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## Hyosung Motors

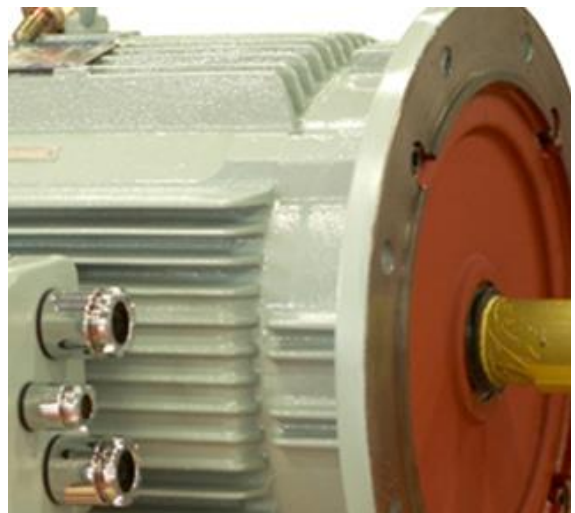
**Low Voltage Safe Area Motor- (IE1/IE2/IE3/IE4)**  
**Low Voltage Explosion Proof Motor- (IE1/IE2/IE3/IE4)**  
**High Voltage Safe Area Motor**

### Production Range

- Output: Max 25,000W
- Voltage: Max 13.8kV
- Number of poles: Max 30P
- Frequency: 50Hz, 60Hz
- Type: TEFC, TEAAC, TEWAC, ODP, WPI, WPII, Explosion- Proof

### Uses

- Pump, Fan, Composer, Crane, Mill, Crusher
- General and steel industries
- Petrochemical and cement plants
- Hydraulic & thermal power plants
- Nuclear Power Plant (Class- 1E (Q- Class) & Non Class- 1E Motor)
- Ships





## EXPLOSION- PROOF MOTORS (HV)



Explosion-proof motors require durability and high performance because they are installed in an environment where explosive gas exists in the oil & gas industry. Hyosung Heavy Industries has a lineup of explosion-proof motor products that meet major international standards (IECEX, ATEX, UL, CSA, GOST, KGS, etc.)

### Production Range

#### Certifications



#### Production range

|           | Ex d     | Ex e      | Ex p      | Ex n      |
|-----------|----------|-----------|-----------|-----------|
| Pole      | -20P     | -20P      | -20P      | -20P      |
| Max Power | -4,000kW | -13,000kW | -13,000kW | -13,000kW |
| Max Frame | -800Fr   | -1500Fr   | -1500Fr   | -1500Fr   |



## EXPLOSION- PROOF MOTORS (HV)

### TEFC Type Motors

#### Standards Specification

| ITEMS                   | SPECIFICATION   |  |
|-------------------------|---|--|
| Rating                  | Continuous  |  |
| Insulation              | F CLASS or B CLASS  |  |
| Construction Protect    | Construction  | Protect Grade  |
|                         | ODP   | IP 22  |
|                         | TEFC  | IP 44  |
| Voltage & Frequency     | 220, 380, 400, 220/380, 220/440V 5/60Hz                                 |  |
| Leadwire Output Type    | Rubber Covered Leadwire (Mounted Ring Terminal)                         |  |
| Number of Leads (60 Hz) | Single Voltage: 220, 380, 440V  | Direct Startung (3 wire): 11kw below<br>Y-Δ Stating (6 wire): 11kw above   |
|                         | Combination Voltage: 220/380V   | Direct Starting (6 wire)   |
|                         | Double Voltage: 220/440V  | Direct Starting (9 wire): 11kw below<br>Y-Δ Starting (12 wire): 11kw above |
| Painting (Munsell No.)  | 7.5BG 5/2 (Light Blue Grey)   |  |
| Drive                   | Up to 225FR – Belt or Direct Type<br>From 250FR and above – Direct Type |  |
| Rotation                | C.C.W (VIEW OF DRIVE END)   |  |
| Surrounding Condition   | Temperature   | -20°C- +40°C   |
|                         | Humidity  | Less than 80%  |
|                         | Altitude  | Less than 1,000M   |
|                         | Installation Room   | Indoor   |
| Place                   | No Corrosion, Explosive Gas, Heat or Dewdrops and Low Dust              |  |