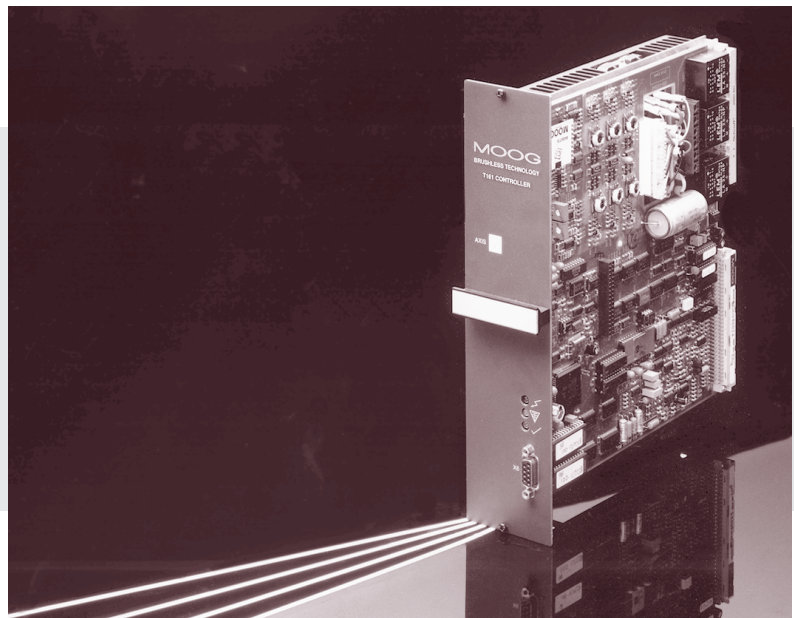


# MOOG

## T161 Series

### Rack Mount Digital Brushless Motor Controller



CE

#### 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

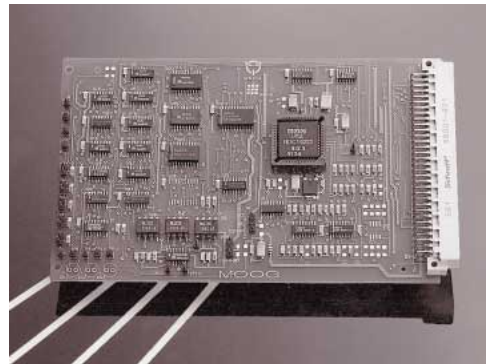
## CONTROLLER FEATURES

- 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 E<sup>2</sup>PROM

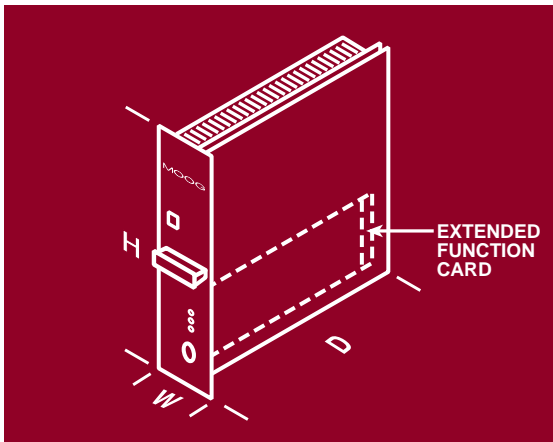
## CONTROLLER PROTECTION

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

Extended Function Card  
Optional Encoder Simulator



## SPECIFICATIONS



Model	Height	Width	Depth
T161-901 T161-902 T161-903	10.35 in. [262.9]	2.40 in. [61.0]	9.75 in. [247.7]
T161-904	10.35 in. [262.9]	3.60 in. [91.44]	9.75 in. [247.7]

## Output Ratings (A rms)

Model	Continuous*	Peak*
T161-901	3.0	5.0
T161-902	5.0	10.0
T161-903	8.0	20.0
T161-904	12.0	40.0

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

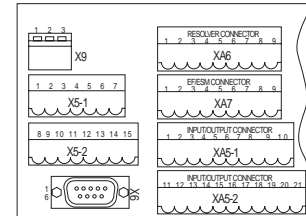
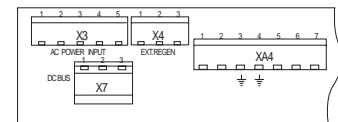
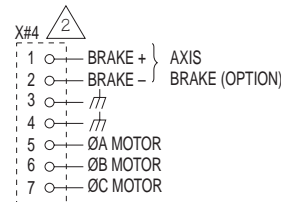
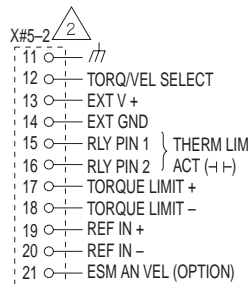
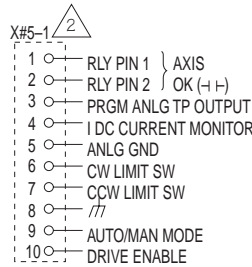
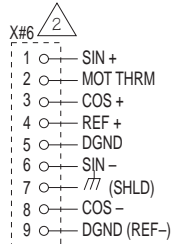
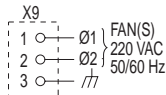
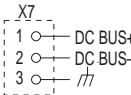
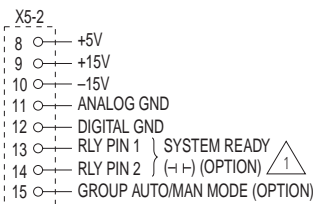
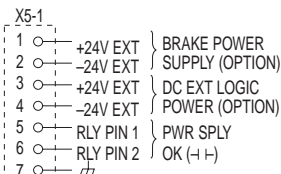
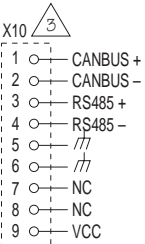
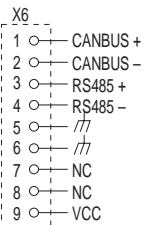
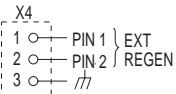
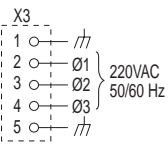
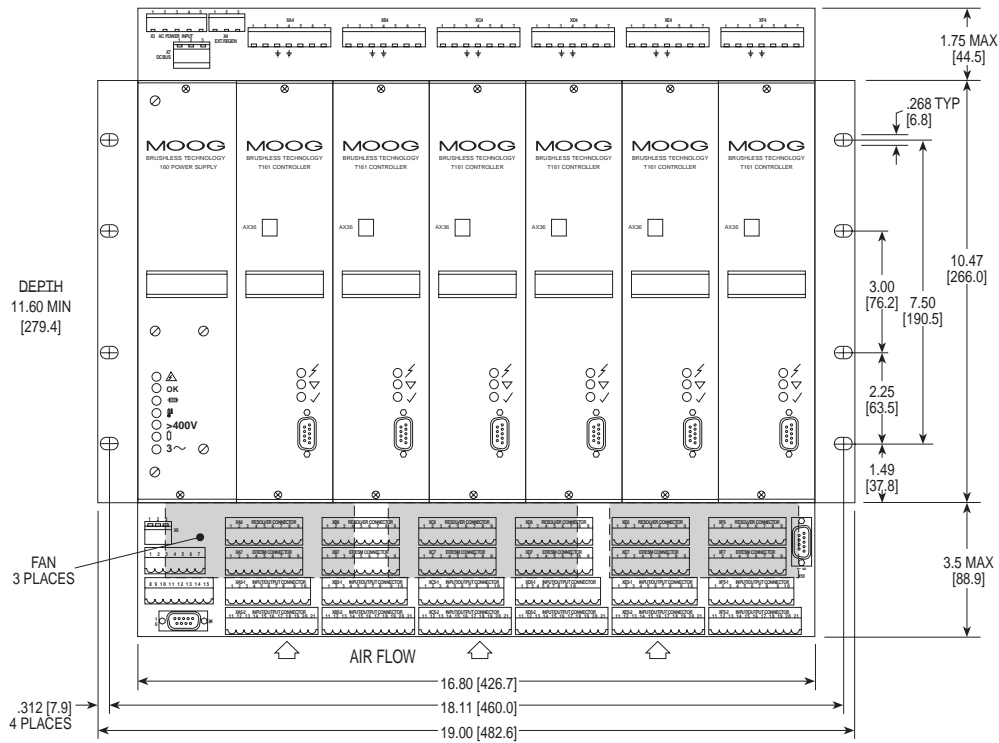
Operating Temperature:  
0° - 55°C ambient

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.

Unless otherwise specified, dimensions in brackets are in millimeters.

# TOP/BOTTOM CONNECTION BACKPLANE INSTALLATION



**NOTES:**

① SYSTEM READY IS A FAULT INDICATOR FOR THE POWER SUPPLY AND ANY OF THE 6 CONTROLLER AXES (OPTION).

② THESE CONNECTORS ARE IDENTICAL FOR EACH OF THE 6 CONTROLLER AXES. EX. FOR AXIS A. X#1 = XA1 FOR AXIS B. X#1 = XB1

③ WHEN USING MULTIPLE RACK SYSTEMS REFER TO USER MANUAL FOR PROPER RS 485 TERMINATIONS.

Unless otherwise specified, dimensions in brackets are in millimeters.

