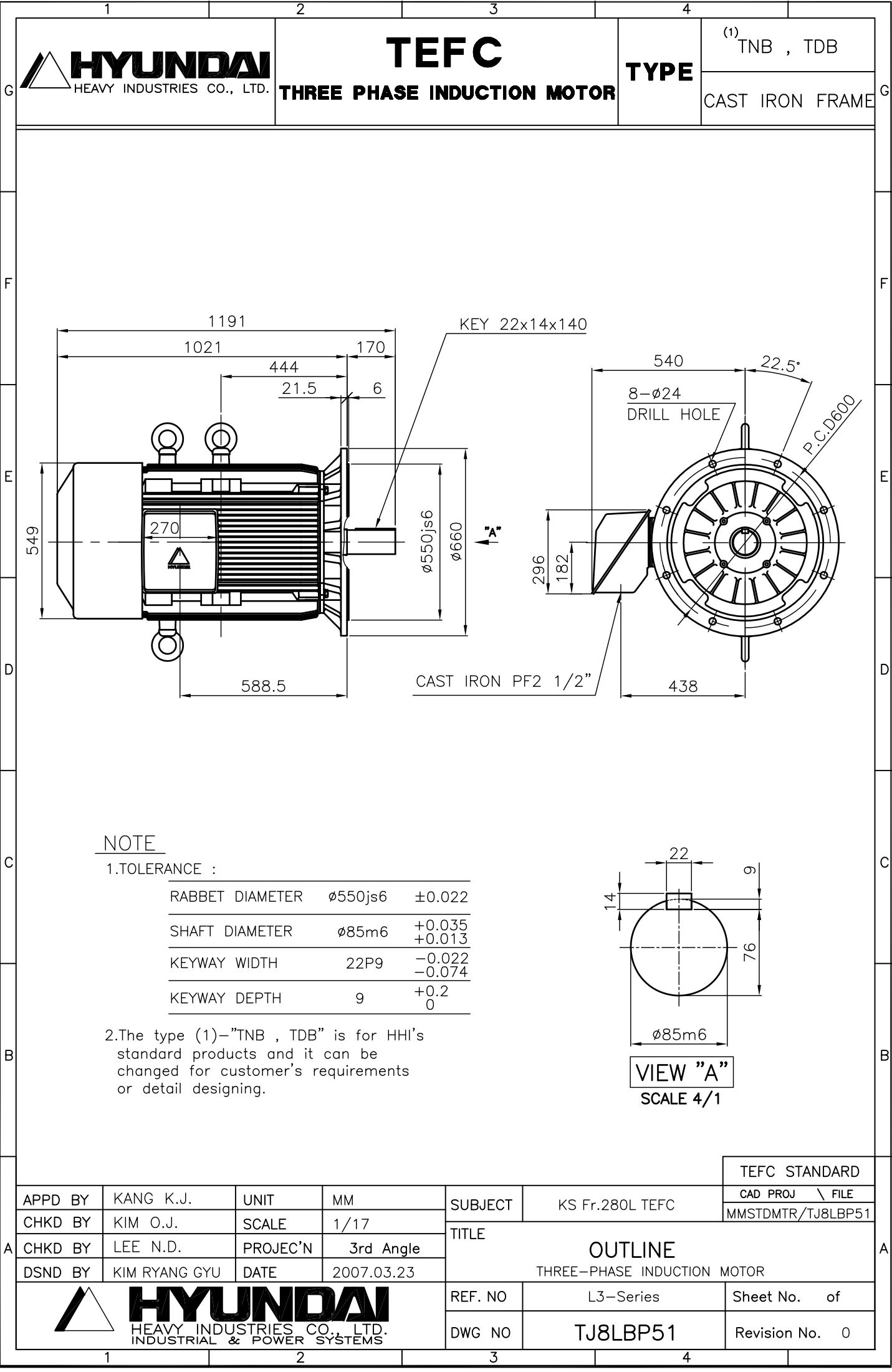


		DATA SHEET of AC INDUCTION MOTOR				120 HP - 8 P TE		
						DESIGN NO : KS C4202-1996		
Model No.or RFQ No.		Item No.		Rev. No.		[0]		
Project Name		Project No.		Quantity :				
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame No.		280L		Output		120 HP 90 KW		
Type		TNB		Poles		8 P		
Enclosure(Protection)		Totally Enclosed (IP IP54)		Rotor Type		Squirrel Cage		
Cooling Method		IC411(FC)		Starting Method(*)		☒ D.O.L. ☐ Y-Δ		
Frequency		60 Hz		Rated Voltage		440 V 380 V 220 V		
Phase		3 Φ		Current	Rated Load	151.2 A 175.0 A 302.3 A		
Insulation Class		☒ F ☐ B ☐ H			Start'g-D.O.L	876.8 A 1,015.2 A 1,753.6 A		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		105 °C		50% Load		92.1 %		
Location		☐ Indoor ☐ Outdoor		75% Load		93.0 %		
Altitude		Less than 1000 meter		100% Load		93.0 %		
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		☐ B3 ☐ B5 ☐ V1 ☐		Torque (D.O.L)				
Bearing	Type	Anti-friction		Rated		99.6 Kg.m 100 %		
	DE/ODE	6318C3 \ 6316C3		Starting		109.6 Kg.m 110 %		
	Lubricant	GREASE(ALVANIA#2)		Break down		199.2 Kg.m 200 %		
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft				
Coupling Method		☒ Direct ☐ V-Belt				819.900 Kg.m ²		
Shaft Extension		☒ Single ☐ Double		Motor GD ²		17.670 Kg.m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Noise Level (dB(A))		80 dB(A) at 1m from motor(No-load)		
	Aux.	☐ Yes ☒ No		Vibration(Velocity)		3.8 mm/sec.(peak)		
	Location	☒ Left ☐ Right		Starting Duty		Cold 2 times \ Hot 1 time		
(Viewed from Drive End)				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		☐ B3		TJ8LAP51 860 Kg		
Inspection and Performance Test				☐ B5		TJ8LBP51 900 Kg		
HHI Stand.		Maker Test Report		☐ 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.



				TEFC STANDARD	
APPD BY	KANG K.J.	UNIT	MM	SUBJECT	KS Fr.280L TEFC
CHKD BY	KIM O.J.	SCALE	1/17	TITLE OUTLINE THREE-PHASE INDUCTION MOTOR	
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle		
DSND BY	KIM RYANG GYU	DATE	2007.03.23		
				REF. NO	L3-Series
				DWG NO	TJ8LBP51
				Sheet No. of	
				Revision No. 0	



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

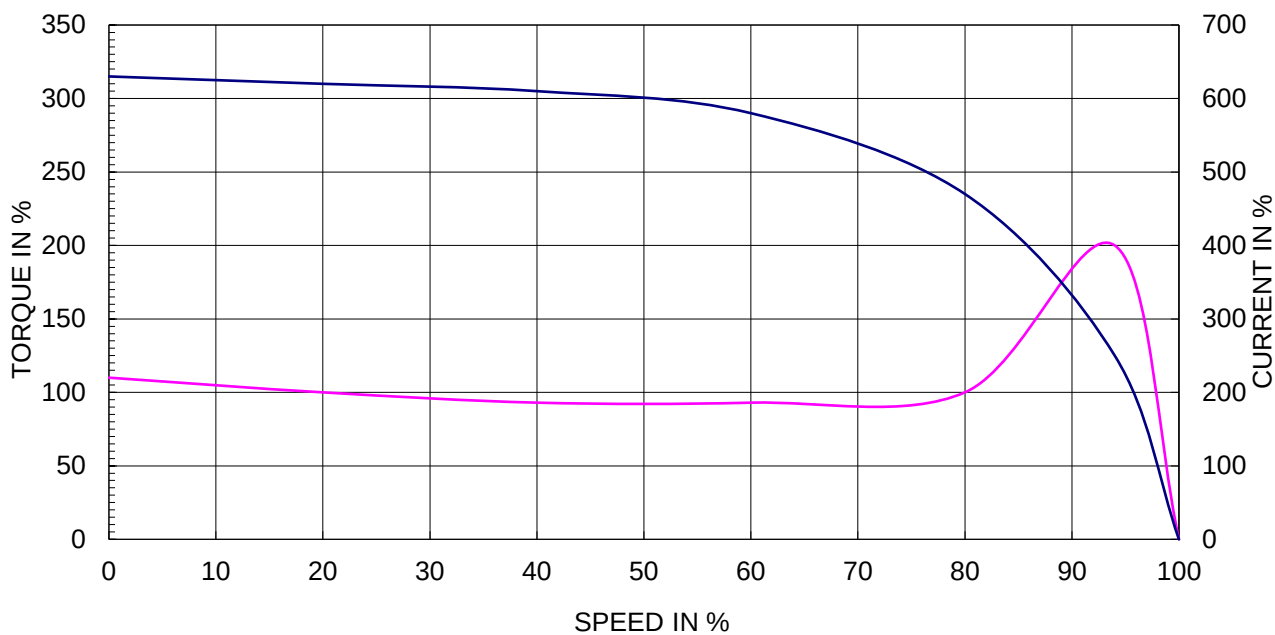
CURVE NO.

P-TNBJ8L08090

TYPE :		
RATED TORQUE :	99.6	Kg.m
GD2 OF MOTOR :	17.7	Kg.m ²
(ALLOWABLE) GD2 OF LOA	819.9	Kg.m ²

90 kW	8 P	60 Hz
RATED SPEED :	880 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	151.2A	175.0 A
		302.3A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

