

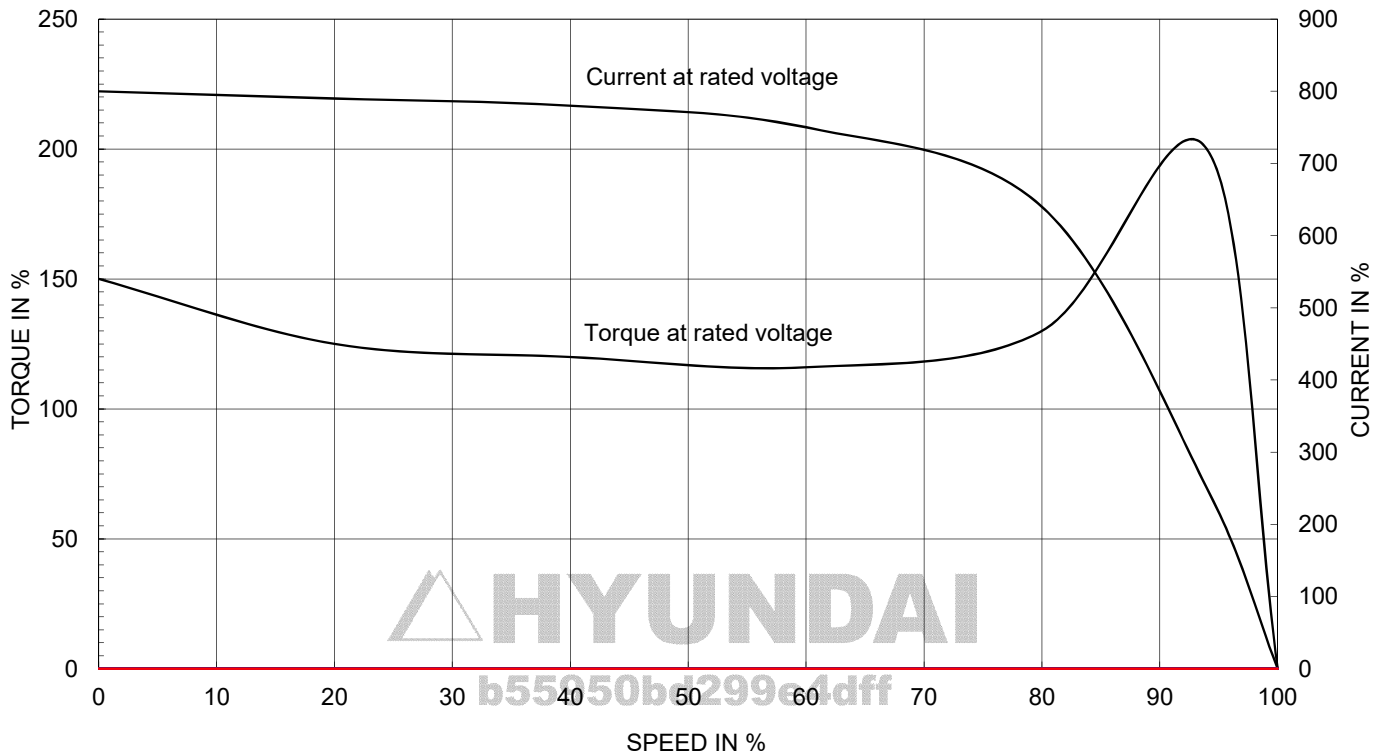
AC INDUCTION MOTOR DATA SHEET

| | | | | | | | | | |
|--|--|---|--|--|--|--|--------|------|--|
| Model No.or RFQ No. | | Item No. | | Rev. No. | | [0] | | | |
| Project Name | | Project No. | | Quantity | | set | | | |
| GENERAL SPECIFICATION | | | | PERFORMANCE DATA | | | | | |
| Frame Size | | 200LL | | Rated Output | | 45 kW 60 HP | | | |
| Type | | HLP-45/2 | | 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 380 V 220 V | | | |
| Number of Phases | | 3 | | Current | | Full Load 70.1 A 81.2 A 140.2 A | | | |
| Insulation Class | | <input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H | | Locked-rotor** | | 800 % 800 % 800 % | | | |
| Temp. Rise at full load (by resistance method) | | | | Efficiency | | | | | |
| at 1.0 S.F | | 80 °C | | 50% Load | | 92.1 % | | | |
| Motor Location | | <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor | | 75% Load | | 93.6 % | | | |
| Altitude | | Less than 1000m | | 100% Load | | 93.6 % | | | |
| Relative Humidity | | Less than 80 % | | Power Factor(p.u) | | | | | |
| Ambient Temp. | | 40 °C MAX. | | 50% Load | | 0.865 | | | |
| Duty Type | | Continuous(S1) | | 75% Load | | 0.890 | | | |
| Service Factor | | 1.15 | | 100% Load | | 0.900 | | | |
| Mounting | | <input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5 | | Speed at Full Load | | 3560 r.p.m | | | |
| Bearing | | Type Anti-Friction | | Torque | | | | | |
| | | DE/N-DE 6212ZC3 / 6212ZC3 | | Full Load | | 12.3 kg.m | | | |
| | | Lubricant Grease(Polyrex-EM) | | Locked-rotor** | | 150 % | | | |
| External Thrust | | Not applicable | | Breakdown** | | 200 % | | | |
| Coupling Method | | <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt | | Moment of Inertia (J) | | | | | |
| Shaft Extension | | <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double | | Load(Max.) | | 14.7741573 kg·m² | | | |
| Terminal Box | | Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron | | Motor | | 0.208 kg·m² | | | |
| | | Aux. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Sound Pressure Level (No-load & mean value at 1m from motor) | | | | | |
| | | Location Refer to Outline Drawing | | | | 79 dB(A) | | | |
| Application | | | | Vibration | | 2.2 mm/sec(r.m.s) | | | |
| Area classification | | Non-Hazardous | | Permissible number of consecutive starts | | Cold 3 times | | | |
| Type of Ex-Protection | | Not applicable | | | | Hot 2 times | | | |
| Applicable Standard | | KS, IEC, NEMA MG1 Part30(Vpeak) | | Paint | | Munsell No. Panton279C | | | |
| ACCESSORIES | | | | SUBMITTAL DRAWING | | | | | |
| | | | | Outline Dimension Drawing \ Motor Weight(Approx.) | | | | | |
| | | | | B3 | | | kg | | |
| | | | | B5 | | LM-T1207B5CLV01 | 320 kg | | |
| | | | | V1 | | | kg | | |
| | | | | B3/B5 | | | kg | | |
| | | | | Main T-Box Ass'y | | 3M-145864 | | | |
| | | | | | | | | | |
| | | | | REMARK | | | | | |
| | | | | *.Premium Efficiency(IE3) | | | | | |
| | | | | *.For use on PWM VFD 10:1VT,3:1CT@ 1.0S.F&F Temp.rise | | | | | |
| SPARE PARTS | | | | | | | | | |
| | | | | Date | | DSND | | CHKD | |
| | | | | 2018-11-23 | | R.G. KIM | | --- | |

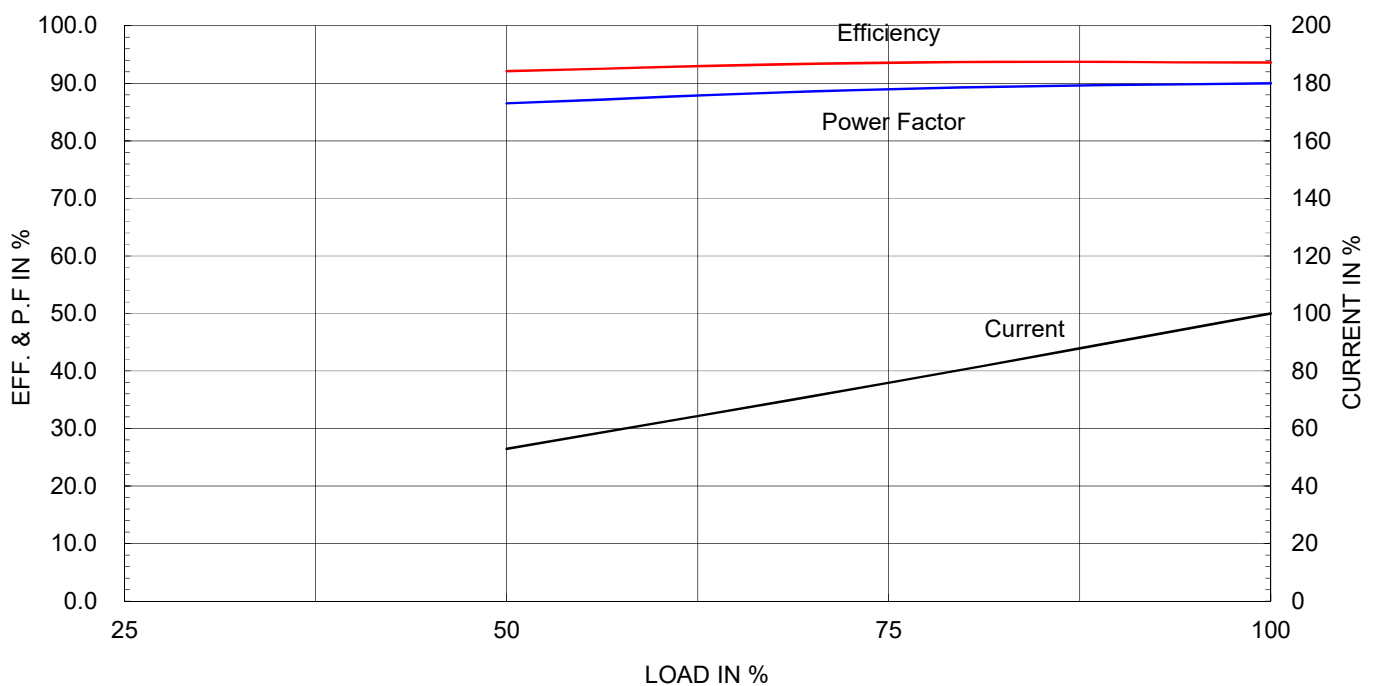
| | |
|-------------------------------|--------------------------|
| Type : | HLP-45/2 |
| Full Load Torque : | 12.3 Kg-m |
| Load moment of Inertia (J) : | 14.774 Kg-m ² |
| Motor moment of Inertia (J) : | 0.208 Kg-m ² |

| | | | |
|-------------------------------|-------|-------|--------|
| 45kW | 60HP | 2P | 60 Hz |
| Speed at Full Load : 3560 RPM | | | |
| Rated Voltage | 440V | 380V | 220V |
| Full Load Current | 70.1A | 81.2A | 140.2A |

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



| | 1 | 2 | 3 | 4 |
|------|-------|-----|------|----------|
| ▽ | 50S | REV | DATE | CONTENTS |
| ▽▽ | 12.5S | | | |
| ▽▽▽ | 3.2S | | | |
| ▽▽▽▽ | 0.4S | | | |

ROTATION

APPROX.820

170

310.5

110

21

5

16X10X80
KEY SIZE

"X"

A

ø350j6

ø450

394

HYUNDAI

APPROX.554

22.5°

P.C.D400

170

PF 2"
FOR MAIN

8-ø19
DRILL HOLES

APPROX.493

VIEW "A"

NOTE

1.TOLERANCE :

| | | |
|-----------------|------------|------------------|
| FLANGE HOLE | ø19 | +0.52 0 |
| RABBET DIAMETER | ø350±0.018 | |
| SHAFT DIAMETER | ø55 | +0.030 +0.011 |
| KEYWAY WIDTH | 16 | 0 -0.043 |
| KEYWAY DEPTH | 6 | +0.2 0 |
| KEY WIDTH | 16 | 0 -0.043 |
| KEY HEIGHT | 10 | 0 -0.090 |

M16XD.P35

16

6

10

49

ø55m6

SECTION "X-X"

SCALE 4/11

| APPD BY | S.K.HAN | UNIT | mm | SUBJECT | KS Fr.200LL-2P | DWG SIZE |
|---------|---------|----------|----------------|---------|-----------------|----------------|
| CHKD BY | I.K.KIM | SCALE | 1/11 | TITLE | | A4 (1:11) |
| CHKD BY | S.H.LEE | PROJEC'N | 3각법(3rd Angle) | | | |
| DSND BY | S.R.KIM | DATE | 2020.06.19 | | | |
| | | | | REF. NO | | Sheet No. of |
| | | | | DWG NO | LM-T1207B5CLV01 | Revision No. 0 |

