




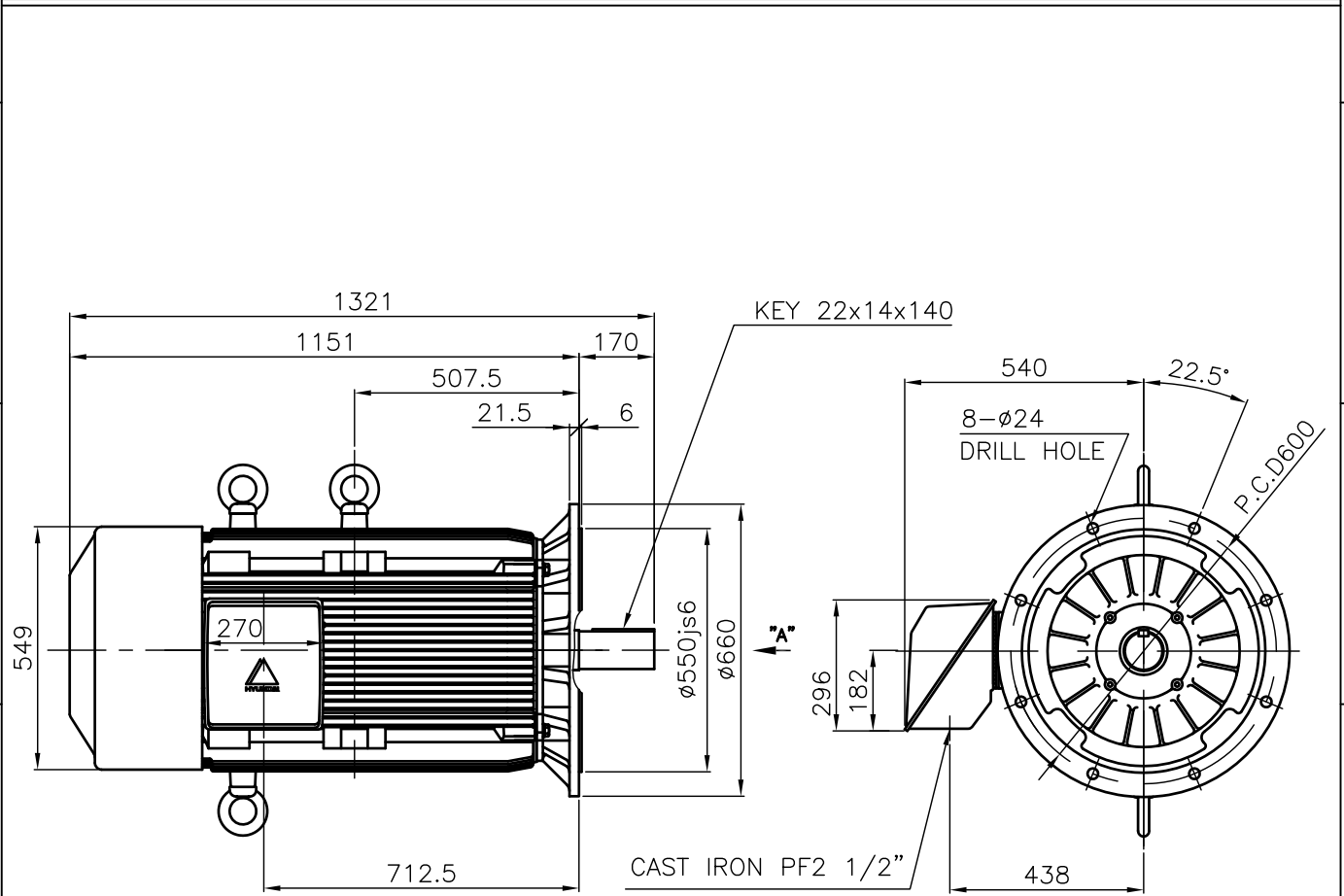
|  | | DATA SHEET of AC INDUCTION MOTOR | | | | 268 HP - 4 P TE | |
|--|--|--|--|---|---|----------------------------------|-----------|
| | | | | | | DESIGN NO : KS C4202-1996 | |
| Model No.or RFQ No. | | Item No. | | Rev. No. | [0] | | |
| Project Name | | Project No. | | Quantity : | | | |
| GENERAL SPECIFICATION | | | PERFORMANCE DATA | | | | |
| Frame No. | 280LL | | Output | 268 HP 200 KW | | | |
| Type | TNB | | Poles | 4 P | | | |
| Enclosure(Protection) | Totally Enclosed (IP IP54) | | Rotor Type | Squirrel Cage | | | |
| Cooling Method | IC411(FC) | | Starting Method(*) | <input checked="" type="checkbox"/> D.O.L. <input type="checkbox"/> Y-Δ | | | |
| Frequency | 60 Hz | | Rated Voltage | 440 V | 380 V | 220 V | |
| Phase | 3 φ | | Current | Rated Load | 313.6 A | 363.1 A 627.2 A | |
| Insulation Class | <input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H | | | Start'g-D.O.L | 2,038.4 A | 2,360.3 A 4,076.9 A | |
| Temp. Rise at full load (by resistance method) | at 1.0 S.F 105 °C | | Efficiency | | | | |
| Location | <input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor | | 50% Load | 92.6 % | | | |
| Altitude | Less than 1000 meter | | 75% Load | 93.6 % | | | |
| Humidity | Less than 80 % | | 100% Load | 93.5 % | | | |
| Ambient Temp. | 40 °C (Max.) | | Power Factor | | | | |
| Duty | CONT.(S1) | | 50% Load | 82.0 % | | | |
| Service Factor | 1.00 | | 75% Load | 87.5 % | | | |
| Electric Design | NEMA Design B | | 100% Load | 89.5 % | | | |
| Construction | <input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> | | Speed at Rated Load | 1770 RPM / SLIP 1.67 % | | | |
| Bearing | Type | Anti-friction | | Torque (D.O.L) | | | |
| | DE/ODE | 6318C3 \ 6316C3 | | Rated | 110.1 Kg.m | 100 % | |
| | Lubricant | GREASE(ALVANIA#2) | | Starting | 176.1 Kg.m | 160 % | |
| External Thrust | Not applicable | | Break down | 242.1 Kg.m | 220 % | | |
| Coupling Method | <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt | | Allowable Load GD ² referred to motor shaft | 486.500 Kg.m ² | | | |
| Shaft Extension | <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double | | Motor GD ² | 17.270 Kg.m ² | | | |
| Terminal Box | Main | <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron | Noise Level (dB(A)) | 88 dB(A) at 1m from motor(No-load) | | | |
| | Aux. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Vibration(Velocity) | 3.8 mm/sec.(peak) | | | |
| | Location | <input checked="" type="checkbox"/> Left <input type="checkbox"/> Right | Starting Duty | Cold 2 times \ Hot 1 time | | | |
| (Viewed from Drive End) | | | Paint | Munsell No. | 4.OPB5.4/5.5(VL-451) | | |
| Application | | | SUBMITTAL DRAWING | | | | |
| Area Classification | Not applicable | | Outline Dimension Drawing | Motor Weight(Approx.) | | | |
| Applicable Standard | KS | | <input type="checkbox"/> B3 | TJ8XAP51 | 1130 Kg | | |
| Inspection and Performance Test | | | <input type="checkbox"/> B5 | TJ8XBP51 | 1160 Kg | | |
| HHI Stand. | Maker Test Report | | <input type="checkbox"/> V1 | TJ8XPP51 | 1160 Kg | | |
| ACCESSORIES(OPTION ITEM) | | | Main T-Box Ass'y | 3M-016882 | | | |
| | | | | | | | |
| SPARE PARTS | | | REMARK | | | | |
| | | | | | | | |
| Note: Others not mentioned in this specification shall be in accordance with HHI standard. Above technical data are only design values and shall be guaranteed with tolerance of applicable standard. | | | Date | DSND | CHKD | CHKD | APPD |
| | | | 2004.01.27 | KIM R.G. |  | KIM O.J. | KANG K.G. |

HHI W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

본 도면은 현대중공업(주) 재산이므로
허가없이 복사할 수 없음 (취급유의)

THIS DRAWING IS PROPRIETARY TO HHI. NO PART OF THIS DRAWING
MAYBE REPRODUCED WITHOUT THE PERMISSION OF HHI.

| | | | | | | | |
|--|--|--|--|---|--|---|--|
| 1 | | 2 | | 3 | | 4 | |
|  HYUNDAI HEAVY INDUSTRIES CO., LTD. | | <h1>TEFC</h1> <h2>THREE PHASE INDUCTION MOTOR</h2> | | | | TYPE (1) TNB , TDB CAST IRON FRAME | |

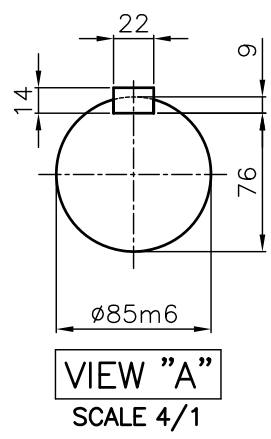



NOTE

1.TOLERANCE :

| | | |
|-----------------|---------|------------------|
| RABBET DIAMETER | ø550js6 | ±0.022 |
| SHAFT DIAMETER | ø85m6 | +0.035 +0.013 |
| KEYWAY WIDTH | 22P9 | -0.022 -0.074 |
| KEYWAY DEPTH | 9 | +0.2 0 |

2.The type (1)-"TNB , TDB" is for HHI's standard products and it can be changed for customer's requirements or detail designing.



| | | | | | | | |
|--|--|--|--|---|-----------|-----------------|----|
| APPD BY KANG K.J. UNIT MM | | | | SUBJECT KS Fr.280LL TEFC | | TEFC STANDARD | |
| CHKD BY KIM O.J. SCALE 1/17 | | | | TITLE | | CAD PROJ \ FILE | |
| CHKD BY LEE N.D. PROJEC'N 3rd Angle | | | | OUTLINE THREE-PHASE INDUCTION MOTOR | | | |
| DSND BY KIM RYANG GYU DATE 2007.03.23 | | | | | | | |
|  HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS | | | | REF. NO | L3-Series | Sheet No. | of |
| | | | | DWG NO | TJ8XBP51 | Revision No. | 0 |



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

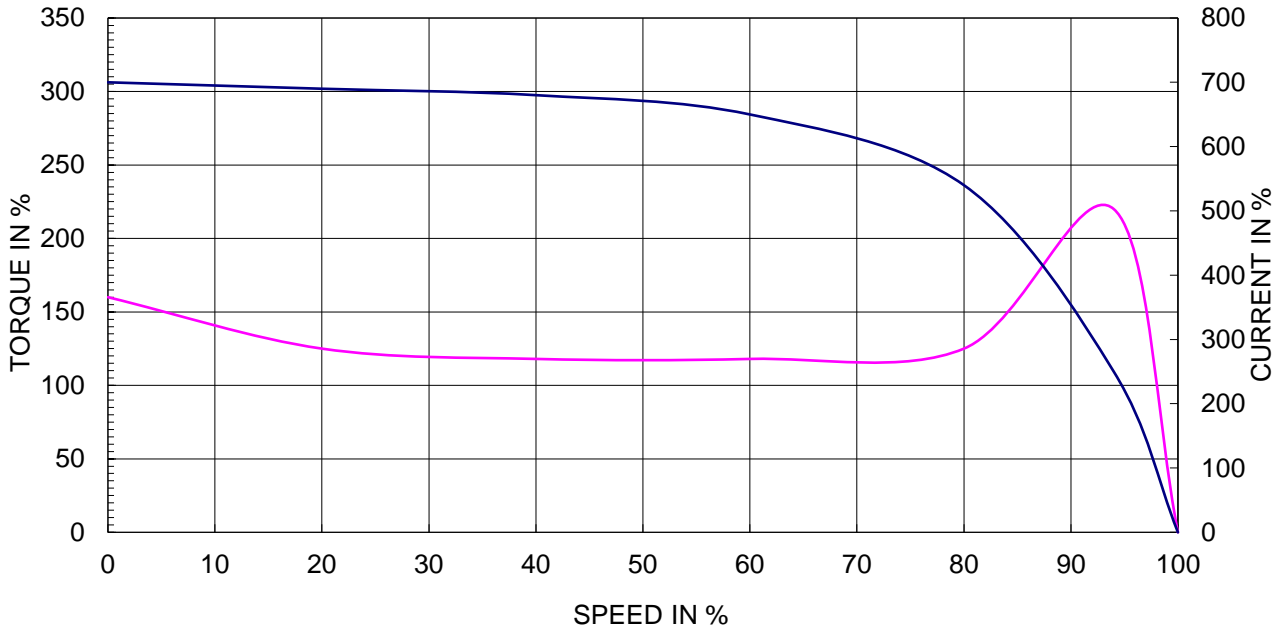
CURVE NO.

P-TNBJ8X04200

| | | |
|------------------------|-------|-------------------|
| TYPE : | | |
| RATED TORQUE : | 110.1 | Kg.m |
| GD2 OF MOTOR : | 17.3 | Kg.m ² |
| (ALLOWABLE) GD2 OF LOA | 486.5 | Kg.m ² |

| | | | |
|---------------|--------|----------|--------|
| 200 kW | | 4 P | 60 Hz |
| RATED SPEED : | | 1770 RPM | |
| VOLTAGE | 440V | 380 V | 220V |
| RATED CURRENT | 313.6A | 363.1 A | 627.2A |

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

