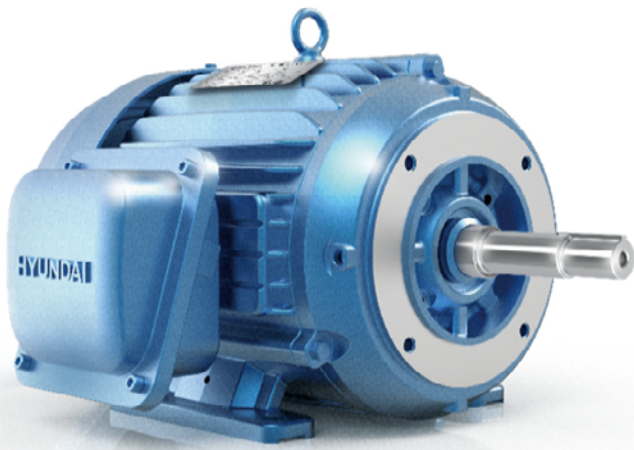


# Close-coupled Pump JM/JP Motors



**HD Hyundai Close-coupled Pump Motors** offer reliable performance in harsh environments. These motors are designed and built specifically for commercial and industrial pump applications.

HD Hyundai Close-coupled motors are built in compliance with NEMA MG1-2024 Standards.

## Key Features

|                                     |                                                               |                                                  |                                     |
|-------------------------------------|---------------------------------------------------------------|--------------------------------------------------|-------------------------------------|
| Horse Power                         | Frame Sizes                                                   | Voltage                                          | Enclosure                           |
| <b>1~50HP</b>                       | <b>143~326</b>                                                | 60Hz : 230/460V, 575V<br>50Hz : 380V, 400V, 415V | <b>TEFC</b>                         |
| Mounting                            | Insulation                                                    | Inverter Use                                     | Certifications                      |
| <b>Dual Hole<br/>Multi-mounting</b> | <b>Class F</b><br>(Class H: Impregnation Resin & Magnet wire) | <b>As per NEMA<br/>MG-1 Part 31</b>              | <b>CSA, DOE, UL,<br/>CE, IEEE45</b> |

## Applications

- Commercial and industrial pumps
- For pumps installed in harsh and dirty environment
- Variable speed drive applications
- Pump Impeller mounted directly onto motor shaft.

## Standard Features

- Service Factor : 1.15 & B Temp. Rise for DOL, 1.0 & F Temp. Rise for Inverter
- Material : Cast Iron frame, end shield, and conduit box / Steel Fan Cover / Aluminum Die-cast rotor / AISI 1045 Shaft
- F1 gasketed box and cover (F2 Convertible)
- Regreasable ball bearing for frames 254 and up.
- Bearing Protection : V-Seals
- Hazardous : Class I, Div. 2, Groups A, B, C, D & Class II, Div.2, Groups E, F, G
- Bi-Directional Rotation
- Drain Plugs on both sides of Frame Bottom

## Close-coupled Pump MOTOR (JM/JP)

### Product Features (Basic)

|                                      |                                                                           |
|--------------------------------------|---------------------------------------------------------------------------|
| Frame                                | 143 - 326                                                                 |
| HP                                   | 1 HP - 50 HP                                                              |
| Speed (RPM)                          | 3600, 1800, 1200                                                          |
| Hz & Voltage (Dual Frequency Design) | 60Hz : 230/460V, 575V<br>★ 50Hz : 380V, 400V & 415V                       |
| Mounting                             | ★ C-face with foot(B35), Dual-drilled holes for multi-mounting capability |
| Enclosure / Protection               | TEFC / IP55                                                               |
| Rotation                             | Bi-directional                                                            |
| Painting                             | Polyurethane top coat (Munsell 4.0PB5.4/5.5)                              |
| Ambient temperature                  | 40°C                                                                      |
| Insulation Class                     | ★ F(Impregnation Resin & Magnet wire : Class H)                           |

### Product Features (Details)

|                 |                                     |            |                                                       |
|-----------------|-------------------------------------|------------|-------------------------------------------------------|
| Starting Method | Sine Wave Power                     |            | 1.15 Service Factor & B Temp. rise                    |
|                 | Inverter Duty 10:1 VT               |            | 1.0 Service Factor & F Temp. rise                     |
|                 | Inverter Duty 20:1 VT (at 50% load) |            | 1.0 Service Factor & F Temp. rise                     |
|                 | Inverter Duty 10:1 CT               |            | 1.0 Service Factor & F Temp. rise                     |
|                 | Inverter Duty 10:1 CT (1 Hour duty) |            | 1.0 Service Factor & F Temp. rise   Fr. 254-326       |
|                 | Inverter Duty 4:1 CT                |            | 1.0 Service Factor & F Temp. rise   Fr. 254-326       |
|                 | Constant HP                         |            | CHP up to 1.5 times base speed                        |
| Material        | Frame                               |            | Cast iron                                             |
|                 | Rotor                               |            | Aluminum die casting                                  |
|                 | End-shield                          |            | Cast iron                                             |
|                 | Fan                                 |            | Non-sparking conductive plastic fan                   |
|                 | Fan cover                           |            | Steel                                                 |
| Bearing         | Drive end                           |            | Ball Bearing   Regreasable (254-326)                  |
|                 | Non-Drive end                       |            | Ball Bearing   Regreasable (254-326)                  |
|                 | Protection                          |            | V-seal                                                |
|                 | Lubrication                         |            | Polyrex EM Grease                                     |
| Shaft           | Material                            |            | AISI1045                                              |
|                 | DE threaded hole                    |            | Applied                                               |
|                 | DE Keyway                           |            | Opened keyway                                         |
| Terminal box    | Material                            |            | Cast Iron                                             |
|                 | Cable hole plug                     |            | Plastic                                               |
| Lead cable      | Number of lead wire(s)              | ★ 9 Leads  | Fr. 143-215                                           |
|                 | Number of lead wire(s)              | ★ 12 Leads | Fr. 254-326                                           |
| Drain Plug      | Frame                               |            | Both sides of frame bottom                            |
|                 | Box                                 |            | None                                                  |
|                 | Grease outlet                       |            | Applied (Fr. 254-326)                                 |
| Certification   | CSA                                 |            | Class I, Division 2, Groups A, B, C & D               |
|                 |                                     |            | Class II, Division 2, Groups E, F & G                 |
|                 |                                     |            | Premium Efficiency (CSA C-390)                        |
|                 | DOE                                 |            | Department of Energy Efficiency Certification #CC038A |
|                 | UL                                  |            | Recognized Motor Components (E211828)                 |
|                 |                                     |            | Recognized Insulation Materials (E210479)             |
| Name plate      | CE                                  |            | CE Declaration of Conformity (EN 60034-1)             |
|                 | IEEE45                              |            | Marine Duty                                           |
|                 | Markings                            | ★          | CSA ,CC(DOE), UL Recognized, CE, IEEE 45              |
|                 | Material                            |            | Stainless Steel AISI304                               |

※ Note : Features marked with a star (★) are Key Features for JM/JP Motors.

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