# Ratings and Specifications

## Single-winding Motor

| Items | | Model: UAKAJ-□□C (200 V), -□□C□□□□E (400 V) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 04 | 06 | 08 | 11 | 15 | 19 | 22 | 30*2 | 37*2 | 45*2 |
| 50% ED Rating (S3)*1 | kW | 3.7 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 30 | 37 | 45 |
| Continuous Rating (S1) | kW | 2.2 | 3.7 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 30 | 37 |
| Continuous Rated Torque | N·m | 14 | 24 | 35 | 48 | 70 | 96 | 118 | 183 | 249 | 307 |
| Base Speed | $min^{-1}$ | 1500 | | | | | | | 1150 | | |
| Maximum Speed | $min^{-1}$ | 10000 | | | | 7000 | | | 6000 | | 5000 |
| Moment of Inertia | $\times 10^{-3}$ $kg{\cdot}m^2$ | 7.1 | 14.0 | 21.0 | 25.0 | 69.0 | 69.0 | 89.0 | 231 | 266 | 398 |
| Vibration | | V5 | | | | | | | | | V10 |
| Noise | dB (A) | 75 or less | | | | | | | 80 or less | | |
| Cooling Method | | Totally enclosed, external fan cooled | | | | | | | | | |
| Protection Class | | IP44 (IEC34-5) | | | | | | | | | |
| Cooling Fan Motor | | Equipped with thermostat (automatic reset)<br>200 V class:<br>Three-phase 200 V 50/60 Hz, 220 V 50/60 Hz, 230 V 60 Hz<br>400 V class:<br>Three-phase 400 V 50/60 Hz, 440 V 50/60 Hz, 460 V 60 Hz | | | | | | | | | |
| Encoder (Magnetic) | | Pulse encoder (1024 p/r) | | | | | | | | | |
| Overheating Protection | | NTC thermistor | | | | | | | | | |
| Installation | | Flange type:<br>IM B5, IM V1 (motor shaft from horizontal to vertically down)<br>Foot-mounted type:<br>IM B3 (installed on floor) | | | | | | | | | |
| Overload Capacity | | 200% of continuous rated (S1) output for 10 s<br>(UAKAJ-08, -37: 180% of continuous rated (S1) output for 10 s) | | | | | | | | | |
| Thermal Class | | F | | | | | | | | | |
| Withstand Voltage | | 200 V class: 1500 VAC for one minute<br>400 V class: 1800 VAC for one minute | | | | | | | | | |
| Insulation Resistance | | 500 VDC 10 MΩ minimum | | | | | | | | | |
| Surrounding Air Temperature and Surrounding Air Humidity | | 0°C to 40°C, 20% to 80% RH (no condensation) | | | | | | | | | |
| Altitude | | 1000 m or less | | | | | | | | | |
| Bearing Lubrication | | Grease | | | | | | | | | |
| Paint Color | | Munsell N1.5 | | | | | | | | | |
| Compliant Standards | | JIS, JEC | | | | | | | | | |
| Applicable SERVOPACK CACR-JU□□□ | Three-phase 200 VAC | 028A | 028A | 036A | 065A | 065A | 084A | 102A | 125A | 196A | 196A |
| | Three-phase 400 VAC | 014D | 014D | 018D | 033D | 033D | 042D | 051D | – | – | – |

*1. The 50% ED rating (S3) is for a 10 minute cycle consisting of 5 minutes of operation and 5 minutes stopped.

*2. Available only for three-phase, 200 VAC models.

## Winding Selection Motor

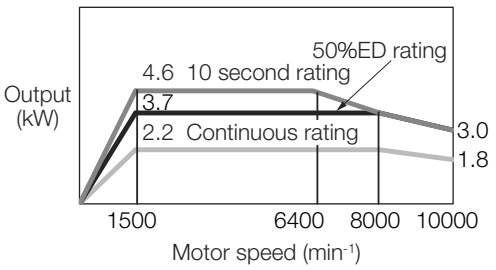
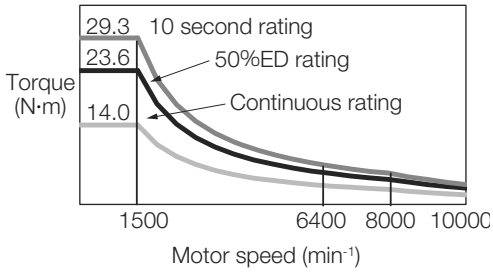
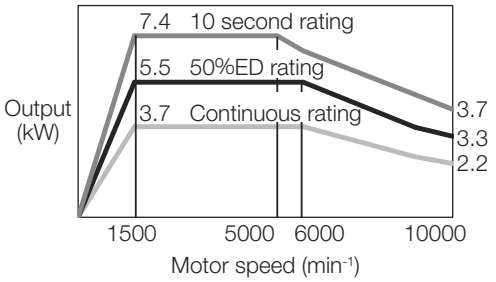
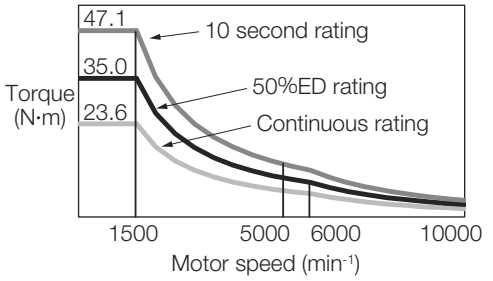
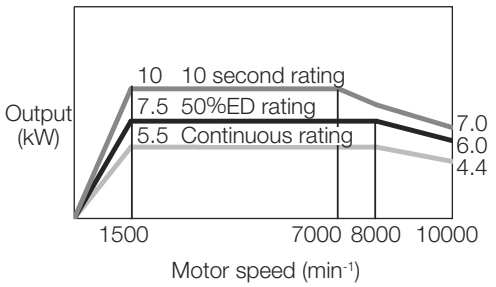
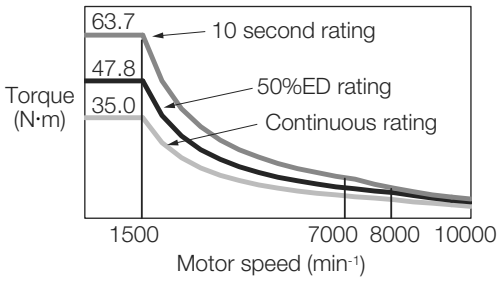
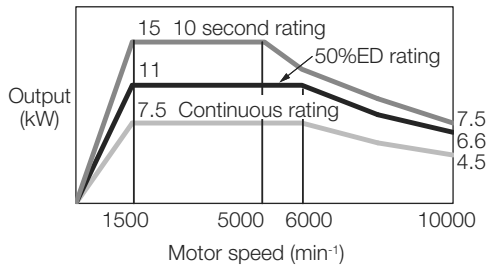
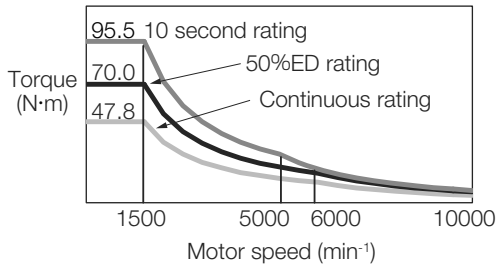
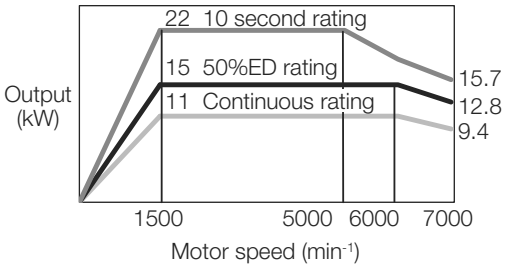
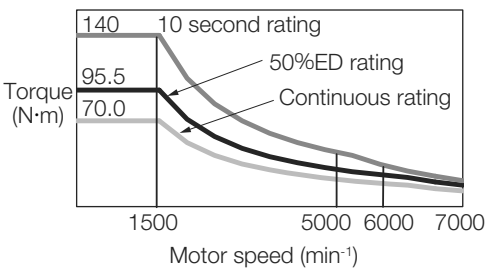
| Items | | Model: UAKBJ-□□C (200 V), -□□C□□□□E (400 V) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 06 | 08 | 11 | 15 | 19 | 22 | 30*2 |
| 50% ED Rating (S3)*1 | kW | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 30 |
| Continuous Rating (S1) | kW | 3.7 | 5.5 | 7.5 | 11 | 15 | 18.5 | 20 |
| Continuous Rated Torque | N·m | 71 | 105 | 143 | 263 | 249 | 307 | 332 |
| Base Speed | $min^{-1}$ | 500 | | | 400 | 575 | | |
| Maximum Speed | $min^{-1}$ | 7000 | | | 6000 | | | 5000 |
| Moment of Inertia | $\times 10^{-3}$ kg·$m^2$ | 69.0 | 69.0 | 89.0 | 231.0 | 231.0 | 266.0 | 398.0 |
| Vibration | | V5 | | | | | | V10 |
| Noise | dB (A) | 75 or less | | | 80 or less | | | |
| Cooling Method | | Totally enclosed, external fan cooled | | | | | | |
| Protection Class | | IP44 (IEC34-5) | | | | | | |
| Cooling Fan Motor | | Equipped with thermostat (automatic reset)<br>200 V class:<br>Three-phase 200 V 50/60 Hz, 220 V 50/60 Hz, 230 V 60 Hz<br>400 V class:<br>Three-phase 400 V 50/60 Hz, 440 V 50/60 Hz, 460 V 60 Hz | | | | | | |
| Encoder (Magnetic) | | Pulse encoder (1024 p/r) | | | | | | |
| Overheating Protection | | NTC thermistor | | | | | | |
| Installation | | Flange type:<br>IM B5, IM V1 (motor shaft from horizontal to vertically down)<br>Foot-mounted type:<br>IM B3 (installed on floor) | | | | | | |
| Overload Capacity | | 200% of continuous rated (S1) output for 10 s | | | | | | |
| Thermal Class | | F | | | | | | |
| Withstand Voltage | | 200 V class: 1500 VAC for one minute<br>400 V class: 1800 VAC for one minute | | | | | | |
| Insulation Resistance | | 500 VDC 10 MΩ min. | | | | | | |
| Surrounding Air Temperature and Surrounding Air Humidity | | 0°C to 40°C, 20% to 80% RH (no condensation) | | | | | | |
| Altitude | | 1000 m or less | | | | | | |
| Bearing Lubrication | | Grease | | | | | | |
| Paint Color | | Munsell N1.5 | | | | | | |
| Compliant Standards | | JIS, JEC | | | | | | |
| Applicable SERVOPACK CACR-JU□□□ | Three-phase 200 VAC | 028A | 036A | 065A | 065A | 084A | 102A | 125A |
| | Three-phase 400 VAC | 014D | 018D | 033D | 033D | 042D | 051D | – |

*1. The 50% ED rating (S3) is for a 10 minute cycle consisting of 5 minutes of operation and 5 minutes stopped.

*2. Available only for three-phase, 200 VAC models.

# Output and Torque Characteristics

## Single-winding Motors

| Model UAKAJ- | Output Characteristics | Torque Characteristics |
|---|---|---|
| 04C |  |  |
| 06C |  |  |
| 08C |  |  |
| 11C |  |  |
| 15C |  |  |

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| Model UAKAJ- | Output Characteristics | Torque Characteristics |
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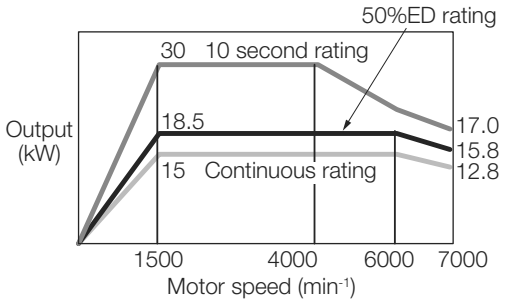
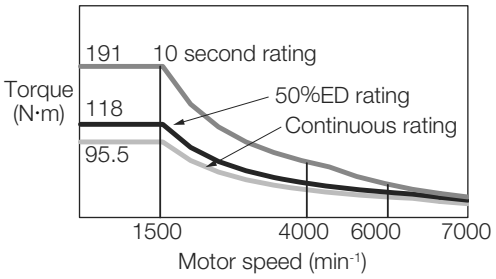
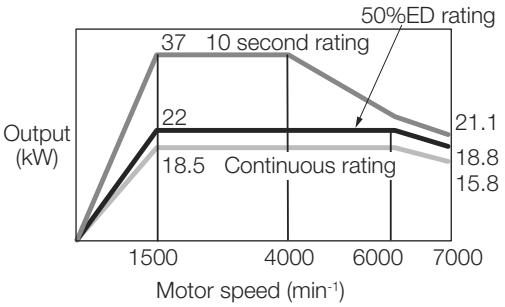
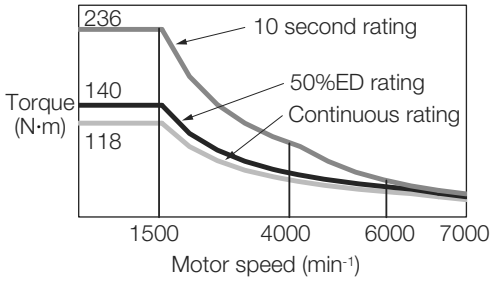
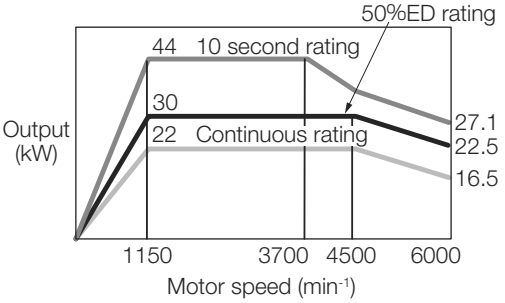
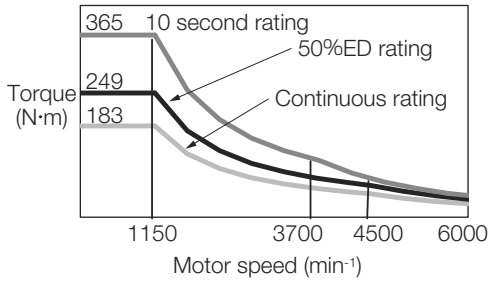
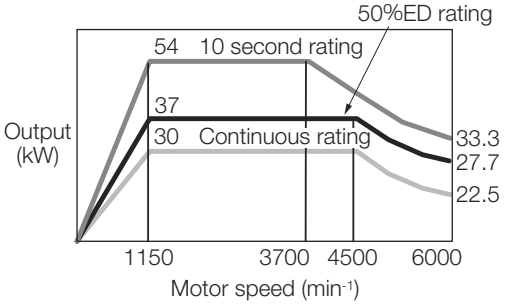
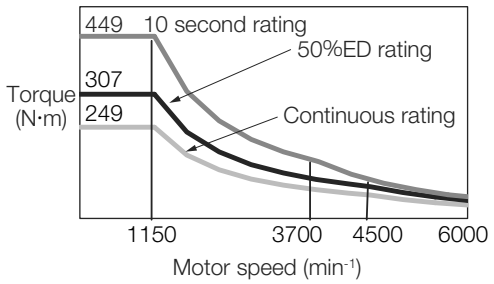
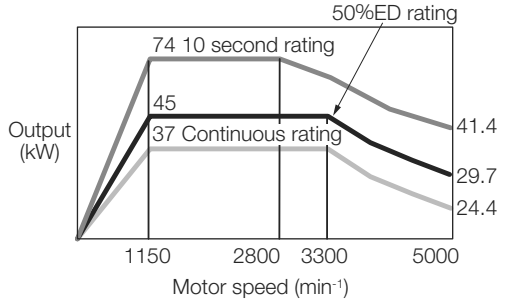
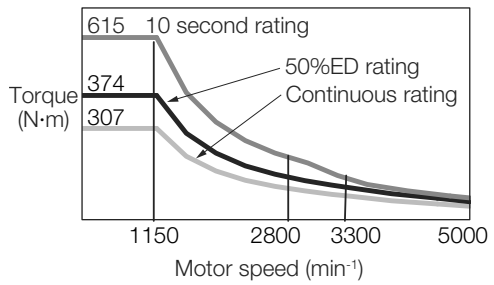
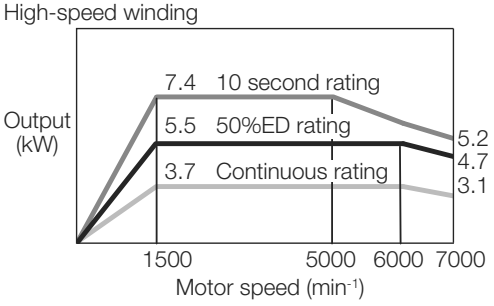
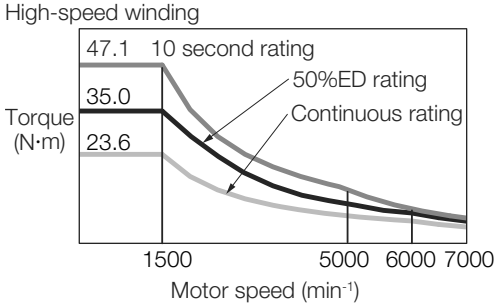
| 19C |  |  |
| 22C |  |  |
| 30C |  |  |
| 37C |  |  |
| 45C |  |  |

# Winding Selection Motors

<table>
<tr><th>Model<br>UAKBJ-</th><th>Output Characteristics</th><th>Torque Characteristics</th></tr>
<tr><td rowspan="2">06C</td><td>High-speed winding<br> 
</td><td>High-speed winding<br> 
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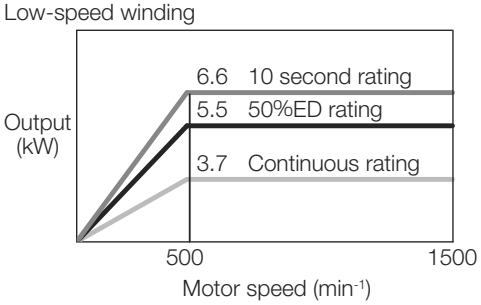
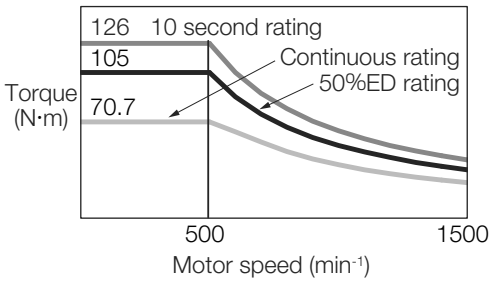
<tr><td>Low-speed winding<br> 
</td><td>Low-speed winding<br> 
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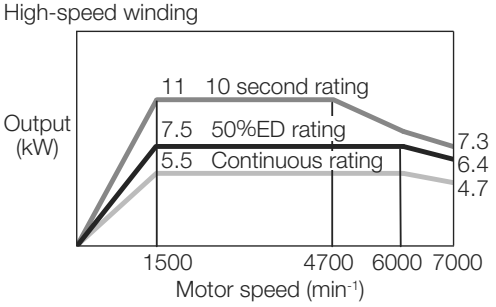
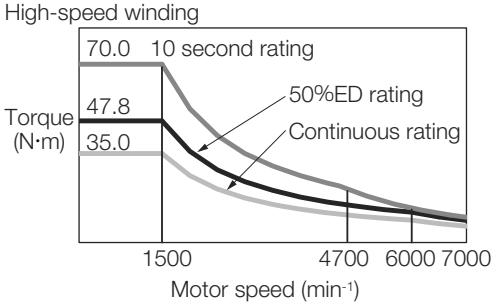
<tr><td rowspan="2">08C</td><td>High-speed winding<br> 
</td><td>High-speed winding<br> 
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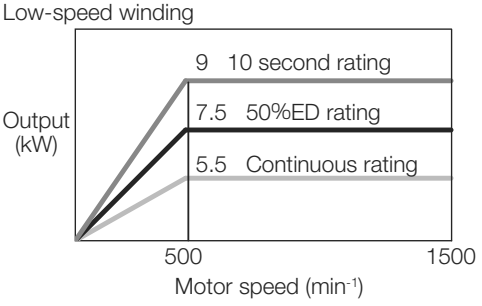
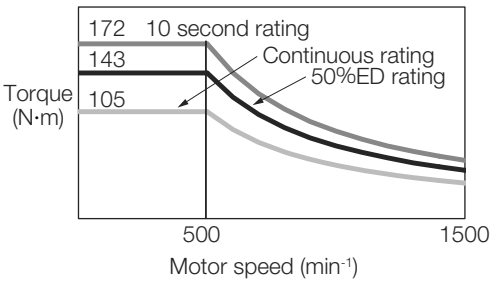
<tr><td>Low-speed winding<br> 
</td><td>Low-speed winding<br> 
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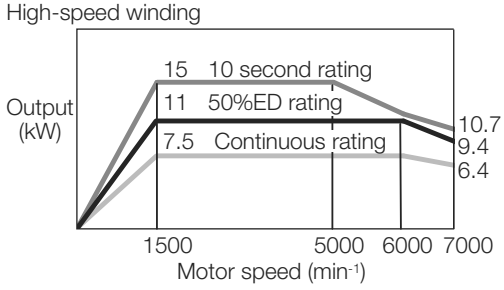
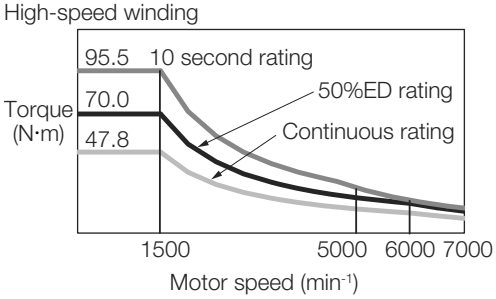
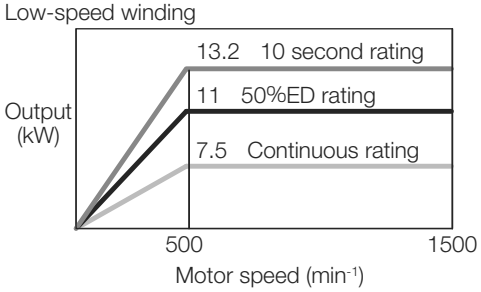
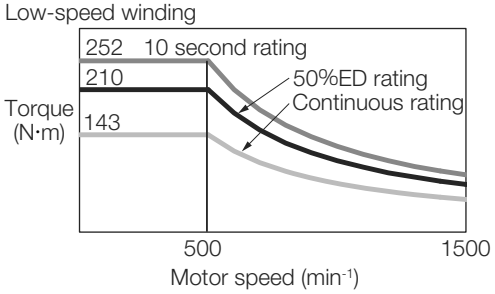
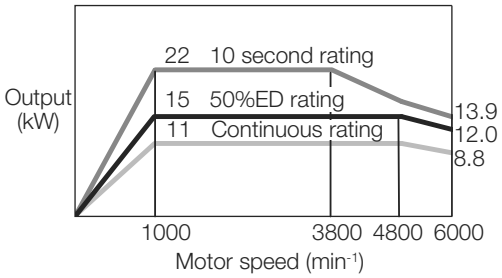
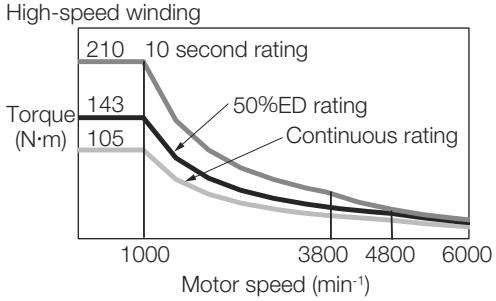
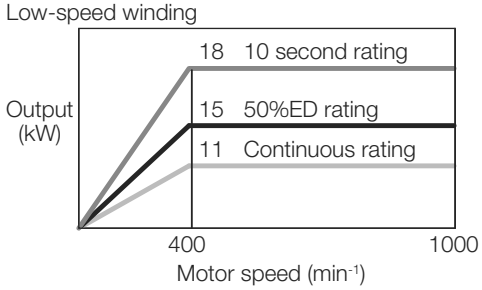
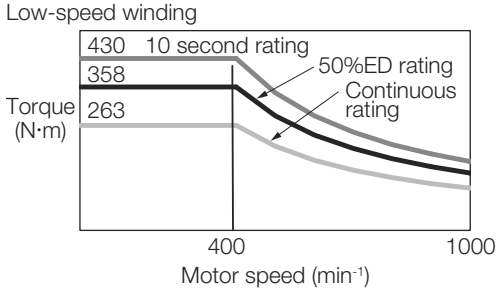
| Model UAKBJ- | Output Characteristics | Torque Characteristics |
|---|---|---|
| 11C | High-speed winding<br>  | High-speed winding<br>  |
| | Low-speed winding<br>  | Low-speed winding<br>  |
| 15C | High-speed winding<br>  | High-speed winding<br>  |
| | Low-speed winding<br>  | Low-speed winding<br>  |

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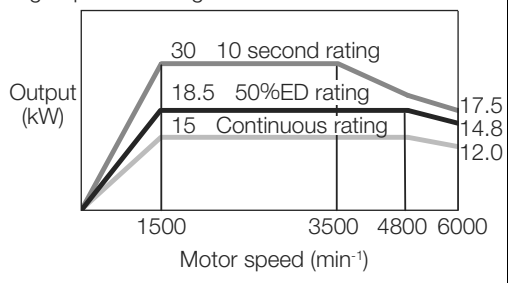
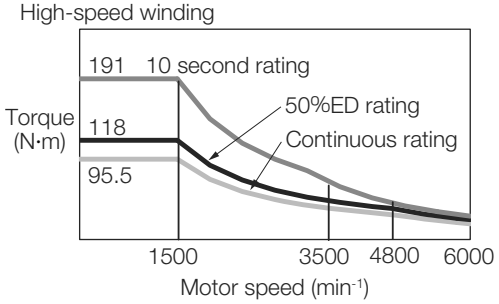
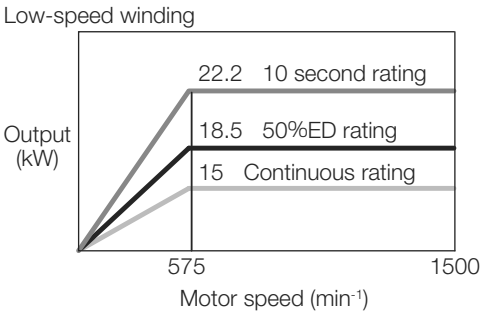
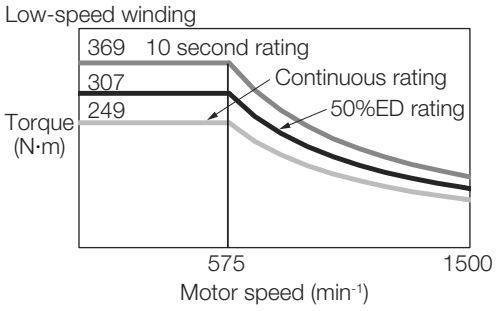
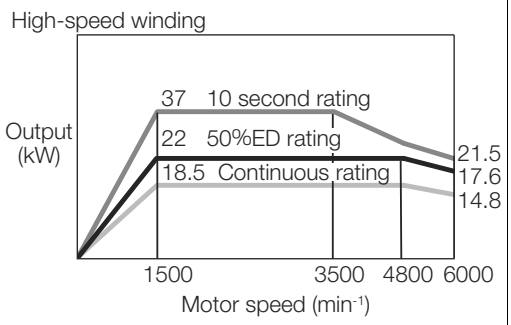
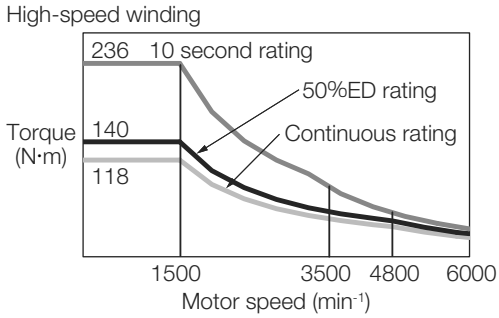
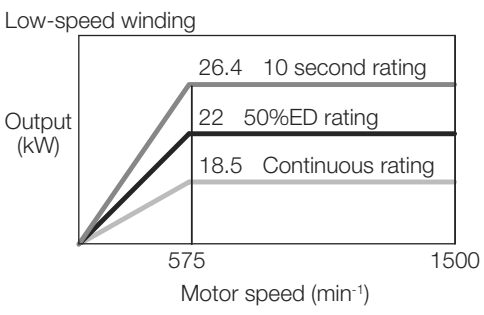
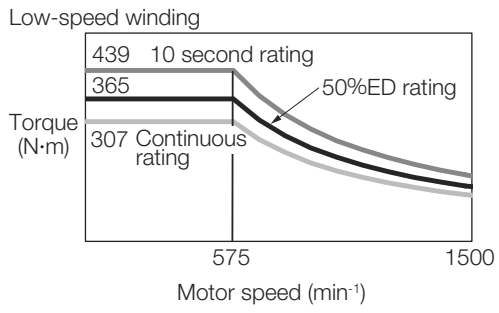
| Model UAKBJ- | Output Characteristics | Torque Characteristics |
|---|---|---|
| 19C | High-speed winding<br>  | High-speed winding<br>  |
| | Low-speed winding<br>  | Low-speed winding<br>  |
| 22C | High-speed winding<br>  | High-speed winding<br>  |
| | Low-speed winding<br>  | Low-speed winding<br>  |

Continued on next page.

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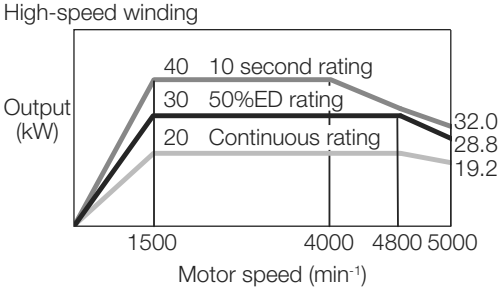
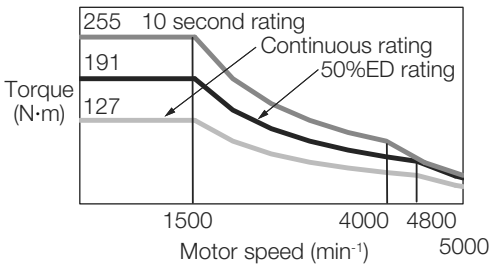
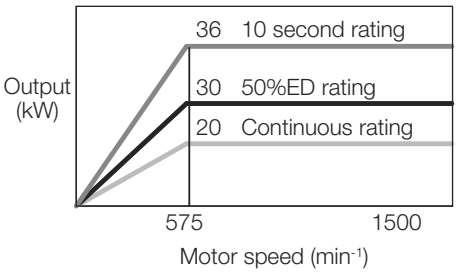
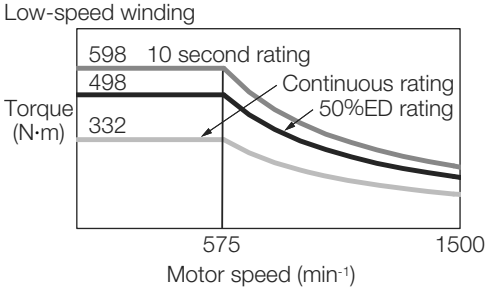
| Model UAKBJ- | Output Characteristics | Torque Characteristics |
|---|---|---|
| 30C | High-speed winding<br>  | High-speed winding<br>  |
| | Low-speed winding<br>  | Low-speed winding<br>  |

# Tolerance Radial Loads

| Model: UAKAJ-, UAKBJ- | Rated Output (kW) 50%ED Rating/ Continuous Rating | Tolerance Radial Load (N) | |
|---|---|---|---|
| | | Single-winding Motor Model: UAKAJ-□□C | Winding Selection Motor Model: UAKBJ-□□C |
| 04 | 3.7/2.2 | 1180 | – |
| 06 | 5.5/3.7 | 1180 | 2940 |
| 08 | 7.5/5.5 | 1470 | 2940 |
| 11 | 11/7.5 | 1470 | 3530 |
| 15 | 15/11 | 2940 | 4410 |
| 19 | 18.5/15 | 2940 | 4410 |
| 22 | 22/18.5 | 3530 | 4900 |
| 30*1 | 30/22*2 | 4410 | 5200 |
| 37*1 | 37/30 | 4900 | – |
| 45*1 | 45/37 | 5200 | – |

*1. Available only for three-phase, 200 VAC models.

*2. The rated output for the winding selection motor is 30/20 kW.

# Motor Total Indicator Readings

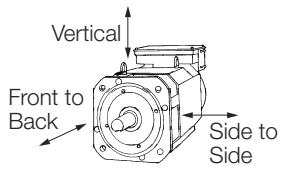
## Flange Type

| Item | Model | | Accuracy |
|---|---|---|---|
| | Single-winding Motor: UAKAJ-□□ | Winding Selection Motor: UAKBJ-□□ | |
| Perpendicularity of the flange face to the motor shaft | 04 to 22 | 06 to 11 | 0.04 mm |
| | 30, 37 | 15 | 0.06 mm |
| | 45 | 19 to 30 | 0.072 mm |
| Concentricity of the flange mating part to the motor shaft | 04 to 11 | – | 0.04 mm |
| | 15 to 22 | 06 to 11 | 0.046 mm |
| | 30, 37 | 15 | 0.048 mm |
| | 45 | 19 to 30 | 0.070 mm |
| Axial runout of the motor shaft | 04 to 08 | – | 0.02 mm |
| | 11 to 22 | 06 to 11 | 0.022 mm |
| | 30 to 45 | 15 to 30 | 0.028 mm |

## Foot-mounted Type

| Item | Model | | Accuracy |
|---|---|---|---|
| | Single-winding Motor: UAKAJ-□□ | Winding Selection Motor: UAKBJ-□□ | |
| Shaft Parallelism | 04 to 08 | – | 0.03 mm |
| | 11 to 22 | 06 to 11 | 0.033 mm |
| | 30 to 45 | 15 to 30 | 0.042 mm |
| Axial runout of the motor shaft | 04 to 08 | – | 0.02 mm |
| | 11 to 22 | 06 to 11 | 0.022 mm |
| | 30 to 45 | 15 to 30 | 0.028 mm |

# Vibration Resistance




Impact Applied to the Spindle Motor

The spindle motor will withstand the following vibration acceleration in three directions: Vertical, side to side, and front to back.

| Spindle Motor | | Vibration Acceleration at Flange | Vibration Frequency | |
|---|---|---|---|---|
| Winding System | Model | | Constant Amplitude | Constant Acceleration |
| Single Winding | UAKAJ-04 to -22 | 24.5 $m/s^2$ | 10 Hz to 60 Hz | 6 Hz to 2500 Hz |
| | UAKAJ-30, -37 | 19.6 $m/s^2$ | | |
| | UAKAJ-45 | 4.9 $m/s^2$ | | |
| Winding Selection | UAKBJ-06, -08, -11 | 24.5 $m/s^2$ | | |
| | UAKBJ-15 to -22 | 19.6 $m/s^2$ | | |
| | UAKBJ-30 | 4.9 $m/s^2$ | | |

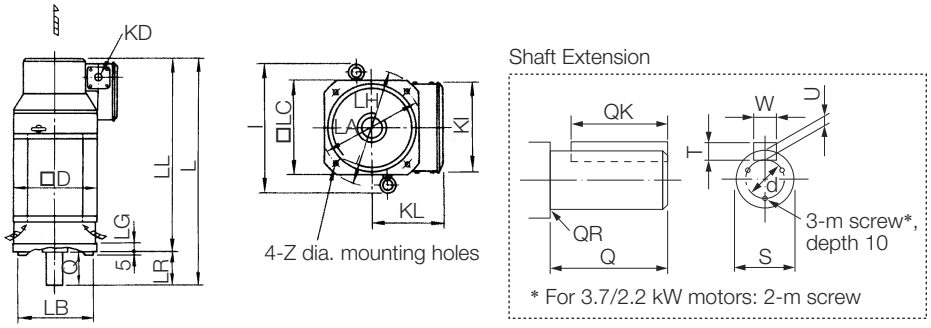
Important

The amount of vibration the spindle motor endures will vary depending on the application. Check the vibration acceleration being applied to your motor for each application.

# External Dimensions

## Single-winding Motors

### ◆ Flange type




Unit: mm

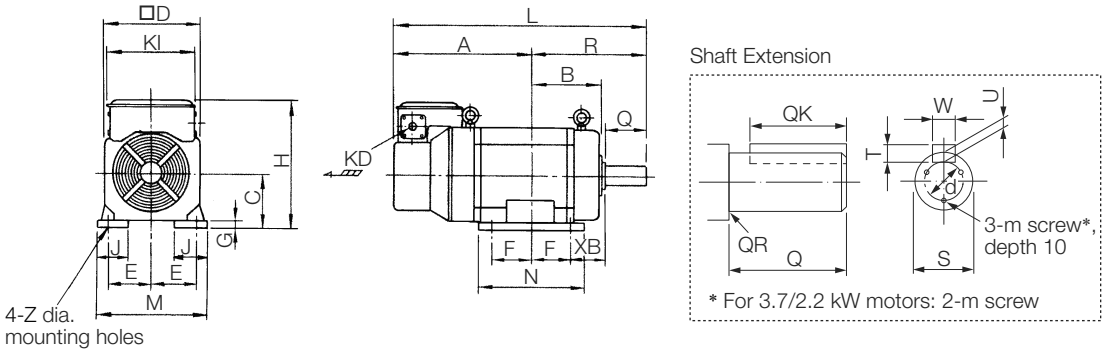
| Model UAKAJ- | L | LA | LB | LC | LG | LH | LL | LR | Z | D | I | KD | KL | KI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04 | 375 | 185 | $150^{0}_{-0.04}$ | 174 | 12 | 220 | 315 | 60 | 11 | 174 | – | 34 | 142 | 174 |
| 06 | 467 | 185 | $150^{0}_{-0.04}$ | 174 | 12 | 220 | 407 | 60 | 11 | 174 | – | 34 | 142 | 174 |
| 08 | 496 | 215 | $180^{0}_{-0.04}$ | 204 | 16 | 250 | 416 | 80 | 15 | 204 | 270 | 42.5 | 158 | 207 |
| 11 | 556 | 215 | $180^{0}_{-0.04}$ | 204 | 16 | 250 | 446 | 110 | 15 | 204 | 270 | 42.5 | 158 | 207 |
| 15 | 568 | 265 | $230^{0}_{-0.046}$ | 250 | 20 | 300 | 458 | 110 | 15 | 260 | 343 | 42.5 | 181 | 250 |
| 19 | 568 | 265 | $230^{0}_{-0.046}$ | 250 | 20 | 300 | 458 | 110 | 15 | 260 | 343 | 42.5 | 181 | 250 |
| 22 | 632 | 265 | $230^{0}_{-0.046}$ | 250 | 20 | 300 | 522 | 110 | 15 | 260 | 343 | 42.5 | 181 | 250 |
| 30 | 769 | 350 | $300^{0}_{-0.052}$ | 320 | 20 | 385 | 629 | 140 | 19 | 320 | 440 | 61 | 227 | 320 |
| 37 | 809 | 350 | $300^{0}_{-0.052}$ | 320 | 20 | 385 | 669 | 140 | 19 | 320 | 440 | 61 | 227 | 320 |
| 45 | 797 | 400 | $350^{0}_{-0.057}$ | 370 | 22 | 450 | 657 | 140 | 24 | 380 | 504 | 61 | 315 | 388 |

| Model UAKAJ- | Shaft End Dimensions | | | | | | | | | Approx. Mass kg |
|---|---|---|---|---|---|---|---|---|---|---|
| | Q | QK | QR | S | T | U | W | d | m | |
| 04 | 60 | 45 | 1 | $28^{0.009}_{-0.004}$ | 7 | 4 | 8 | 16 | M6 | 29 |
| 06 | 60 | 45 | 1 | $28^{0}_{-0.013}$ | 7 | 4 | 8 | 22 | M4 | 47 |
| 08 | 80 | 70 | 2 | $32^{0}_{-0.016}$ | 8 | 5 | 10 | 22 | M5 | 52 |
| 11 | 110 | 90 | 0.5 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 59 |
| 15 | 110 | 90 | 1 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 94 |
| 19 | 110 | 90 | 1 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 94 |
| 22 | 110 | 90 | 1 | $55^{0.030}_{0.011}$ | 10 | 6 | 16 | 45 | M5 | 120 |
| 30 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 220 |
| 37 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 250 |
| 45 | 140 | 110 | 1 | $70^{0.030}_{0.011}$ | 12 | 7.5 | 20 | 60 | M6 | 310 |

Note: 1. The shaft key and the keyway are standard JIS B 1301-1996 models.

2. The figures are provided only to explain the dimensions. The actual appearance of the spindle motor may vary.

## ◆ Foot-mounted type




Unit: mm

| Model UAKAJ- | A | B | C | D | E | F | G | H | J | KD | L | M | N | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04 | 230 | 83 | $100^{0}_{-0.5}$ | 174 | 80 | 40 | 9 | 242 | 34 | 34 | 375 | 188 | 106 | 145 |
| 06 | 292 | 113 | $100^{0}_{-0.5}$ | 174 | 80 | 70 | 9 | 242 | 34 | 34 | 467 | 188 | 168 | 175 |
| 08 | 286 | 117 | $112^{0}_{-0.5}$ | 204 | 95 | 50 | 10 | 269 | 75 | 42.5 | 486 | 220 | 129 | 200 |
| 11 | 296 | 137 | $112^{0}_{-0.5}$ | 204 | 95 | 70 | 10 | 269 | 75 | 42.5 | 546 | 220 | 177 | 250 |
| 15 | 261 | 196 | $160^{0}_{-0.5}$ | 260 | 127 | 89 | 16 | 341 | 55 | 42.5 | 568 | 290 | 223 | 307 |
| 19 | 261 | 196 | $160^{0}_{-0.5}$ | 260 | 127 | 89 | 16 | 341 | 55 | 42.5 | 568 | 290 | 223 | 307 |
| 22 | 307 | 212 | $160^{0}_{-0.5}$ | 260 | 127 | 105 | 16 | 341 | 55 | 42.5 | 630 | 290 | 255 | 323 |
| 30 | 381 | 246 | $180^{0}_{-0.5}$ | 320 | 139.5 | 127 | 16 | 407 | 55 | 61 | 769 | 320 | 298 | 388 |
| 37 | 421 | 246 | $180^{0}_{-0.5}$ | 320 | 139.5 | 127 | 16 | 407 | 55 | 61 | 809 | 320 | 298 | 388 |
| 45 | 377 | 273 | $225^{0}_{-0.5}$ | 380 | 178 | 127 | 21 | 540 | 75 | 61 | 793 | 420 | 370 | 416 |

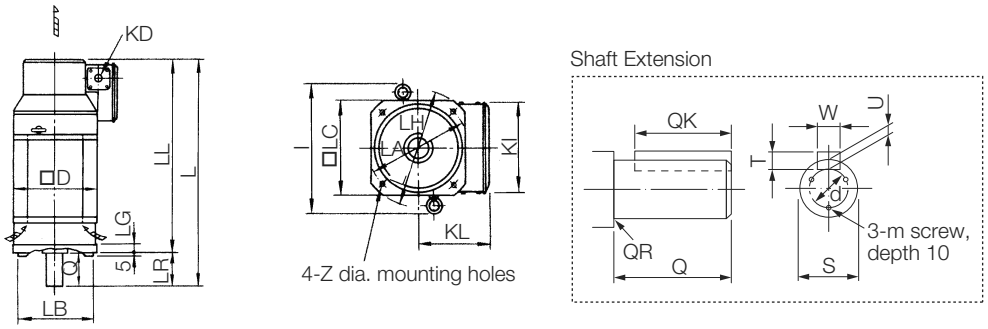
| Model UAKAJ- | XB | Z | KI | Shaft End Dimensions | | | | | | | | | Approx. Mass kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Q | QK | QR | S | T | U | W | d | m | |
| 04 | 45 | 12 | 174 | 60 | 45 | 1 | $28^{0.009}_{-0.004}$ | 7 | 4 | 8 | 16 | M6 | 30 |
| 06 | 45 | 12 | 174 | 60 | 45 | 1 | $28^{0}_{-0.013}$ | 7 | 4 | 8 | 22 | M4 | 49 |
| 08 | 70 | 12 | 207 | 80 | 70 | 2 | $32^{0}_{-0.016}$ | 8 | 5 | 10 | 22 | M5 | 56 |
| 11 | 70 | 12 | 207 | 110 | 90 | 0.5 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 64 |
| 15 | 108 | 15 | 250 | 110 | 90 | 1 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 110 |
| 19 | 108 | 15 | 250 | 110 | 90 | 1 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 110 |
| 22 | 108 | 15 | 250 | 110 | 90 | 1 | $55^{0.030}_{0.011}$ | 10 | 6 | 16 | 45 | M5 | 130 |
| 30 | 121 | 19 | 320 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 230 |
| 37 | 121 | 19 | 320 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 260 |
| 45 | 149 | 24 | 388 | 140 | 110 | 1 | $70^{0.030}_{0.011}$ | 12 | 7.5 | 20 | 60 | M6 | 320 |

Note: 1. The shaft key and the keyway are standard JIS B 1301-1996 models.

2. The figures are provided only to explain the dimensions. The actual appearance of the spindle motor may vary.

# Winding Selection Motors

## ◆ Flange type




Unit: mm

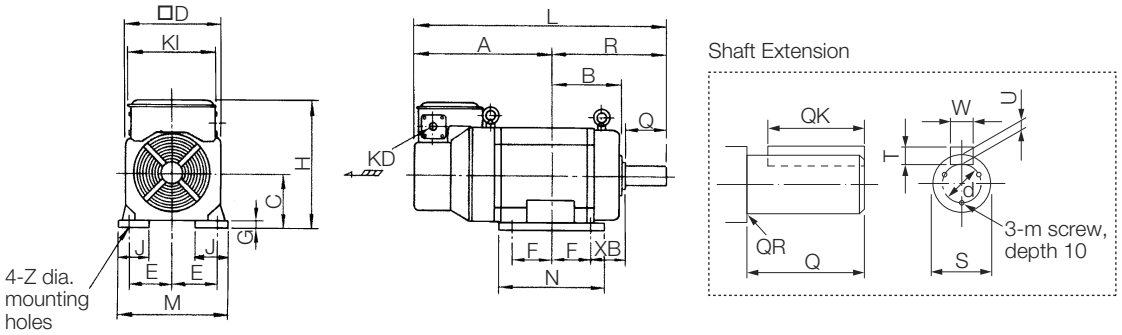
| Model UAKBJ- | L | LA | LB | LC | LG | LH | LL | LR | Z | D | I | KD | KL | KI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06 | 568 | 265 | $230^{0}_{-0.046}$ | 250 | 20 | 300 | 458 | 110 | 15 | 260 | 343 | 42.5 | 181 | 250 |
| 08 | 568 | 265 | $230^{0}_{-0.046}$ | 250 | 20 | 300 | 458 | 110 | 15 | 260 | 343 | 42.5 | 181 | 250 |
| 11 | 632 | 265 | $230^{0}_{-0.046}$ | 250 | 20 | 300 | 522 | 110 | 15 | 260 | 343 | 42.5 | 181 | 250 |
| 15 | 769 | 350 | $300^{0}_{-0.052}$ | 320 | 20 | 385 | 629 | 140 | 19 | 320 | 440 | 61 | 227 | 320 |
| 19 | 769 | 350 | $300^{0}_{-0.052}$ | 320 | 20 | 385 | 629 | 140 | 19 | 320 | 440 | 61 | 227 | 320 |
| 22 | 809 | 350 | $300^{0}_{-0.052}$ | 320 | 20 | 385 | 669 | 140 | 19 | 320 | 440 | 61 | 227 | 320 |
| 30 | 797 | 400 | $350^{0}_{-0.057}$ | 370 | 22 | 450 | 657 | 140 | 24 | 380 | 504 | 61 | 315 | 388 |

| Model UAKBJ- | Shaft End Dimensions | | | | | | | | | Approx. Mass kg |
|---|---|---|---|---|---|---|---|---|---|---|
| | Q | QK | QR | S | T | U | W | d | m | |
| 06 | 110 | 90 | 1 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 94 |
| 08 | 110 | 90 | 1 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 94 |
| 11 | 110 | 90 | 1 | $55^{0.030}_{0.011}$ | 10 | 6 | 16 | 45 | M5 | 120 |
| 15 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 220 |
| 19 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 220 |
| 22 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 250 |
| 30 | 140 | 110 | 1 | $70^{0.030}_{0.011}$ | 12 | 7.5 | 20 | 60 | M6 | 310 |

Note: 1. The shaft key and the keyway are standard JIS B 1301-1996 models.

2. The figures are provided only to explain the dimensions. The actual appearance of the spindle motor may vary.

## ◆ Foot-mounted type




Unit: mm

| Model UAKBJ- | A | B | C | D | E | F | G | H | J | KD | L | M | N | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06 | 261 | 196 | $160^{0}_{-0.5}$ | 260 | 127 | 89 | 16 | 341 | 55 | 42.5 | 568 | 290 | 223 | 307 |
| 08 | 261 | 196 | $160^{0}_{-0.5}$ | 260 | 127 | 89 | 16 | 341 | 55 | 42.5 | 568 | 290 | 223 | 307 |
| 11 | 307 | 212 | $160^{0}_{-0.5}$ | 260 | 127 | 105 | 16 | 341 | 55 | 42.5 | 630 | 290 | 255 | 323 |
| 15 | 381 | 246 | $180^{0}_{-0.5}$ | 320 | 139.5 | 127 | 16 | 407 | 55 | 61 | 769 | 320 | 298 | 388 |
| 19 | 381 | 246 | $180^{0}_{-0.5}$ | 320 | 139.5 | 127 | 16 | 407 | 55 | 61 | 769 | 320 | 298 | 388 |
| 22 | 421 | 246 | $180^{0}_{-0.5}$ | 320 | 139.5 | 127 | 16 | 407 | 55 | 61 | 809 | 320 | 298 | 388 |
| 30 | 376.5 | 273 | $225^{0}_{-0.5}$ | 380 | 178 | 127 | 21 | 540 | 75 | 61 | 792.5 | 420 | 370 | 416 |

| Model UAKBJ- | XB | Z | KI | Shaft End Dimensions | | | | | | | | | Approx. Mass kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Q | QK | QR | S | T | U | W | d | m | |
| 06 | 108 | 15 | 250 | 110 | 90 | 1 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 110 |
| 08 | 108 | 15 | 250 | 110 | 90 | 1 | $48^{0}_{-0.016}$ | 9 | 5.5 | 14 | 40 | M5 | 110 |
| 11 | 108 | 15 | 250 | 110 | 90 | 1 | $55^{0.030}_{0.011}$ | 10 | 6 | 16 | 45 | M5 | 130 |
| 15 | 121 | 19 | 320 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 230 |
| 19 | 121 | 19 | 320 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 230 |
| 22 | 121 | 19 | 320 | 140 | 110 | 2 | $60^{0.030}_{0.011}$ | 11 | 7 | 18 | 50 | M6 | 260 |
| 30 | 149 | 24 | 388 | 140 | 110 | 1 | $70^{0.030}_{0.011}$ | 12 | 7.5 | 20 | 60 | M6 | 320 |

Note: 1. The shaft key and the keyway are standard JIS B 1301-1996 models.

2. The figures are provided only to explain the dimensions. The actual appearance of the spindle motor may vary.