# AC INDUCTION MOTOR DATA SHEET

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

## GENERAL SPECIFICATION

| | | |
|---|---|---|
| Frame Size | | 100L |
| Type | | HLP-2.2/4 |
| 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 ℃ |
| Motor Location | | ■ Indoor ☐ Outdoor |
| Altitude | | Less than 1000m |
| Relative Humidity | | Less than 80 % |
| Ambient Temp. | | 40 ℃ MAX. |
| Duty Type | | Continuous(S1) |
| Service Factor | | 1.15 |
| Mounting | | ■ B3 ☐ B5 ☐ V1 ☐ B3/B5 |
| Bearing | Type | Anti-Friction |
| | DE/N-DE | 6206ZZC3 / 6206ZZC3 |
| | 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 | | Non-Hazardous |
| Type of Ex-Protection | | Not applicable |
| Applicable Standard | | KS, IEC, NEMA MG1 Part30(Vpeak) |

## PERFORMANCE DATA

| | | | | |
|---|---|---|---|---|
| Rated Output | | 2.2 kW | | 3 HP |
| Number of Poles | | 4 | | |
| Rotor Type | | Squirrel Cage | | |
| Starting Method* | | ■ D.O.L | ☐ Y-△ | |
| Rated Voltage | | 440 V | 380 V | 220 V |
| Current | Full Load | 4.2 A | 4.9 A | 8.4 A |
| | Locked-rotor** | 835 % | 835 % | 835 % |
| Efficiency | | | | |
| | 50% Load | 88.0 % | | |
| | 75% Load | 89.4 % | | |
| | 100% Load | 89.5 % | | |
| Power Factor(p.u) | | | | |
| | 50% Load | 0.508 | | |
| | 75% Load | 0.688 | | |
| | 100% Load | 0.764 | | |
| Speed at Full Load | | 1760 r.p.m | | |
| Torque | | | | |
| | Full Load | 1.2 kg.m | | |
| | Locked-rotor** | 200 % | | |
| | Breakdown** | 250 % | | |
| Moment of Inertia (J) | | | | |
| | Load(Max.) | 1.82625 kg·m² | | |
| | Motor | 0.008 kg·m² | | |
| Sound Pressure Level (No-load & mean value at 1m from motor) | | 57 dB(A) | | |
| Vibration | | 1.6 mm/sec(r.m.s) | | |
| Permissible number of consecutive starts | Cold | 3 times | | |
| | Hot | 2 times | | |
| Paint | Munsell No. | Panton279C | | |

## ACCESSORIES

## SPARE PARTS

## SUBMITTAL DRAWING

| Outline Dimension Drawing | | \ Motor Weight(Approx.) | |
|---|---|---|---|
| | B3 | LM-T0105B3PLV01 | 41 kg |
| | B5 | | kg |
| | V1 | | kg |
| | B3/B5 | | kg |
| Main T-Box Ass'y | | 3M-148549 | |

## REMARK

*.Premium Efficiency(IE3)

*.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise

| Date | DSND | CHKD | CHKD | APPD |
|---|---|---|---|---|
| 2018-11-23 | R.G. KIM | --- | O.J. KIM | S.K.HAN |

Note: Others not mentioned in this data sheet shall be in accordance with maker standard.

Made in Vietnam

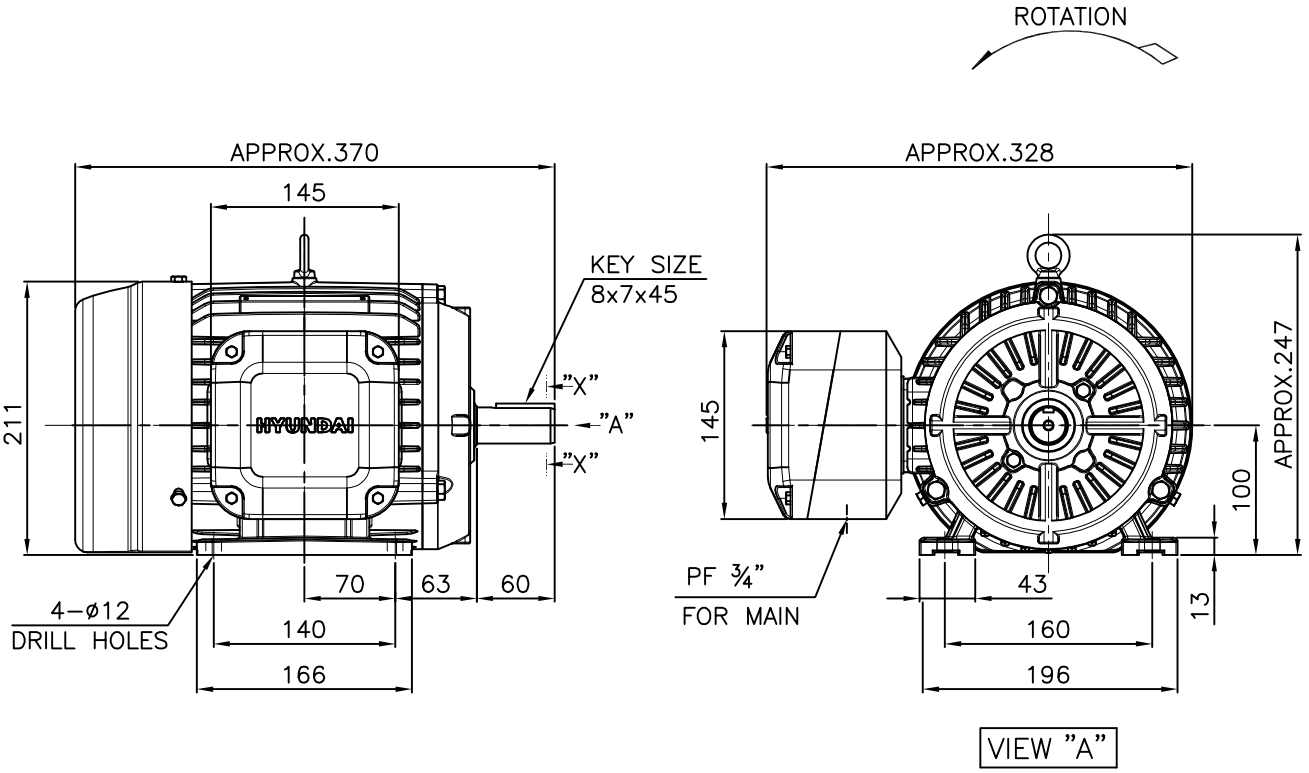
Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.

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.

** The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

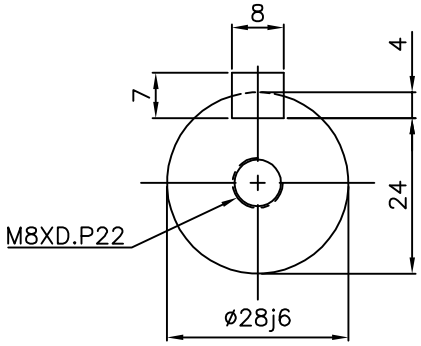
| | | REV | DATE | CONTENTS | REVD BY | CHKD BY | CHKD BY | APPD BY |
|---|---|---|---|---|---|---|---|---|
| ▽ | 50S | | | | | | | |
| ▽▽ | 12.5S | | | | | | | |
| ▽▽▽ | 3.2S | | | | | | | |
| ▽▽▽▽ | 0.4S | | | | | | | |




## NOTE

1.TOLERANCE :

| | | |
|---|---|---|
| CENTER HEIGHT | 100 | $^{0}_{-0.5}$ |
| BASE HOLES | ø12 | $^{+0.43}_{0}$ |
| SHAFT DIAMETER | ø28 | $^{+0.009}_{-0.004}$ |
| KEYWAY WIDTH | 8 | $^{0}_{-0.036}$ |
| KEYWAY DEPTH | 4 | $^{+0.2}_{0}$ |
| KEY WIDTH | 8 | $^{0}_{-0.036}$ |
| KEY HEIGHT | 7 | $^{0}_{-0.090}$ |




SECTION "X-X"
SCALE 5/6

| | | | |
|---|---|---|---|
| APPD BY | S.K.HAN | UNIT | mm |
| CHKD BY | S.Y.KIM | SCALE | 1/6 |
| CHKD BY | I.K.KIM | PROJEC'N | 3각법(3rd Angle) |
| DSND BY | S.H.LEE | DATE | 2019.06.18 |

HYUNDAI ELECTRIC

| | | | |
|---|---|---|---|
| SUBJECT | KS, IEC Fr.100L | | DWG SIZE A4 ( 1:6 ) |
| TITLE | OUTLINE | | |
| REF. NO | | Sheet No. | of |
| DWG NO | LM-T1105B3PLV01 | Revision No. | 0 |