



4-6 pole synchronous motors

Laminated cylindrical, bolt-on solid pole or integral solid pole rotor

GE Power Conversion's synchronous motors are designed and manufactured to operate efficiently in a technologically complex and regulated environment where reliability, availability, and ease of maintenance are critical.

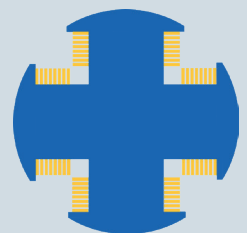
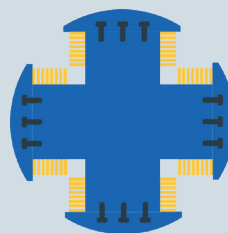
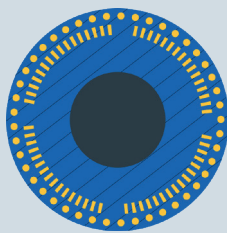
Our engineering expertise, and understanding of the complete process, complimented by our system integration studies, means that our customers can benefit from an overall enhanced, total system for compressor train processes or other industrial application enabling larger speed ranges delivered by smaller, lower power-driven machines.

Rotor technology

Laminated cylindrical

Bolt-on solid pole

Integral solid pole



Power capacity

Medium, up to 20 MW

High, over 20 MW

High, over 20 MW

Efficiency

Medium, <98%

High, >98%

High, >98%

Direct On Line starting conditions

High load torque
Medium inertia

Medium load torque
Medium inertia

Medium load torque
High inertia

Starting method

With soft starter for high load torque and high inertia



The advantage of GE synchronous motor technology

Power factor leading of lagging
Reducing utility power factor penalties

Higher efficiency than induction
Operating cost saving

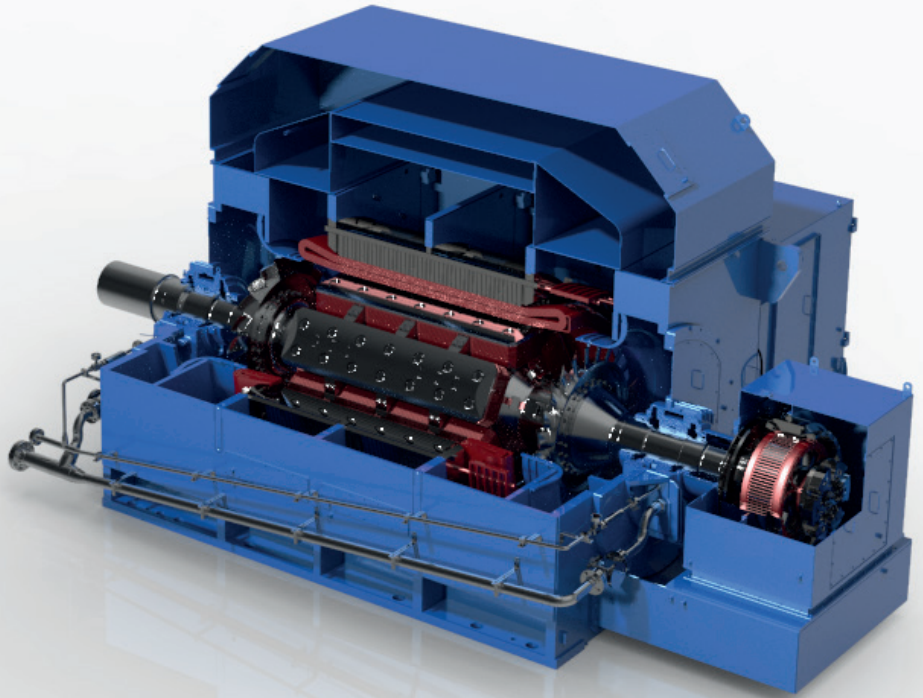
Designed for RAM
Reliability Availability Maintainability

Low starting current
Avoid use of soft starter

Fully customizable
Compliance with customer request

A proven technology

The worldwide installed base for GE synchronous 4 and 6 pole motors accounts for over 800 units and 5,700 MW of power.



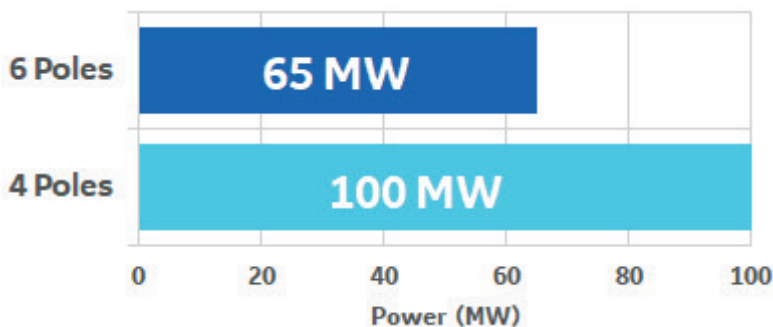
FEATURES & BENEFITS

- **Compliant with global standards** - IEC, API, IEEE, NEMA
- **Optimized design tools** - Vibration, noise, FEA, starting study
- **Different rotor technology** - The right product for the right application
- **System Optimization** - Motor and Variable Frequency Driver

DECARBONIZATION

- GE high efficiency electrical motors help to reduce global carbon intensity for power generation
- Electrical technology also supersedes mechanical drivers in terms of lower carbon footprint

POWER CAPACITY



To find out more, please email your request to contact.nancy@ge.com