### DC Brushless Motor

**AM-BL3660A/B Series**

2015 edition. Specifications are subject to change without notice.

#### BRUSHLESS MOTOR

<table>
<thead>
<tr>
<th>MOTOR MODEL</th>
<th>NOMINAL VOLTAGE (V)</th>
<th>NO LOAD SPEED (rpm)</th>
<th>NO LOAD CURRENT (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12</td>
<td>11200</td>
<td>320</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>12840</td>
<td>47.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MOTOR MODEL</th>
<th>MAX 150% NO LOAD CURRENT (mN.m)</th>
<th>MAXIMUM POWER OUTPUT (W)</th>
<th>MAXIMUM EFFICIENCY (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150%</td>
<td>10322</td>
<td>178.1</td>
</tr>
<tr>
<td></td>
<td>47.6</td>
<td>7928</td>
<td>86</td>
</tr>
</tbody>
</table>

#### BALL BEARING

<table>
<thead>
<tr>
<th>MOTOR MODEL</th>
<th>MAXIMUM ROLLING BEARING LOADS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 N</td>
</tr>
</tbody>
</table>

#### ADDITIONAL INFORMATION

**AM-BL3660A/B COMBINATION SCHEME**

- Recommend Gearbox: Planetary Gearbox AM-36P
- Recommend Encoder: Encoder S: AM-EN22-3*** 2-3 Channels
- Encoder T: AM-EN36-3*** 2-3 Channels

For more gearbox specs, see Assun Motor website.

#### MAXIMUM ROLLING BEARING LOADS

<table>
<thead>
<tr>
<th>LOAD</th>
<th>MAXIMUM AXIAL (DYNAMIX) (N)</th>
<th>MAXIMUM PRESS-FIT FORCE (N)</th>
<th>MAXIMUM RADIAL PLAY (mm)</th>
<th>MAXIMUM WINDING TEMPERATURE (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 N</td>
<td>110 N</td>
<td>≤0.02 mm</td>
<td>85° C</td>
</tr>
</tbody>
</table>

**TOTAL LENGTH (GEARBOX AND MOTOR):**

- L1: 36+6+2 = 44 mm
- L2: 36+6+2 = 44 mm
- L3: 36+6+2 = 44 mm

**TOTAL LENGTH (GEARBOX AND MOTOR):**

- L1: 36+6+2 = 44 mm
- L2: 36+6+2 = 44 mm
- L3: 36+6+2 = 44 mm

**TOTAL LENGTH (GEARBOX AND MOTOR):**

- L1: 36+6+2 = 44 mm
- L2: 36+6+2 = 44 mm
- L3: 36+6+2 = 44 mm

### REMARKS

- Clients can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.
- Motor Data Tested at 25°.
- Motor Operation exceeds continuous limits of operating range will compromise the life of the device.

ASSUN MOTOR

www.assunmotor.com | info@assunmotor.com