### Specifications

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Motor</th>
<th>Driver</th>
<th>Rated Output Power (Continuous) W (HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BLM5200HPK-5■H □ C</td>
<td>BLE2D200-C</td>
<td>200 (1/4)</td>
</tr>
<tr>
<td></td>
<td>BLM5300HPK-5■H □ S</td>
<td>BLE2D300-C</td>
<td>300 (2/5)</td>
</tr>
<tr>
<td></td>
<td>BLM5400HPK-5■H □ C</td>
<td>BLE2D400-S</td>
<td>400 (1/2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Source</th>
<th>Rated Voltage</th>
<th>Permissible Voltage Range</th>
<th>Frequency</th>
<th>Permissible Frequency Range</th>
<th>Rated Input Current</th>
<th>Maximum Input Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-Phase</td>
<td>200-240 VAC</td>
<td>-15 ~ +10%</td>
<td>50 / 60</td>
<td>±5%</td>
<td>Single-Phase: 2.4 / Three-Phase: 1.4</td>
<td></td>
</tr>
<tr>
<td>Three-Phase</td>
<td>200-240 VAC</td>
<td>-15 ~ +10%</td>
<td>50 / 60</td>
<td>±5%</td>
<td>Single-Phase: 3.2 / Three-Phase: 1.8</td>
<td></td>
</tr>
<tr>
<td>Three-Phase</td>
<td>200-240 VAC</td>
<td>-15 ~ +10%</td>
<td>50 / 60</td>
<td>±5%</td>
<td>Single-Phase: 8.5 / Three-Phase: 4.3</td>
<td></td>
</tr>
</tbody>
</table>

- **Rated Speed**: 3000 r/min
- **Speed Control Range**: 80 ~ 3600 r/min (Speed ratio 45:1)

* ( ) The number in the parentheses is the specified value for the analog setting.

● The values correspond to each specification and characteristics of a stand-alone motor.
### Gear Ratio

<table>
<thead>
<tr>
<th>Gear Ratio (Actual Gear Ratio)</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>30</th>
<th>50</th>
<th>100</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gearhead Size Code</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Rotation Direction

<table>
<thead>
<tr>
<th>Output Shaft Speed (r/min)</th>
<th>80 r/min</th>
<th>3600 r/min</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

#### Permissible Torque [N·m (lb-in)]

- **200 W** (1/4 HP)
  - At 80 ∼ 1500 r/min
    - 134
  - At 3000 r/min
    - 128
  - At 3600 r/min
    - 92.0

- **300 W** (2/5 HP)
  - At 80 ∼ 1500 r/min
    - 134
  - At 3000 r/min
    - 128
  - At 3600 r/min
    - 92.0

- **400 W** (1/2 HP)
  - At 80 ∼ 1500 r/min
    - 178
  - At 3000 r/min
    - 128
  - At 3600 r/min
    - 92.0

#### Permissible Inertia J [× 10⁻⁴ kg·m² (oz·in²)]

- **20 mm (0.79 in.) from Installation Surface**
  - At 80 ∼ 1500 r/min
    - 400000
  - At 3000 r/min
    - 144000
  - At 3600 r/min
    - 48000

#### Permissible Radial Load [N (lb.)]

- At 80 ∼ 1500 r/min
  - 3436
- At 3000 r/min
  - 2405
- At 3600 r/min
  - 810

#### Permissible Axial Load [N (lb.)]

- At 80 ∼ 1500 r/min
  - 393
- At 3000 r/min
  - 550
- At 3600 r/min
  - 34

#### Permissible Inertia J [× 10⁻⁴ kg·m² (oz·in²)]

- When Instantaneous Stop or Bi-Directional Operation is performed

*1 The rotation direction is as seen from the gear flange surface (drawing on the right).
*2 The output shaft speed is calculated by dividing the speed by the gear ratio.
*3 The radial load at each distance can be calculated with a formula. ➜ Page ◆◆◆
*4 It is also applicable when digitally setting the deceleration time to below 0.1 seconds.

◇◇ Gear Flange Position

◇◇ Load Position