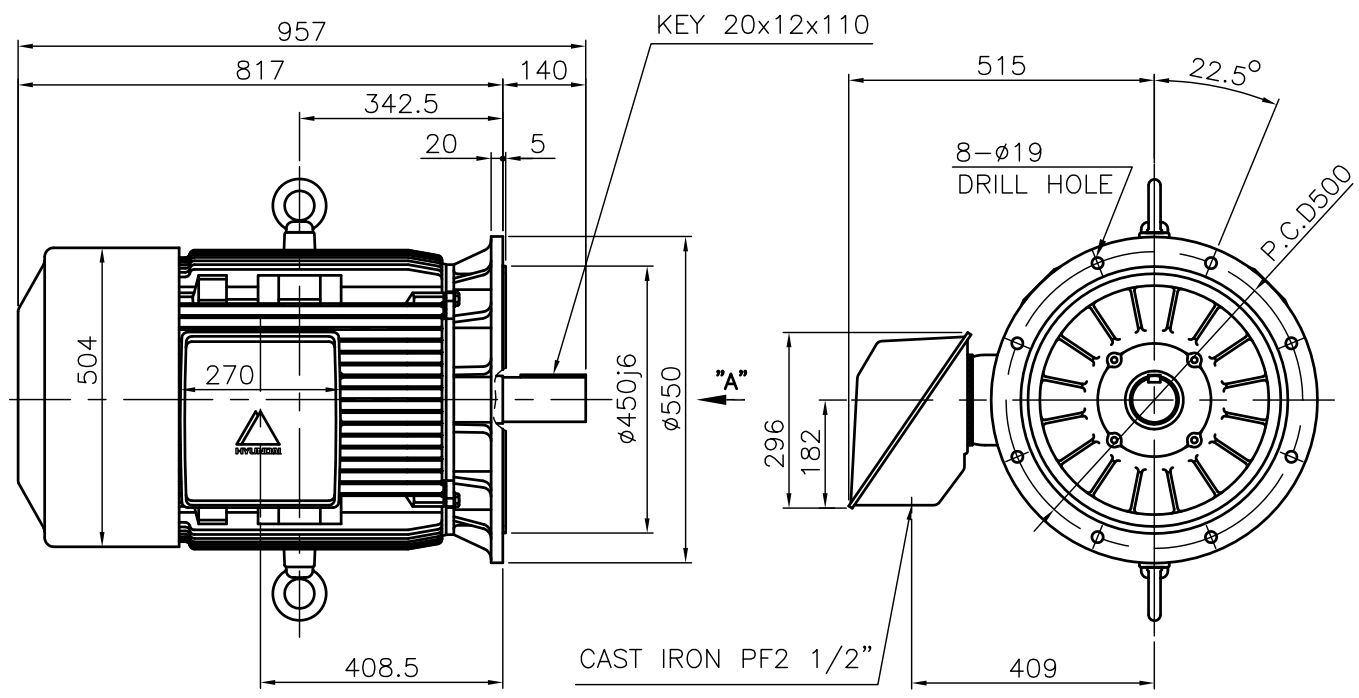


		DATA SHEET of AC INDUCTION MOTOR				100 HP - 6 P TE	
						DESIGN NO : KS C4202-1996	
Model No.or RFQ No.		Item No.		Rev. No.		[0]	
Project Name		Project No.		Quantity :			
GENERAL SPECIFICATION				PERFORMANCE DATA			
Frame No.		250M		Output		100 HP 75 KW	
Type		TNB		Poles		6 P	
Enclosure(Protection)		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 129.1 A 149.5 A 258.2 A Start'g-D.O.L 813.3 A 941.7 A 1,626.6 A	
Insulation Class		☒ F ☐ B ☐ H		Efficiency			
Temp. Rise at full load (by resistance method)		at 1.0 S.F 105 °C		50% Load 91.5 % 75% Load 92.5 % 100% Load 92.4 %			
Location		☐ Indoor ☐ Outdoor		Power Factor			
Altitude		Less than 1000 meter		50% Load 76.5 % 75% Load 81.0 % 100% Load 82.5 %			
Humidity		Less than 80 %		Speed at Rated Load			
Ambient Temp.		40 °C (Max.)		1180 RPM / SLIP 1.67 %			
Duty		CONT.(S1)		Torque (D.O.L)			
Service Factor		1.00		Rated 61.9 Kg.m 100 % Starting 105.2 Kg.m 170 % Break down 123.8 Kg.m 200 %			
Electric Design		NEMA Design B		Allowable Load GD ² referred to motor shaft			
Construction		☐ B3 ☐ B5 ☐ V1 ☐		441.000 Kg.m ²			
Bearing		Type Anti-friction DE/ODE 6316C3 \ 6313C3 Lubricant GREASE(ALVANIA#2)		Motor GD ² 8.230 Kg.m ²			
External Thrust		Not applicable		Noise Level (dB(A))			
Coupling Method		☒ Direct ☐ V-Belt		77 dB(A) at 1m from motor(No-load)			
Shaft Extension		☒ Single ☐ Double		Vibration(Velocity)			
Terminal		☐ Steel ☒ Cast Iron		3.8 mm/sec.(peak)			
Box		☒ Yes ☐ No ☒ Left ☐ Right (Viewed from Drive End)		Starting Duty			
Application				Cold 2 times \ Hot 1 time			
Area Classification		Not applicable		Paint Munsell No. 4.0PB5.4/5.5(VL-451)			
Applicable Standard		KS		SUBMITTAL DRAWING			
Inspection and Performance Test		HHI Stand. Maker Test Report		Outline Dimension Drawing \ Motor Weight(Approx.)			
ACCESSORIES(OPTION ITEM)				☐ B3 TJ5MAP51 525 Kg ☐ B5 TJ50BP51 550 Kg ☐ V1 TJ50PP51 550 Kg			
SPARE PARTS				Main T-Box Ass'y 3M-016882			
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	
		2004.01.27		KIM R.G.		CHKD KIM O.J. APPD KANG K.G.	

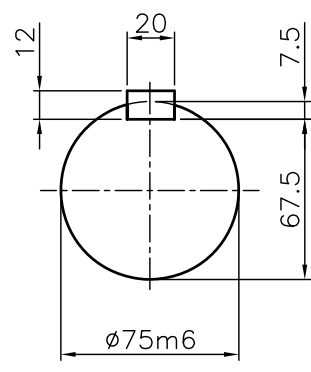


NOTE

1.TOLERANCE :

RABBET DIAMETER	ø450j6	±0.020
SHAFT DIAMETER	ø75m6	+0.030 +0.011
KEYWAY WIDTH	20P9	-0.022 -0.074
KEYWAY DEPTH	7.5	+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
CAD PROJ \ FILE
MMSTDMTR/TJ50BP5

APPD BY	KANG K.J.	UNIT	MM
CHKD BY	KIM O.J.	SCALE	1/13
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle
DSND BY	KIM RYANG GYU	DATE	2007.03.23

SUBJECT	KS Fr.250 TEFC	TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR
REF. NO	L3-Series	Sheet No.	of
DWG NO	TJ50BP51	Revision No.	0



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

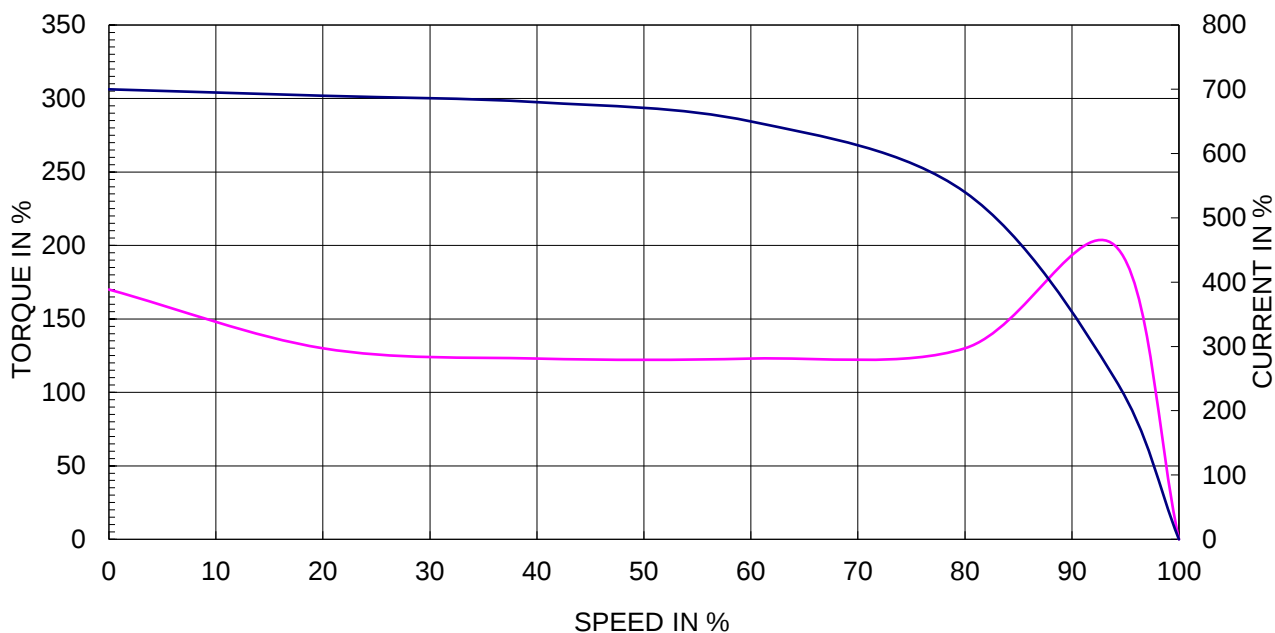
CURVE NO.

P-TNBJ5M06075

TYPE :		
RATED TORQUE :	61.9	Kg.m
GD2 OF MOTOR :	8.2	Kg.m ²
(ALLOWABLE) GD2 OF LOA	441.0	Kg.m ²

75 kW	6 P	60 Hz
RATED SPEED :	1180 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	129.1A	149.5 A
		258.2A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

