# HYUNDAI ELECTRIC — AC INDUCTION MOTOR DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| Model No.or RFQ No. | | Item No. | | Rev. No. | [ 0 ] |
| Project Name | | Project No. | | Quantity | sets |

## GENERAL SPECIFICATION

| | | |
|---|---|---|
| Frame Size | | 5008 |
| Type | | PJP |
| Enclosure(Protection) | | Totally Enclosed ( IP55 ) |
| Method of Cooling | | IC411(FC) |
| Rated Frequency | | 60 Hz |
| Number of Phases | | 3 |
| Insulation Class | | ■ F ☐ B ☐ H |
| Temp. Rise at full load (by resistance method) | | |
| | at 1.0 S.F | 80 deg. C |
| Motor Location | | ■ Indoor ☐ Outdoor |
| Altitude | | Less than 1000 meter |
| Relative Humidity | | Less than 80 % |
| Ambient Temp. | | 40 deg. C (Max.) |
| Duty Type | | Continuous ( S1 ) |
| Service Factor | | 1.15(@sine wave),1.0(@Inverter) |
| Mounting | | ■ B3 ☐ B5 ☐ V1 ☐ B3/B5 |
| Bearing | Type | Anti-Friction |
| | DE/N-DE | 6324C3 or NU324 / 6320C3 |
| | Lubricant | Grease(Polyrex-EM) |
| External Thrust | | Not applicable |
| Coupling Method | | ■ Direct ☐ V-Belt |
| Shaft Extension | | ■ Single ☐ Double |
| Terminal Box | Main | ☐ Steel ■ Cast Iron |
| | Aux. | ☐ Yes ■ No |
| | Location | Refer to Outline Drawing |
| Application | | |
| Area classification | | Hazardous |
| Type of Ex-Protection | | Class I & II, Division 2 |
| Applicable Standard | | NEMA MG1, CSA C390 |

## PERFORMANCE DATA

| | | | | |
|---|---|---|---|---|
| Rated Output | | 260 kW | 350 HP | |
| Number of Poles | | 6 | | |
| Rotor Type | | Squirrel Cage | | |
| Starting Method* | | ■ D.O.L | ☐ Y- △ | |
| Rated Voltage | | 575 V | 460 V | 230 V |
| Current | Full Load | 324.4 A | 405.5 A | 811.0 A |
| | Locked-rotor** | 675 % | 675 % | 675 % |
| Efficiency | | | | |
| | 50% Load | 94.0 % | | |
| | 75% Load | 95.1 % | | |
| | 100% Load | 95.8 % | | |
| Power Factor(p.u) | | | | |
| | 50% Load | 0.710 | | |
| | 75% Load | 0.805 | | |
| | 100% Load | 0.840 | | |
| Speed at Full Load | | 1185 r.p.m | | |
| Torque | | | | |
| | Full Load | 1,545.8 lb.ft | | |
| | Locked-rotor** | 135 % | | |
| | Breakdown** | 220 % | | |
| Moment of Inertia (J) | | | | |
| | Load(Max.) | 3,720.0 lb.ft² | | |
| | Motor | 218.1 lb.ft² | | |
| Sound Pressure Level (No-load & mean value at 1m from motor) | | | | |
| | | 84 dB(A) | | |
| Vibration | | 3.8 mm/sec.(peak) | | |
| Permissible number of consecutive starts | | Cold 2 times | | |
| | | Hot 1 times | | |
| Paint | Munsell No. | 4.0PB5.4/5.5(VL-451) | | |

## ACCESSORIES

## SUBMITTAL DRAWING

Outline Dimension Drawing \ Motor Weight(Approx.)

| | | |
|---|---|---|
| B3 | LM-T0509B3PL001 | 3880 lb. |
| B5 | | lb. |
| V1 | | lb. |
| B3/B5 | | lb. |

## SPARE PARTS

## REMARK

**Premium Efficiency**

* Inverter Duty@1.0S.F&F Temp. rise
-. 10:1 VT(20:1 at 50% load)
-. 4:1 CT(10:1 1 hour duty at lowest RPM)
-. CHp up to 1.5 times base speed, NEMA MG1 Part31
* CSA Certified for
-. CLASS I, Div. 2, Gr. A, B, C & D
-. CLASS II, Div. 2 Gr. F & G
(Use on PWM at Amb. 55℃ : Up to 360FR)

| Date | DSND | CHKD | CHKD | APPD |
|---|---|---|---|---|
| 2023-11-22 | R. G. KIM | S.Y. KIM | O. J. KIM | S.K. HAN |

Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
Inspection and performance test shall be maker standard, if not mentioned.
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

"Precautions should be taken to elimiate or reduce shaft currents that may be imposed on the motor by variable frequency drive as stated per NEMA MG1. part 31.4.4.3"

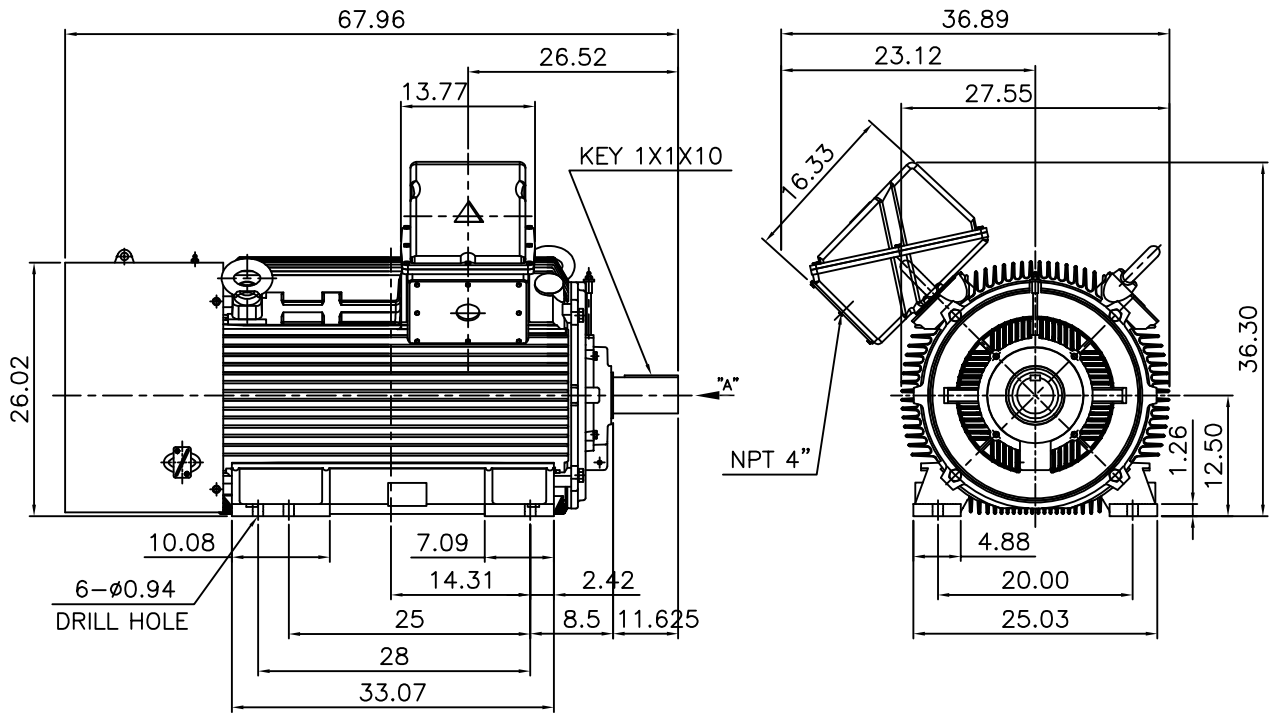
HHI W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

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HYUNDAI ELECTRIC

본 도면은 현대일렉트릭(주) 재산이므로 허가없이 복사할 수 없습니다 (취급유의)

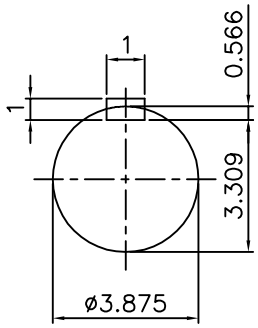
| | 50S | REV | DATE | CONTENTS | REVD BY | CHKD BY | CHKD BY | APPD BY |
|---|---|---|---|---|---|---|---|---|
| ▽ | 50S | | | | | | | |
| ▽▽ | 12.5S | | | | | | | |
| ▽▽▽ | 3.2S | | | | | | | |
| ▽▽▽▽ | 0.4S | | | | | | | |




NOTE

1.TOLERANCE :

| | | |
|---|---|---|
| CENTER HEIGHT | 12.5 | +0.000 −0.060 |
| SHAFT DIAMETER | ø3.875 | +0.000 −0.001 |
| KEYWAY WIDTH | 1 | +0.003 −0.000 |




VIEW "A"

| | | | |
|---|---|---|---|
| APPD BY | S.Y.KIM | UNIT | INCH |
| CHKD BY | O.J.KIM | SCALE | 1/19 |
| CHKD BY | R.G.KIM | PROJEC'N | 3각법(3rd Angle) |
| DSND BY | H.K.LEE | DATE | 2021-04-27 |

HYUNDAI ELECTRIC

| | | | |
|---|---|---|---|
| SUBJECT | Fr.5008/5009T | | DWG SIZE A4 (1:19) |
| TITLE | OUTLINE | CAST IRON T-BOX | |
| REF. NO | | | Sheet No. of |
| DWG NO | LM-T0509B3PL001 | | Revision No. 0 |

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