



HYUNDAI ELECTRIC **Motor & Generator**

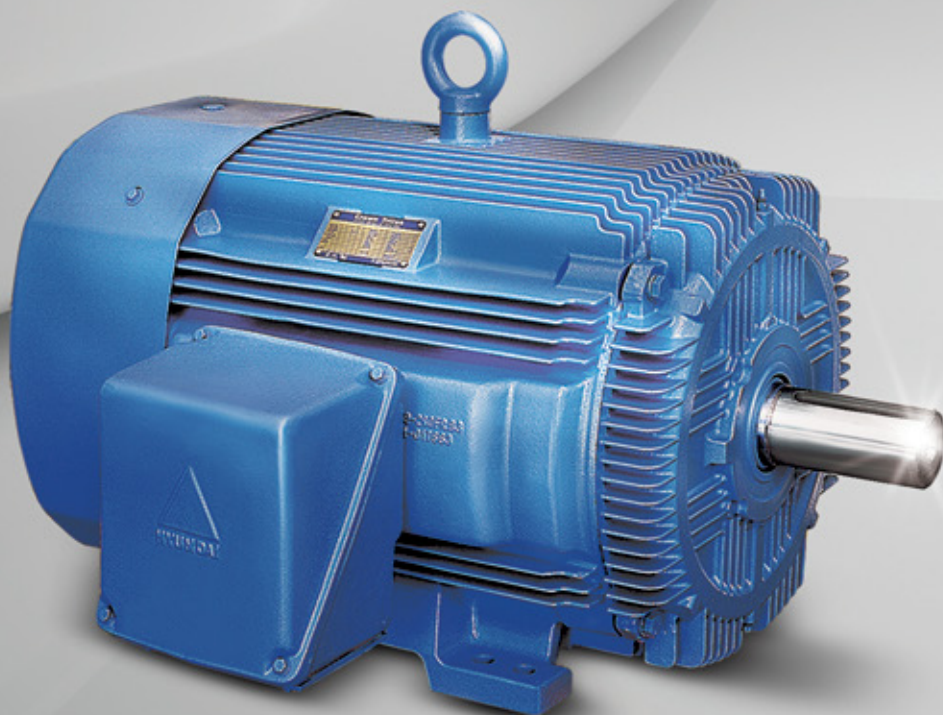


HYUNDAI ELECTRIC

Motor & Generator

Continuous design evolutions for Electric Motor & Generator developed through years of experience, innovation and reliability in building top quality

Our state-of-the-art manufacturing facilities guarantee that all products meet customers' requirements with regard to cost, delivery and quality





Medium & High
Voltage
Induction
Motors

Low Voltage
Induction
Motors

Synchronous
Generators

High Voltage
Synchronous
Motors

Smart Motor

Medium & High Voltage Induction Motors

- 2 - 14 kV
- 50 / 60 Hz
- Vertical mounting is available as an option.
- Motors exceeding the following specification are available as an option.



Totally Enclosed Fan Cooled

- Model : HLE6
- Squirrel Cage Rotor
- 2 - 18 Poles
- 2 - 11 kV
- 120 - 2,350 kW



Totally Enclosed Air to Air Cooled

- Model : HIQ1
- Squirrel Cage Rotor
- 2 - 32 Poles
- 2 - 14 kV
- 880 - 26,900 kW



Totally Enclosed Air to Air Cooled (Vertical)

- Model : HIQ1
- Squirrel Cage Rotor
- 4 - 32 Poles
- 2 - 14 kV
- 880 - 13,500 kW



Totally Enclosed Water to Air Cooled

- Model : HIN1 / HRN3
- Squirrel Cage Rotor
- 2 - 32 Poles
- 2 - 14 kV
- 1,130 - 35,000 kW



Weather Protected I / II

- Model : HIP1 / HRP3
- Squirrel Cage Rotor
- 2 - 32 Poles
- 2 - 14 kV
- 1,130 - 35,000 kW



Weather Protected I / II (Vertical)

- Model : HIP1 / HRP3
- Squirrel Cage Rotor
- 2 - 32 Poles
- 2 - 14 kV
- 1,130 - 19,000 kW



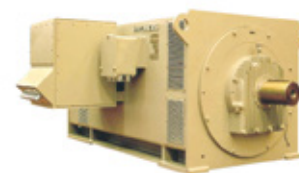
Open Drip Proof

- Model : HIA1 / HRA3
- Squirrel Cage Rotor
- 2 - 32 Poles
- 2 - 14 kV
- 1,130 - 35,000 kW



Totally Enclosed Air to Air Cooled - Wound Rotor

- Model : HRV3
- Wound Rotor with Slip-Ring
- 4 - 12 Poles
- 2 - 14 kV
- 350 - 7,500 kW



Open Drip Proof - Wound Rotor

- Model : HRS3
- Wound Rotor with Slip-Ring
- 4 - 12 Poles
- 2 - 14 kV
- 250 - 18,000 kW

Low Voltage Induction Motors



TEFC Cast Iron Frame Motor

Output Range	0.75 - 750 kW (1 - 1,000 HP)
Voltage	~ 690 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP44, 54, 55, 56, 65, 66
Insulation Class	F, H



TEFC Aluminum Frame Motor

Output Range	0.2 - 7.5 kW (0.3 - 10 HP)
Voltage	~ 690 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP44, 54, 55, 56, 65, 66
Insulation Class	F, H



TEFC Premium Efficiency Motor

Output Range	0.2 - 375 kW (0.3 - 500 HP)
Voltage	~ 600 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP54, 55, 56, 65, 66
Insulation Class	F, H



TEFC Cast Iron Frame Motor

Output Range	0.75 - 750 kW (1 - 1,000 HP)
Voltage	~ 690 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP44, 54, 55, 56, 65, 66
Insulation Class	F, H



TEFC Aluminum Frame Motor

Output Range	0.2 - 7.5 kW (0.3 - 10 HP)
Voltage	~ 690 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP44, 54, 55, 56, 65, 66
Insulation Class	F, H



Drip-proof Motor

Output Range	0.75 - 750 kW (1 - 1,000 HP)
Voltage	~ 690 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP22, 23
Insulation Class	F, H



Marine Motor

Output Range	0.4 - 750 kW (0.5 - 1,000 HP)
Voltage	~ 690 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP44, 54, 55, 56, 65, 66
Insulation Class	F, H



Inverter Shield Motor

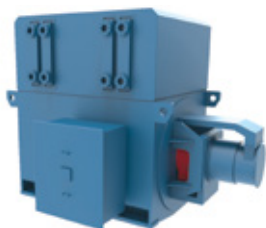
Output Range	0.75 - 750 kW (1 - 1,000 HP)
Voltage	~ 690 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP44, 54, 55, 56, 65, 66
Insulation Class	F, H



IEEE841 Motor

Output Range	0.75 - 200 kW (1 - 250 HP)
Voltage	~ 600 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP44, 54, 55, 56, 65, 66
Insulation Class	F, H

Synchronous Generators



High Speed (HV/MV)

Output	~ 50 MVA
Number of Poles	4
Voltage	2 ~ 14 kV
Frequency	50/60 Hz
Main Application	Steam/Gas Turbine



Medium Speed (HV/MV)

Output	~ 30 MVA
Number of Poles	6 ~ 14
Voltage	2 ~ 14 kV
Frequency	50/60 Hz
Main Application	Diesel/Gas Engine



Medium Speed (LV)

Output	~ 5 MVA
Number of Poles	6 ~ 14
Voltage	~ 1 kV
Frequency	50/60 Hz
Main Application	Diesel/Gas Engine

High Voltage Synchronous Motors



High Speed

Output	~ 30 MW
Number of Poles	4 ~ 6
Voltage	2 ~ 14 kV
Frequency	50/60Hz
Main Application	Compressor, Fan



Medium/Low Speed

Output	~ 20 MW
Number of Poles	8 ~ 30
Voltage	2 ~ 14 kV
Frequency	50/60Hz
Main Application	Reciprocating Compressor, Marine Propulsion



Medium/Low Speed (Vertical)

Output	~ 20 MW
Number of Poles	8 ~ 30
Voltage	2 ~ 14 kV
Frequency	50/60Hz
Main Application	Pump



Smart motor is scheduled to go on sale at 2019.

Smart Connection to The Future
INTEGRICT

Smart Motor

- Motor maintenance optimization through SMART MOTOR
- Fitting sensor easily to the motor and getting operation data
- Remote monitoring and diagnosis on motor health status
- Automatic alarm for a service
- Increasing uptime, improving performance, and optimizing serviceability through data analysis via cloud connection to INTEGRICT





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