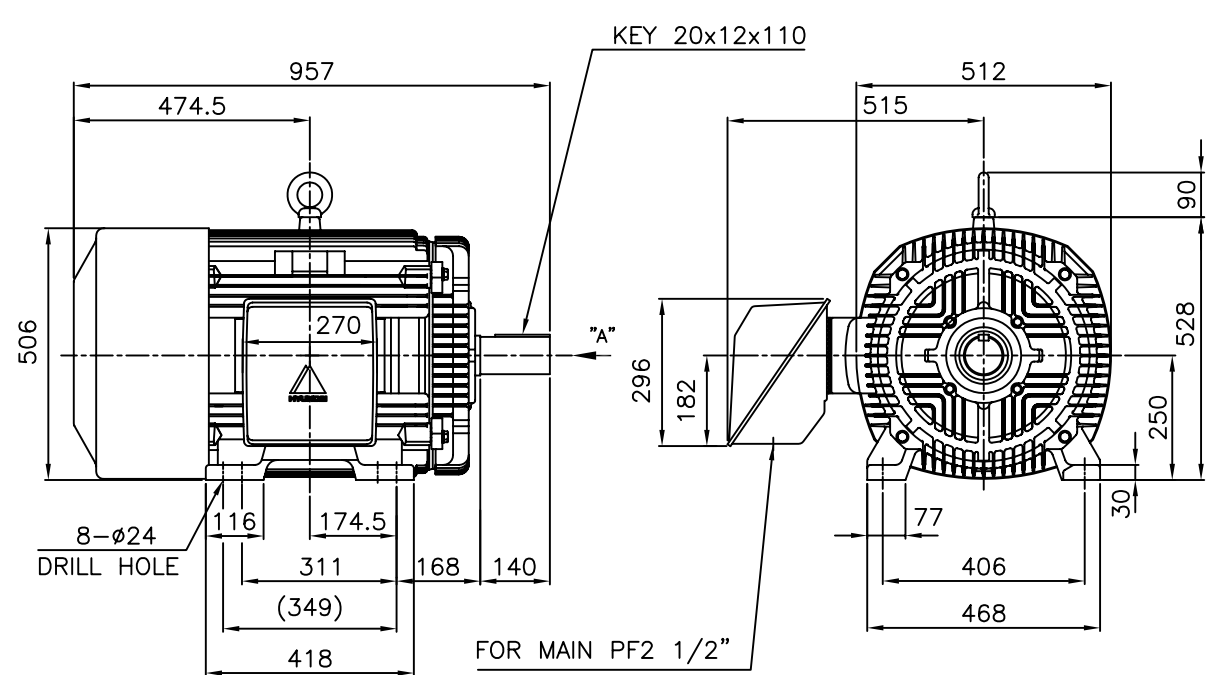


		DATA SHEET of AC INDUCTION MOTOR				100 HP - 4 P TE		
						DESIGN NO : KS C4202-1996		
Model No.or RFQ No.		Item No.		Rev. No.		[0]		
Project Name		Project No.		Quantity :				
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame No.		250S		Output		100 HP 75 KW		
Type		TNB		Poles		4 P		
Enclosure(Protection)		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	122.3 A 141.6 A 244.5 A		
Insulation Class		☒ F ☐ B ☐ H			Start'g-D.O.L	794.6 A 920.1 A 1,589.3 A		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		105 °C		50% Load		91.2 %		
Location		☐ Indoor ☐ Outdoor		75% Load		92.1 %		
Altitude		Less than 1000 meter		100% Load		92.0 %		
Humidity		Less than 80 %		Power Factor				
Ambient Temp.		40 °C (Max.)		50% Load		80.0 %		
Duty		CONT.(S1)		75% Load		86.2 %		
Service Factor		1.00		100% Load		87.5 %		
Electric Design		NEMA Design B		Speed at Rated Load		1765 RPM / SLIP 1.94 %		
Construction		☐ B3 ☐ B5 ☐ V1 ☐		Torque (D.O.L)				
Bearing	Type	Anti-friction		Rated		41.4 Kg.m 100 %		
	DE/ODE	6316C3 \ 6313C3		Starting		66.2 Kg.m 160 %		
	Lubricant	GREASE(ALVANIA#2)		Break down		86.9 Kg.m 210 %		
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft				
Coupling Method		☒ Direct ☐ V-Belt				196.000 Kg.m ²		
Shaft Extension		☒ Single ☐ Double		Motor GD ²		4.190 Kg.m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Noise Level (dB(A))		82 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		TJ5SAP51 470 Kg		
Inspection and Performance Test				☐ B5		TJ50BP51 490 Kg		
HHI Stand.		Maker Test Report		☐ V1		TJ50PP51 490 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.

1	2	3	4
 HYUNDAI HEAVY INDUSTRIES CO., LTD.		TEFC THREE PHASE INDUCTION MOTOR	TYPE ⁽¹⁾ TNB , TDB CAST IRON FRAME

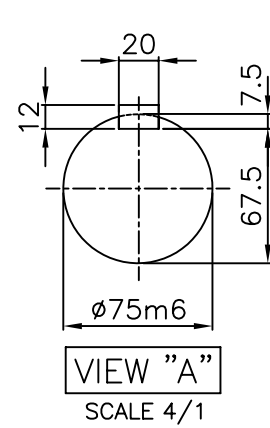


NOTE

1.TOLERANCE :

CENTER HEIGHT	250 ⁰ _{-0.5}
BASE HILE	ø24 ^{+0.43} ₀
SHAFT DIAMETER	ø75 ^{+0.030} _{+0.011}
KEYWAY WIDTH	20 ^{-0.022} _{-0.074}
KEYWAY DEPTH	7.5 ^{+0.2} ₀
KEY WIDTH	20 ⁰ _{-0.052}
KEY HEIGHT	12 ⁰ _{-0.110}

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	Y.S.KIM	UNIT	MM	SUBJECT	KS Fr.250S TEFC
CHKD BY		SCALE	1/15	TITLE	CAD PROJ \ FILE
CHKD BY		PROJEC'N	3rd Angle		MMSTDMTR/TJ5SAP51
DSND BY	LEE NOH DUK	DATE	2008.01.18		
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				OUTLINE THREE-PHASE INDUCTION MOTOR	
				REF. NO	L2-Series
				DWG NO	TJ5SAP51
				Sheet No.	of
				Revision No.	0



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

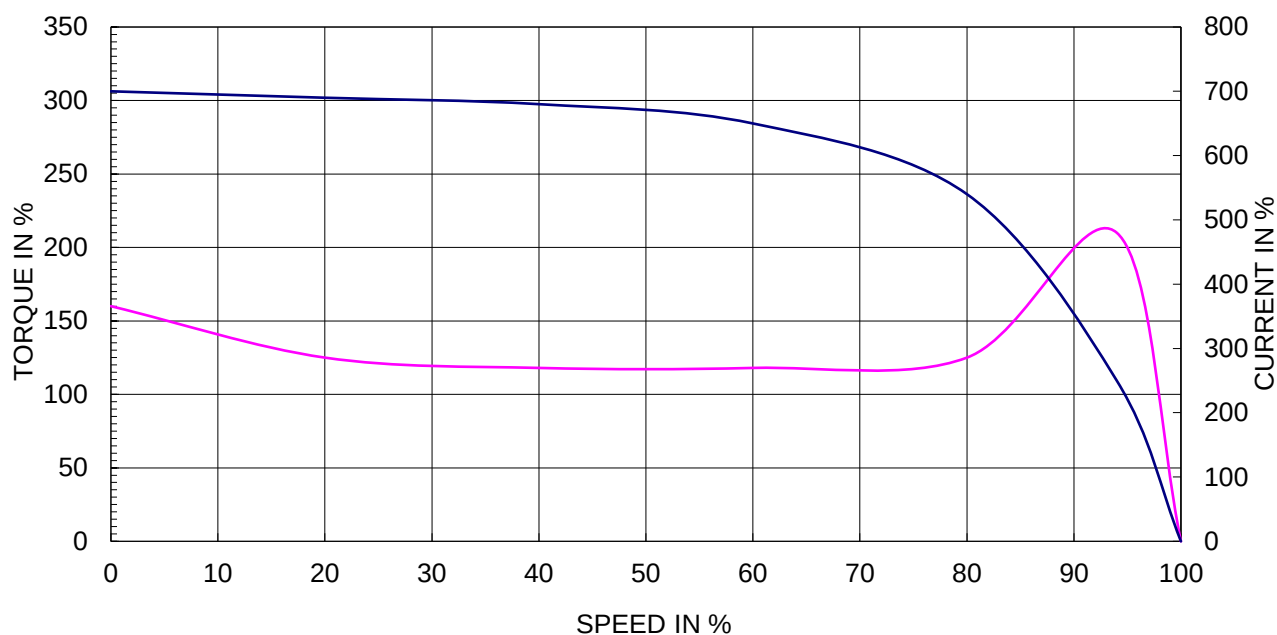
CURVE NO.

P-TNBJ5S04075

TYPE :		
RATED TORQUE :	41.4	Kg.m
GD2 OF MOTOR :	4.2	Kg.m ²
(ALLOWABLE) GD2 OF LOA	196.0	Kg.m ²

75 kW	4 P	60 Hz
RATED SPEED :	1765 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	122.3A	141.6 A
		244.5A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

