**DC Brushless Motor**
**AM-BL3260A/B-4P Series**

2015 edition. Specifications are subject to change without notice.

### BRUSHLESS MOTOR

<table>
<thead>
<tr>
<th>MOTOR MODEL</th>
<th>1208</th>
<th>1207</th>
<th>2409</th>
<th>2407</th>
<th>3609</th>
<th>3607</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOMINAL VOLTAGE V</td>
<td>12</td>
<td>12</td>
<td>24</td>
<td>24</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>NO LOAD SPEED ±12% rpm</td>
<td>8244</td>
<td>6870</td>
<td>9160</td>
<td>7495</td>
<td>8833</td>
<td>7274</td>
</tr>
<tr>
<td>NO LOAD CURRENT Max 150% mA</td>
<td>400</td>
<td>300</td>
<td>210</td>
<td>180</td>
<td>150</td>
<td>140</td>
</tr>
<tr>
<td>Recommend Limit for Continuous Operating mN.m</td>
<td>119.54</td>
<td>121.76</td>
<td>114.64</td>
<td>116.82</td>
<td>110.92</td>
<td>116.26</td>
</tr>
<tr>
<td>rpm</td>
<td>7378</td>
<td>6000</td>
<td>8372</td>
<td>6708</td>
<td>8104</td>
<td>6523</td>
</tr>
<tr>
<td>A</td>
<td>9.00</td>
<td>7.60</td>
<td>4.80</td>
<td>4.00</td>
<td>3.00</td>
<td>2.6</td>
</tr>
<tr>
<td>W</td>
<td>92.36</td>
<td>76.50</td>
<td>100.69</td>
<td>82.05</td>
<td>94.14</td>
<td>79.41</td>
</tr>
<tr>
<td>STARTING CURRENT mA</td>
<td>85714</td>
<td>60000</td>
<td>58614</td>
<td>38095</td>
<td>36384</td>
<td>25175</td>
</tr>
<tr>
<td>STALL TORQUE mN.m</td>
<td>1191</td>
<td>1001</td>
<td>1396</td>
<td>1165</td>
<td>1415</td>
<td>1190</td>
</tr>
<tr>
<td>MAXIMUM POWER OUTPUT W</td>
<td>257.1</td>
<td>180.0</td>
<td>334.9</td>
<td>228.6</td>
<td>327.3</td>
<td>226.6</td>
</tr>
<tr>
<td>MAXIMUM EFFICIENCY %</td>
<td>87</td>
<td>86</td>
<td>88</td>
<td>87</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>TERMINAL RESISTANCE PHASE TO PHASE ±12% Ω</td>
<td>0.14</td>
<td>0.20</td>
<td>0.43</td>
<td>0.63</td>
<td>0.99</td>
<td>1.43</td>
</tr>
<tr>
<td>MECHANICAL TIME CONSTANT ms</td>
<td>1.11</td>
<td>1.10</td>
<td>1.06</td>
<td>1.03</td>
<td>1.00</td>
<td>0.98</td>
</tr>
<tr>
<td>MOMENT OF INERTIA gcm²</td>
<td>153</td>
<td>153</td>
<td>153</td>
<td>153</td>
<td>153</td>
<td>153</td>
</tr>
<tr>
<td>TORQUE CONSTANT mN.m/A</td>
<td>13.9</td>
<td>16.88</td>
<td>25.02</td>
<td>30.58</td>
<td>38.92</td>
<td>47.26</td>
</tr>
<tr>
<td>SPEED CONSTANT rpm/V</td>
<td>687</td>
<td>572</td>
<td>382</td>
<td>312</td>
<td>246</td>
<td>202</td>
</tr>
<tr>
<td>SPEED/TORQUE GRADIENT rpm/mN.m</td>
<td>6.9</td>
<td>6.9</td>
<td>6.6</td>
<td>6.4</td>
<td>6.2</td>
<td>6.1</td>
</tr>
<tr>
<td>WEIGHT g</td>
<td>240</td>
<td>240</td>
<td>240</td>
<td>240</td>
<td>240</td>
<td>240</td>
</tr>
</tbody>
</table>

### ADDITIONAL INFORMATION

**MAXIMUM ROLLING BEARING LOADS**

- **AXIAL (DYNAMIX):** 6 N
- **PRESS-FIT FORCE:** 110 N
- **MAXIMUM RADIAL PLAY:** 0.02mm
- **MAXIMUM WINDING TEMPERATURE:** 155 °C
- **RADIAL (5MM FROM HEAD FACE):** 28 N
- **L: MAX ALLOWABLE SCREW DEPTH INTO FLANGE 4.0 mm**
- **AXIAL PLAY:** 0 (~0.0N)
- **AMBIENT TEMPERATURE RANGE:** -30 to 65 °C

**AMERICAN NATIONAL STANDARDS INSTITUTE**

- **CABLE 1: WINDING A**
  - L1:36P
  - 34.1
- **CABLE 2: WINDING B**
  - L1:45P
  - 38.6
- **CABLE 3: WINDING C**
  - L2:BL36
  - 60.0
- **PLUG DEFINITION MOLEX 51021-0500**
  - **PLUG 1:** HALL VCC
  - 51.3
  - **PLUG 2:** HALL GND
  - 59.9
  - **PLUG 3:** HALL A
  - 60.2
  - **PLUG 4:** HALL B
  - 71.0
  - **PLUG 5:** HALL C
  - 10.7

**TOTAL LENGTH (GEARBOX AND MOTOR):** L=L1+L2+L3

- **L1:36P**
- **L1:45P**
- **L2:BL36**
- **L3:EN22-S**
- **L3:EN36-T**

**For more gearbox specs, see Assun Motor website.**

### REMARKS

Clients can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.

Motor Data Tested at 25°C.
Motor Operation exceeds continuous limits of operating range will compromise the life of the device.

**ASSUN MOTOR**

www.assunmotor.com | info@assunmotor.com