

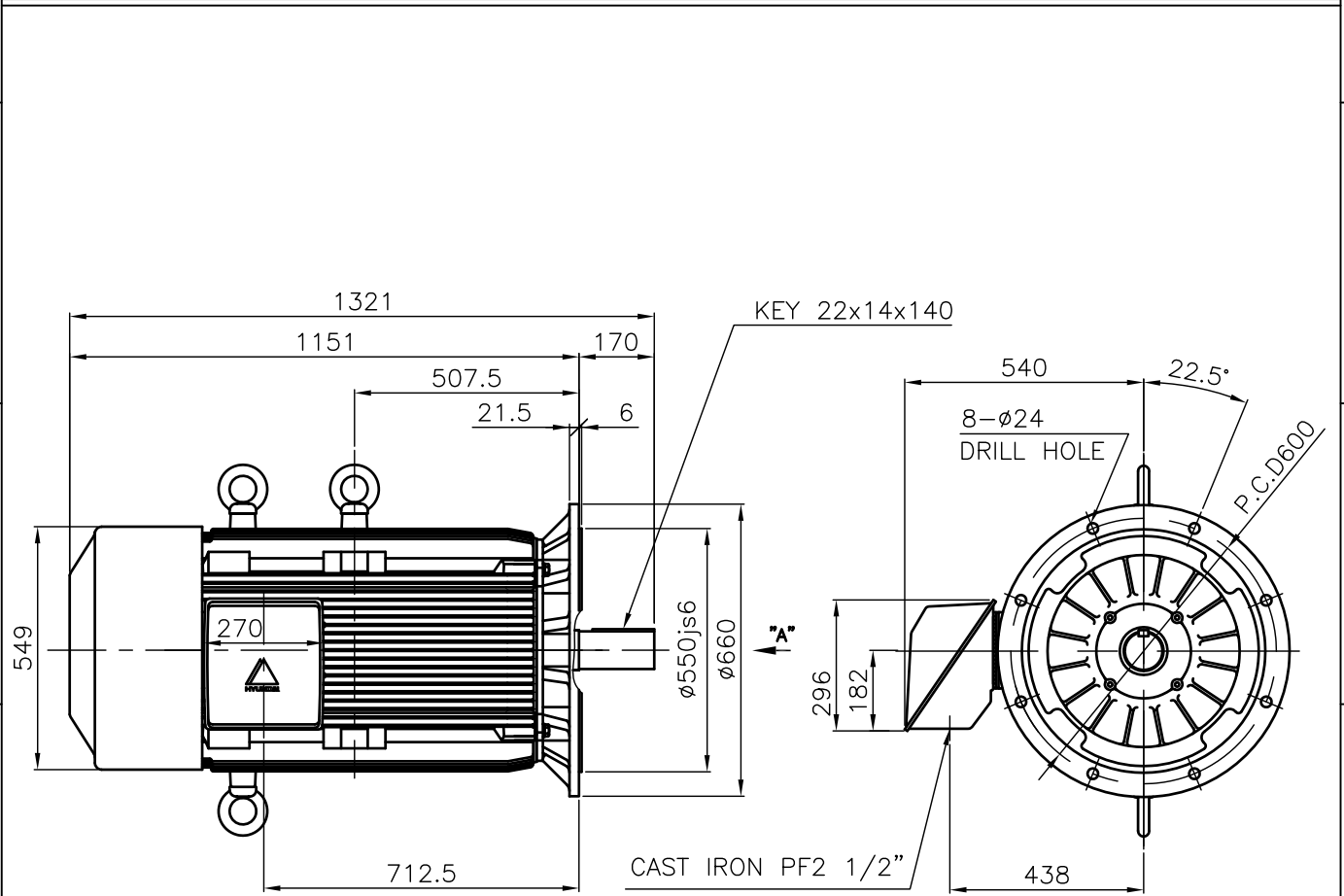
		<b>DATA SHEET</b> of <b>AC INDUCTION MOTOR</b>			<b>214 HP - 6 P</b> <b>TE</b>	
					DESIGN NO : <b>KS C4202-1996</b>	
Model No.or RFQ No.		Item No.		Rev. No.	[ 0 ]	
Project Name		Project No.		Quantity :		
GENERAL SPECIFICATION			PERFORMANCE DATA			
Frame No.	280LL		Output	214 HP 160 KW		
Type	TNB		Poles	6 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	261.1 A	302.3 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Start'g-D.O.L	1,644.9 A	1,904.6 A
Temp. Rise at full load (by resistance method)	at 1.0 S.F    105 °C		Efficiency	50% Load    92.7 % 75% Load    93.6 % 100% Load    93.5 %		
Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		Power Factor	50% Load    79.5 % 75% Load    84.0 % 100% Load    86.0 %		
Altitude	Less than 1000 meter		Speed at Rated Load	1180 RPM / SLIP 1.67 %		
Humidity	Less than 80 %		Torque (D.O.L)	Rated    132.1 Kg.m    100 % Starting    171.7 Kg.m    130 % Break down    264.1 Kg.m    200 %		
Ambient Temp.	40 °C (Max.)		Allowable Load GD <sup>2</sup> referred to motor shaft	780.000 Kg.m <sup>2</sup>		
Duty	CONT.(S1)		Motor GD <sup>2</sup>	25.340 Kg.m <sup>2</sup>		
Service Factor	1.00		Noise Level (dB(A))	82 dB(A) at 1m from motor(No-load)		
Electric Design	NEMA Design B		Vibration(Velocity)	3.8 mm/sec.(peak)		
Construction	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/>		Starting Duty	Cold 2 times \ Hot 1 time		
Bearing	Type	Anti-friction	Paint	Munsell No.	4.OPB5.4/5.5(VL-451)	
	DE/ODE	6318C3 \ 6316C3	<b>SUBMITTAL DRAWING</b> Outline Dimension Drawing \ Motor Weight(Approx.)			
	Lubricant	GREASE(ALVANIA#2)				
External Thrust	Not applicable		<input type="checkbox"/> B3    TJ8XAP51    1130 Kg <input type="checkbox"/> B5    TJ8XBP51    1160 Kg <input type="checkbox"/> V1    TJ8XPP51    1160 Kg			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Main T-Box Ass'y	3M-016882		
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		<b>SPARE PARTS</b>			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron				
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	Location	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right				
(Viewed from Drive End)			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.			
Application			Date	DSND	CHKD	CHKD
Area Classification	Not applicable		2004.01.27	KIM R.G.		KIM O.J.
Applicable Standard	KS					APPD
Inspection and Performance Test	HHI Stand.    Maker Test Report					KANG K.G.
ACCESSORIES(OPTION ITEM)						

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)

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

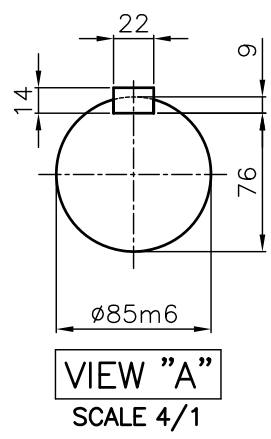



**NOTE**

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				<b>OUTLINE</b> THREE-PHASE INDUCTION MOTOR			
DSND BY KIM RYANG GYU DATE 2007.03.23							
 <b>HYUNDAI</b> 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

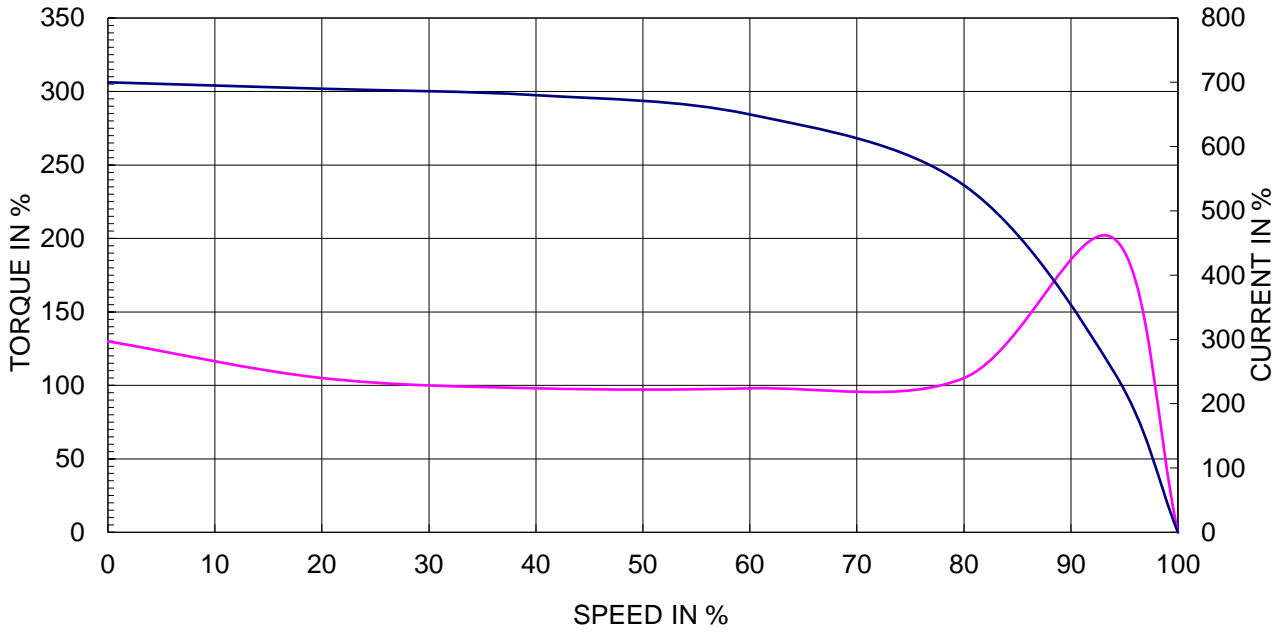
CURVE NO.

**P-TNBJ8X06160**

TYPE :		
RATED TORQUE :	132.1	Kg.m
GD2 OF MOTOR :	25.3	Kg.m <sup>2</sup>
(ALLOWABLE) GD2 OF LOA	780.0	Kg.m <sup>2</sup>

160 kW	6 P	60 Hz
RATED SPEED :		1180 RPM
VOLTAGE	440V	380 V
RATED CURRENT	261.1A	302.3 A
		522.2A

### SPEED VS TORQUE & CURRENT CURVE



### OUTPUT VS EFF., P.F & CURRENT CURVE

