
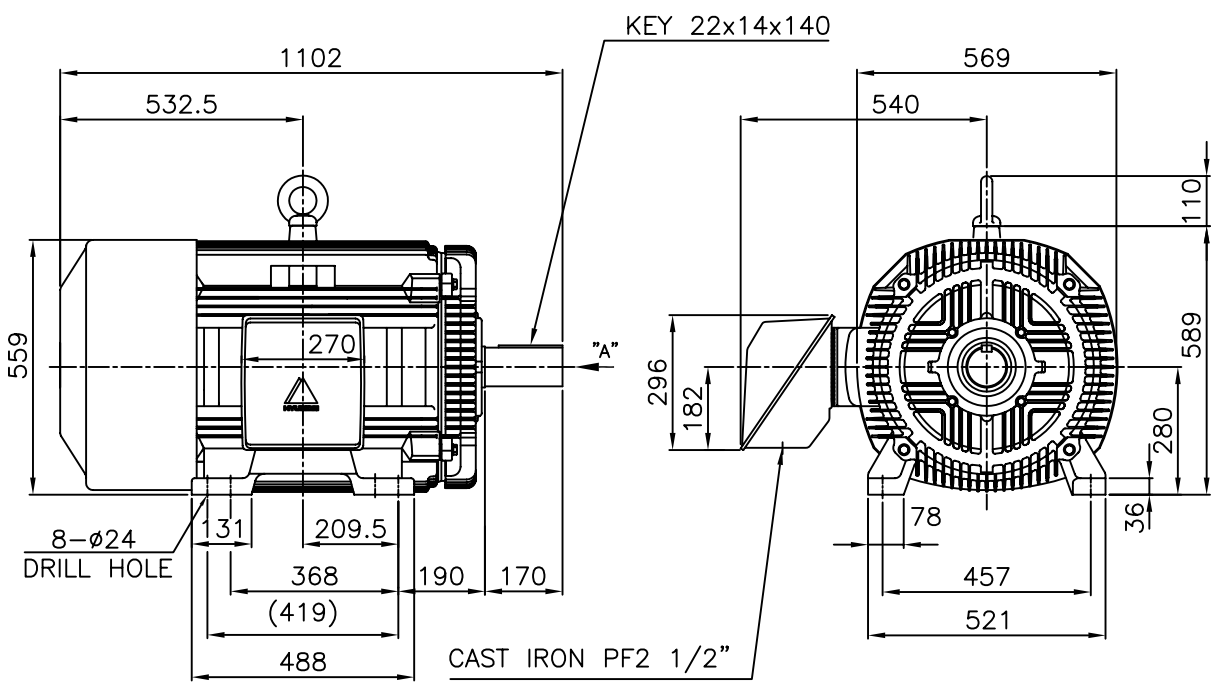
		DATA SHEET of AC INDUCTION MOTOR			120 HP - 6 P TE	
					DESIGN NO : KS C4202-1996	
Model No.or RFQ No.		Item No.		Rev. No.	[0]	
Project Name		Project No.		Quantity :		
GENERAL SPECIFICATION			PERFORMANCE DATA			
Frame No.	280S		Output	120 HP 90 KW		
Type	TNB		Poles	6 P		
Enclosure(Protection)	Totally 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	149.4 A	173.0 A 298.8 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Start'g-D.O.L	971.0 A	1,124.4 A 1,942.1 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 78.0 %			
Duty CONT.(S1)			75% Load 83.0 %			
Service Factor 1.00			100% Load 85.0 %			
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	74.3 Kg.m	100 %
	DE/ODE	6318C3 \ 6316C3		Starting	96.6 Kg.m	130 %
	Lubricant	GREASE(ALVANIA#2)		Break down	148.6 Kg.m	200 %
External Thrust Not applicable			Allowable Load GD ² referred to motor shaft			
Coupling Method <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt			453.000 Kg.m ²			
Shaft Extension <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double			Motor GD ² 13.020 Kg.m ²			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Noise Level (dB(A)) 77 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	TJ8SAP51	700 Kg	
Inspection and Performance Test			<input type="checkbox"/> B5	TJ80BP51	740 Kg	
HHI Stand. Maker Test Report			<input type="checkbox"/> V1	TJ80PP51	740 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.

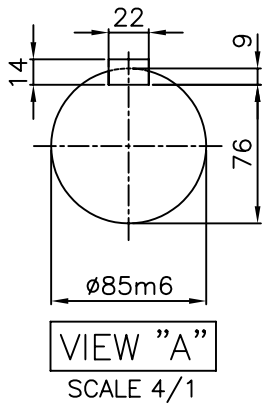
	<h1>TEFC</h1> <h2>THREE PHASE INDUCTION MOTOR</h2>	<h3>TYPE</h3>	(1) TNB , TDB CAST IRON FRAME
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NOTE

1. TOLERANCE :

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



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.280S TEFC	
CHKD BY	KIM O.J.	SCALE	1/17			CAD PROJ \ FILE
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	TJ8SAP51	Revision No. 0



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

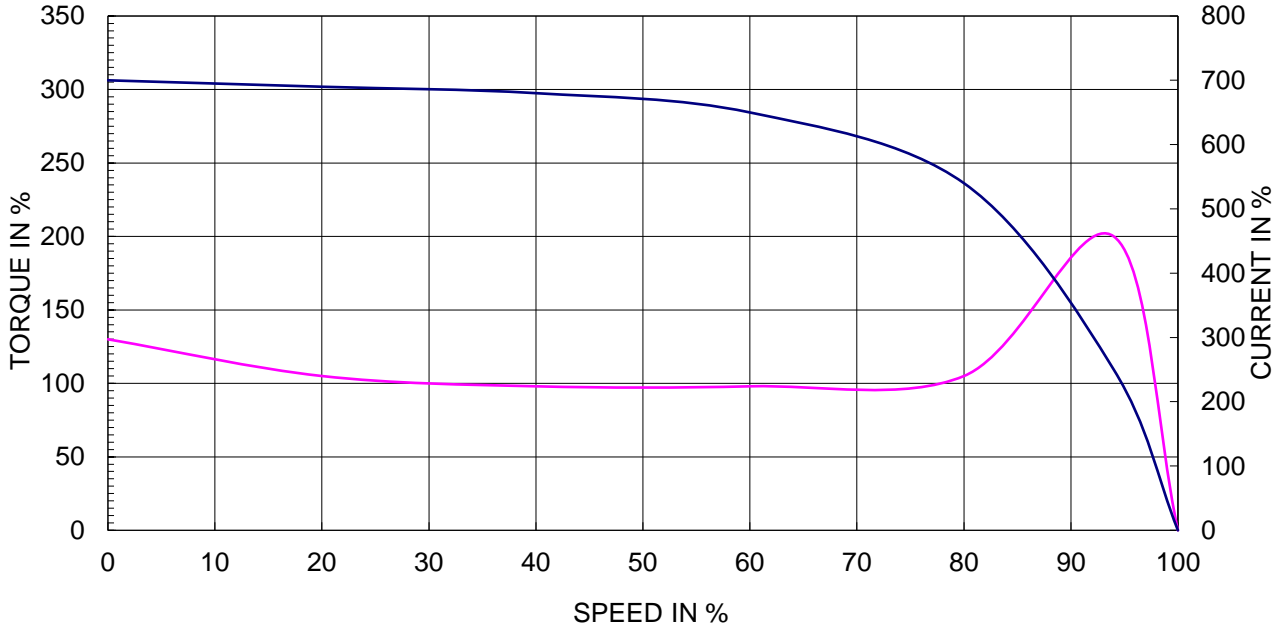
CURVE NO.

P-TNBJ8S06090

TYPE :		
RATED TORQUE :	74.3	Kg.m
GD2 OF MOTOR :	13.0	Kg.m ²
(ALLOWABLE) GD2 OF LOA	453.0	Kg.m ²

90 kW	6 P	60 Hz	
RATED SPEED : 1180 RPM			
VOLTAGE	440V	380 V	220V
RATED CURRENT	149.4A	173.0 A	298.8A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

