MOOG
T161 Series
Rack Mount Digital
Brushless Motor Controller

CONTROLLER AND POWER SUPPLY SYSTEM FEATURES

Microprocessor Based
Standard Euro Rack (6U) 19 Inch Rack
1, 2, 3, 4 or 6 Axes PCB Backplanes
Simple Set-Up and Tuning with Hand Held Terminal
PC Set-Up via “WinDrive” Graphical User Interface
Software or “MOOGTERM” Software.

RS232/RS485 Serial Port
Compact Size
1 Phase or 3 Phase Operation
Direct 220 VAC Line Operation
Custom Configurations Available - Consult Factory
CONTROLLER FEATURES

- Sinusoidal Three Phase Drive
- Built-In Heat Sink
- Programmable Velocity or Current Control
- Diagnostics, Function Generator for Tuning
- Resolver Based System
- Quick Change Modular Construction
- Extended Function Card (Option)
  - Programmable Encoder Simulator
- Programmable Analog Test Points
- Configuration Stored In Non-Volatile E²PROM

CONTROLLER PROTECTION

- Watchdog Timer
- Power Supply Fault Monitor
- Over Current
- Short Circuit
- Motor Temperature
- Controller Overtemperature
- Feedback Loss
- Commutation Fault
- Logic Voltage

SPECIFICATIONS

Output Ratings (A rms)

<table>
<thead>
<tr>
<th>Model</th>
<th>Continuous*</th>
<th>Peak*</th>
</tr>
</thead>
<tbody>
<tr>
<td>T161-901</td>
<td>3.0</td>
<td>5.0</td>
</tr>
<tr>
<td>T161-902</td>
<td>5.0</td>
<td>10.0</td>
</tr>
<tr>
<td>T161-903</td>
<td>8.0</td>
<td>20.0</td>
</tr>
<tr>
<td>T161-904</td>
<td>12.0</td>
<td>40.0</td>
</tr>
</tbody>
</table>

Switching Frequency:
10KHz (-001, -002), 5KHz (-003, -004)

Operating Temperature:
0° - 55°C ambient

Weight:
- 5.0 lbs. [2.3 kg] (-901, -902, -903)
- 7.6 lbs. [3.5 kg] (-904)

*NOTE:
Fan tray minimum 300 C.F.M. [8.49 Cubic Meters/Minute]
Total Required at 2.0 Inches Water Column [469 kPa].
Refer to installation drawing for fan installation specifications.

SPECIFICATIONS CONTINUED

<table>
<thead>
<tr>
<th>Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>T161-901</td>
<td>10.35 in. [262.9]</td>
<td>2.40 in. [61.0]</td>
<td>9.75 in. [247.7]</td>
</tr>
<tr>
<td>T161-902</td>
<td>10.35 in. [262.9]</td>
<td>3.60 in. [91.44]</td>
<td>9.75 in. [247.7]</td>
</tr>
</tbody>
</table>

Unless otherwise specified, dimensions in brackets are in millimeters.
Unless otherwise specified, dimensions in brackets are in millimeters.
REAR CONNECTION BACKPLANE INSTALLATION

Unless otherwise specified, dimensions in brackets are in millimeters.