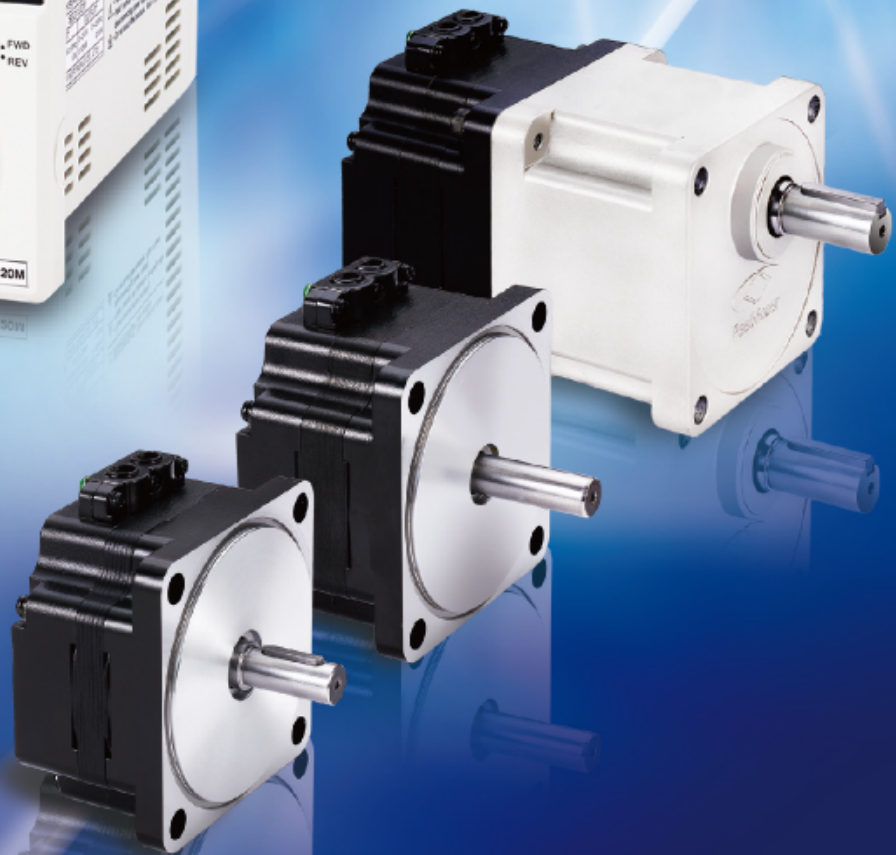




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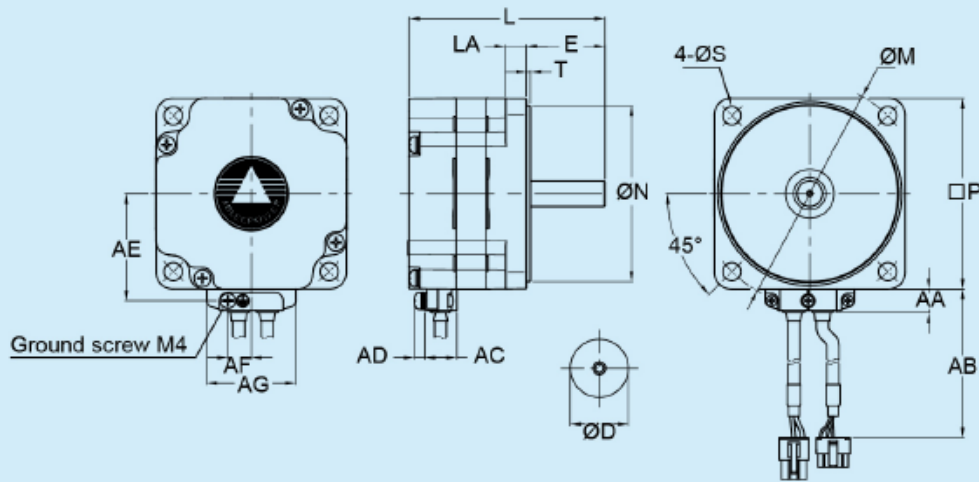
# Brushless Motor & BLS Drives



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# Motor Dimension

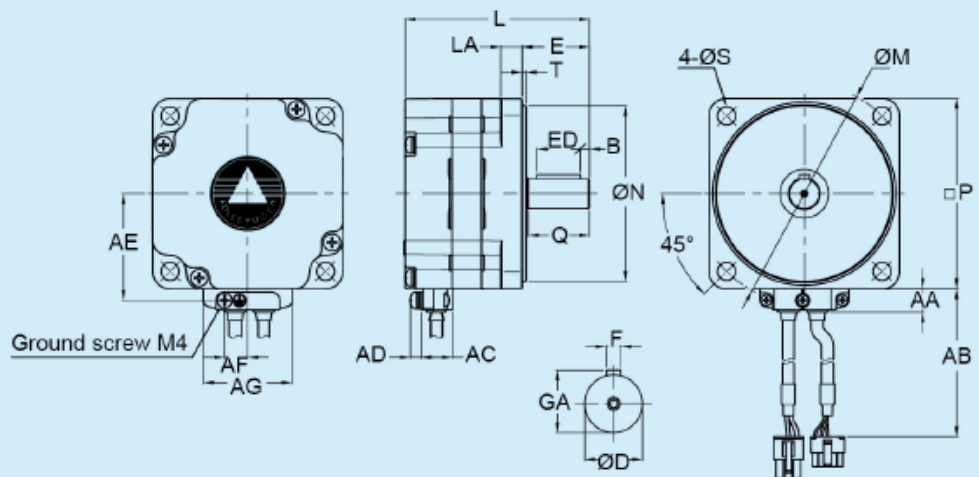
## BS-120LO~BS-200MO (Round Shaft)



UNIT : mm

| FIG | □P | ØM  | ØS  | ØN | T | L    | LA | AA | AB   | AC | AD | AE   | AF | AG | OUTPUT SHAFT END |    |
|-----|----|-----|-----|----|---|------|----|----|------|----|----|------|----|----|------------------|----|
|     |    |     |     |    |   |      |    |    |      |    |    |      |    |    | E                | ØD |
| 1   | 90 | 104 | 8.5 | 83 | 2 | 92.3 | 10 | 11 | 1000 | 15 | 5  | 50.5 | 11 | 42 | 37               | 12 |
| 2   |    |     |     |    |   | 97.2 |    |    |      |    |    |      |    |    |                  | 14 |
| 3   |    |     |     |    |   | 87.4 |    |    |      |    |    |      |    |    |                  | 12 |
| 4   |    |     |     |    |   | 92.3 |    |    |      |    |    |      |    |    |                  | 14 |

## BS-120LK~BS-200MK (Shaft with keyway)



UNIT : mm

| FIG | □P | ØM  | ØS  | ØN | T | L    | LA | AA | AB   | AC | AD | AE   | AF | AG | OUTPUT SHAFT END |    |    |    |    |      |   |
|-----|----|-----|-----|----|---|------|----|----|------|----|----|------|----|----|------------------|----|----|----|----|------|---|
|     |    |     |     |    |   |      |    |    |      |    |    |      |    |    | B                | ED | Q  | E  | ØD | GA   | F |
| 5   | 90 | 104 | 8.5 | 83 | 2 | 87.3 | 10 | 11 | 1000 | 15 | 5  | 50.5 | 11 | 42 | 4.5              | 20 | 29 | 32 | 12 | 13.5 | 4 |
| 6   |    |     |     |    |   | 92.2 |    |    |      |    |    |      |    |    |                  |    |    |    | 14 | 16   | 5 |
| 7   |    |     |     |    |   | 82.4 |    |    |      |    |    |      |    |    |                  |    |    |    | 12 | 13.5 | 4 |
| 8   |    |     |     |    |   | 87.3 |    |    |      |    |    |      |    |    |                  |    |    |    | 14 | 16   | 5 |



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# Brushless Motor & BLS Drives

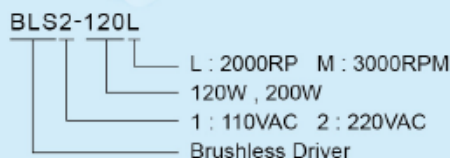
## Intelligent Drive Controller

- Available for all control interface, ex. RS485, Standard panel, Terminal control, PLC, HMI.
- Convenience 220VAC or 110VAC drive power input. No more 24VDC power supply.
- Real motor speed display and signal output (30 pulse/rev).
- Digital knob can be precisely set speed.
- Over current/heat/voltage, Motor lock protection.
- Acceleration and deceleration times can use analog or digital control, easy to use.
- Compact size and easy to install.

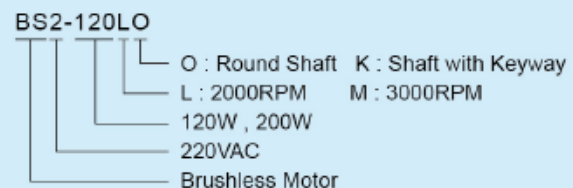
## Innovated Brushless Motor

- Low noise and maintenance free.
- Specialized designation to have smoother shaft rotation and improved reliability.
- Light weight and compact size. Higher power density and efficiency than conventional motors.

## Drive Model Description



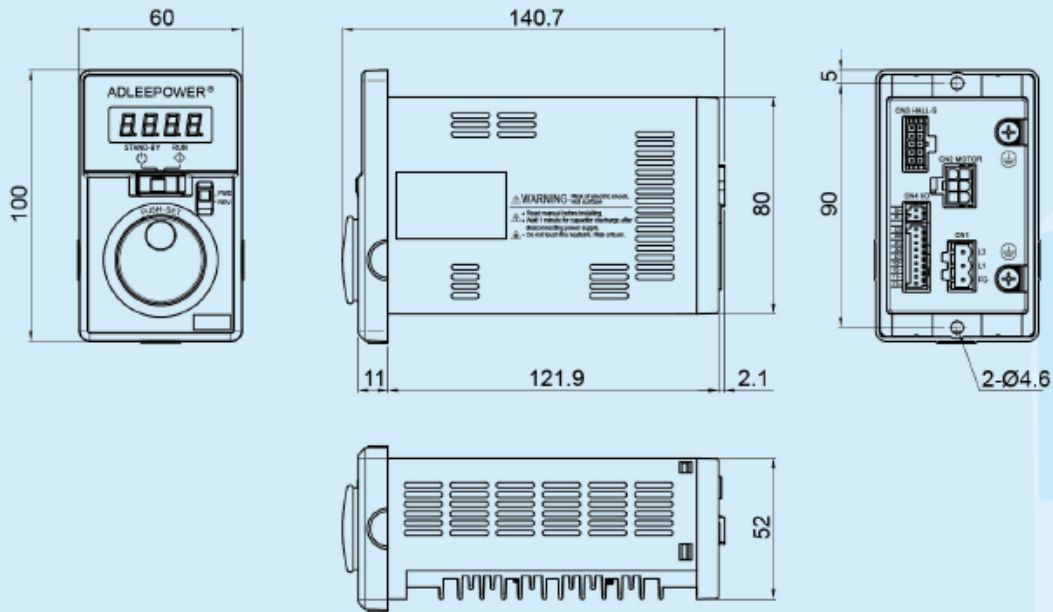
## Motor Model Description



## Specification

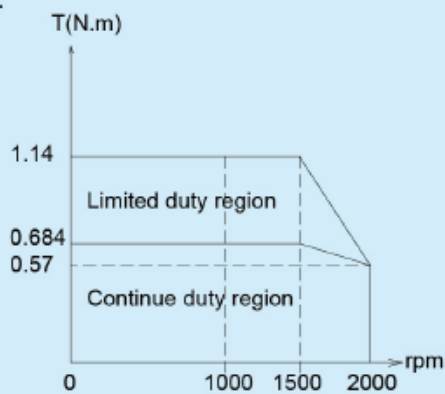
| Rated Output         | W           | 120   |              | 200          |              | 120                    |              | 200          |              |
|----------------------|-------------|---|--------------|--------------|--------------|------------------------|--------------|--------------|--------------|
| Motor Model No.      |             | BS2-120LO/MO  | BS2-120LK/MK | BS2-200LO/MO | BS2-200LK/MK | BS2-120LO/MO           | BS2-120LK/MK | BS2-200LO/MO | BS2-200LK/MK |
| Drive Model No.      |             | BLS1-120L/M   |              | BLS1-200L/M  |              | BLS2-120L/M            |              | BLS2-200L/M  |              |
| Input Voltage        | AC          | 110V±10% 1Ø   |              |              |              | 220V±10% 1Ø            |              |              |              |
| Input Frequency      | Hz          | 50 / 60   |              |              |              |                        |              |              |              |
| Motor Rated Torque   | N.m         | 0.57 / 0.39   |              | 0.96 / 0.65  |              | 0.57 / 0.39            |              | 0.96 / 0.65  |              |
| Motor Max. Torque    | N.m         | 1.14 / 0.78   |              | 1.92 / 1.30  |              | 1.14 / 0.78            |              | 1.92 / 1.30  |              |
| Motor Rated Current  | A           | 0.86 / 0.85   |              | 1.60 / 1.56  |              | 0.86 / 0.85            |              | 1.60 / 1.56  |              |
| Motor Max. Current   | A           | 1.80 / 1.70   |              | 3.20 / 3.12  |              | 1.80 / 1.70            |              | 3.20 / 3.12  |              |
| Motor Rated Speed    | RPM         | L:2000 / M:3000   |              |              |              |                        |              |              |              |
| Hall Effect Sensor   |             | HU \ HV \ HW Open Collector   |              |              |              |                        |              |              |              |
| ACC. DEC. Time       | W           | 0.1~15.0 Sec.   |              |              |              |                        |              |              |              |
| Speed Regulation     | Load        | ± 0.5% Below (0~Rated Torque at Rated Speed)  |              |              |              |                        |              |              |              |
|                      | Voltage     | ± 0.5% Below (Source Voltage ± 10% at Rated Speed no Load)  |              |              |              |                        |              |              |              |
|                      | Temperature | ± 0.5% Below (-10~45°C /32~113°F at Rated Speed no Load)  |              |              |              |                        |              |              |              |
| Type of Control      |             | Sin PWM   |              |              |              |                        |              |              |              |
| Mode of Control      |             | Speed mode  |              |              |              |                        |              |              |              |
| Digital Input Signal |             | 1. Panel VR \ Run/Stand-BY switch \ Direction switch  |              |              |              | 2. X0~X2 and C0 common |              |              |              |
| Operating            |             | 1. Panel: RUN8STAND-BY operating switch<br>2. Terminal: Photocoupler interface: input resistance 680Ω/X0~X2<br>3. Communication: RS485      |              |              |              |                        |              |              |              |
| Output Signal        |             | Y0/Y1 Open Collector, External Power Supply (DC4.5V~30V, 100mA below)   |              |              |              |                        |              |              |              |
| Protection           |             | Overload, Over Current, Over Voltage, Over Heat, Over Speed, Low Voltage, Initial operation inhibition, Hall Sensor Abnormal, Short Circuit |              |              |              |                        |              |              |              |
| Motor Insulation.    |             | B Class   |              |              |              |                        |              |              |              |
| Motor enclosure type |             | IP40  |              |              |              |                        |              |              |              |
| SB Drive Figure      |             | BLS Drive   |              |              |              |                        |              |              |              |
| BS Motor Figure No.  |             | LO:1 / MO:3   | LK:5 / MK:7  | LO:2 / MO:4  | LK:6 / MK:8  | LO:1 / MO:3            | LK:5 / MK:7  | LO:2 / MO:4  | LK:6 / MK:8  |

## Drive Dimension (BLS Drive)

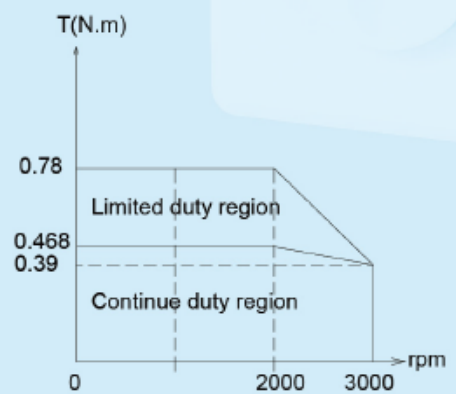


## T/N Curve (Performance curve)

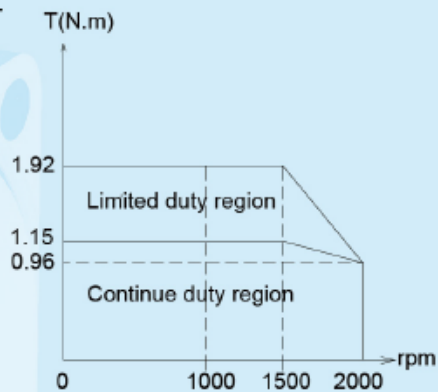
### • BS2-120L



### • BS2-120M



### • BS2-200L



### • BS2-200M

