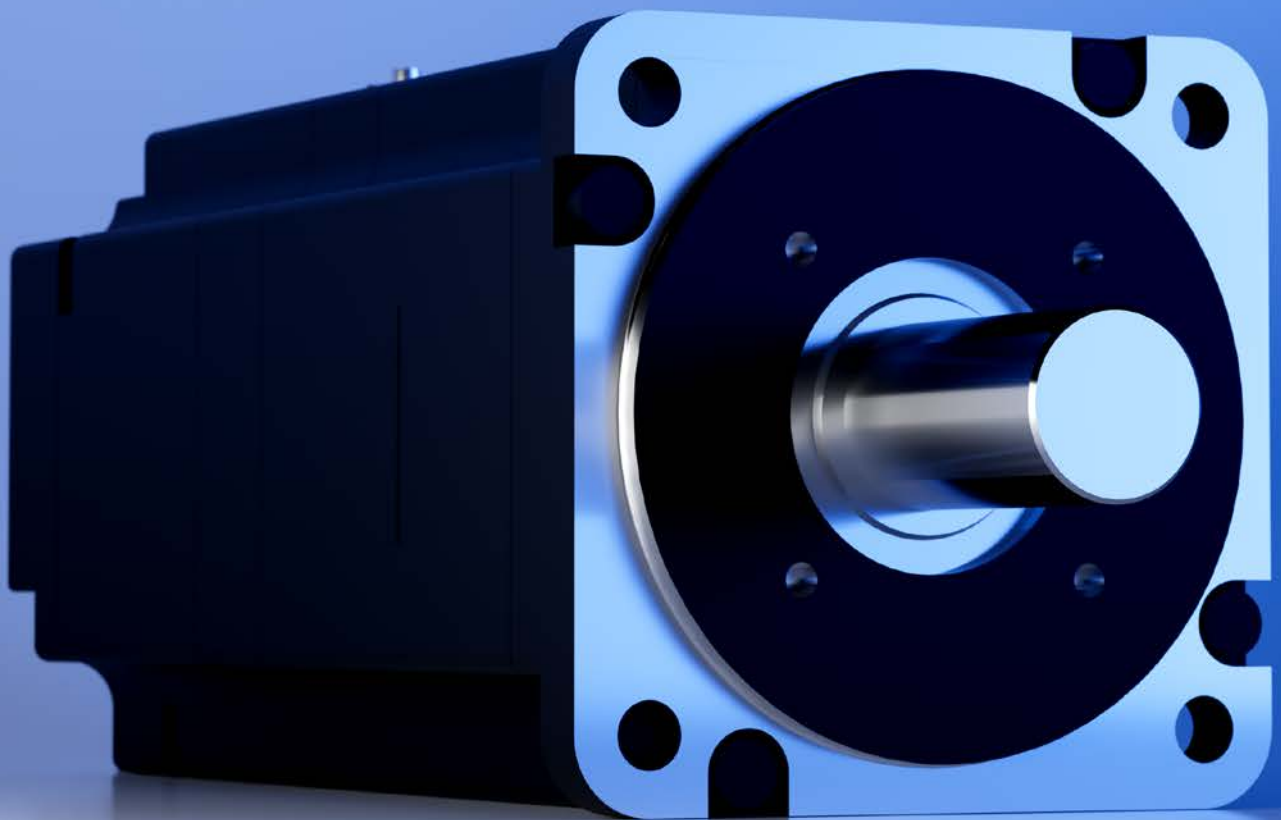
# Cables

Brake  
cables

| Brake cable      |        |                     |                                                                                     |
|------------------|--------|---------------------|-------------------------------------------------------------------------------------|
| Model            | Length | Specification       | Appearance                                                                          |
| JWSP-XB0FL-03-G7 | 3 m    | Holding brake cable |  |
| JWSP-XB0FL-05-G7 | 5 m    |                     |                                                                                     |
| JWSP-XB0FL-10-G7 | 10 m   |                     |                                                                                     |
| JWSP-XB0FL-15-G7 | 15 m   |                     |                                                                                     |
| JWSP-XB0FL-20-G7 | 20 m   |                     |                                                                                     |









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YEU\_MuC\_Sigma-X\_SalesCat | EN | v3

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