AUBO MRJ JOINT MODULE

Create Your Own High Performance Robots with AUBO-MRJ Joint Module

AUBO-MRJ Serials

AUBO - MRJ060A-I    AUBO - MRJ075A-I
AUBO - MRJ075A-II   AUBO - MRJ090A-II

MRJ is a Joint Module Which Integrates BLDC, Motor Driver, Harmonic Drive, Sensors, Brake (Optional) and Encoder
## MRJ Based Products

**Modular**
- Deeply integrated

**High Load weight ratio**
- Endless turn

**CAN bus**
- Cost-effective

**Easy to upgrade and maintain**
- Fully function APIs

<table>
<thead>
<tr>
<th></th>
<th>MRJ090A-II</th>
<th>MRJ075A-II</th>
<th>MRJ075A-I</th>
<th>MRJ060A-I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>90mm</td>
<td>75mm</td>
<td>75mm</td>
<td>60mm</td>
</tr>
<tr>
<td>Height</td>
<td>96.1mm</td>
<td>90.8mm</td>
<td>76mm</td>
<td>72.4mm</td>
</tr>
<tr>
<td>Input fixation</td>
<td>8×M4 ↓ 6</td>
<td>8×M4 ↓ 4.5</td>
<td>8×M4 ↓ 4.5</td>
<td>6×M3 ↓ 4.5</td>
</tr>
<tr>
<td>Output fixation</td>
<td>8×M4 ↓ 6</td>
<td>8×M4 ↓ 4.5</td>
<td>8×M4 ↓ 4.5</td>
<td>6×M3 ↓ 4.5</td>
</tr>
<tr>
<td>Nominal Torque</td>
<td>30Nm</td>
<td>16Nm</td>
<td>14Nm</td>
<td>5Nm</td>
</tr>
<tr>
<td>Nominal Speed</td>
<td>12.5RPM</td>
<td>12.5RPM</td>
<td>15RPM</td>
<td>15RPM</td>
</tr>
<tr>
<td>Average Torque</td>
<td>32Nm</td>
<td>26Nm</td>
<td>26Nm</td>
<td>7.3Nm</td>
</tr>
<tr>
<td>Max Torque</td>
<td>90Nm</td>
<td>67Nm</td>
<td>67Nm</td>
<td>33Nm</td>
</tr>
<tr>
<td>Torque Gradient</td>
<td>25.2Nm /A</td>
<td>19.2Nm /A</td>
<td>16Nm /A</td>
<td>16Nm /A</td>
</tr>
<tr>
<td>Weight</td>
<td>1393g</td>
<td>927g</td>
<td>758g</td>
<td>471g</td>
</tr>
<tr>
<td>Brake Present</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Encoder**
- Multiturn Absolute Encoder
- Multiturn Absolute Encoder
- Multiturn Absolute Encoder
- Multiturn Absolute Encoder

**Sensors**
- Acceleration, Temperature, Voltage & Current
- Acceleration, Temperature, Voltage & Current
- Acceleration, Temperature, Voltage & Current
- Acceleration, Temperature, Voltage & Current

**Power**
- 24VDC
- 24VDC
- 24VDC
- 24VDC

**Repeatability**
- ±0.5°
- ±0.5°
- ±0.5°
- ±0.5°

**Position Resolution**
- 0.05°
- 0.05°
- 0.05°
- 0.05°

**Communication**
- CAN
- CAN
- CAN
- CAN

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