

WP7214

For Clipper Liberty Wind Turbine

Description

Wind turbines require reliable transmission of power and data signals from the nacelle to the control system for the rotary blades. Moog's slip rings provide the performance and quality needed in demanding environments. Costly downtime is eliminated by using fiber brushes and robust mechanical components in the slip ring design.

Fiber Brush Technology

Over 30 years ago, Moog developed and patented the fiber brush technology for high reliability slip rings. The patented approach has led to hundreds of different slip ring designs for challenging applications which include satellite solar array drive power transfer, helicopter rotor blade de-icing, radar pedestals, industrial packaging equipment and now wind turbines — just to name a few. The unique feature of the fiber brush technology is its ability to perform in environmental and operational extremes. In addition, the fiber brush has the capability to handle high power while at the same time transferring data signals. And all this performance while maintenance free for over 100 million revolutions.



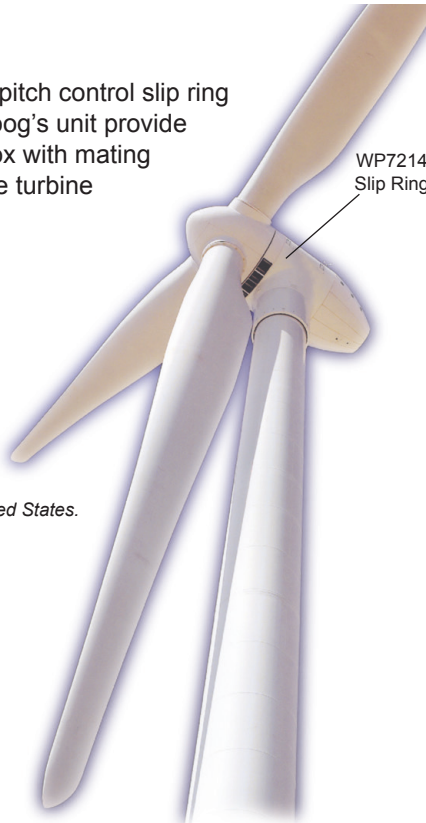
Direct Slip Ring Replacement

Moog now offers a direct replacement pitch control slip ring for the Clipper Liberty wind turbine. Moog's unit provide a direct interface to the turbine gear box with mating connections for direct connection to the turbine wire harness.

Features

- No maintenance required
- Direct bolt-in replacement
- Rugged dual-row bearing
- Heater for cold weather installations

**Clipper Liberty (www.clipperwind.com) is one of the largest wind turbine manufacturers in the United States.*



Advantages

- Maintenance free for 100 million revolutions
- Minimal wear debris generation
- No lubrication required
- Wide operating temperature
- Lower life cycle cost
- High reliability
- No periodic inspections required

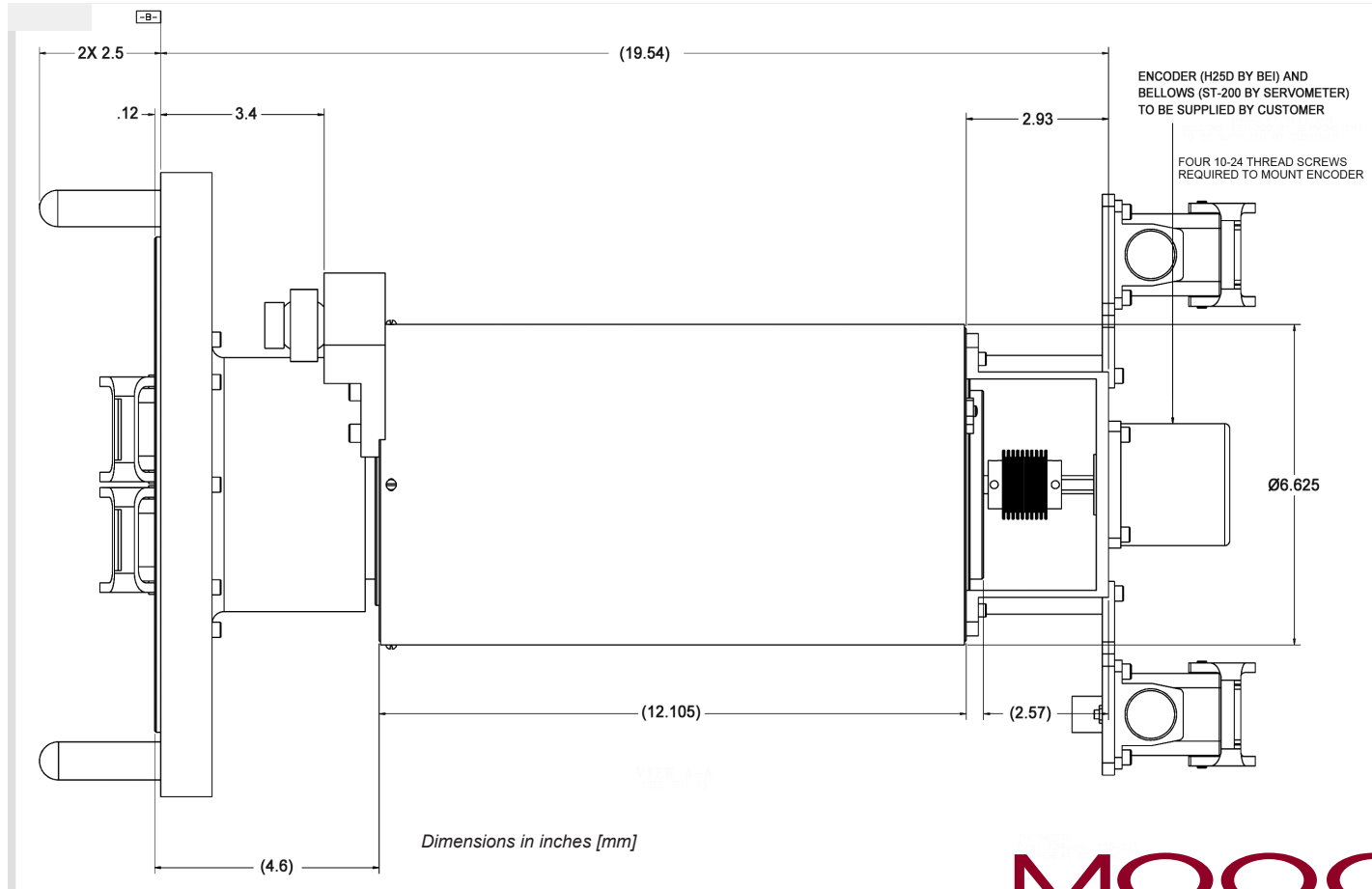
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Pitch Control Slip Ring

Specifications	
Weight	60 pounds
Brush Material	Silver alloy
Ring Material	Silver plate
Brush Life	> 100 million revolutions
Ring Life	> 100 million revolutions
Lubrication	No lubrication required
Cleaning / Maintenance Interval	No maintenance required
Power Circuit Rating	85 amps at 600 volts
Communication Lines	100 Mbps
Operating Temperature	-40°C to +80°C
Heating Element	13 watts, standard
Sealing	IP 54

	Group 1	Group 2	Group 3
Number of Connections	4	2	12
Nominal Current	85 amps	15 amp	Data Lines
Max Operating Voltage	460 VAC	220 VAC	Logic; RS485

WP7214 Dimensions



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Specifications and information are subject to change without prior notice.
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Moog Inc., Blacksburg Operations
 1213 North Main Street, Blacksburg, VA 24060 • 800-336-2112 • +1-540-552-3011 • Fax +1-540-557-6400
 www.moog.com • email: mcg@moog.com