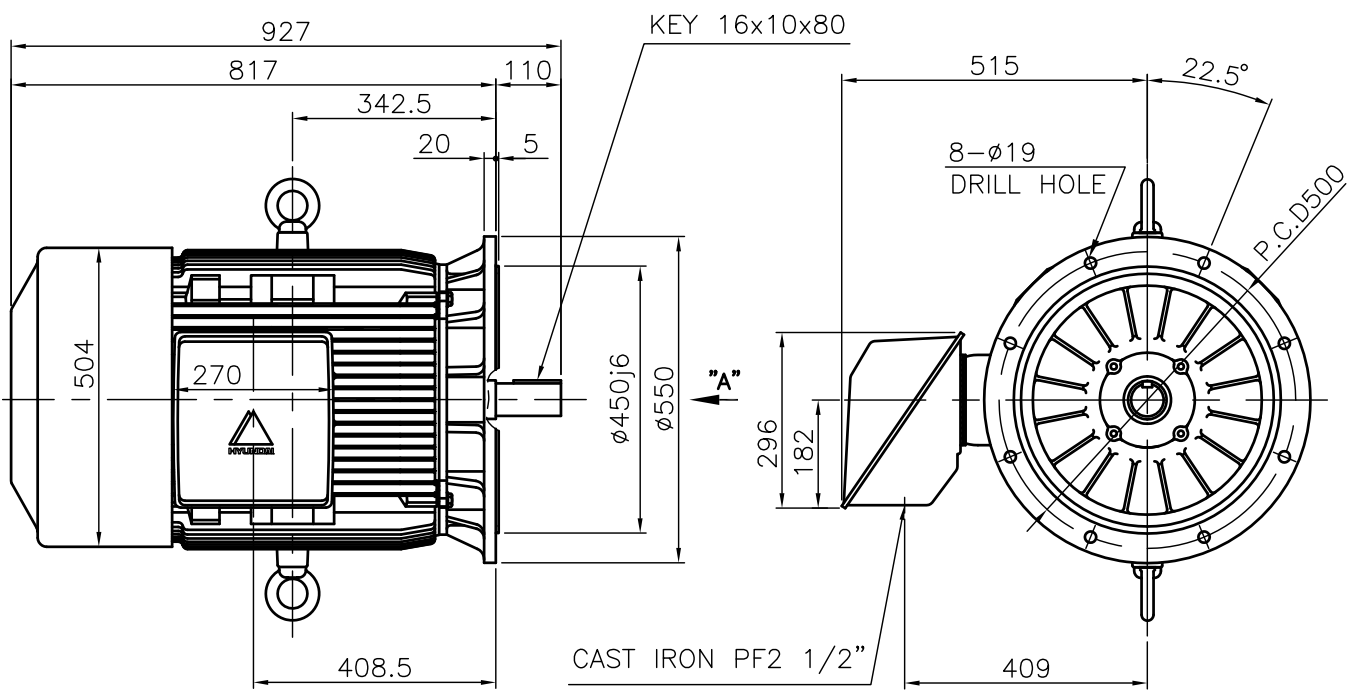


		DATA SHEET of AC INDUCTION MOTOR				100 HP - 2 P TE		
						DESIGN NO : KS C4202-1996		
Model No.or RFQ No.		Item No.		Rev. No.		[0]		
Project Name		Project No.		Quantity :				
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame No.		250S		Output		100 HP 75 KW		
Type		TNB		Poles		2 P		
Enclosure(Protection)		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	118.6 A 137.3 A 237.2 A		
Insulation Class		☒ F ☐ B ☐ H			Start'g-D.O.L	747.1 A 865.0 A 1,494.2 A		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		105 °C		50% Load		90.9 %		
Location		☐ Indoor ☐ Outdoor		75% Load		91.5 %		
Altitude		Less than 1000 meter		100% Load		91.7 %		
Humidity		Less than 80 %		Power Factor				
Ambient Temp.		40 °C (Max.)		50% Load		87.5 %		
Duty		CONT.(S1)		75% Load		90.0 %		
Service Factor		1.00		100% Load		90.5 %		
Electric Design		NEMA Design B		Speed at Rated Load		3570 RPM / SLIP 0.83 %		
Construction		☐ B3 ☐ B5 ☐ V1 ☐		Torque (D.O.L)				
Bearing	Type	Anti-friction		Rated		20.5 Kg.m 100 %		
	DE/ODE	6313C3 \ 6313C3		Starting		30.7 Kg.m 150 %		
	Lubricant	GREASE(ALVANIA#2)		Break down		47.1 Kg.m 230 %		
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft				
Coupling Method		☒ Direct ☐ V-Belt				31.500 Kg.m ²		
Shaft Extension		☒ Single ☐ Double		Motor GD ²		2.100 Kg.m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Noise Level (dB(A))		93 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		TJ5SAC50 450 Kg		
Inspection and Performance Test				☐ B5		TJ50BC50 470 Kg		
HHI Stand.		Maker Test Report		☐ V1		TJ50PC50 470 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.

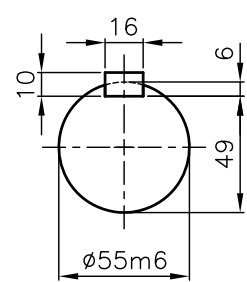


NOTE

1.TOLERANCE :

RABBET DIAMETER	$\phi 450j6$	± 0.020
SHAFT DIAMETER	$\phi 55m6$	$+0.030$ $+0.011$
KEYWAY WIDTH	16P9	-0.018 -0.061
KEYWAY DEPTH	6	$+0.2$ 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.



VIEW "A"
SCALE 4/1

				TEFC STANDARD		
APPD BY	KANG K.J.	UNIT	MM	SUBJECT	KS Fr.250 TEFC	CAD PROJ \ FILE
CHKD BY	KIM O.J.	SCALE	1/13			MMSTDMTR/TJ50BC5
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	L3-Series	Sheet No. of
				DWG NO	TJ50BC50	Revision No. 0
1		2		3		4



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

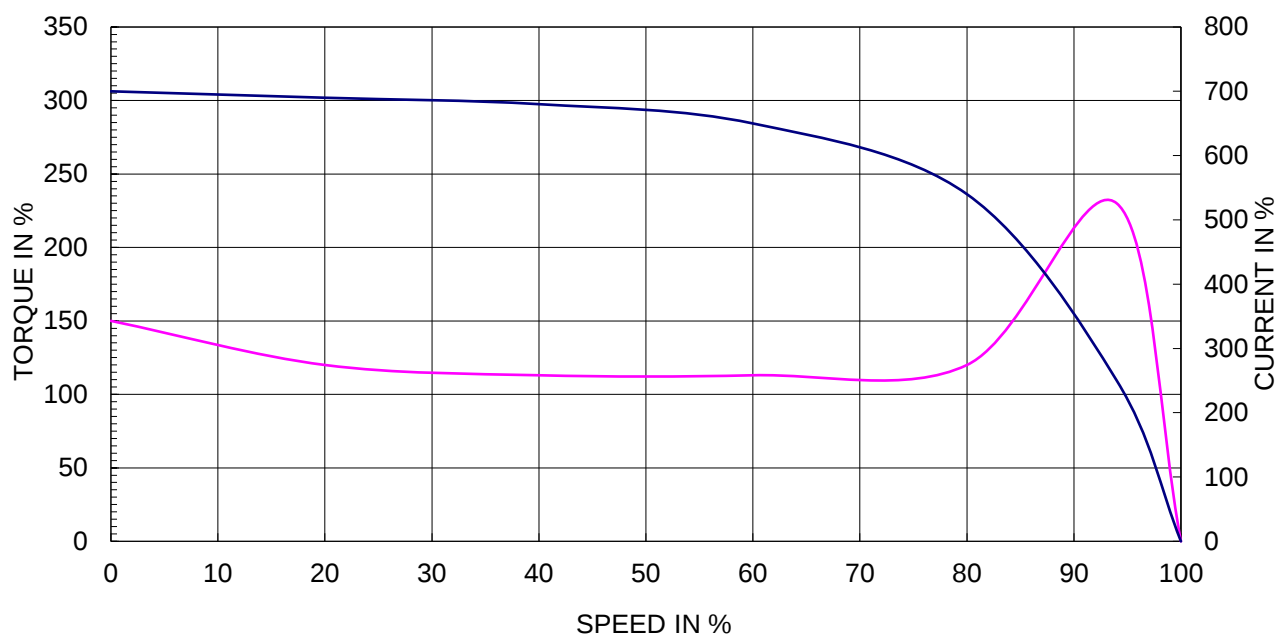
CURVE NO.

P-TNBJ5S02075

TYPE :		
RATED TORQUE :	20.5	Kg.m
GD2 OF MOTOR :	2.1	Kg.m ²
(ALLOWABLE) GD2 OF LOA	31.5	Kg.m ²

75 kW	2 P	60 Hz
RATED SPEED :	3570 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	118.6A	137.3 A
		237.2A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

