Unmanned Flight Control Actuation

Kearfott Corporation
a subsidiary of Astronautics Corporation of America

Innovative Solutions

Compact Low Profile
- Proven Kearfott precision components
- Innovative integrated designs

Compact high performance package

Rugged Construction
- Built to MIL-SPEC equivalent
- All alloy powertrains
- High temp insulation systems

Capable in the harshest conditions

High Reliability Proven Components
- Proven Kearfott motor, sensor modules
- Customized available interfaces

Short Lead Times & LOW RISK

Light Weight Integrated solution
- Kearfott innovative design solution
- Integrated designs eliminate part count

LOW COST & Light Weight

Proven Technologies

Electric Motors
- Brushless PM DC
- Induction
- Synchronous and Stepper

Position Sensors
- Single and multi-speed resolvers
- RVDT and LVDTs

Digital Controllers
- Power stage
- Loop closure
- Advanced control algorithms
- Serial, ARINC, CAN

Precision Gearing
- Anti-Backlash
- Spur Powertrain
- Differential and Planetary
- Epicyclic / power hinge
- AGMA quality class 12

Kearfott Corporation
Motion Systems Division
2858 US Highway 70 W
Black Mountain, NC 28711
(828) 350-5300 www.kearfott.com
## Performance Characteristics

<table>
<thead>
<tr>
<th>Performance Characteristics</th>
<th>µSERVO™</th>
<th>K2000</th>
<th>K2000 Hi Torque</th>
<th>K3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>No-Load Speed (°/sec)</td>
<td>275</td>
<td>250</td>
<td>125</td>
<td>200</td>
</tr>
<tr>
<td>Torque (in-lbs)</td>
<td>25</td>
<td>25</td>
<td>50</td>
<td>75</td>
</tr>
<tr>
<td>Speed @ Torque (°/sec)</td>
<td>200</td>
<td>200</td>
<td>100</td>
<td>75</td>
</tr>
<tr>
<td>Voltage (V)</td>
<td>24</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Current (A)</td>
<td>1.5 MAX (configurable)</td>
<td>.5 MAX</td>
<td>.5 MAX</td>
<td>3.5 MAX</td>
</tr>
<tr>
<td>Peak Torque (in-lbs)</td>
<td>40</td>
<td>50</td>
<td>90</td>
<td>75</td>
</tr>
<tr>
<td>Operating Temperature Range (°C)</td>
<td>-40 to 70</td>
<td>-40 to 70</td>
<td>-40 to 70</td>
<td>-40 to 70</td>
</tr>
<tr>
<td>Frequency Response (Hz)</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Command Interface</td>
<td>Analog (PWM), Digital (RS485)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (lb)</td>
<td>0.4</td>
<td>0.5</td>
<td>0.7</td>
<td>0.9</td>
</tr>
</tbody>
</table>

Information on this sheet is for reference only; specifications are subject to change.