

Synchronous Motor



2 rings (Positive and Negative)

Usually 2-4 brushes per ring

Excitation comes from a stationary DC source

Speed is usually slower than WRIM but can be as high as 1200 RPM

Number of poles are high

Units can be Horizontal and Vertical

RPM is often an even number e.g. 300, 900

300 – 10,000 hp, Up to 16,000 Volts

Questions to ASK!

Nameplate with running ROTOR or EXCITATION Amps

Brush configuration

Performance and history of the brush

IE: Dusting, rapid wear, threading, brush life, etc.

Slip Ring condition (pics of ALL rings will help)

IE: Film=dark, threading, grooving, photographing, etc.

Slip Ring Material

IE: Brass, Bronze, Stainless

Application

IE: What is the motor doing, Duty Cycles, Continuous or intermittent, etc.

Anything else we need to be aware of

IE: Any Shock Loads, Contamination, Etc.

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