
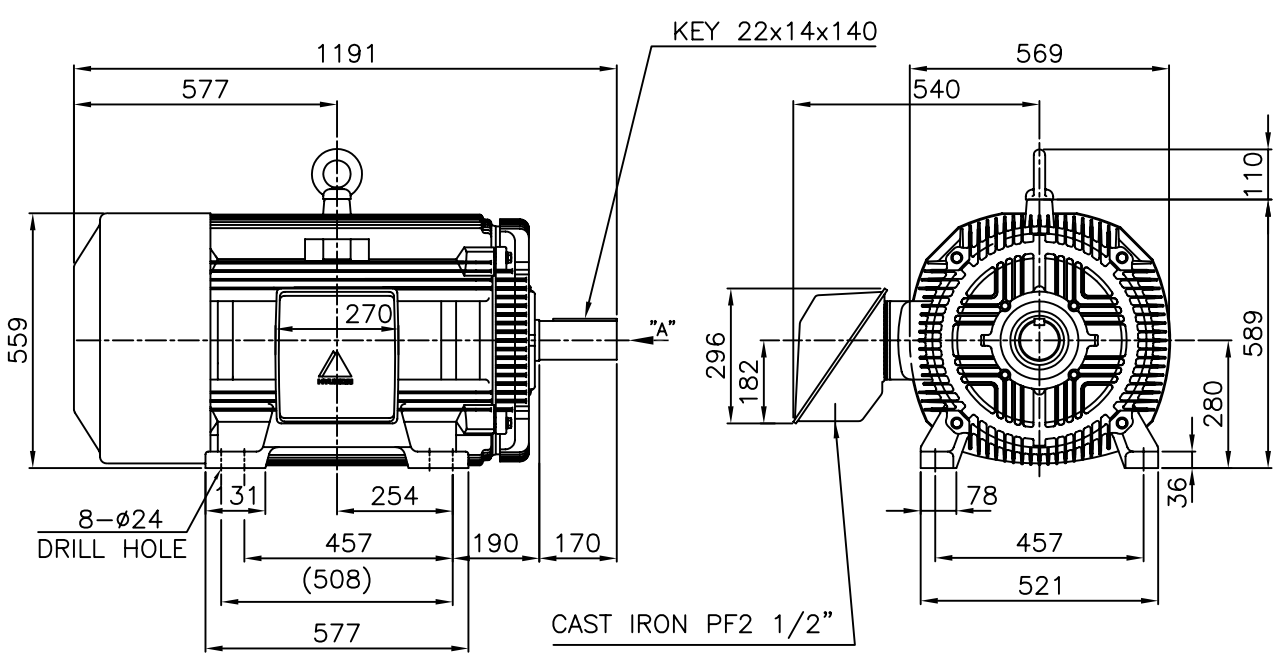
		<b>DATA SHEET</b> <b>of</b> <b>AC INDUCTION MOTOR</b>			<b>175 HP - 6 P</b> <b>TE</b>		
					DESIGN NO : <b>KS C4202-1996</b>		
Model No.or RFQ No.		Item No.		Rev. No. [ 0 ]			
Project Name		Project No.		Quantity :			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame No.	280L		Output	175 HP	132 KW		
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	216.6 A    250.8 A    433.1 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Start'g-D.O.L	1,364.3 A    1,579.8 A    2,728.7 A		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F    105 °C			50% Load    92.1 %				
Location <input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load    93.1 %				
Altitude    Less than 1000 meter			100% Load    93.0 %				
Humidity    Less than 80 %			Power Factor				
Ambient Temp.    40 °C (Max.)			50% Load    79.5 %				
Duty    CONT.(S1)			75% Load    84.0 %				
Service Factor    1.00			100% Load    86.0 %				
Electric Design    NEMA Design B			Speed at Rated Load    1180 RPM / SLIP    1.67 %				
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	109.0 Kg.m    100 %		
	DE/ODE	6318C3 \ 6316C3		Starting	141.6 Kg.m    130 %		
	Lubricant	GREASE(ALVANIA#2)		Break down	217.9 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			746.500 Kg.m <sup>2</sup>				
Shaft Extension <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double			Motor GD <sup>2</sup> 19.400 Kg.m <sup>2</sup>				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Noise Level (dB(A))    82 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	TJ8LAP51	860 Kg		
Inspection and Performance Test			<input type="checkbox"/> B5	TJ8LBP51	900 Kg		
HHI Stand.    Maker Test Report			<input type="checkbox"/> V1	TJ8LPP51	900 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.

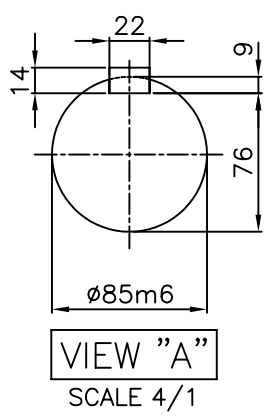
		<h1>TEFC</h1>		<b>TYPE</b> (1) TNB , TDB CAST IRON FRAME
		<b>THREE PHASE INDUCTION MOTOR</b>		



**NOTE**

1.TOLERANCE :

CENTER HEIGHT	280	$\begin{matrix} 0 \\ -1.0 \end{matrix}$
BASE HOLE	$\phi 24$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 85$	$\begin{matrix} +0.035 \\ +0.013 \end{matrix}$
KEYWAY WIDTH	22	$\begin{matrix} -0.022 \\ -0.074 \end{matrix}$
KEYWAY DEPTH	9	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	22	$\begin{matrix} 0 \\ -0.052 \end{matrix}$
KEY HEIGHT	14	$\begin{matrix} 0 \\ -0.110 \end{matrix}$



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		
APPD BY	KANG K.J.	UNIT	MM	SUBJECT	KS Fr.280L TEFC	
CHKD BY	KIM O.J.	SCALE	1/17			CAD PROJ \ FILE MMSTDMTR/TJ8LAP51
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle	TITLE OUTLINE THREE-PHASE INDUCTION MOTOR		
DSND BY	KIM RYANG GYU	DATE	2007.03.23			
				REF. NO	L2-Series	Sheet No. of
				DWG NO	TJ8LAP51	Revision No. 0



# HYUNDAI

HEAVY INDUSTRIES CO., LTD

## PERFORMANCE CURVE

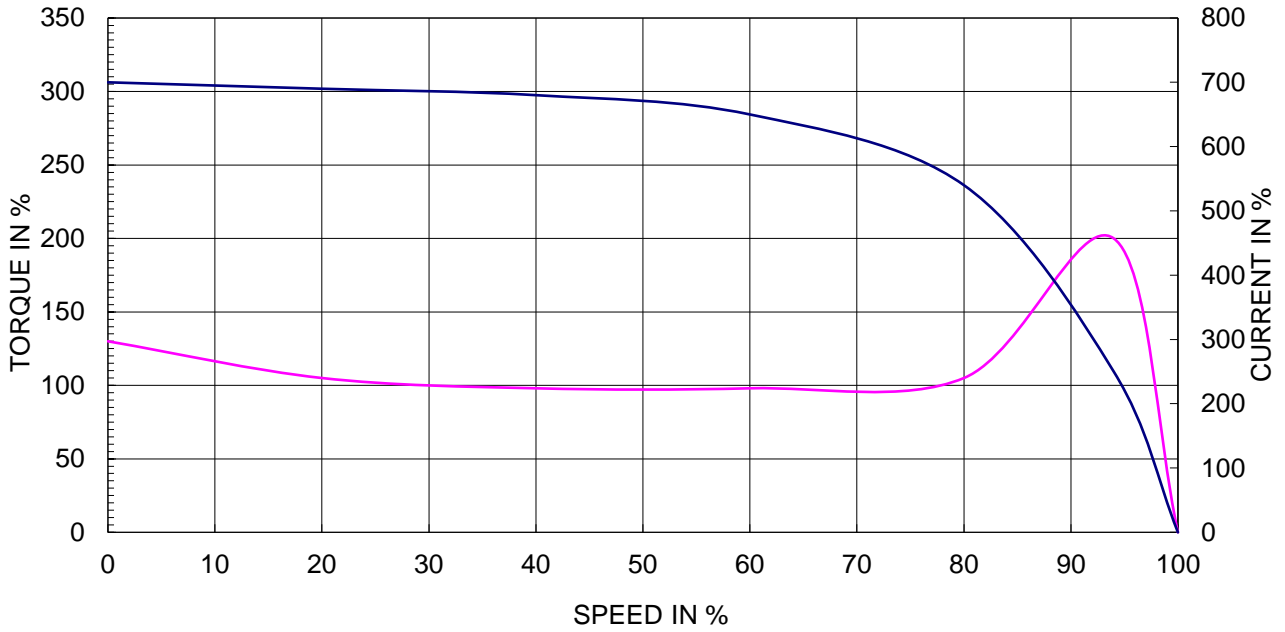
CURVE NO.

P-TNBJ8L06132

TYPE :		
RATED TORQUE :	109.0	Kg.m
GD2 OF MOTOR :	19.4	Kg.m <sup>2</sup>
(ALLOWABLE) GD2 OF LOA	746.5	Kg.m <sup>2</sup>

132 kW	6 P	60 Hz
RATED SPEED :		1180 RPM
VOLTAGE	440V	380 V
RATED CURRENT	216.6A	250.8 A
		433.1A

### SPEED VS TORQUE & CURRENT CURVE



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

