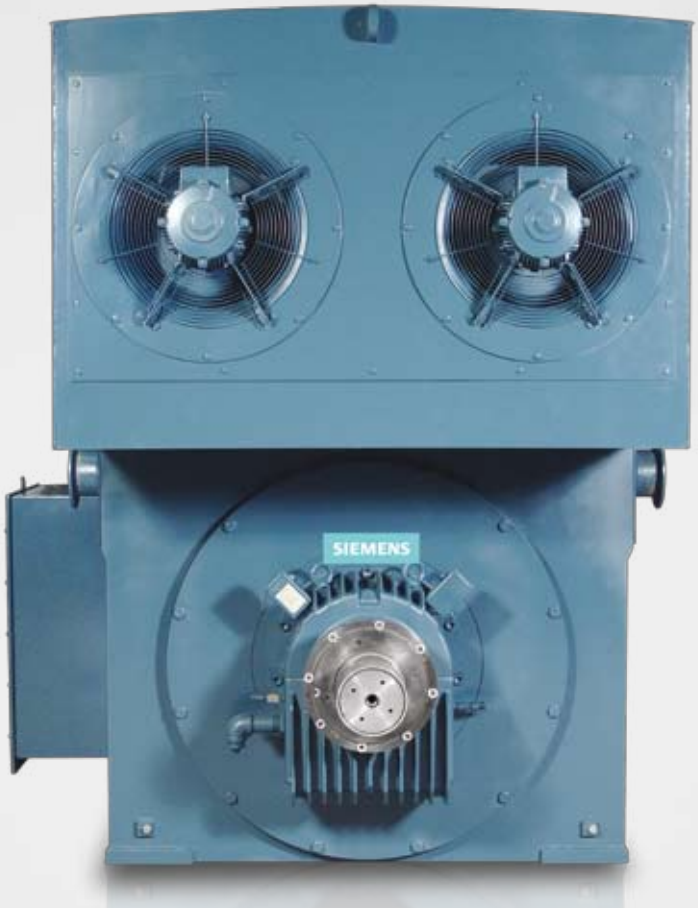
H-compact PLUS Motors

Superior Design for Exceptional Performance



Above NEMA motors

Answers for industry.

SIEMENS

H-compact PLUS Motors.

Designed and Manufactured to Provide Exceptional Value. With power ratings up to 13 MW/18,000 HP and shaft heights up to 710 mm, the H-compact PLUS family of motors is at home everywhere in the process industry, distinguished by its reliability, low maintenance and efficiency.

The H-compact PLUS motors support this reputation by providing users outstanding value for their investment through performance and features designed to meet requirements of the most demanding applications.

Exceptional Efficiency

Siemens engineers designed the H-compact PLUS motors to achieve the highest degree of efficiency:

- High-conductive copper rotors and stator windings provide optimal electrical performance
- Innovative cooling concepts and modular design result in maximized efficiency levels and output and a system that can be integrated into any plant environment
- Low-windage design and precision within all rotating and stationary components minimize friction losses
- Distinctive sleeve bearing design provides premium performance and long life
- High-power density and compact construction meet low space and weight requirements
- Low noise fulfills health and safety requirements

Exceptional Performance

Whether you need a motor that adheres to IEC, NEMA, API 541, NEC, CSA or customer standards, the H-compact PLUS motors meet your requirements without compromise. Using the mechanical, electrical and performance criteria of these organizations as a foundation, the features, construction and materials are designed to meet, and often exceed, national standards for motor performance. The result is excellent operating and electrical performance, low noise and vibration and optimal serviceability.

These performance standards make H-compact PLUS motors the right choice for pumps, compressors, blowers and extruders in industries such as oil and gas, petrochemical, mining, waste water and cement.

Exceptional Service Life

At the heart of every motor is its insulation system, which determines service life. The H-compact PLUS motors feature Siemens' exclusive MICALASTIC®, a comprehensive vacuum impregnation insulation system. With its line-supply and converter-fed operation, corona shielding and high switching and reversing strength, the MICALASTIC system provides outstanding thermal stability, surge strength and resistance to severe electrical and environmental operating conditions.

Siemens also builds each H-compact PLUS motor using the latest equipment and techniques in an ISO 9001-certified environment. Components are precision machined, rotating components are dynamically balanced and each motor is expertly assembled and tested to ensure we keep our promise of superior motor value to our customers.

H-compact PLUS motors are available with a wide selection of cooling configurations and enclosures to meet your constant or variable speed performance and ambient operating environment needs.

Performance Specifications and Features

Enclosure	Speed		Maximum HP*	
	Poles	RPM	SH630	SH710
WPII & TEWAC	2	3600	10000	18000
	4	1800	11000	18000
	6	1200	9000	12000
	8	900	6000	10000
	10	720	4500	7000
TEAAC	2	3600	6000	13000
	4	1800	7000	13000
	6	1200	5500	10000
	8	900	4000	8000
	10	720	2500	5000
Voltages:	4 to 13.8 kV, 50 or 60 Hertz			
Enclosures:	Open circuit-air cooled, weather-protected (WPII) Air to air cooling (TEAAC) Air to water cooling (TEWAC)			
Mounting:	Horizontal / Vertical **			
Operation:	Constant or Variable Speed			
Protection:	IP W24 (WPII) / IP55 (TEAAC & TEWAC)			
Standards:	IEC, NEMA, NEC, CSA, EN50016, EN60079-2, API 541, ANSI			
Bearings:	Sleeve or Anti-Friction			
Hazardous Areas:	IEC - Ex n (non-sparking), Ex p (pressurized) ** NEC - Class I, Division 2			

* Ratings based on 6.6kV / 60 Hz
** SH710 only

For additional ratings (HP, speed, voltage) please contact Siemens.

Quality Manufacturing
From design to materials to workmanship, quality is built into every Siemens motor, the result of more than 100 years of experience capped with today's advanced quality control procedures used in our Certified Quality Performance Program.

Service Around the Corner or Around the World
Professional technical assistance is readily available through your local Siemens sales office. In addition to providing a complete line of spare parts, Siemens can provide troubleshooting support, preventative maintenance services and repair and upgrades at our Norwood, Ohio, service center. Contract your local Siemens sales office for details.

Siemens Motors and Drives, Performance-Matched Systems
Performance-matched variable-speed motors and drives from Siemens make perfect sense. They are designed to work in harmony for ease of selection and startup, as well as long-term reliability and exceptional performance.

Whether your application requires variable torque or constant torque capability in general purpose or severe duty environments, there is a Siemens motor/drive system ready to go to work for you.

Siemens IEC Motors, Worldwide Production for Global Applications
Siemens produces a complete line of IEC motors. The H-Compact line of motors utilizes a torsionally rigid, robust frame design manufactured from cast iron with external and internal cooling ribs. The H-Compact line has output up to 3,000 kW.

The H-Compact PLUS is available in shaft heights of 450 mm, 500 mm, 560 mm, 630 mm and 710 mm. Most shaft heights utilize a modular cooling concept and are built using a cast iron frame with fabricated steel heat-exchangers. The H-Compact PLUS is available with outputs up to 13,000 kW.

The H-Modyn, built in Berlin, Germany, features a high-density and compact design that provides a smaller overall package with an optimized cooling design for exceptional efficiencies. It is available as induction and synchronous and has an output capability beyond 50,000 kW.

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