

WIND TURBINE SLIP RING (WP7358)

High-reliability, no maintenance for
Suzlon S88 wind turbine



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.

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. 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 offers a direct replacement pitch control slip ring for the *Suzlon S88 wind turbine. Moog's unit provides direct connection to the gearbox with wire terminal connections in both the stator and rotor junction boxes. Each unit is shipped with a heater already installed for cold weather installations.

Features:

- Direct bolt-in replacement
- Rugged dual-row bearing
- Heater for cold weather installations



ADVANTAGES

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

*The Suzlon Group (www.suzlon.com) is one of the world's leading wind power company, turbine manufacturers.

**Periodic inspection of the unit for contamination on the slip ring is recommended

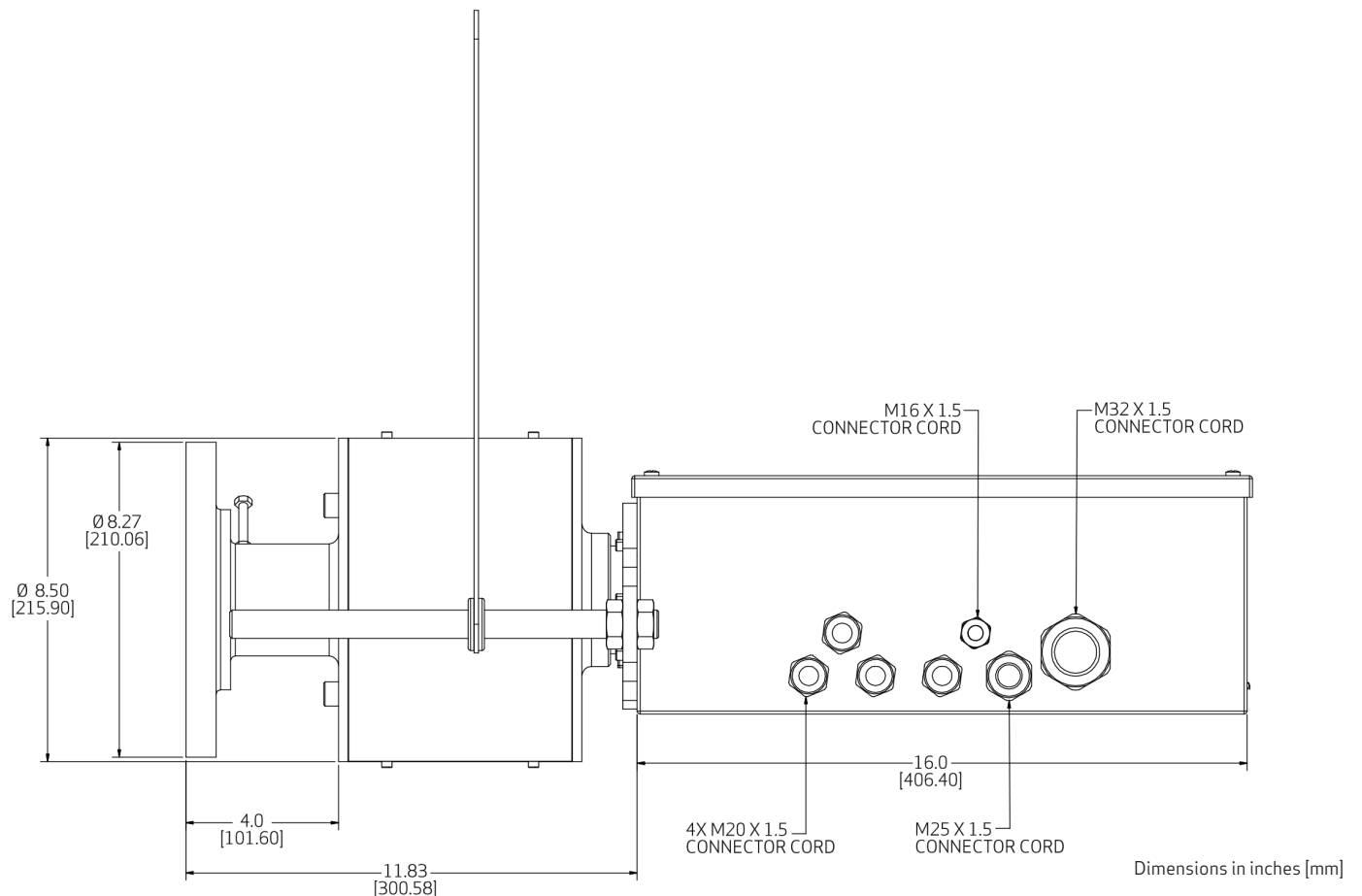
SPECIFICATIONS

TECHNICAL DATA

Weight	25 kg (55 lb)
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	65 amps at 600 volts
Communication lines	100 Mbps
Operating temperature	-40 to +80°C (-104 to 176°F)
Heating element	13 watt, 240 volts standard
Sealing	IP54

	Group 1	Group 2	Group 3	Group 4
Circuit numbers	IPE, 2-4	5, 6, 7PE, 8, 9, 10PE	11-16	17-22
Number of leads	4	6	6	6
Nominal current	65 amps	16 amps	10 amps	Data lines
Maxium operating voltage	600 volts	600 volts	600 volts	600 volts
Wire gage	8 AWG	14 AWG	16 AWG	16 AWG and 20 AWG

This unit has a heater for condensation reduction. The heater is 30 watt output, 240 V. To connect heater provide 240 V supply to the 3-position terminal #23 in the stator junction box. The heater circuit is fused with a .3 amp/250 V MDL buss fuse. Stator 3-position terminal #25 is the connection for the RTD temperature probe.



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