



# One Integrated Solution for Control & Automation **AC Servo: Drives & Motors**



Complete  
range of  
Servo, PLCs,  
HMI & VFDs

Industry 4.0

All-in-One  
software  
for Servo,  
PLC,  
HMI & VFD

Outstanding  
Tech Support

# Motion Control with Unitronics - Simple to set up. Painless to program.

## Servo made Simple: we do the work for you.

- **One Software:** Why struggle with multiple software tools to build your application? Unitronics provides one integrated software environment that controls it all: PLC, HMI, Servo, VFD, and I/O
- **Automatic** communication setup: absolutely seamless
- **Minimal room for error:** UniLogic software analyzes mechanical properties and recommends safe values for your application
- **Diagnostics:** View servo run-time performance via UniLogic's built-in powerful, high-speed scope
- **Tune** your system: using only one **single parameter**
- **No coding needed!** Use Ready-Made Motion code to test your completed system
- **Embedded Diagnostic tools: no PC needed.** Tap a panel - even mobile - to:
  - Set motion parameters
  - Monitor Axis behavior and I/Os
  - Execute movements, such as Point-to-Point, Jog, and Homing
- **Ready-Made Motion code: simply open and edit as needed**

**No motion programming knowledge needed!**



# UniLOGIC® Studio Makes Motion Control Simple

## Eliminate the complicated operations associated with Motion Control!

**Powerful, award-winning software that enables you to do it all in one project!**

- Configure all hardware: PLC, HMI, Servo drives, motors, actuators
- Build PLC, HMI, and Motion applications
- Set up and implement all communications—including Industry 4.0

**Motion Control programming:**  
drag & drop function blocks

**Add Axes,  
drag & drop  
actuators;**  
UniLogic  
automatically  
converts units

**Test & view performance**  
via built-in powerful,  
high-speed scope

**Analyzes mechanical  
properties**, and recommends  
safe values

UniLogic  
automatically  
defines  
the correct  
configuration  
& sets up  
communications



# Servo Drives & Motors

## Complete Control Solution - with Servo made Simple

### Everything you need for your Motion Control:

#### Hardware

- Drives: 1 and 3-phase, robotic cables available
- Wide servo power range – 50W to 5,000W (0.06-6.7 HP)
- Motors: to suit any machine size; robust, built-in high-resolution serial encoders (absolute: 23-bit , incremental: 20-bit), IP65
- CANopen built-in (**EtherCAT**: available soon)

#### Software

- Servo drives and Motors: simple setup
- Ready-made code: implement Motion in 2 clicks
- Motion Control programming: drag & drop function blocks
- Control up to 8 Axes
- One-parameter tuning
- Built-in Diagnostic tools
- One intuitive software environment, at no extra charge



**FAST SETUP**



**EASY INTEGRATION**



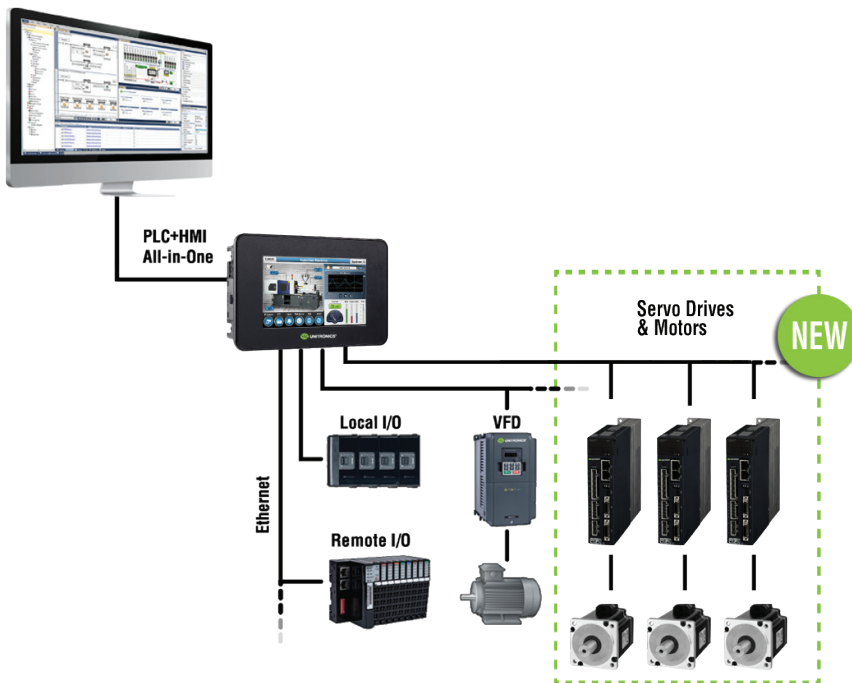
**POWERFUL SOLUTION**

# One Integrated Solution for Control & Automation

## PLC, HMI, Servo, VFD & I/Os

### Unitronics' complete Motion Control solution

All the elements you need for precise motion control



**UniLOGIC®**  
Studio

### All-in-One Software Studio

- PLC programming
- HMI design
- Servo configuration, tuning & operation
- VFD configuration, tuning & operation

### Unitronics' integrated solution for control and automation offers the best of two worlds:

broad choice and flexibility in choosing solution components, together with the simplicity and time-saving benefits of All-in-One programming software.



# Product Offering

| Servo drive  | Voltage                                   | Power<br>(kW / HP) | Motor          | Frame<br>Size<br>(MM) | Rated current<br>(A) | Rated torque<br>(NM / lb-in) | Peak current<br>(A) | Peak torque<br>(NM / lb-in) | Rated speed<br>(RPM) | Max<br>speed<br>(RPM) | Encoder type<br>(Incremental \ Absolute) |           |
|--------------|-------------------------------------------|--------------------|----------------|-----------------------|----------------------|------------------------------|---------------------|-----------------------------|----------------------|-----------------------|------------------------------------------|-----------|
| UMD-0000B-B3 | 1-Phase<br>220V                           | 0.05 / 0.06        | UMM-0000BA□-B4 | 40                    | 0.9                  | 0.159 / 1.4                  | 3.3                 | 0.557 / 4.92                | 3000                 | 6000                  | Abs 23bit                                |           |
| UMD-0001B-B3 |                                           | 0.1 / 0.13         | UMM-0001BA□-B4 |                       | 3.3                  | 0.318 / 2.81                 | 4                   | 1.11 / 9.82                 |                      |                       | Inc 20bit                                |           |
| UMD-0002B-B3 |                                           | 0.2 / 0.26         | UMM-0002BA□-B4 | 60                    | 1.5                  | 0.637 / 5.63                 | 4.7                 | 1.91 / 16.9                 |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0002BN□-B4 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0004B-B3 |                                           | 0.4 / 0.53         | UMM-0004BA□-B4 | 60                    | 2.9                  | 1.27 / 11.23                 | 9.2                 | 3.82 / 33.8                 |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0004BN□-B4 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0007C-B3 | 1-Phase<br>220V<br>and<br>3-Phase<br>220V | 0.75 / 1           | UMM-0007CA□-B4 | 80                    | 5.1                  | 2.39 / 21.15                 | 16.1                | 7.16 / 63.36                |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0007CN□-B4 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0010C-B3 |                                           | 1 / 1.34           | UMM-0010CA□-B4 |                       | 80                   | 6.9                          | 3.18 / 28.14        | 19.5                        |                      |                       | 8.8 / 77.88                              | Abs 23bit |
|              |                                           |                    | UMM-0010CN□-B4 |                       |                      |                              |                     |                             |                      |                       |                                          | Inc 20bit |
| UMD-0015C-B3 | 3-Phase<br>220V                           | 1.5 / 2.01         | UMM-0015CA□-B2 | 130                   | 8.2                  | 7.16 / 63.36                 | 24.6                | 21.5 / 190.27               | 2000                 | 3000                  | Abs 23bit                                |           |
|              |                                           |                    | UMM-0015CN□-B2 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0020C-B3 |                                           | 2 / 2.68           | UMM-0020CA□-B2 | 130                   | 11.3                 | 9.55 / 84.51                 | 33.9                | 28.7 / 253.99               |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0020CN□-B3 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0030C-B3 |                                           | 3 / 4.02           | UMM-0030CA□-B3 | 180                   | 18                   | 14.3 / 126.55                | 54                  | 36.5 / 323.02               |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0030CN□-B3 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0050C-B3 |                                           | 5 / 6.7            | UMM-0050CA□-B3 | 180                   | 28                   | 23.9 / 211.51                | 84                  | 54.3 / 480.55               |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0050CN□-B2 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0010E-B3 | 3-Phase<br>400V                           | 1 / 1.34           | UMM-0010EA□-B2 | 130                   | 3                    | 4.78 / 42.3                  | 9                   | 14.3 / 126.55               |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0010EN□-B2 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0015E-B3 |                                           | 1.5 / 2.01         | UMM-0015EA□-B2 | 130                   | 4.3                  | 7.16 / 63.36                 | 12.9                | 21.5 / 190.27               |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0015EN□-B2 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0020E-B3 |                                           | 2 / 2.68           | UMM-0020EA□-B2 | 130                   | 5.7                  | 9.55 / 84.51                 | 17.1                | 28.7 / 253.99               |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0020EN□-B2 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0030E-B3 |                                           | 3 / 4.02           | UMM-0030EA□-B3 | 180                   | 8.8                  | 14.3 / 126.55                | 26.4                | 36.5 / 323.02               |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0030EN□-B3 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |
| UMD-0050E-B3 |                                           | 5 / 6.7            | UMM-0050EA□-B3 | 180                   | 15                   | 23.9 / 211.51                | 45                  | 71.6 / 633.66               |                      |                       | Abs 23bit                                |           |
|              |                                           |                    | UMM-0050EN□-B3 |                       |                      |                              |                     |                             |                      |                       | Inc 20bit                                |           |

\* All motors are offered with oil seal as standard

□- Add the letter B in the square in order to include holding brake eg. UMM-0004BA-□-B4 -> UMM-0004BAB-B4

# Products Designation

## Drive

| UMD - 0004 | B | - | B3 |
|------------|---|---|----|
| ①          | ② | ③ | ④  |

| No. | Key            | Description                                              |
|-----|----------------|----------------------------------------------------------|
| ①   | Product Line   | Unitronics Servo Drive                                   |
| ②   | Rated Power    | 0001: 100W<br>0010: 1KW                                  |
| ③   | Input Voltage  | B: 1PH 200V-230V<br>C: 3PH 200V-230V<br>E: 3PH 380V-440V |
| ④   | Product Series | B3                                                       |

## Cables

| UMC | B4 | FA | R | 05 |
|-----|----|----|---|----|
| ①   | ②  | ③  | ④ | ⑤  |

| No. | Key                 | Description                                                                                                                               |
|-----|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| ①   | Product line        | Unitronics Servo Cable                                                                                                                    |
| ②   | Motor series        | B2\B3\B4                                                                                                                                  |
| ③   | Cable functionality | PN- Power cable without brake<br>PB-Power cable with brake<br>FA-Feedback cable absolute encoder<br>FN-Feedback cable incremental encoder |
| ④   | Cable type          | R-Roboric cable                                                                                                                           |
| ⑤   | Cable length        | 03/05/10 Meters                                                                                                                           |

## Motor

| UMM - 0004 | B | N | B | - | B4 |
|------------|---|---|---|---|----|
| ①          | ② | ③ | ④ | ⑤ | ⑥  |

| No. | Key            | Description                                              |
|-----|----------------|----------------------------------------------------------|
| ①   | Product Line   | Unitronics Servo Motor                                   |
| ②   | Rated Power    | 0001: 100W<br>0010: 1KW                                  |
| ③   | Input Voltage  | B: 1PH 200V-230V<br>C: 3PH 200V-230V<br>E: 3PH 380V-440V |
| ④   | Encoder        | A: Absolute<br>N: Incremental                            |
| ⑤   | Brake          | None: No Brake<br>B: With Brake                          |
| ⑥   | Product Series | B2/B3/B4                                                 |



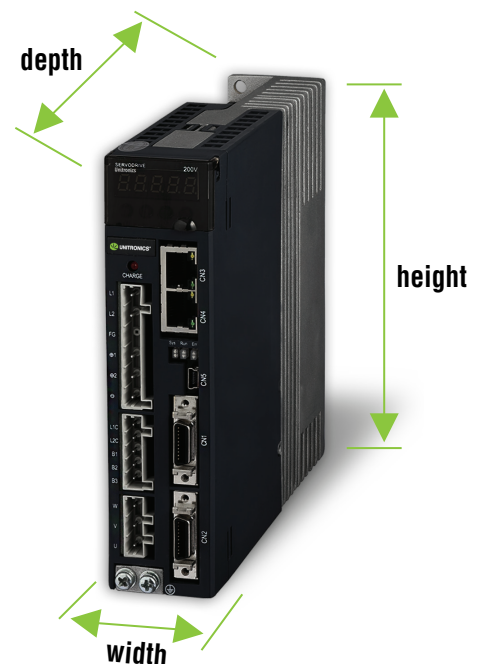
# Drive Specification



|                      |                                |                                                                                                              |                                                                                        |
|----------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Input Power Supply   | Main Circuit                   | 200V                                                                                                         | Single-Phase 200~230VAC (50W~1kW / 0.06 - 1.34HP)                                      |
|                      |                                |                                                                                                              | Three-phase 200~230VAC (750W~5.0kW / 1.01 - 6.7HP)                                     |
|                      |                                | 400V                                                                                                         | Three-phase 380~440VAC (1~5.0kW / 1.34 - 6.7HP)                                        |
|                      | Control Circuit                | 200V                                                                                                         | Single-Phase 200~230VAC (50W~5.0kW / 0.06 - 6.7HP)                                     |
|                      |                                | 400V                                                                                                         | 24VDC (1~5.0kW / 1.34 - 6.7HP)                                                         |
| Control Method       |                                |                                                                                                              | SVPWM Control                                                                          |
| Feedback             |                                |                                                                                                              | 20bit incremental encoder: 1048576 PRR<br>23bit Absolute encoder: 8388608 PRR          |
| Operating Conditions | Ambient Temperature            |                                                                                                              | 0~+55°C / 32~131°F                                                                     |
|                      | Storage Temperature            |                                                                                                              | -25~+85°C / -13~185°F                                                                  |
|                      | Ambient/Storage Humidity       |                                                                                                              | 5%~95% RH (no condensation)                                                            |
|                      | Elevation                      |                                                                                                              | 1000m/3280ft or less                                                                   |
|                      | Vibration Resistance           |                                                                                                              | 4.9m/s² / 0.5g                                                                         |
|                      | Impact Resistance              |                                                                                                              | 19.6m/s² / 2g                                                                          |
| Configuration        |                                |                                                                                                              | Wall mounted                                                                           |
| I/O Signals          | Encoder Dividing Pulses Output | Phase-A, phase-B, phase-C:line driver output<br>Number of dividing pulses:<br>Any setting ratio is available |                                                                                        |
|                      | 8 Digital Inputs               |                                                                                                              |                                                                                        |
|                      | 4 Digital Outputs              |                                                                                                              |                                                                                        |
| Other                | Built-in regenerative resistor |                                                                                                              | 750W~5.0kW / 1.01 - 6.7HP                                                              |
|                      | Protection Functions           |                                                                                                              | Overcurrent, overvoltage,low voltage, overload,regeneration error,overspeed            |
|                      | Display                        |                                                                                                              | CHARGE(Red), POWER (Green),<br>7-segment LEDS × 5<br>(Built-in digital panel operator) |
|                      | Communication                  |                                                                                                              | CANopen (EtherCat will be available soon)                                              |

## Servo Drive Dimensions

| Power | 200V        | 400V        |
|-------|-------------|-------------|
| (kW)  | W×H×D(mm)   | W×H×D(mm)   |
| 0.05  | 40X160X180  | —           |
| 0.1   | 40X160X180  | —           |
| 0.2   | 40X160X180  | —           |
| 0.4   | 40X160X180  | —           |
| 0.75  | 84X186X180  | —           |
| 1.0   | 84X186X180  | 100X186X180 |
| 1.5   | 100X186X180 | 100X186X180 |
| 2.0   | 100X186X180 | 100X186X180 |
| 3.0   | 125X271X205 | 125X271X205 |
| 5.0   | 125X271X205 | 125X271X205 |



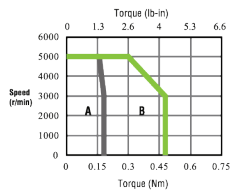
# Servo Motor Specification

|                                      |               | 200 VAC                           |                | 200 VAC            |                 |                 |                 | 200 VAC            |                  |                   |                   | 400 VAC         |                 |                  |                   |                   |  |
|--------------------------------------|---------------|-----------------------------------|----------------|--------------------|-----------------|-----------------|-----------------|--------------------|------------------|-------------------|-------------------|-----------------|-----------------|------------------|-------------------|-------------------|--|
|                                      |               | B4                                |                |                    |                 |                 |                 | B2                 |                  | B3                |                   | B2              |                 |                  | B3                |                   |  |
| Rated Output Power                   | Kw / HP       | 0.05 / 0.06                       | 0.1 / 0.13     | 0.2 / 0.26         | 0.4 / 0.53      | 0.75 / 1        | 1 / 1.34        | 1.5 / 2.01         | 2 / 2.68         | 3 / 4.02          | 5 / 6.7           | 1 / 1.34        | 1.5 / 2.01      | 2 / 2.68         | 3 / 4.02          | 5 / 6.7           |  |
| Rated Torque                         | NM / lb-in    | 0.16 / 1.41                       | 0.32 / 2.83    | 0.637 / 5.63       | 1.27 / 11.23    | 2.39 / 21.15    | 3.18 / 28.14    | 7.16 / 63.36       | 9.55 / 84.51     | 14.3 / 126.55     | 23.9 / 211.51     | 4.78 / 42.3     | 7.16 / 63.36    | 9.55 / 84.51     | 14.3 / 126.55     | 23.9 / 211.51     |  |
| Peak Torque                          | NM / lb-in    | 0.48 / 4.24                       | 0.96 / 8.49    | 1.91 / 16.9        | 3.82 / 33.8     | 7.16 / 63.36    | 8.8 / 77.88     | 21.5 / 190.27      | 28.7 / 253.99    | 36.5 / 323.02     | 54.3 / 480.55     | 14.3 / 126.55   | 21.5 / 190.27   | 28.7 / 253.99    | 36.5 / 323.02     | 71.6 / 633.66     |  |
| Rated Current                        | A             | 0.6                               | 1.1            | 1.5                | 2.9             | 5.1             | 6.8             | 8.2                | 11.3             | 18.0              | 28.0              | 3.0             | 4.3             | 5.7              | 8.8               | 15.0              |  |
| Max Current                          | A             | 1.7                               | 3.0            | 4.7                | 9.2             | 15.3            | 21.0            | 24.6               | 33.9             | 54.0              | 84.0              | 9.0             | 12.9            | 17.1             | 26.4              | 45.0              |  |
| Rated Speed                          | RPM           | 3000                              |                |                    |                 |                 |                 | 2000               |                  |                   |                   |                 |                 |                  |                   |                   |  |
| Max. Speed                           | RPM           | 6000                              |                |                    |                 |                 |                 | 3000               |                  |                   |                   |                 |                 |                  |                   |                   |  |
| Rotor Moment of Inertia (with brake) | kg*cm^2       | 0.019 (0.05)                      | 0.035 (0.052)  | 0.1469 (0.1794)    | 0.2435 (0.2759) | 0.9094 (1.0655) | 1.144 (1.3)     | 18.4 (19.5)        | 23.5 (24.6)      | 41.3 (44.5)       | 65.7 (68.9)       | 13.2 (14.3)     | 18.4 (19.5)     | 23.5 (24.6)      | 41.3 (44.5)       | 65.7 (68.9)       |  |
|                                      | lb-in²        | 0.0065 (0.017)                    | 0.012 (0.0177) | 0.0501 (0.0613)    | 0.0832 (0.0942) | 0.3107 (0.3640) | 0.3909 (0.4442) | 6.2875 (6.6634)    | 8.0303 (8.40621) | 14.1128 (15.2063) | 22.3824 (23.5442) | 4.5106 (4.8865) | 6.2875 (6.6634) | 8.0303 (8.40621) | 14.1128 (15.2063) | 22.3824 (23.5442) |  |
| weight (with brake)                  | kg            | 0.374 (0.566)                     | 0.508 (0.7)    | 0.9 (1.3)          | 1.3 (1.7)       | 2.6 (3.2)       | 3.1 (3.8)       | 8.9 (10.4)         | 10.8 (12.3)      | 16.63 (20.23)     | 24.3 (27.9)       | 7 (8.5)         | 8.9 (10.4)      | 10.8 (12.3)      | 16.63 (20.23)     | 24.3 (27.9)       |  |
|                                      | lb            | 0.82 (1.24)                       | 1.12 (1.543)   | 1.984 (2.866)      | 2.866 (3.747)   | 5.732 (7.054)   | 6.834 (8.377)   | 19.621 (22.928)    | 23.81 (27.116)   | 36.662 (44.6)     | 53.572 (61.509)   | 15.432 (18.74)  | 19.621 (22.928) | 23.81 (27.116)   | 36.662 (44.6)     | 53.572 (61.509)   |  |
| Brake Rated Voltage                  | DC24V±10%     |                                   |                |                    |                 |                 |                 |                    |                  |                   |                   |                 |                 |                  |                   |                   |  |
| Brake Rated Power                    | W             | 4.0                               |                | 7.4                |                 | 9.6             |                 | 19.5               |                  | 35.0              |                   | 19.5            |                 |                  | 35.0              |                   |  |
| Brake Holding Torque                 | NM / lb-in    | 0.318 / 2.814                     |                | 1.5 / 13.276       |                 | 3.2 / 28.322    |                 | 12 / 106.209       |                  | 40 / 354.03       |                   | 12 / 106.209    |                 |                  | 40 / 354.03       |                   |  |
| Incremental Encoder                  | PPR           | -                                 |                | 20 bit (1,048,576) |                 |                 |                 | 20 bit (1,048,576) |                  |                   |                   |                 |                 |                  |                   |                   |  |
| Absolute Encoder                     | PPR           | 23bit (8,388,609)                 |                |                    |                 |                 |                 | 23 bit (8,388,608) |                  |                   |                   |                 |                 |                  |                   |                   |  |
| Insulation class                     | F             |                                   |                |                    |                 |                 |                 |                    |                  |                   |                   |                 |                 |                  |                   |                   |  |
| Ambient Temperature                  | °C / °F       | 0~+40°C / 32~+104°F (No freezing) |                |                    |                 |                 |                 |                    |                  |                   |                   |                 |                 |                  |                   |                   |  |
| Ambient Humidity                     | RH            | 20% to 80% non-condensing         |                |                    |                 |                 |                 |                    |                  |                   |                   |                 |                 |                  |                   |                   |  |
| Enclosure                            | IP65 / NEMA4X |                                   |                |                    |                 |                 |                 |                    |                  |                   |                   |                 |                 |                  |                   |                   |  |

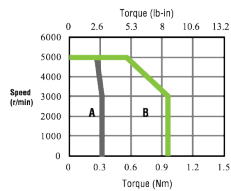
\* The values in parentheses are for servo motors with holding brakes

## UMM-B4

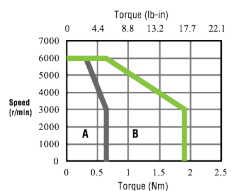
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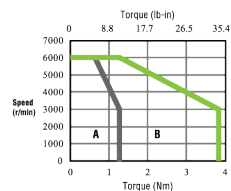
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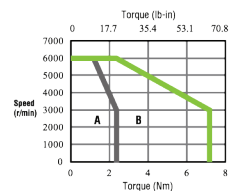
UMM-0002B□□-B4



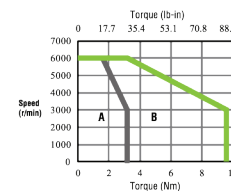
UMM-0004B□□-B4



UMM-0007C□□-B4

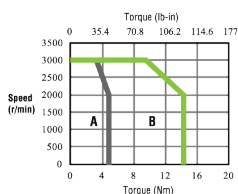


UMM-0010C□□-B4

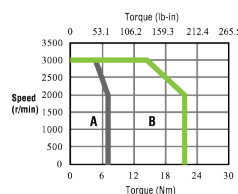


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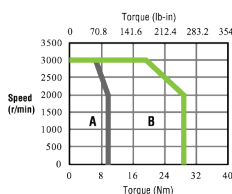
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UMM-0015□□□-B2

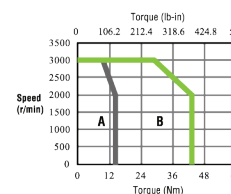


UMM-0020□□□-B2

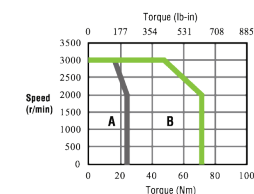


## BMM-B3

UMM-0030□□□-B3



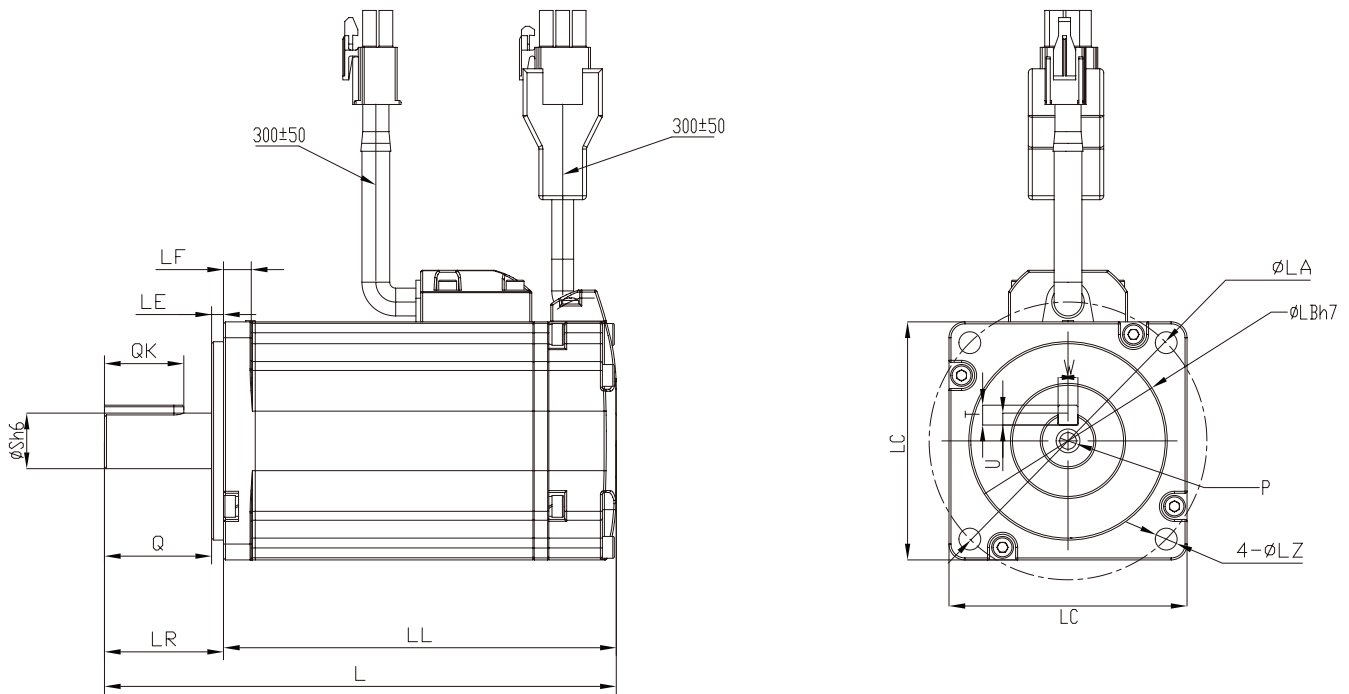
UMM-0050□□□-B3





# UMM-B4:

## Motor Dimensions

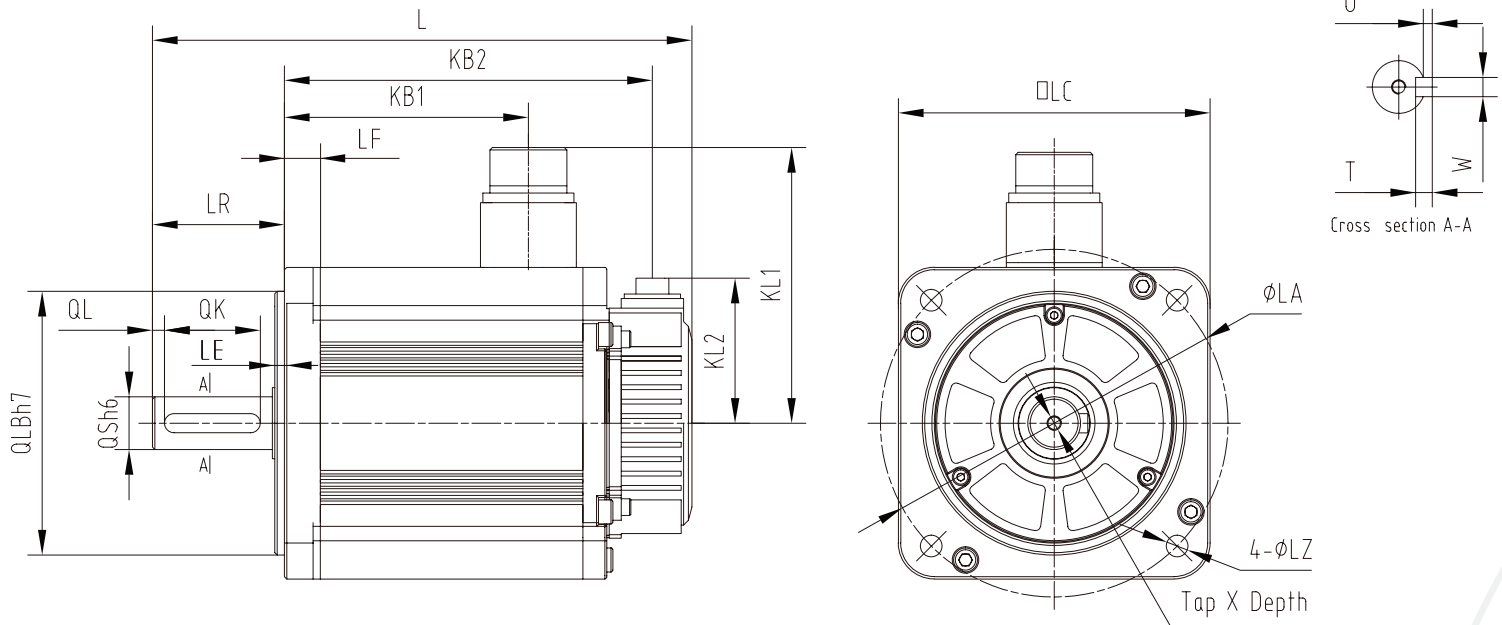


| Part Number     | L*            | LL*           | Flange Side |     |    |    |    |    |     | S  | Tap × Depth | Key |   |   |     |      |
|-----------------|---------------|---------------|-------------|-----|----|----|----|----|-----|----|-------------|-----|---|---|-----|------|
|                 |               |               | LR          | LE  | LF | LC | LA | LB | LZ  |    |             | QK  | W | T | U   | Q    |
| UMM-0000BA□-B4  | 92.5 (126)    | 62.5 (96)     | 25          | 2.5 | 5  | 40 | 46 | 30 | 4.3 | 8  | M3X6        | 14  | 3 | 3 | 1.8 | 22.5 |
| UMM-0001BA□-B4  | 108.5 (142)   | 78.5 (112)    |             |     |    |    |    |    |     |    |             |     |   |   |     |      |
| UMM-0002BA□-B4  | 108 (137)     | 78 (107)      | 30          | 3   | 7  | 60 | 70 | 50 | 6   | 14 | M5×12       | 20  | 5 | 5 | 3   | 27   |
| UMM-0004BA□-B4  | 129 (158)     | 99 (128)      |             |     |    |    |    |    |     |    |             |     |   |   |     |      |
| UMM-0007 CA□-B4 | 141 (184)     | 111 (144)     | 40          | 3   | 8  | 80 | 90 | 70 | 7   | 19 | M6×12       | 25  | 6 | 6 | 3.5 | 37   |
| UMM-0010CA□-B4  | 155 (198)     | 125 (158)     |             |     |    |    |    |    |     |    |             |     |   |   |     |      |
| UMM-0002BN□-B4  | 126.5 (155.5) | 96.5 (125.5)  | 30          | 3   | 7  | 60 | 70 | 50 | 6   | 14 | M5×12       | 20  | 5 | 5 | 3   | 27   |
| UMM-0004BN□-B4  | 147.5 (176.5) | 117.5 (146.5) |             |     |    |    |    |    |     |    |             |     |   |   |     |      |
| UMM-0007CN□-B4  | 159.5 (202.5) | 129.5 (162.5) | 40          | 3   | 8  | 80 | 90 | 70 | 7   | 19 | M6×12       | 25  | 6 | 6 | 3.5 | 37   |
| UMM-0010CN□-B4  | 173.5 (216.5) | 143.5 (176.5) |             |     |    |    |    |    |     |    |             |     |   |   |     |      |

\*The values in parentheses are for servo motors with holding brakes

□ - Add the letter B in the square in order to include holding brake eg. UMM-0004BA□-B4 -> UMM-0004BAB-B4

# UMM-B2 & UMM-B3: Motor Dimensions



unit: mm

| Part Number    | L*          | *LL         | Flange Side |     |    |     |     |       |    | S  | Tap × Depth | Key |   |    |   |   | KB1*        | KB2*        | KL1 | KL2  |
|----------------|-------------|-------------|-------------|-----|----|-----|-----|-------|----|----|-------------|-----|---|----|---|---|-------------|-------------|-----|------|
|                |             |             | LR          | LE  | LF | LC  | LA  | LB    | LZ |    |             | QK  | W | T  | U | Q |             |             |     |      |
| UMM-0010EA□-B2 | 203 (245.5) | 148 (190.5) | 55          | 4   | 12 | 130 | 145 | 110   | 9  | 22 | M6×20       | 40  | 5 | 8  | 7 | 4 | 80 (103.2)  | 131.5 (174) | 117 | 60.5 |
| UMM-0015CA□-B2 | 225 (267.5) | 170 (212.5) |             |     |    |     |     |       |    |    |             |     |   |    |   |   | 102 (125.2) | 153.5 (196) |     |      |
| UMM-0015EA□-B2 | 247 (289.5) | 192 (234.5) |             |     |    |     |     |       |    |    |             |     |   |    |   |   | 124 (147.2) | 175.5 (218) |     |      |
| UMM-0020CA□-B2 |             |             |             |     |    |     |     |       |    |    |             |     |   |    |   |   |             |             |     |      |
| UMM-0020EA□-B2 |             |             |             |     |    |     |     |       |    |    |             |     |   |    |   |   |             |             |     |      |
| UMM-0030CA□-B3 | 307 (378)   | 228 (299)   | 79          | 3.2 | 18 | 180 | 200 | 114.3 | 14 | 35 | M8×16       | 55  | 6 | 10 | 8 | 5 | 143         | 203 (274)   | 140 | 79   |
| UMM-0030EA□-B3 | 357 (428)   | 278 (349)   |             |     |    |     |     |       |    |    |             |     |   |    |   |   | 183         | 253 (324)   |     |      |
| UMM-0050CA□-B3 |             |             |             |     |    |     |     |       |    |    |             |     |   |    |   |   |             |             |     |      |
| UMM-0050EA□-B3 |             |             |             |     |    |     |     |       |    |    |             |     |   |    |   |   |             |             |     |      |

\* The values in parentheses are for servo motors with holding brakes

□ - Add the letter B in the square in order to include holding brake eg. UMM-0010EA□-B2 -> UMM-0010EAB-B2

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