



|   |  | <b>DATA SHEET</b><br>of<br><b>AC INDUCTION MOTOR</b>   |  |  |  | <b>150 HP - 8 P</b><br><b>TE</b>  |   |  |           |
|--|--|--|--|--|--|---|---|--|-----------|
|  |  | DESIGN NO : <b>KS C4202-1996</b>   |  |  |  |   |   |  |           |
| Model No.or RFQ No.  |  | Item No.   |  | Rev. No.   |  | [ 0 ]   |   |  |           |
| Project Name   |  | Project No.  |  | Quantity :   |  |   |   |  |           |
| GENERAL SPECIFICATION  |  |  |  | PERFORMANCE DATA   |  |   |   |  |           |
| Frame No.  |  | 280LL  |  | Output   |  | 150 HP    110 KW  |   |  |           |
| Type   |  | TNB  |  | Poles  |  | 8 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  |   |  |           |
| Insulation Class   |  | <input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H                  |  |  |  | Start'g-D.O.L.  |   | 184.2 A    213.2 A    368.3 A<br>1,068.2 A    1,236.8 A    2,136.4 A |           |
| Temp. Rise at full load (by resistance method)   |  |  |  | Efficiency   |  |   |   |  |           |
| at 1.0 S.F   |  | 105 °C   |  | 50% Load   |  | 92.4 %  |   |  |           |
| Location   |  | <input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor   |  | 75% Load   |  | 93.3 %  |   |  |           |
| Altitude   |  | Less than 1000 meter   |  | 100% Load  |  | 93.3 %  |   |  |           |
| Humidity   |  | Less than 80 %   |  | Power Factor   |  |   |   |  |           |
| Ambient Temp.  |  | 40 °C (Max.)   |  | 50% Load   |  | 75.0 %  |   |  |           |
| Duty   |  | CONT.(S1)  |  | 75% Load   |  | 80.0 %  |   |  |           |
| Service Factor   |  | 1.00   |  | 100% Load  |  | 84.0 %  |   |  |           |
| Electric Design  |  | NEMA Design B  |  | Speed at Rated Load  |  | 880 RPM / SLIP 2.22 %   |   |  |           |
| Construction   |  | <input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> |  | Torque (D.O.L)   |  |   |   |  |           |
| Bearing  |  | Type   |  | Anti-friction  |  | Rated   |   |  |           |
|  |  | DE/ODE   |  | 6318C3 \ 6316C3  |  | Starting  |   |  |           |
|  |  | Lubricant  |  | GREASE(ALVANIA#2)  |  | Break down  |   | 121.8 Kg.m    100 %<br>133.9 Kg.m    110 %<br>243.5 Kg.m    200 %    |           |
| External Thrust  |  | Not applicable   |  | Allowable Load GD <sup>2</sup> referred to motor shaft   |  |   |   |  |           |
| Coupling Method  |  | <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt                                   |  | 897.000 Kg.m <sup>2</sup>  |  |   |   |  |           |
| Shaft Extension  |  | <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double                                   |  | Motor GD <sup>2</sup>  |  |   |   |  |           |
| Terminal Box   |  | Main   |  | <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron                       |  | Noise Level (dB(A))   |   |  |           |
|  |  | Aux.   |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |  | Vibration(Velocity)   |   |  |           |
|  |  | Location   |  | <input checked="" type="checkbox"/> Left <input type="checkbox"/> Right<br>(Viewed from Drive End) |  | Starting Duty   |   | Cold 2 times \ Hot 1 time  |           |
|  |  |  |  | Paint  |  | Munsell No. 4.0PB5.4/5.5(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   |  | <input type="checkbox"/> B5    TJ8XBP51    1160 Kg                      |   |  |           |
| Inspection and Performance Test  |  |  |  | <input type="checkbox"/> V1    TJ8XPP51    1160 Kg   |  |   |   |  |           |
| HHI Stand.   |  | Maker Test Report  |  | Main T-Box Ass'y   |  |   |   |  |           |
| ACCESSORIES(OPTION ITEM)   |  |  |  | 3M-016882  |  |   |   |  |           |
| SPARE PARTS  |  |  |  | REMARK   |  |   |   |  |           |
| Note: Others not mentioned in this specification shall be in accordance with HHI standard.<br>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)



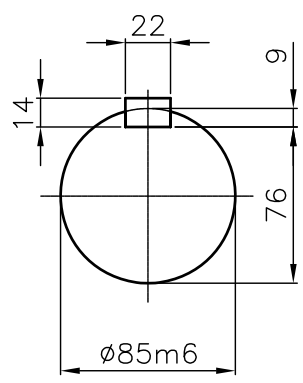
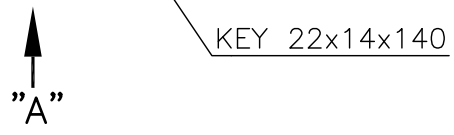
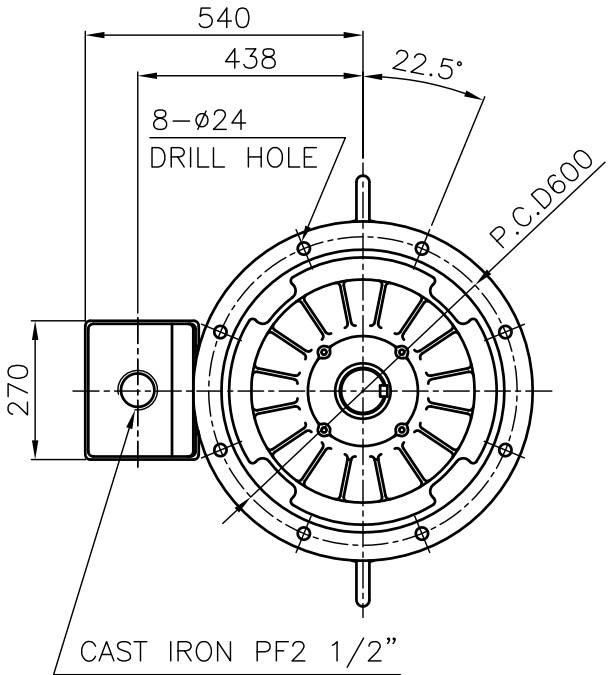
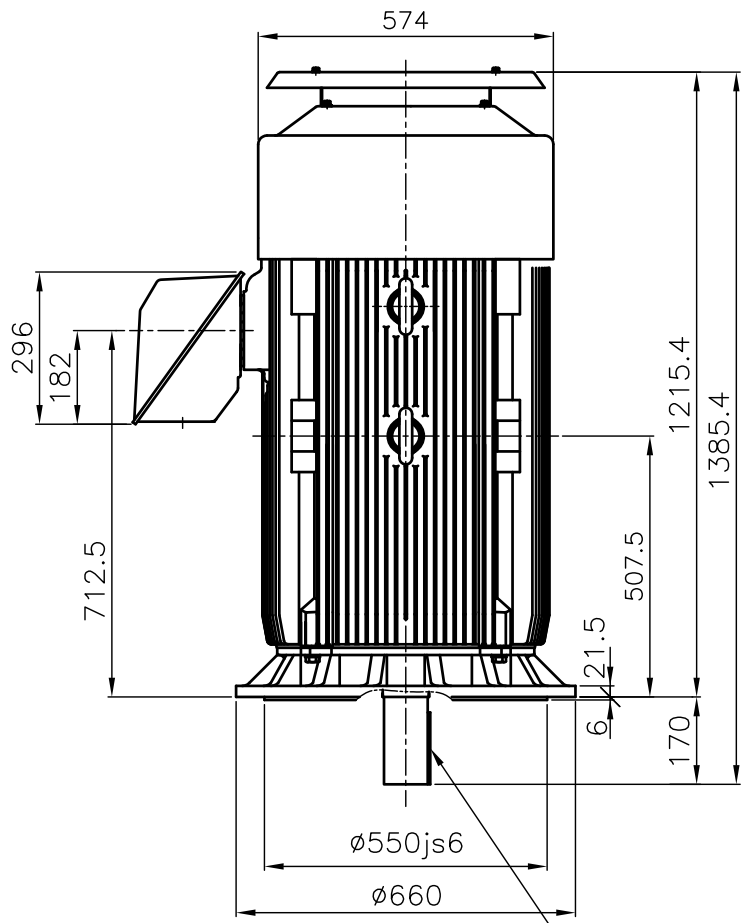
# TEFC

## THREE PHASE INDUCTION MOTOR

**TYPE**

(1) TNB , TDB

CAST IRON FRAME



**VIEW "A"**  
SCALE 4/1

**NOTE**

1.TOLERANCE :

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

TEFC STANDARD

CAD PROJ \ FILE  
MMSTDMTR/TJ8XPP51

|         |               |          |            |
|---------|---------------|----------|------------|
| APPD BY | KANG K.J.     | UNIT     | MM         |
| CHKD BY | KIM O.J.      | SCALE    | 1/15       |
| CHKD BY | LEE N.D.      | PROJEC'N | 3rd Angle  |
| DSND BY | KIM RYANG GYU | DATE     | 2007.03.23 |

|         |  |  |
|---------|--|--|
| SUBJECT | KS Fr.280LL TEFC                       |  |
| TITLE   | OUTLINE<br>THREE-PHASE INDUCTION MOTOR |  |



|         |           |                |
|---------|-----------|----------------|
| REF. NO | L3-SERIES | Sheet No. of   |
| DWG NO  | TJ8XPP51  | Revision No. 0 |



# PERFORMANCE CURVE

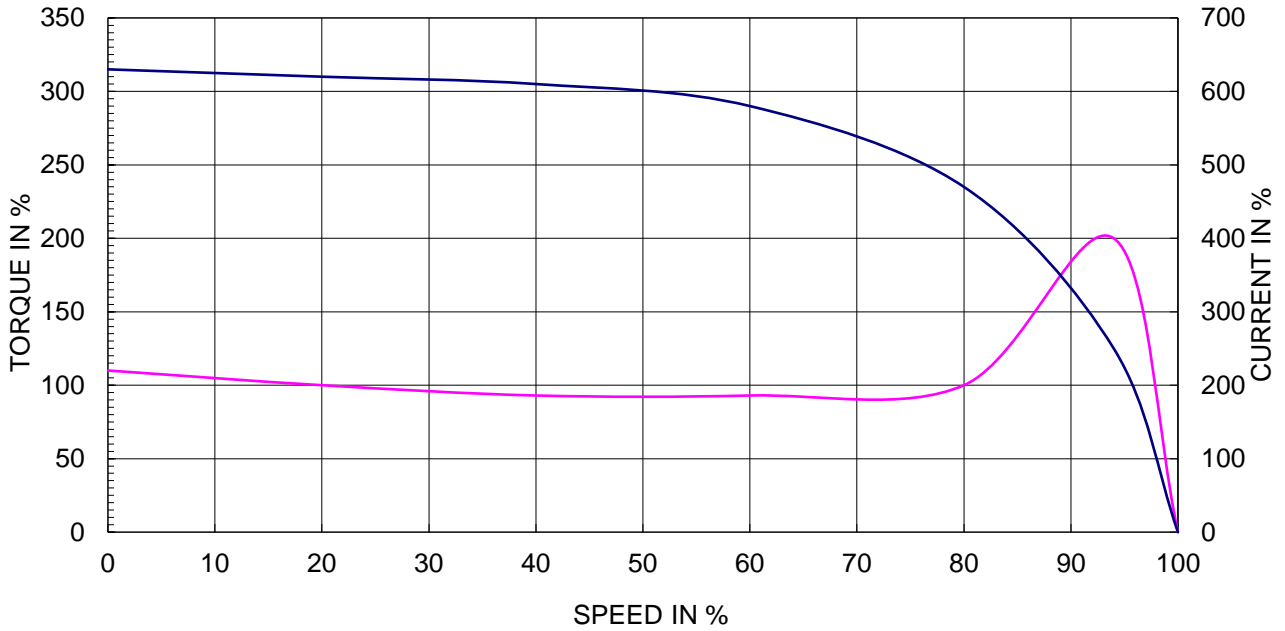
CURVE NO.

P-TNBJ8X08110

|                          |       |                   |
|--------------------------|-------|-------------------|
| TYPE :                   |       |                   |
| RATED TORQUE :           | 121.8 | Kg.m              |
| GD2 OF MOTOR :           | 20.9  | Kg.m <sup>2</sup> |
| (ALLOWABLE) GD2 OF LOA : | 897.0 | Kg.m <sup>2</sup> |

|               |        |         |        |
|---------------|--------|---------|--------|
| 110 kW        | 8 P    | 60 Hz   |        |
| RATED SPEED : |        | 880 RPM |        |
| VOLTAGE       | 440V   | 380 V   | 220V   |
| RATED CURRENT | 184.2A | 213.2 A | 368.3A |

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

