

AC INDUCTION MOTOR DATA SHEET

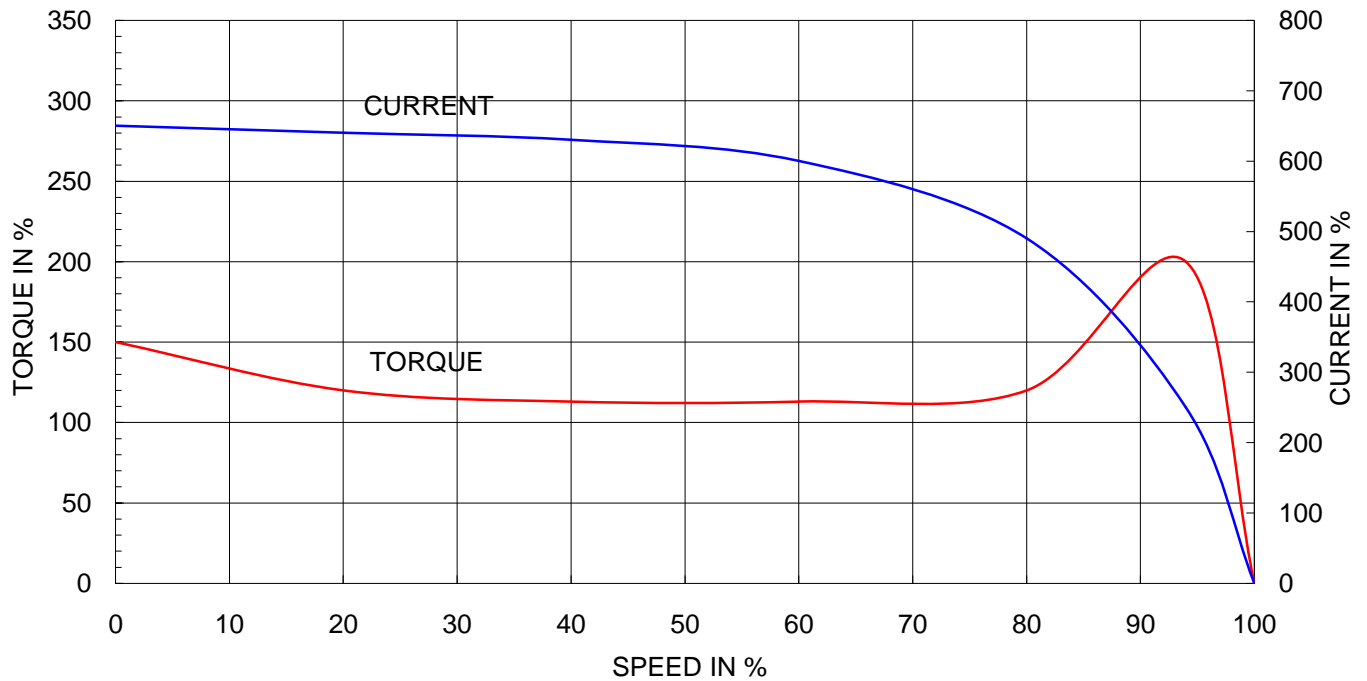
| Model No.or RFQ No. | | Item No. | | Rev. No. [0] | | | |
|--|---|--|--|---|-------------------------------|----------|-----------|
| Project Name | | Project No. | | Quantity sets | | | |
| GENERAL SPECIFICATION | | | PERFORMANCE DATA | | | | |
| Frame Size | 200LL | | Rated Output | 45 kW 60 HP | | | |
| Type | HK-XP | | Number of Poles | 2 | | | |
| Enclosure(Protection) | Explosion Proof (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 | 69.8 A 80.8 A 139.5 A | | |
| Insulation Class | <input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H | | | Locked-rotor** | 650 % 650 % 650 % | | |
| Temp. Rise at full load (by resistance method) | at 1.0 S.F 80 deg. C | | Efficiency | 50% Load 92.7 % | | | |
| | Motor Location <input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor | | | 75% Load 93.1 % | | | |
| Altitude Less than 1000 meter | | 100% Load 93.0 % | | | | | |
| Relative Humidity | Less than 80 % | | Power Factor(p.u) | 50% Load 0.895 | | | |
| Ambient Temp. | 40 deg. C (Max.) | | | 75% Load 0.910 | | | |
| Duty Type | Continuous (S1) | | | 100% Load 0.910 | | | |
| Service Factor | 1.00 | | Speed at Full Load | 3560 r.p.m | | | |
| Mounting | <input type="checkbox"/> B3 <input type="checkbox"/> B5 <input checked="" type="checkbox"/> V1 <input type="checkbox"/> B3/B5 | | Torque | Full Load 12.3 kg·m | | | |
| Bearing | Type | Anti-Friction | | Locked-rotor** 150 % | | | |
| | DE/N-DE | 6313ZC3 / 6211ZC3 | | Breakdown** 200 % | | | |
| Lubricant | Grease(Gadus S2 V 100 2) | | Moment of Inertia (J) | | | | |
| External Thrust | Not applicable | | Load(Max.) 4.750 kg·m ² | | Motor 0.208 kg·m ² | | |
| Coupling Method | <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt | | Sound Pressure Level (No-load & mean value at 1m from motor) | | | | |
| Shaft Extension | <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double | | 87 dB(A) | | | | |
| Terminal Box | Main | <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron | | Vibration 2.2 mm/sec (r.m.s) | | | |
| | Aux. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Permissible number of consecutive starts | | | |
| Location | Refer to Outline Drawing | | Cold 3 times | | Hot 2 times | | |
| Application | | | Paint | Munsell No. 4.0PB5.4/5.5(VL-451) | | | |
| Area classification | Hazardous | | SUBMITTAL DRAWING | | | | |
| Type of Ex-Protection | Ex d II T4 | | Outline Dimension Drawing \ Motor Weight(Approx.) | | | | |
| Applicable Standard | KS,IEC | | B3 | | kg | | |
| ACCESSORIES | | | B5 | | kg | | |
| | | | V1 | 227B1616X19 | 400 kg | | |
| | | | B3/B5 | 0 | 0 kg | | |
| | | | Main T-Box Ass'y | 227B1470LA | | | |
| | | | | | | | |
| | | | | | | | |
| SPARE PARTS | | | REMARK | | | | |
| | | | High Efficiency | | | | |
| | | | Date | DSND | CHKD | CHKD | APPD |
| | | | 2010-05-28 | R.G. KIM | O.J. KIM | J.H. KIM | K.J. KANG |

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.

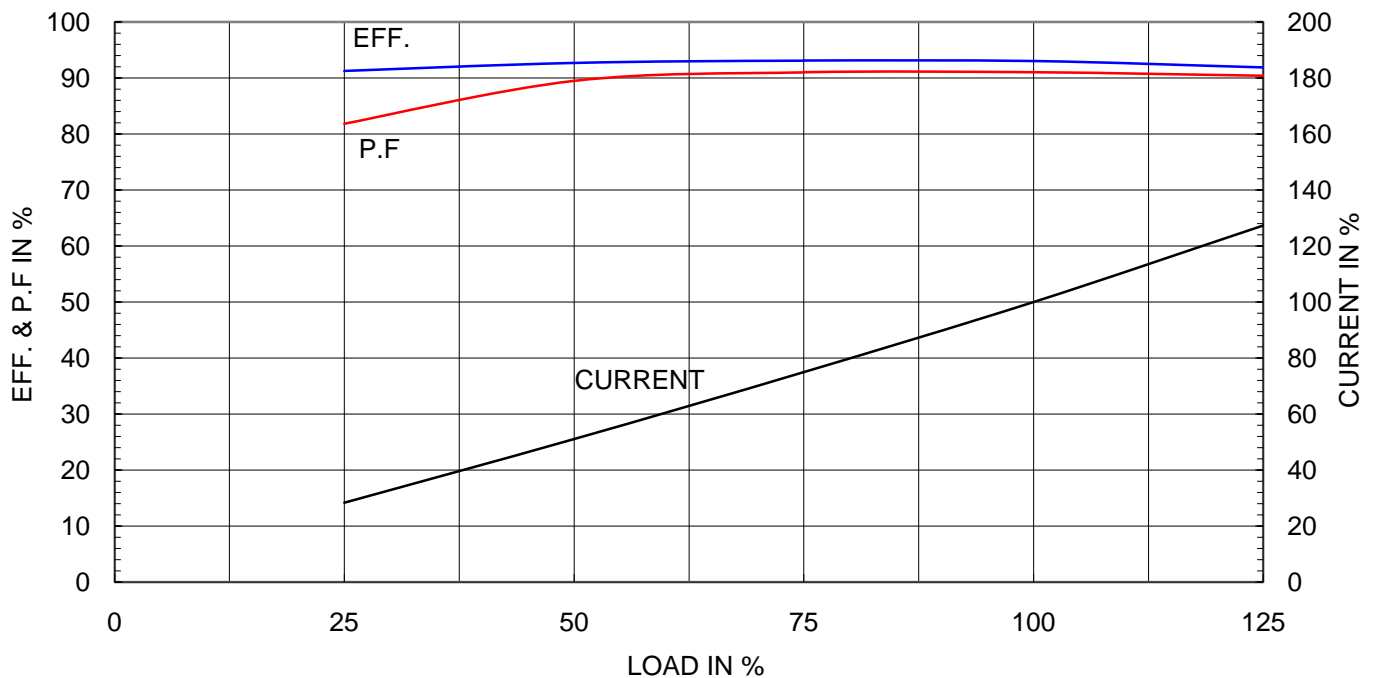
| | | |
|-----------------------------|---|-------------------------|
| Type | : | HL-XP |
| Full Load Torque | : | 12.3 Kg.m |
| Motor moment of Inertia (J) | : | 0.208 Kg.m ² |
| Load moment of Inertia (J) | : | 4.750 Kg.m ² |

| | | | |
|----------------------|-------|----------|--------|
| 45 kW | 2 P | 60 Hz | |
| Speed at Full Load : | | 3560 RPM | |
| Rated Voltage | 440V | 380V | 220V |
| Full Load Current | 69.8A | 80.8A | 139.5A |

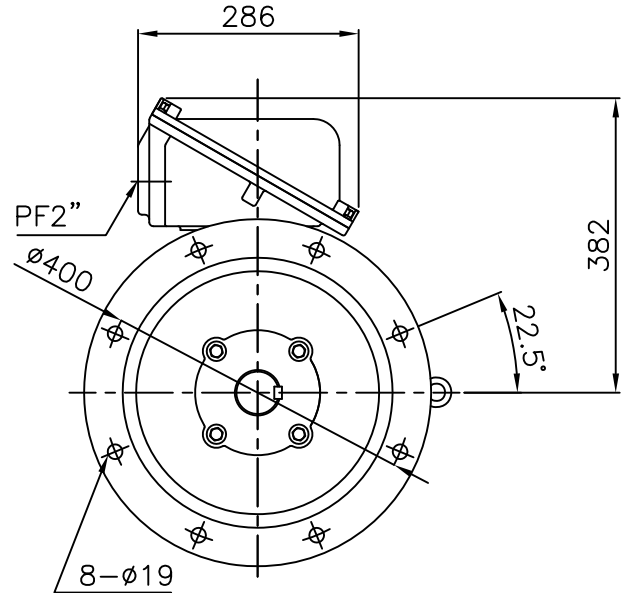
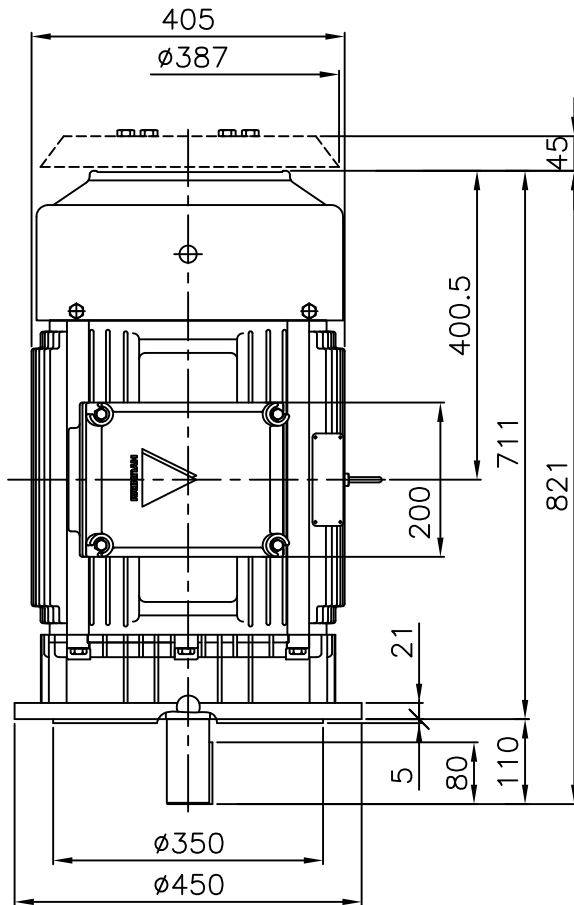
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



Exd II



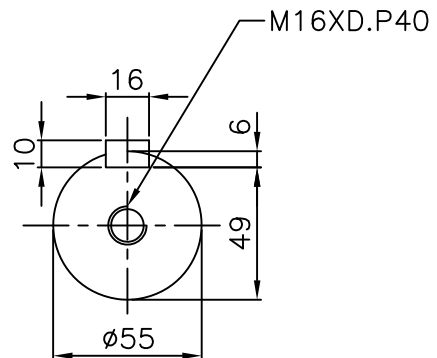
NOTE

1. TOLERANCE :

| | |
|-----------------|---|
| FLANGE HOLES | $\phi 19 \begin{smallmatrix} +0.43 \\ -0. \end{smallmatrix}$ |
| RABBET DIAMETER | $\phi 350 \begin{smallmatrix} +0.018 \\ -0.018 \end{smallmatrix}$ |
| SHAFT DIAMETER | $\phi 55 \begin{smallmatrix} +0.030 \\ +0.011 \end{smallmatrix}$ |
| KEYWAY WIDTH | $16 \begin{smallmatrix} +0 \\ -0.043 \end{smallmatrix}$ |
| KEYWAY DEPTH | $49 \begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$ |

2. REMARK

DRIP COVER WILL BE ATTACHED PER REQUEST FROM CUSTOMER ONLY.



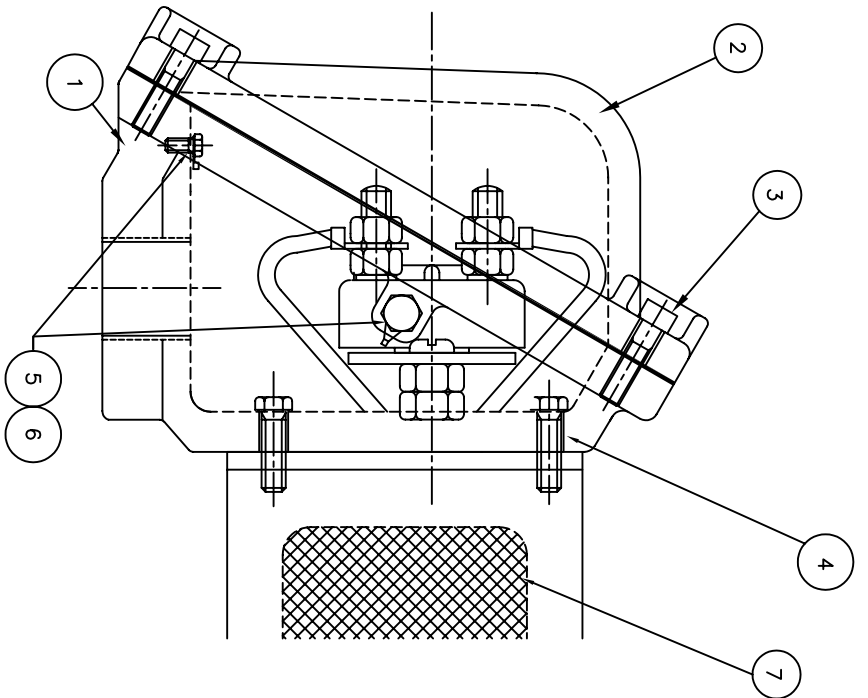
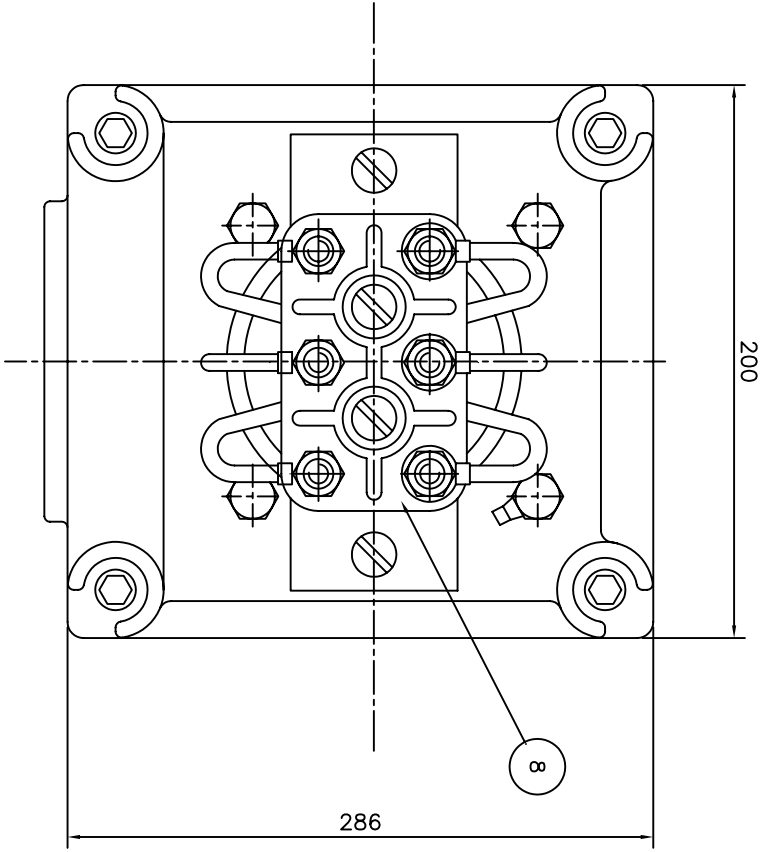
*d2G4

| | | | | | | |
|---------|---------------|----------|------------|---------|-----------------|-----------------|
| APPD BY | KIM.Y.S | UNIT | mm | SUBJECT | XSD KS 200LL 2P | CAD PROJ \ FILE |
| CHKD BY | --- | SCALE | 1/10 | TITLE | OUTLINE | |
| CHKD BY | KO.S.H | PROJEC'N | 3rd Angle | REF. NO | B1616XI09 | Sheet No. of |
| DSND BY | LEE KWANG SOO | DATE | 2008.12.05 | DWG NO | 227B1616XI09 | Revision No. 0 |

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| 1 | TERMINAL BLOCK | D4C29C | | | | | | | | |
|-------------|-----------------------|------------------|-----------|-------------------|-----------------|-----------------|-----|--|--|--|
| | SEALING COMPOUND | CU | | | | | | | | |
| 2 | GRD TERMINAL LUG | S45C | | | | | | | | |
| 2 | GRD. BOLT | S45C | | | | | | | | |
| 4 | T/B + FRAME BOLT | S45C | | | | | | | | |
| 4 | T/B + COVER BOLT | S45C | | | | | | | | |
| 1 | TERMINAL BOX COVER | FC15 | | | | | | | | |
| 1 | TERMINAL BOX ASSEMBLY | FC15 | | | | | | | | |
| Q'TY | DESCRIPTION | MATERIAL | DIMENSION | WEIGHT | PART NO. | REMARK | NO. | | | |
| APPD BY | UNIT | MM | SUBJECT | IEC200FR 42G4 | CAD PROJ \ FILE | XSMOUT\7B1468LB | | | | |
| CHKD BY | SCALE | N/S | TITLE | MAIN TERMINAL BOX | | | | | | |
| DSND BY | PROJECT | 3-4# (3rd Angle) | REF. NO | 7B1470LA | Sheet No. | of | | | | |
| DATE | 99.2.2 | | DWG NO | 227B1470LA | Revision No. | 0 | | | | |
| DESIGNED BY | LEE E.J. | | | | | | | | | |

| REV | DATE | CONTENTS | REV'D BY | CHK'D BY | APP'D BY |
|-----|------|----------|----------|----------|----------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

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