

Standards

All Hyosung motors are designed and built to comply with major international standards: IEC, NEMA and EN to name a few. For compliance with other standards or technical specifications, please contact us directly.

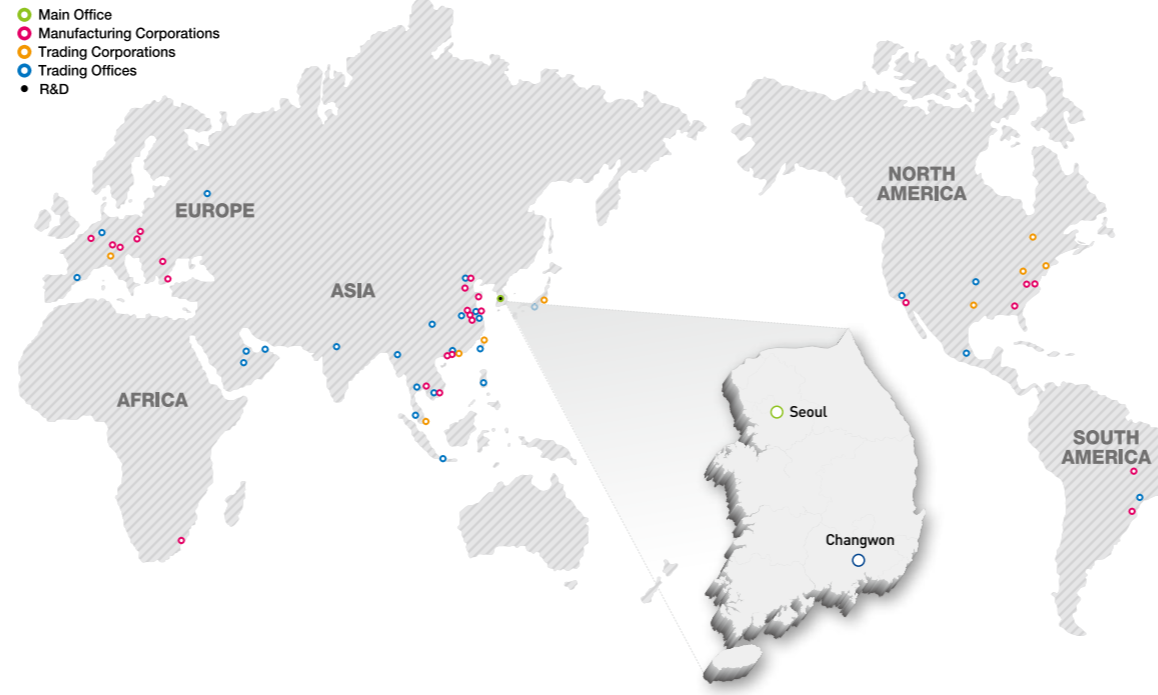


Quality Management

Hyosung controls design, manufacturing and test functions under one roof in Changwon Plant, South Korea, which has been fully accredited by DNV of the Netherlands for ISO 9001, ISO 14001 and OHSAS 18001.

Quality in Manufacturing

- Fully automated MV/HV winding taping process and winding spreading process for seamless insulation and sturdy structure
- Hyosung's own VPI system to ensure lasting insulation qualities
- Rigorous tests carried out in in-house testing facility with capacity to test up to 25MW, 13.8kV



INTRODUCTION TO HYOSUNG ELECTRIC MOTORS



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Explosion Proof Motors

Hyosung explosion-proof motors are designed so that potential dangers of explosions can be minimized while ensuring maximum safety for the environment. Motors can be designed in accordance with various types of protection and standards.

Certificates_ IECEx, ATEX, GOST and KGS

	Ex d/de	Ex tb/tc	Ex nA
Low Voltage Motors	<ul style="list-style-type: none"> • Frame Size : 71M ~ 315M • Output range : Max. 200kW • Voltage : Max. 690V • Frequency : 50/60Hz • Degree of Protection : IP55, 56, 65, 66 • Temperature Class : ~T6 • Gas Group : IIB/IIC 		<ul style="list-style-type: none"> • Frame Size : 80M ~ 315M • Output range : Max. 200kW • Voltage : Max. 690V • Frequency : 50/60Hz • Degree of Protection : IP55, 56 • Temperature Class : T3
Medium & High Voltage Motors	Ex d/de	Ex nA	
	<ul style="list-style-type: none"> • Frame Size : 315 ~ 800 • Output range : ~6,160kW • Voltage : Max. 13,800V • Frequency : 50/60Hz • Degree of Protection : IP55, 56 • Temperature Class : ~T4 • Gas Group : IIB/IIC 	<ul style="list-style-type: none"> • Frame Size : 315 ~1600 • Output range : ~25,000kW • Voltage : Max. 13,800V • Frequency : 50/60Hz • Degree of Protection : IP55, 56 • Temperature Class : ~T4 • Gas Group : IIB/IIC 	

※ For UL and CSA certificates, Medium & High Voltage Motors are available.
 ※ For different types of Explosion Proof Motors, please contact us directly.



Medium & High Voltage Motors

▽ Squirrel Cage Rotor (Voltage:Max.13,800V, Frequency:50/60Hz, Insulation Class:F, H)

TEFC (Totally Enclosed Fan Cooled)	TEAAC (Totally Enclosed Air to Air Cooled)	TEWAC (Totally Enclosed Water to Air Cooled)																		
<table border="1"> <tr><td>Output Range</td><td>Max. 2,350kW</td></tr> <tr><td>Number of Poles</td><td>2~12</td></tr> <tr><td>Degree of Protection</td><td>IP55,56</td></tr> </table>	Output Range	Max. 2,350kW	Number of Poles	2~12	Degree of Protection	IP55,56	<table border="1"> <tr><td>Output Range</td><td>Max. 10,000kW</td></tr> <tr><td>Number of Poles</td><td>2~36</td></tr> <tr><td>Degree of Protection</td><td>IP55,56</td></tr> </table>	Output Range	Max. 10,000kW	Number of Poles	2~36	Degree of Protection	IP55,56	<table border="1"> <tr><td>Output Range</td><td>Max. 25,000kW</td></tr> <tr><td>Number of Poles</td><td>2~36</td></tr> <tr><td>Degree of Protection</td><td>IP55,56</td></tr> </table>	Output Range	Max. 25,000kW	Number of Poles	2~36	Degree of Protection	IP55,56
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ODP (Open Drip-Proof)	WP I (Weather Protected Type I)	WP II (Weather Protected Type II)																		
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Degree of Protection	IP24																			

▽ Wound Rotor (Slip ring)

TEFC (Totally Enclosed Fan Cooled)	TEAAC (Totally Enclosed Air to Air Cooled)	TEWAC (Totally Enclosed Water to Air Cooled)																		
<table border="1"> <tr><td>Output Range</td><td>Max. 600kW</td></tr> <tr><td>Number of Poles</td><td>2~12</td></tr> <tr><td>Degree of Protection</td><td>IP55,56</td></tr> </table>	Output Range	Max. 600kW	Number of Poles	2~12	Degree of Protection	IP55,56	<table border="1"> <tr><td>Output Range</td><td>Max. 10,000kW</td></tr> <tr><td>Number of Poles</td><td>2~36</td></tr> <tr><td>Degree of Protection</td><td>IP55,56</td></tr> </table>	Output Range	Max. 10,000kW	Number of Poles	2~36	Degree of Protection	IP55,56	<table border="1"> <tr><td>Output Range</td><td>Max. 25,000kW</td></tr> <tr><td>Number of Poles</td><td>2~36</td></tr> <tr><td>Degree of Protection</td><td>IP55,56</td></tr> </table>	Output Range	Max. 25,000kW	Number of Poles	2~36	Degree of Protection	IP55,56
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Degree of Protection	IP55,56																			

Low Voltage Motors

TEFC (Cast Iron Frame Motor)	TEFC (Aluminum Frame Motor)	Drip-Proof Motor																																				
<table border="1"> <tr><td>Output Range</td><td>Max. 375kW</td></tr> <tr><td>Voltage</td><td>Max. 600V</td></tr> <tr><td>Frequency</td><td>50/60Hz</td></tr> <tr><td>Number of Poles</td><td>2~16</td></tr> <tr><td>Degree of Protection</td><td>IP54~66</td></tr> <tr><td>Insulation Class</td><td>F, H</td></tr> </table>	Output Range	Max. 375kW	Voltage	Max. 600V	Frequency	50/60Hz	Number of Poles	2~16	Degree of Protection	IP54~66	Insulation Class	F, H	<table border="1"> <tr><td>Output Range</td><td>Max. 7.5kW</td></tr> <tr><td>Voltage</td><td>Max. 600V</td></tr> <tr><td>Frequency</td><td>50/60Hz</td></tr> <tr><td>Number of Poles</td><td>2~8</td></tr> <tr><td>Degree of Protection</td><td>IP54,55,56</td></tr> <tr><td>Insulation Class</td><td>F, H</td></tr> </table>	Output Range	Max. 7.5kW	Voltage	Max. 600V	Frequency	50/60Hz	Number of Poles	2~8	Degree of Protection	IP54,55,56	Insulation Class	F, H	<table border="1"> <tr><td>Output Range</td><td>Max. 220kW</td></tr> <tr><td>Voltage</td><td>Max. 600V</td></tr> <tr><td>Frequency</td><td>50/60Hz</td></tr> <tr><td>Number of Poles</td><td>2~8</td></tr> <tr><td>Degree of Protection</td><td>IP22,23</td></tr> <tr><td>Insulation Class</td><td>F, H</td></tr> </table>	Output Range	Max. 220kW	Voltage	Max. 600V	Frequency	50/60Hz	Number of Poles	2~8	Degree of Protection	IP22,23	Insulation Class	F, H
Output Range	Max. 375kW																																					
Voltage	Max. 600V																																					
Frequency	50/60Hz																																					
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Degree of Protection	IP54~66																																					
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Premium Efficiency Motor (IE3 efficiency level)	Inverter Duty Motor	PM Motor																																				
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TEFC Wound Rotor Motor	DC Motor	Cooling Tower Motor																																				
<table border="1"> <tr><td>Output Range</td><td>Max. 280kW</td></tr> <tr><td>Voltage</td><td>220~815V</td></tr> <tr><td>Frequency</td><td>50/60Hz</td></tr> <tr><td>Number of Poles</td><td>6~10</td></tr> <tr><td>Degree of Protection</td><td>IP54,55,56</td></tr> <tr><td>Insulation Class</td><td>F, H</td></tr> </table>	Output Range	Max. 280kW	Voltage	220~815V	Frequency	50/60Hz	Number of Poles	6~10	Degree of Protection	IP54,55,56	Insulation Class	F, H	<table border="1"> <tr><td>Output Range</td><td>Max. 1,250kW</td></tr> <tr><td>Voltage</td><td>220~815V</td></tr> <tr><td>Frequency</td><td>50/60Hz</td></tr> <tr><td>Number of Poles</td><td>2~4</td></tr> <tr><td>Degree of Protection</td><td>IP23,44,54</td></tr> <tr><td>Insulation Class</td><td>F</td></tr> </table>	Output Range	Max. 1,250kW	Voltage	220~815V	Frequency	50/60Hz	Number of Poles	2~4	Degree of Protection	IP23,44,54	Insulation Class	F	<table border="1"> <tr><td>Output Range</td><td>Max. 22kW</td></tr> <tr><td>Voltage</td><td>Max. 600V</td></tr> <tr><td>Frequency</td><td>50/60Hz</td></tr> <tr><td>Number of Poles</td><td>2~8</td></tr> <tr><td>Degree of Protection</td><td>IP54,55,56</td></tr> <tr><td>Insulation Class</td><td>F, H</td></tr> </table>	Output Range	Max. 22kW	Voltage	Max. 600V	Frequency	50/60Hz	Number of Poles	2~8	Degree of Protection	IP54,55,56	Insulation Class	F, H
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