





# THREE PHASE INDUCTION MOTOR



## HYUNDAI **MOTORS** Promise

Continuous design evolutions for AC Induction Motors developed through years of experience, innovation and reliability in building top quality

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

Motors that are specifically designed to meet the requirements of domestic and international standards for use in chemistry, mining, power generation, steel plants and municipal water applications

Innovations in technology and design that produce motors of outstanding quality





| Fujairah Desalination / UAE |



AI-Hidd Desalination / BAHRAIN | KOGAS Tong-Yong LNG / KOREA



## **Explosion Proof Motors**

Explosion Proof Motors are specifically designed for hazardous or explosive area.



Item	Model	Certificates & Type of Protection Categories
Medium & High Voltage Induction Motor	HLE5	ATEX(BASEEFA) : Ex nA PTB : Ex d CSA : Class 1 Division 2 / Zone 2 KOSHA, KOGAS : Ex nA, Ex e, Ex d
	HLA7	ATEX(BASEEFA) : Ex nA CSA : Class 1 Division 2 / Zone 2 KOSHA, KOGAS : Ex nA, Ex e
	HRQ3	ATEX(BASEEFA) : Ex nA CSA : Class 1 Division 2 / Zone 2 KOSHA, KOGAS : Ex nA, Ex e, Ex p
	HRN3	ATEX(BASEEFA) : Ex nA KOSHA, KOGAS : Ex nA, Ex e, Ex p
	HRP3	CSA : Class 1 Division 2 / Zone 2
Low Voltage Induction Motor		PTB : Ex d ATEX(BASEEFA) : Ex nA U L : Class 1 Division 1 Group C&D Class 1 Zone 1 Group IIA&IIB CSA : Class 1 Division 2 / Zone 2 KOSHA, KOGAS : Ex e, Ex d













## **Medium & High Voltage Induction Motors**

• 3.3 / 4.16 / 6 / 6.6 / 10 / 11 / 13.2kV • 50 / 60Hz

• Vertical mounting is available as option.



## Low Voltage Induction Motors

#### **TEFC Cast Iron Frame Motor**



Output Range	0.75-200kW(1-250HP)
Voltage	~ 600V
Frequency	50Hz, 60Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP 44, 54, 55
Insulation Class	B, F

#### TEFC Cast Iron Frame Motor



600V 0Hz, 60Hz
047 6047
0112,00112
, 4, 6, 8
P 44, 54, 55
. F

#### **TEFC Aluminum Frame Motor**



Output Range	0.2-7.5kW(0.3-10HP)
Voltage	~ 600V
Frequency	50Hz, 60Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP 44, 54, 55
Insulation Class	B, F

#### TEFC Aluminum Frame Motor



Output Range	0.2-7.5kW(0.3-10HP)
Voltage	~ 600V
Frequency	50Hz, 60Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP 44, 54, 55
Insulation Class	B, F

#### Inverter Shield Motor



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

#### TEFC High Efficiency Motor



Output Range	0.2-7.5kW(0.3-10HP)
Voltage	~ 600V
Frequency	50Hz, 60Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP 54, 55
Insulation Class	F

#### Drip-proof Motor



Output Range	0.75-200kW(1-250HP)
Voltage	~ 600V
Frequency	50Hz, 60Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP 22, 23
Insulation Class	B, F





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

#### Marine Motor



Output Range	0.4-200kW(0.5-250HP)
Voltage	~ 600V
Frequency	50Hz, 60Hz
Number of Poles	2, 4, 6, 8
Degree of Protection	IP 44, 54, 55
Insulation Class	F

### **Manufacturing Facilities**

All of the Hyundai Motors are manufactured for best quality using the latest manufacturing facilities and the test system.

Rotating Machinery Factory of Hyundai is fully equipped with modernized manufacturing and testing facilities to ensure the best guality of the product for the customers.



Precise control of core assembly to minimize noise and vibration of rotating machinery by accomplishing a wellbalanced magnetic circuit.



The most stringent testing processes always ensure high level of quality.



► VPI Facility

Thermal life time of insulation system meet IEEE 275's standard(over 30 years of life time)

#### Quality of electric machines is highly dependent on the insulation process. Hyundai ensures perfect insulation strength of stator windings and rotor windings.



Winding Assembly Shop



Electric Induction Brazer Assurance of a solid electrical and mechanical joint between rotor bar and end ring using induction brazing with silver brazing alloy.



High Speed Balance Machine All rotors are well balanced at operating speed using high speed balance machine. It makes us provide precise low vibration product to our customers.