



AC INDUCTION MOTOR DATA SHEET

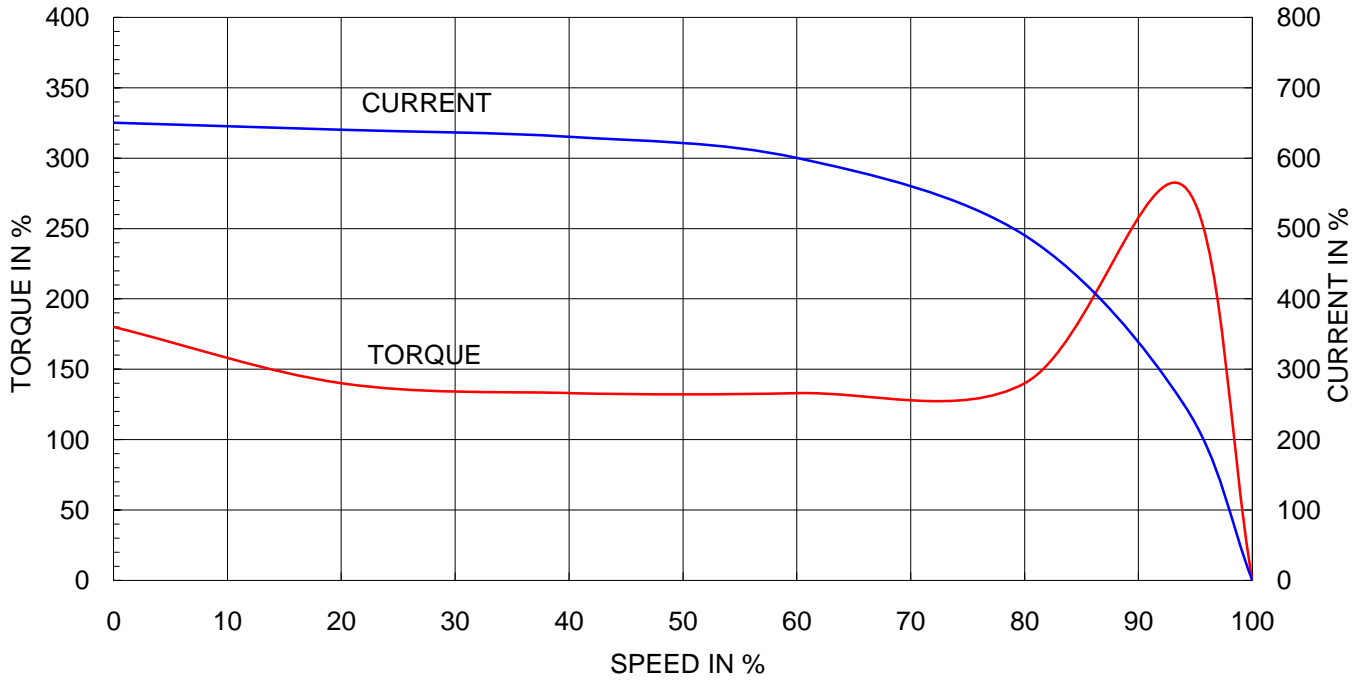
| Model No.or RFQ No. | | Item No. | | Rev. No. [0] | | | |
|--|---|--|---|---|----------------------|-----------|-----------|
| Project Name | | Project No. | | Quantity sets | | | |
| GENERAL SPECIFICATION | | | PERFORMANCE DATA | | | | |
| Frame Size | 132S | | Rated Output | 7.5 kW 10 HP | | | |
| Type | HL-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 | 12.9 A 15.0 A 25.9 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) | | | Efficiency | | | | |
| at 1.0 S.F 80 deg. C | | | 50% Load 86.8 % | | | | |
| Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor | | | 75% Load 89.0 % | | | | |
| Altitude Less than 1000 meter | | | 100% Load 89.5 % | | | | |
| Relative Humidity Less than 80 % | | | Power Factor(p.u) | | | | |
| Ambient Temp. 40 deg. C (Max.) | | | 50% Load 0.737 | | | | |
| Duty Type Continuos (S1) | | | 75% Load 0.810 | | | | |
| Service Factor 1.00 | | | 100% Load 0.850 | | | | |
| Mounting <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5 | | | Speed at Full Load 3525 r.p.m | | | | |
| Bearing | Type | Anti-Friction | | Torque | | | |
| | DE/N-DE | 6208ZZC3 / 6208ZZC3 | | Full Load 2.1 kg·m | | | |
| Lubricant | | Grease(Polyrex-EM) | | Locked-rotor** 180 % | | | |
| External Thrust Not applicable | | | Breakdown** 280 % | | | | |
| 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.) 1.600 kg·m ² | | | | |
| Terminal Box | Main | <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron | | Motor 0.019 kg·m ² | | | |
| | 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 | | | 76 dB(A) | | | | |
| Application | | | Vibration 1.6 mm/sec (r.m.s) | | | | |
| Area classification Hazardous | | | Permissible number of consecutive starts | | | | |
| Type of Ex-Protection Ex d IIB T4 | | | Cold 3 times | | | | |
| Applicable Standard KS,IEC | | | Hot 2 times | | | | |
| Paint | | | Munsell No. 4.0PB5.4/5.5(VL-451) | | | | |
| ACCESSORIES | | | SUBMITTAL DRAWING | | | | |
| | | | Outline Dimension Drawing \ Motor Weight(Approx.) | | | | |
| | | | B3 | 227B2002AA03 | 79 kg | | |
| | | | B5 | | kg | | |
| | | | V1 | | kg | | |
| | | | B3/B5 | | 0 kg | | |
| Main T-Box Ass'y | | | 227B1470LC | | | | |
| SPARE PARTS | | | REMARK High Efficiency | | | | |
| | | | Date | DSND | CHKD | CHKD | APPD |
| | | | 2011-04-14 | W.H.BACK | S. J. RA | O. J. KIM | J. H. KIM |

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.

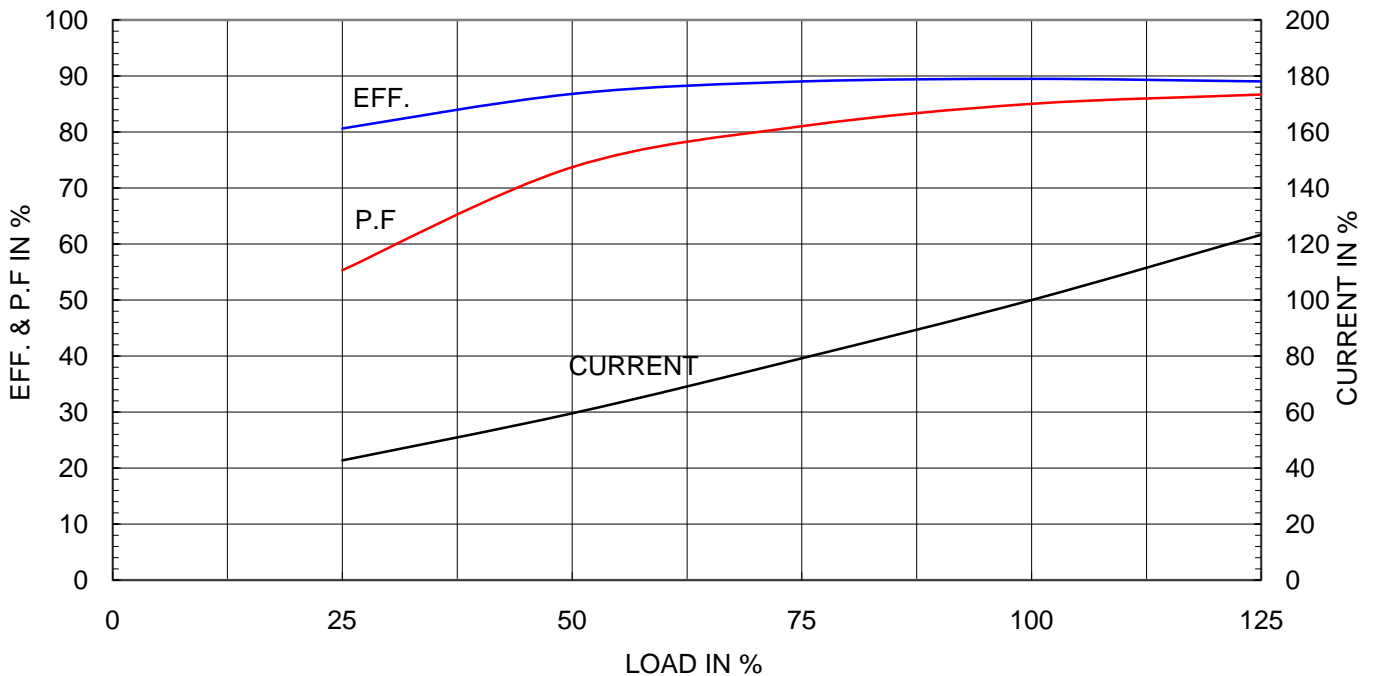
| | | |
|-----------------------------|---|-------------------------|
| Type | : | HL-XP |
| Full Load Torque | : | 2.1 Kg.m |
| Motor moment of Inertia (J) | : | 0.019 Kg.m ² |
| Load moment of Inertia (J) | : | 1.600 Kg.m ² |

| | | | |
|----------------------|-------|----------|-------|
| 7.5 kW | 2 P | 60 Hz | |
| Speed at Full Load : | | 3525 RPM | |
| Rated Voltage | 440V | 380V | 220V |
| Full Load Current | 12.9A | 15.0A | 25.9A |

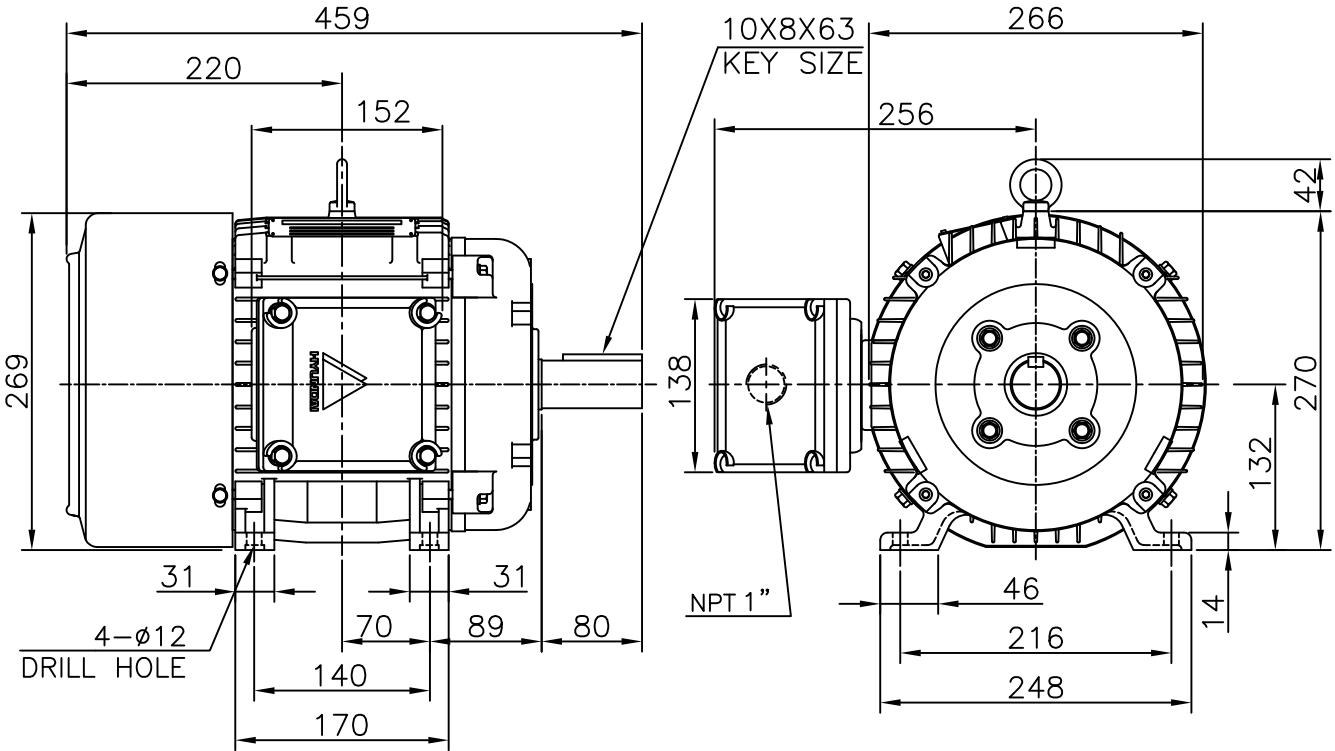
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



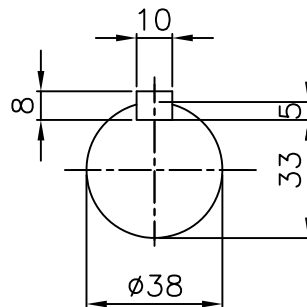
Exd II



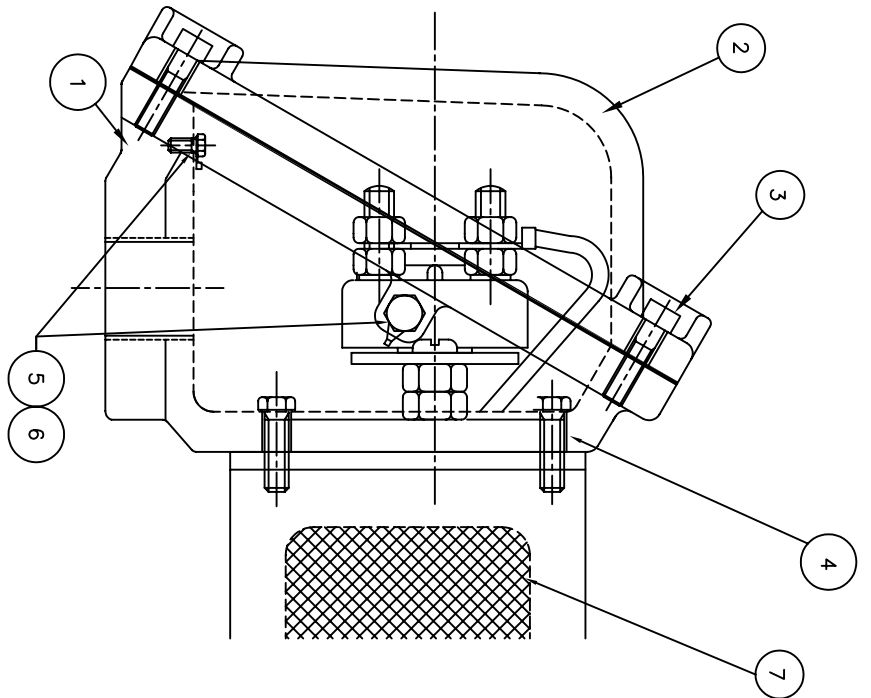
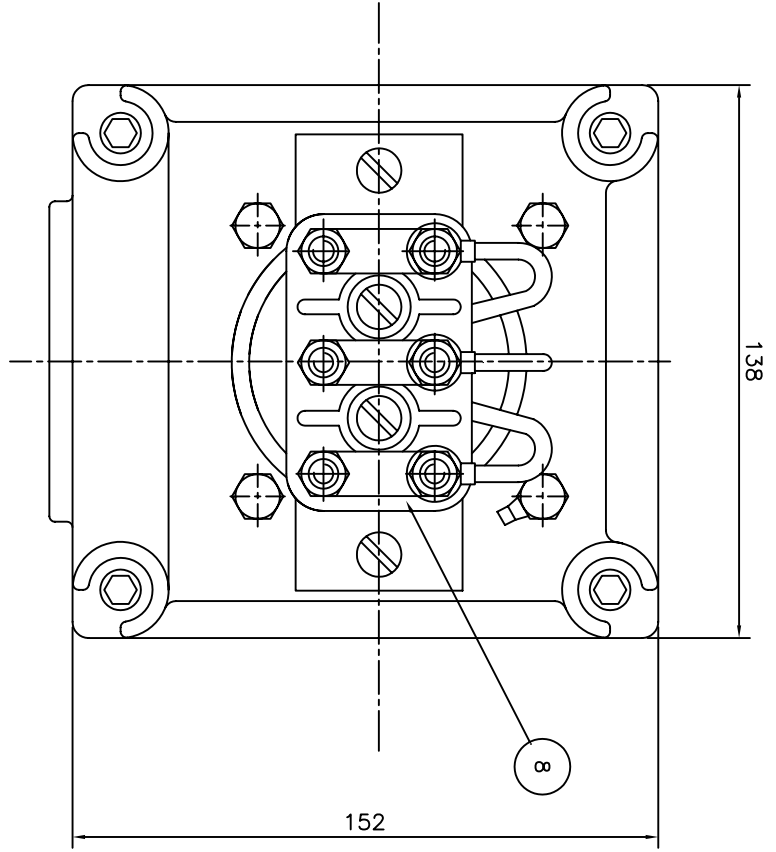
NOTE

1.TOLERANCE :

| | | |
|----------------|-----------|--|
| CENTER HEIGHT | 132 | $\begin{matrix} 0 \\ -0.5 \end{matrix}$ |
| BASE HOLES | $\phi 12$ | $\begin{matrix} +0.43 \\ 0 \end{matrix}$ |
| SHAFT DIAMETER | $\phi 38$ | $\begin{matrix} +0.018 \\ +0.002 \end{matrix}$ |
| KEYWAY WIDTH | 10 | $\begin{matrix} 0 \\ -0.036 \end{matrix}$ |
| KEYWAY DEPTH | 5 | $\begin{matrix} +0.2 \\ 0 \end{matrix}$ |



| | | | | | | | |
|---------|-------------|----------|-------------|---------|--------------|-----------------|------------------|
| APPD BY | B. M. YOO | UNIT | mm | SUBJECT | KS 132S | CAD PROJ \ FILE | XSDNKS\B2002AA04 |
| CHKD BY | | SCALE | 1/6.5 | TITLE | OUTLINE | | |
| CHKD BY | S. W. SEO | PROJEC'N | 3rd Angle | REF. NO | B2002AA03 | Sheet No. | of |
| DSND BY | J. S. JEONG | DATE | 2008.06.27. | DWG NO | 227B2002AA03 | Revision No. | 0 |
| | | | | | | | |



| Q'TY | DESCRIPTION | MATERIAL | DIMENSION | WEIGHT | PART NO. | REMARK | NO. |
|------|-----------------------|----------|-----------|--------|----------|--------|-----|
| 1 | TERMINAL BLOCK | D4C29C | | | | | 8 |
| 1 | SEALING COMPOUND | CU | | | | | 7 |
| 2 | GRD. TERMINAL LUG | S45C | | | | | 6 |
| 2 | GRD. BOLT | S45C | | | | | 5 |
| 4 | T/B + FRAME BOLT | S45C | | | | | 4 |
| 4 | T/B + COVER BOLT | S45C | | | | | 3 |
| 1 | TERMINAL BOX COVER | FC15 | | | | | 2 |
| 1 | TERMINAL BOX ASSEMBLY | FC15 | | | | | 1 |

| APPD BY | UNIT | MM | SUBJECT | IEC100-32FR d2G4 | CAD PROJ. FILE |
|---------|----------|------------------|---------|-------------------|-----------------|
| CHKD BY | SCALE | N/S | | | XSMOUT\7B1468LC |
| CHKD BY | PROJEC'N | 3-4# (3rd Angle) | TITLE | MAIN TERMINAL BOX | |
| DSND BY | DATE | 99.2.2 | REF. NO | 7B1469LC | Sheet No. of |

| REV | DATE | CONTENTS | REVD BY | CHKD BY | CHKD BY | APPD BY |
|-----|------|----------|---------|---------|---------|---------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |

| APPD BY | UNIT | MM | SUBJECT | IEC100-32FR d2G4 | CAD PROJ. FILE |
|---------|----------|------------------|---------|-------------------|-----------------|
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