

Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION for INDUCTION MOTOR



| | | | | | |
|-----|------|-------------|-------------|------------|-------------|
| | | | | | |
| 0 | | For Bidding | | | |
| No. | DATE | DESCRIPTION | PREPARED BY | CHECKED BY | APPROVED BY |

AC INDUCTION MOTOR DATA SHEET

| | | | | | | | |
|--|---|---|--|--|---------------|------|------|
| Model No.or RFQ No. | | Item No. | | Rev. No. [] | | | |
| Project Name | | Project No. | | Quantity sets | | | |
| GENERAL SPECIFICATION | | | PERFORMANCE DATA | | | | |
| Frame Size | 90L | | Rated Output | 1.5 kW 2.0 HP | | | |
| Type | HLP-1.5/2 | | Number of Poles | 2 | | | |
| Enclosure(Protection) | Totally Enclosed / IP55 | | Rotor Type | Squirrel Cage | | | |
| Method of Cooling | IC411(FC) | | Starting Method* | <input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-Δ | | | |
| Rated Frequency | 60 Hz | | Rated Voltage | 440 V | | | |
| Number of Phases | 3 | | Current | Full Load | 2.7 A | | |
| Insulation Class | <input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H | | Locked-rotor** | 890 % | | | |
| Temp. Rise at full load (by resistance method) | at 1.0 S.F 80 deg. C | | Efficiency | | | | |
| Motor Location | <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor | | | | | | |
| Altitude | Less than 1000 meter | | 100% Load | 85.5 % | | | |
| Relative Humidity | Less than 80 % | | Power Factor(p.u) | | | | |
| Ambient Temp. | 40 deg. C (Max.) | | | | | | |
| Duty Type | Continuous (S1) | | 100% Load | 0.860 | | | |
| Service Factor | 1.15 | | Speed at Full Load | 3480 r.p.m | | | |
| Mounting | B3 | | Torque | | | | |
| Bearing | Type | Anti-Friction | Full Load | 0.4 kg·m 4.1 | | | |
| | DE/N-DE | 6205ZZC3 / 6204ZZC3 | Locked-rotor** | 340 % 1.4 kg·m | | | |
| | Lubricant | Grease | Breakdown** | 260 % 1.1 kg·m | | | |
| External Thrust | Not applicable | | Moment of Inertia (J) | | | | |
| Coupling Method | <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt | | Load(Max.) | 0.504 kg·m ² | | | |
| Shaft Extension | <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double | | Motor | 0.002 kg·m ² | | | |
| Terminal | Main | <input checked="" type="checkbox"/> Aluminum <input type="checkbox"/> Cast Iron | Sound Pressure Level (No-load & mean value at 1m from motor) | 56 dB(A) | | | |
| Box | Aux. | <input type="checkbox"/> Yes <input type="checkbox"/> No | Vibration | 1.6 mm/sec (peak) | | | |
| | Location | Refer to Outline Drawing | Permissible number of consecutive starts | Cold 20 times Hot 15 times | | | |
| Application | | | Paint | Munsell No. | PHANTONE 279C | | |
| Area classification | Non-Hazardous | | | | | | |
| Type of Ex-Protection | Not applicable | | | | | | |
| Applicable Standard | KS, IEC, NEMA MG1 Part30(Vpeak) | | | | | | |
| ACCESSORIES | | | SUBMITTAL DRAWING | | | | |
| | | | Outline Dimension Drawing \ Motor Weight(Approx.) | | | | |
| | | | B3 LM-T1095B3PLV01 30 kg | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | REMARK | | | | |
| | | | *. Premium efficiency(IE3) acc. to KS C 4202 | | | | |
| | | | *. SSEN Series | | | | |
| | | | *. For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise | | | | |
| SPARE PARTS | | | <div style="border: 2px solid red; padding: 10px; text-align: center; font-size: 2em; color: red;">FOR BIDDING</div> | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | Date | DSND | CHKD | CHKD | APPD |
| | | | 2021-04-22 | | | | |

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.

Type : HLP-1.5/2

Full Load Torque : 0.4 kg.m

 Load moment of Inertia (J) : - kg.m²

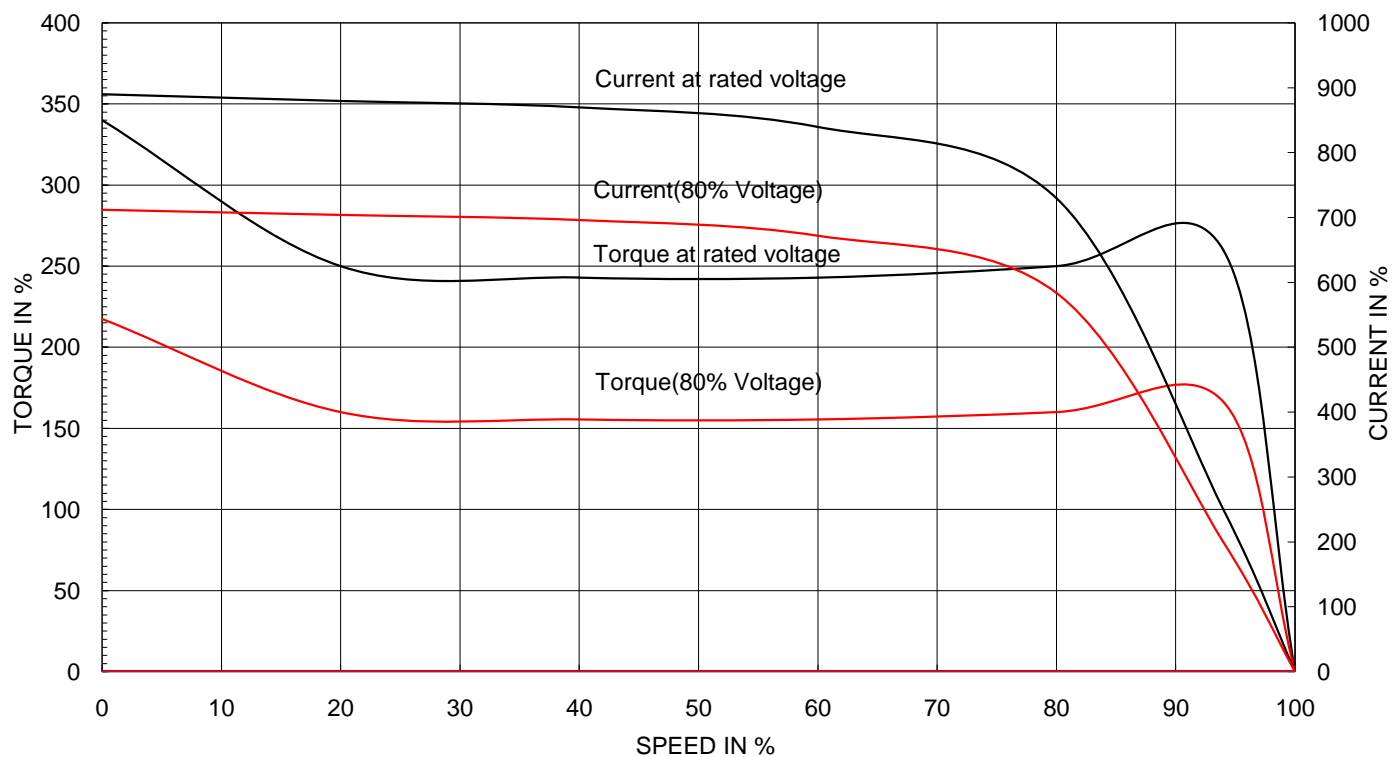
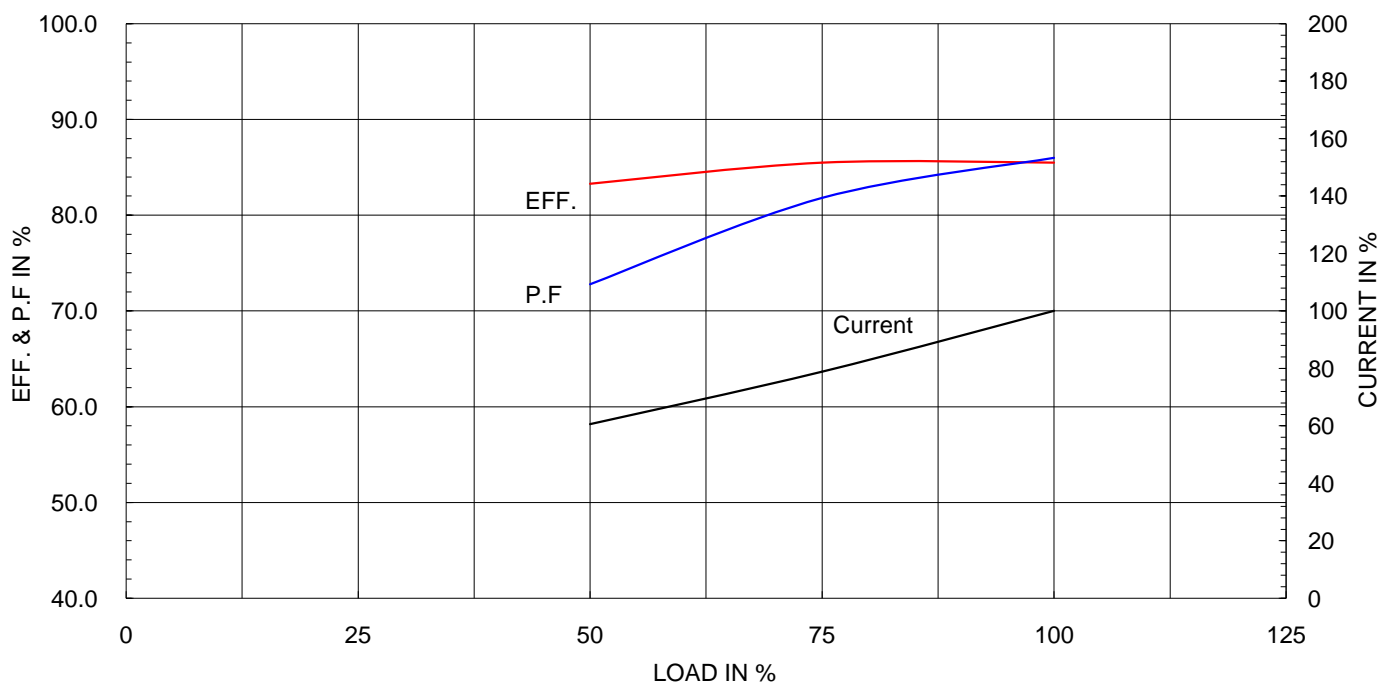
 Motor moment of Inertia (J) : 0.002 kg.m²

1.5 kW 2 P 60 Hz

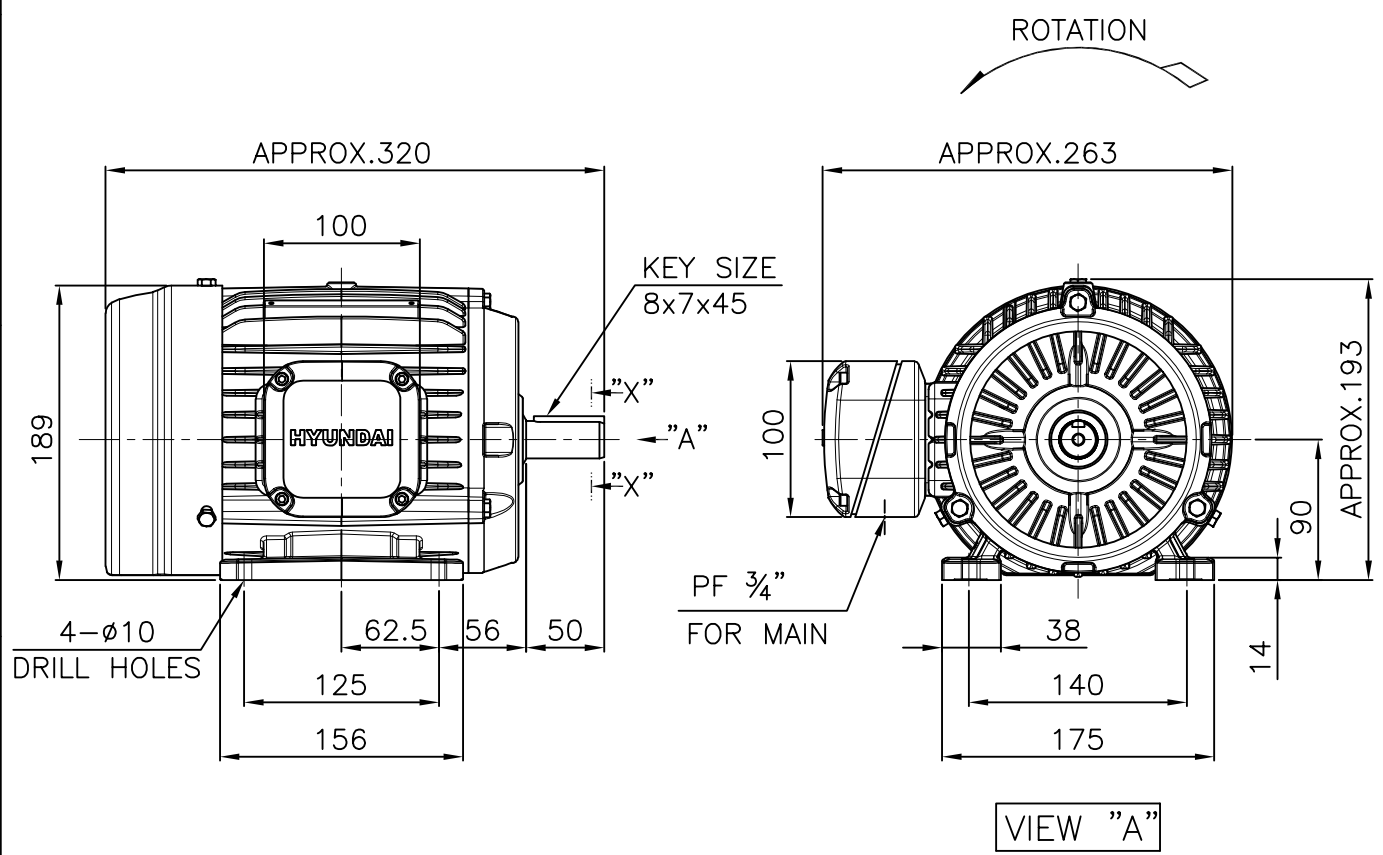
Speed at Full Load : 3480 RPM

Rated Voltage 440

Full Load Current 2.7A

SPEED VS TORQUE & CURRENT CURVE

OUTPUT VS EFF., P.F & CURRENT CURVE


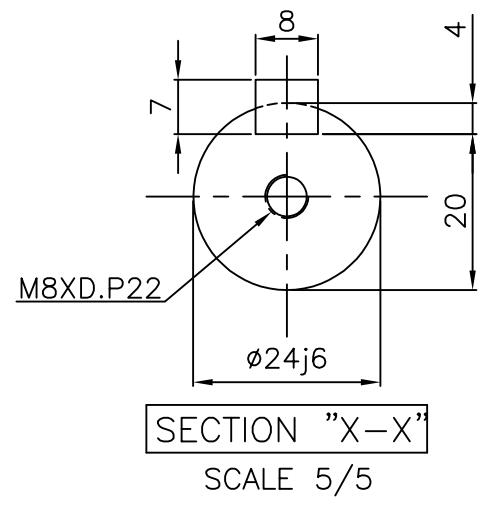
| 1 | | | 2 | | 3 | | 4 | | |
|------|-------|-----|------|----------|---|---------|---------|---------|---------|
| ▽ | 50S | REV | DATE | CONTENTS | | REVD BY | CHKD BY | CHKD BY | APPD BY |
| ▽▽ | 12.5S | | | | | | | | |
| ▽▽▽ | 3.2S | | | | | | | | |
| ▽▽▽▽ | 0.4S | | | | | | | | |



NOTE

1.TOLERANCE :

| | | |
|----------------|-----|--|
| CENTER HEIGHT | 90 | $\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$ |
| BASE HOLES | ø10 | $\begin{smallmatrix} +0.36 \\ 0 \end{smallmatrix}$ |
| SHAFT DIAMETER | ø24 | $\begin{smallmatrix} +0.009 \\ -0.004 \end{smallmatrix}$ |
| KEYWAY WIDTH | 8 | $\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$ |
| KEYWAY DEPTH | 4 | $\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$ |
| KEY WIDTH | 8 | $\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$ |
| KEY HEIGHT | 7 | $\begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$ |



| | | | | | | | |
|---------|---------|----------|-----------------|------------------|-----------------|--------------|-----------|
| APPD BY | S.K.HAN | UNIT | mm | SUBJECT | KS, IEC Fr.90L | DWG SIZE | A4 (16) |
| CHKD BY | S.Y.KIM | SCALE | 1/6 | TITLE OUTLINE | | | |
| CHKD BY | I.K.KIM | PROJEC'N | 3각법 (3rd Angle) | | | | |
| DSND BY | S.H.LEE | DATE | 2019.06.18 | | | | |
| | | | | REF. NO | | Sheet No. | of |
| | | | | DWG NO | LM-T1095B3PLV01 | Revision No. | 0 |

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