

SERVICE

Synchronous 4 and 6 Pole Motor Reliability Enhancement

ABB Electrification Industrial Solutions



ABB Service Centers can improve the reliability and performance of synchronous motors manufactured by ABB and other OEMs with an ABB installed rotor lead enhancement.

The ABB Service Center will inspect your machine, identify opportunities to increase reliability and, if necessary, recommend replacing the old style pole to pole connection via the V-block with the new pole to pole connection via the shaft. In addition, ABB Service Centers will make recommendations for additional repairs and upgrades such as ground wall and turn insulation. As part of the inspection, Field Service Engineers will also help you identify consumable and strategic spares to be held in stock in order to reduce the risk of significant unplanned outages.

Benefits

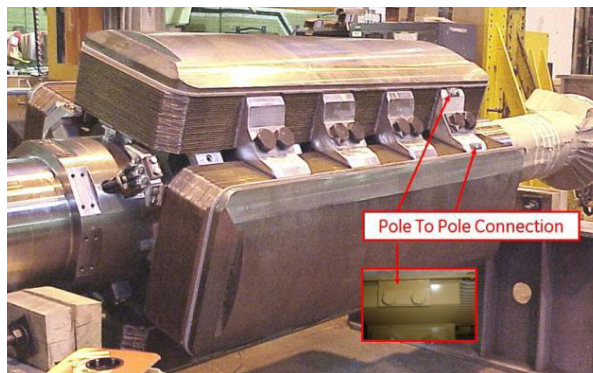
- Increase machine reliability
- Increase equipment life
- Increase plant uptime and productivity
- Reduce maintenance costs

Additional Options

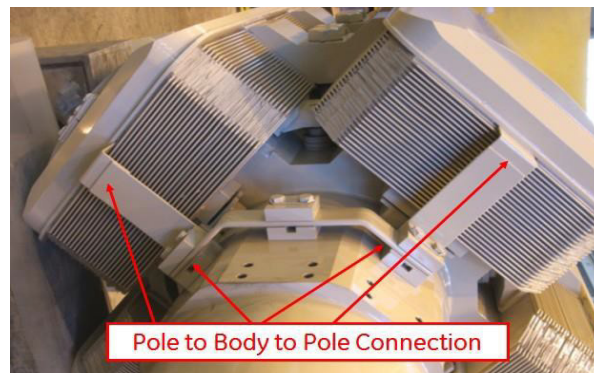
New insulation hardware on lead connection end
 High stress fasteners replacement
 Rotating converter replacement parts
 New leads from exciter to pole connections
 Recommended list of consumable and strategic spares

01 Previous design: Pole to Pole Connections via the V-Blocks

02 New enhanced design: Pole to Pole Connection via the shaft



01



02

Spares to maximize plant uptime

It is critical to verify your stock of spare parts regularly. Indeed, if a part fails and is not available on site, it will have to be ordered, which can lead to extended downtime. Maintaining a sufficient stock of spares on site provides an insurance against the risk of motor failure.

4 and 6 Pole Motor Recommended Spares

ABB recommends you keep consumable and strategic spares in stock at all times to minimize downtime in operations.

Please find below a list of recommended spares for your 4 and 6 pole motor, whenever applicable

Please work together with our Field Service Engineers to make sure that you have all the recommended spares in stock for your synchronous motor.

Spare part categories

Spares can be divided into four categories:

- **Commissioning spares** – parts that are used during commissioning and the first few years of operation
- **Consumable spares** – components that need to be replaced regularly over the motor lifetime because they wear out
- **Strategic spares** – lifetime spares that can be kept as a stock for easy replacement when component fails at later stages
- **Capital spares** – parts that would cause a long shutdown of the unit if they fail because they have a long delivery time

ABB Advantage

Trust ABB for top-quality reliable service, including:

- Experienced engineering and technical support
- Work performed in accordance with design specifications

	Brushless excitation	Slip ring motors
Commissioning spares	Diodes	Brush
	Varistors	-
Consumable spares	Diodes	Brush
	Varistors	-
	Bearing seals	Bearing seals
	Bearing oil rings	Bearing oil rings
Strategic spares	Shaft earth brush	Shaft earth brush
	Diodes, Varistors	Brush
	SCR's, Filters	-
	Firing Module	-
	Bearing seals	Bearing seals
	Bearing oil rings	Bearing oil rings
	Bearing sleeve	Bearing sleeve
	Shaft earth brush	Shaft earth brush
	Water cooler	Water cooler
	Pressurisation unit	Pressurisation unit
	Leakage detector	Leakage detector
	Vibration probes	Vibration probes
	Key phaser	Key phaser
Space heater	Space heater	
Capital spares	Bearing RTD	Bearing RTD
	Air RTD	Air RTD
	Stator, Rotor, Exciter	Stator, Rotor, Exciter

Contact us:

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