Gamesa G8X/G9X Wind Turbine Slip Ring (F 7146)

High-reliability

Wind turbines require reliable transmission of power and data signals from the nacelle to 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.

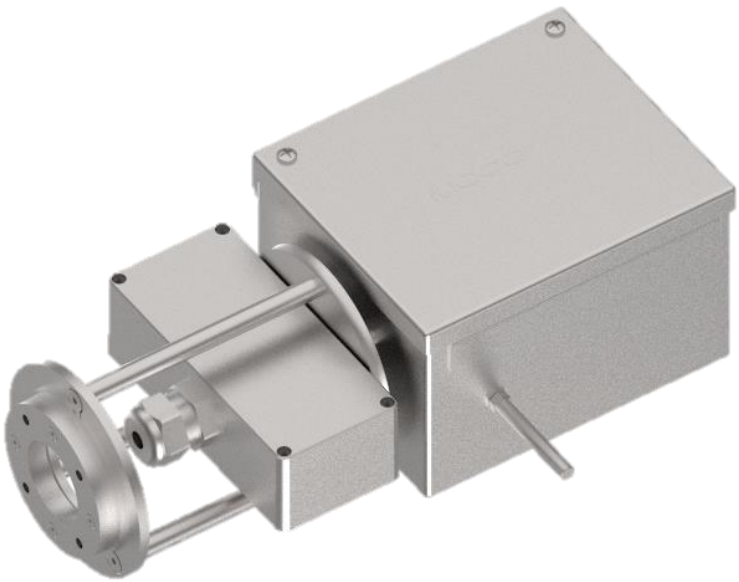
Direct Slip Ring Replacement

Moog offers a direct replacement slip ring for the Gamesa G8X/G9X wind turbine. Moog's unit is placed on the wind turbine`s low-speed shaft, in the rear part of the gearbox and is attached to the hydraulic rotary union. The slip ring is equipped with wire terminal connections in both the stator and rotor junction boxes. That means you can use the existing cable harness.

Weight	9,5kg
Brush material	Silver alloy
Ring material	Silver plate
Brush and Ring life	> 100 million revolutions
Lubrication	No lubrication required
Cleaning/maintenance interval	No maintenance required
Operating temperature	-40 to +80°C
Sealing after assembly	IP65

ADVANTAGES/FEATURES

- Maintenance free for 100 million revolutions
- Minimal wear debris generation, because of used fiber brush technology
- No lubrication required
- Direct bolt-in replacement
- IP65 sealed enclosure
- Wide operating temperature
- Lower life cycle cost
- High reliability



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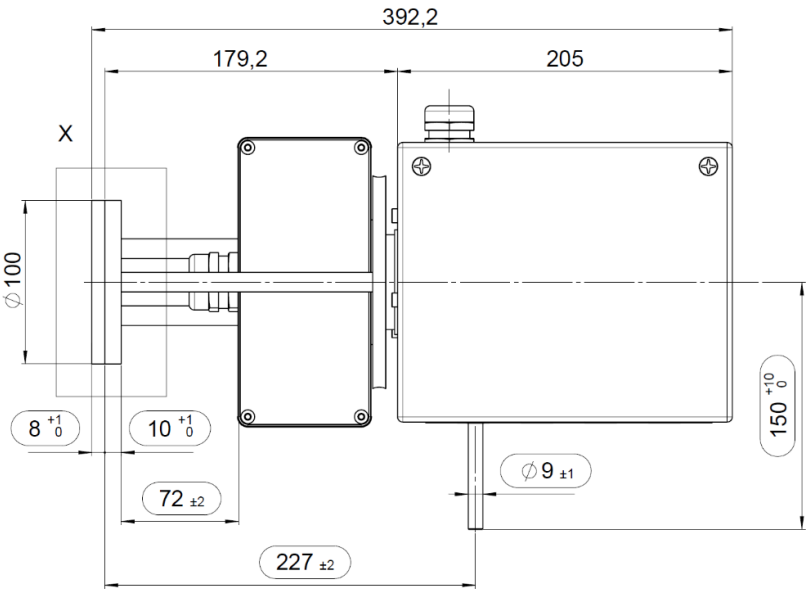
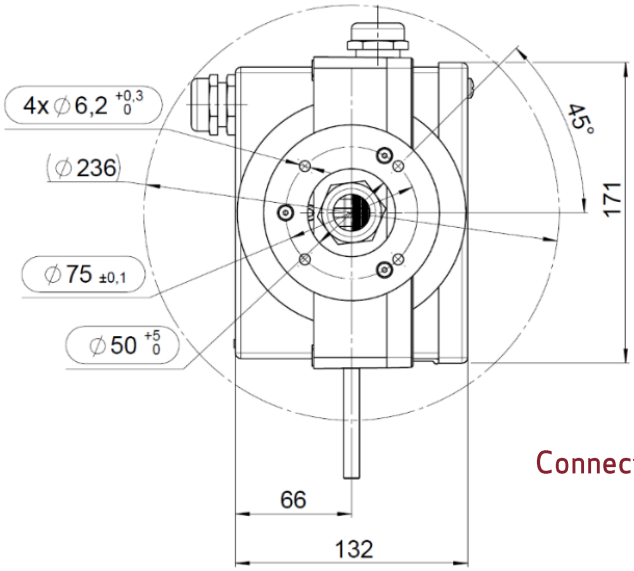


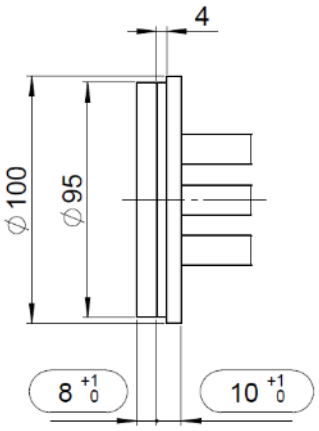


Des. of ways	Electrical values	Connection terminal No.
CAN	Data up to 12Mbit/s	1
CAN	Data up to 12Mbit/s	2
CAN	Data up to 12Mbit/s	3
CAN	Data up to 12Mbit/s	4
Signal Display	Data up to 12Mbit/s	5
Signal Display	Data up to 12Mbit/s	6
Signal Display	Data up to 12Mbit/s	7
Signal Display	Data up to 12Mbit/s	8
Signal Display	Data up to 12Mbit/s	9
Signal spare	Data up to 12Mbit/s	10
Signal spare	Data up to 12Mbit/s	11
Signal spare	Data up to 12Mbit/s	12
Signal spare	Data up to 12Mbit/s	13
Power 1	6A/ 230V	14
	6A/ 230V	15
GND/PE	10A	16
Power 2	6A/ 230V	17
	6A/ 230V	18
Power 3	4A/ 230V	19
	4A/ 230V	20
Power 4	10A/ 500V	21
	10A/ 500V	22
	10A/ 500V	23

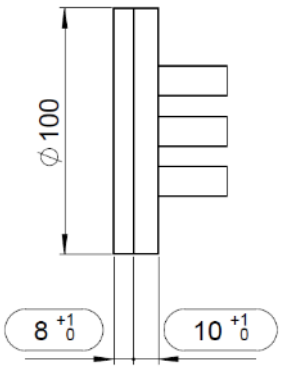
Connection terminals doubled: 21, 22, 23

Connection possibilities:

Variant 1:



Variant 2:



Moog has offices around the world.
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www.moog.com

Gamesa G8X/G9X Wind Turbine Slip Ring (F 7146) Technical Data Sheet MR ML, rev.0, 09/20

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