



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







CATALOGUE

Low Voltage Induction Motors [KS/IEC]



**SSEN Series Motor - TEFC
Aluminum - Premium Efficiency**

Output Range	0.2 - 0.75 kW (0.3 - 1 HP)
Voltage	~ 600 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP55
Insulation Class	F
Frame Size	71 ~ 80Fr.



**SSEN Series Motor - TEFC Cast iron
Frame - Premium Efficiency**

Output Range	0.75 - 375 kW (1 - 500 HP)
Voltage	~ 600 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP55, 56, 65, 66
Insulation Class	F, H
Frame Size	90 ~ 400Fr.



**SSEN Series Motor - TEFC Cast iron
Frame - Premium Efficiency - Flange**

Output Range	0.75 - 375 kW (1 - 500 HP)
Voltage	~ 600 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP55, 56, 65, 66
Insulation Class	F, H
Frame Size	90 ~ 400Fr.



TEFC Aluminum Frame Motor

Output Range	0.2 - 7.5 kW (0.3 - 10 HP)
Voltage	~ 600 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP55
Insulation Class	F, H
Frame Size	71 ~ 132Fr.



**Ex eb IIC T3/ec IIC T3 or T4 - TEFC -
Premium Efficiency**

Output Range	0.2 - 90 kW (eb), 0.75 - 550 kW (ec)
Voltage	~ 690 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP54, 55
Insulation Class	F, H
Frame Size	eb : 80 ~ 250Fr. / ec : ~ 400Fr.



**Ex d/de/db/dbeb IIB/C T4 Motor -
TEFC - Premium Efficiency**

Output Range	0.2 - 200 kW (0.3 - 266 HP)
Voltage	~ 690 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP54, 55
Insulation Class	F, H
Frame Size	IIB : 71 ~ 355Fr. / IIC : 90 ~ 280Fr.



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
Frame Size	71 ~ 400Fr.



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
Frame Size	71 ~ 400Fr.



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
Frame Size	71 ~ 400Fr.



DOWNLOADS

Low Voltage Induction Motors [NEMA]



Crown Triton G2 Series Motor - Severe Duty

Output Range	1 - 50 HP
Voltage	208 - 230/460, 460 and 575 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP55
Insulation Class	F
Frame size	143 ~ 326T
Hazardous Area Classification	Class I, Division 2, Groups A, B, C & D Class II, Division 2, Groups E, F & G (CSA certified/Group E : 326T and below)



Crown Triton Series Motor - Severe Duty

Output Range	1 - 250 HP
Voltage	208 - 230/460, 460 and 575 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP55
Insulation Class	F
Frame size	143 ~ 449T
Hazardous Area Classification	Class I, Division 2, Groups A, B, C & D Class II, Division 2, Groups E, F & G (CSA certified/Group E : 326T and below)



Crown Triton Series Motor - C-Face, D-Flange

Output Range	1 - 250 HP
Voltage	208 - 230/460, 460 and 575 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP55
Insulation Class	F
Frame size	143 ~ 449T[G1], 143 ~ 326T[G2]
Hazardous Area Classification	Class I, Division 2, Groups A, B, C & D Class II, Division 2, Groups E, F & G (CSA certified/Group E : 326T and below)



Quarry & Crusher Duty Motor

Output Range	7.5 - 250 HP
Voltage	230/460 V (7.5 - 150 HP) 460 V (150 - 250 HP)
Frequency	50 Hz, 60 Hz
Number of Poles	4, 6
Degree of Protection	IP55
Insulation Class	F
Frame size	254 ~ 449T
Hazardous Area Classification	Class I, Division 2, Groups A, B, C & D Class II, Division 2, Groups E, F & G (CSA certified/Group E : 326T and below)



IEEE841 Motor

Output Range	1 - 250 HP
Voltage	208 - 230/460 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP54, 55, 56, 65, 66
Insulation Class	F, H
Frame size	143 ~ 449T
Hazardous Area Classification	Class I, Division 2, Groups A, B, C & D Class II, Division 2, Groups E, F & G (CSA certified/Group E : 326T and below)



Crown Triton Series Motor - Explosion Proof

Output Range	1 - 250 HP
Voltage	208 - 230/460 V (1 - 125 HP) 460 V (150 - 250 HP)
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP54
Insulation Class	F
Frame size	143 ~ 449T
Hazardous Area Classification	Class I, Division 1, Groups C and D (UL Certification)



Crown Triton Series Motor - JM/JP

Output Range	1 - 50 HP
Voltage	208 - 230/460 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4
Degree of Protection	IP55
Insulation Class	F
Frame size	143 ~ 405T[G1], 143 ~ 326T[G2]
Hazardous Area Classification	Class I, Division 2, Groups A, B, C & D Class II, Division 2, Groups E, F & G (CSA certified/Group E : 326T and below)



Crown Triton Series Motor - Severe Duty Large Frame - B3

Output Range	250 - 600 HP
Voltage	460 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP55
Insulation Class	F, H
Frame size	L449TS ~ 5812
Hazardous Area Classification	Class I, Division 2, Groups A, B, C & D Class II, Division 2, Groups E, F & G (CSA certified/Group E : 326T and below)



Crown Triton Series Motor - Severe Duty Large Frame - V1

Output Range	250 - 600 HP
Voltage	460 V
Frequency	50 Hz, 60 Hz
Number of Poles	2, 4, 6
Degree of Protection	IP55
Insulation Class	F, H
Frame size	L449TS ~ 5812
Hazardous Area Classification	Class I, Division 2, Groups A, B, C & D; Class II, Division 2, Groups E, F & G (CSA certified/Group E : 326T and below)



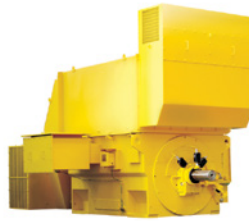
Medium & High Voltage Induction Motors

- 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 - 2,380 kW



Totally Enclosed Air to Air Cooled

- Model : HIQ1 / HRQ3
- Squirrel Cage Rotor
- 2 - 32 Poles
- 2 - 14 kV
- 880 - 28,780 kW



Totally Enclosed Air to Air Cooled (Vertical)

- Model : HIQ1 / HRQ3
- 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



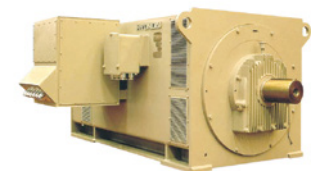
Open Drip Proof

- 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

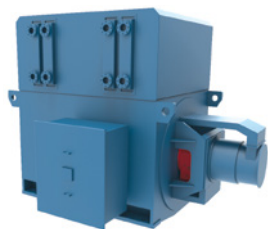
- Model : HRV3
- Wound Rotor with Slip-Ring
- 4 - 12 Poles
- 2 - 14 kV
- 350 - 7,500 kW



Open Drip Proof - Wound Rotor

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

Synchronous Generators



CATALOGUE

High Speed (HV/MV)

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



CATALOGUE

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



CATALOGUE



High Speed

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



Medium/Low Speed

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



Medium/Low Speed (Vertical)

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

Smart Connection to The Future

INTEGRICT - AMS RM Guard

SMART MOTOR



CATALOGUE

- 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



Asset Performance Management

Health, Risk,
Residual Lifetime

APM



Workforce Management

Labor & Operating
Maintenance

WFM



Enterprise Asset Management

EAM

INTEGRICT

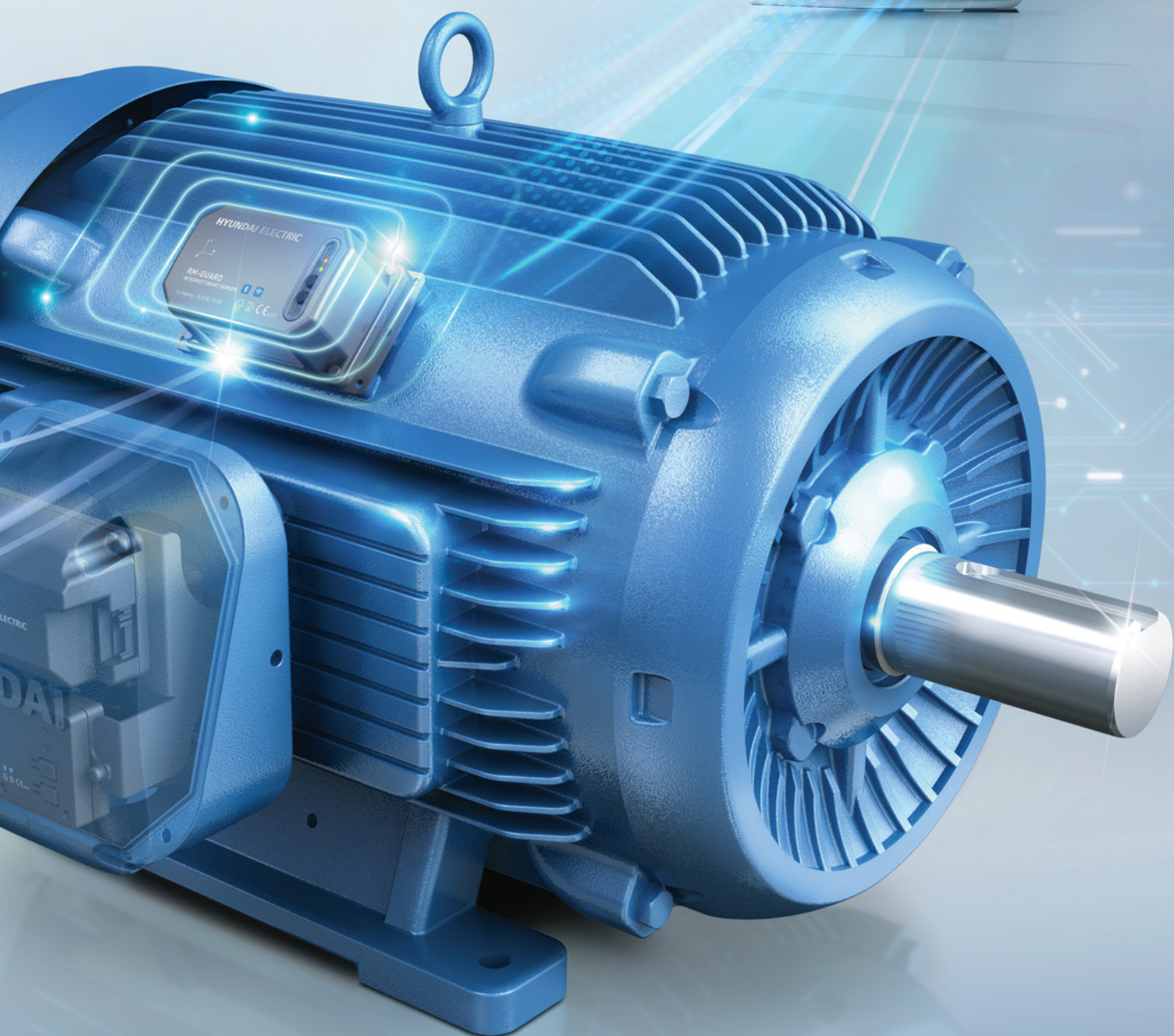
Asset	Time	Avg. H/I
Asset 1	31	3.2
Asset 2	2	74.5
Asset 3	2	60.4
Asset 4	1	51.1
Asset 5	3	36.7

44.4%(0) 44.4%(4)

Good Normal Warning Bad Critical

Assets

Facility	Asset	H/I
구성공장	BMotor1	20
구성변전소	DTR2	51.1
구성변전소	MTR1	51.1
구성변전소	MGIS3	55
구성변전소	MGIS1	55
구성변전소	DTR1	69.8
구성변전소	PTR2	74.5
구성변전소	PTR1	74.5
구성공장	SMotor1	80



Global Network



- BRANCH OFFICE
- OVERSEAS SUBSIDIARIES
- R&D CENTER



ULSAN FACTORY

Established Year :
1977
Product :
TR, GIS etc.



ALABAMA SUBSIDIARIES

Established Year :
2010
Product :
TR



YANGZHONG SUBSIDIARIES

Established Year :
2003
Product :
GIS, Switchgear



HUNGARY TECHNOLOGIES CENTER

Established Year :
1998
Research Area :
Rotating Machinery etc.



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