

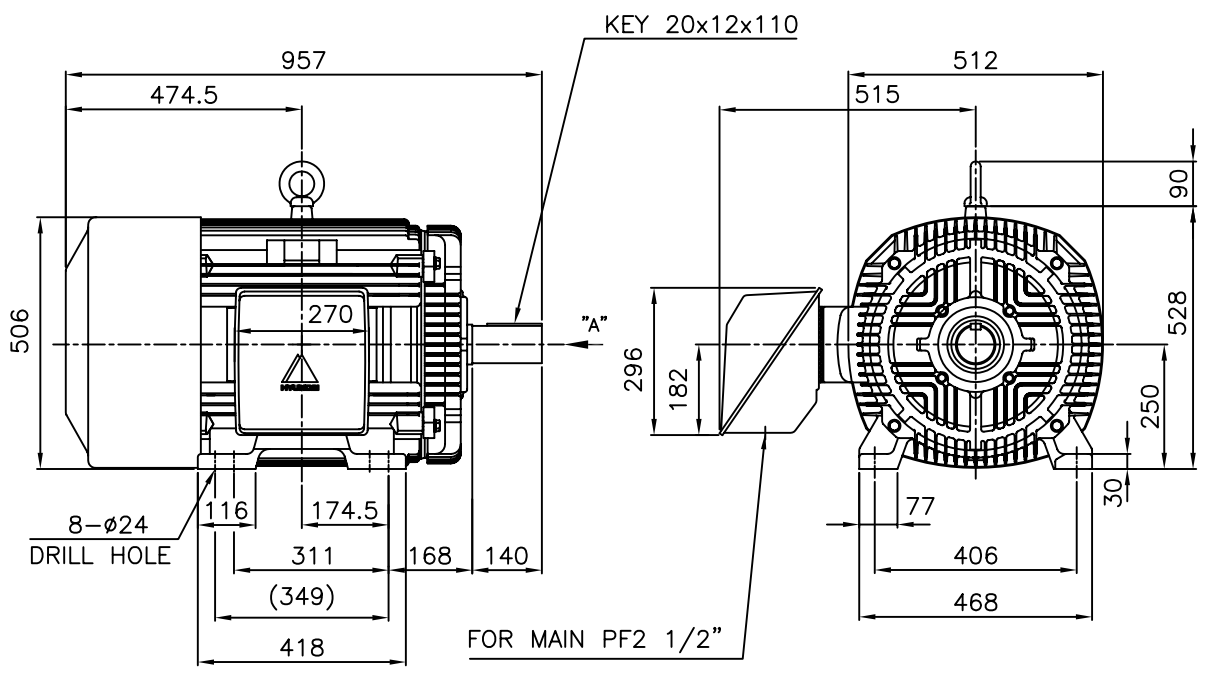
		DATA SHEET of AC INDUCTION MOTOR				75 HP - 6 P		TE					
						DESIGN NO : KS C4202-1996							
Model No.or RFQ No.		Item No.		Rev. No.		[0]							
Project Name		Project No.		Quantity :									
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame No.		250S		Output		75 HP 55 KW							
Type		TNB		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		94.8 A 109.8 A 189.6 A					
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H				Start'g-D.O.L		597.4 A 691.7 A 1,194.7 A					
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		105 °C		50% Load		91.0 %							
Location		<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load		91.8 %							
Altitude		Less than 1000 meter		100% Load		91.7 %							
Humidity		Less than 80 %		Power Factor									
Ambient Temp.		40 °C (Max.)		50% Load		75.5 %							
Duty		CONT.(S1)		75% Load		82.5 %							
Service Factor		1.00		100% Load		83.0 %							
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		45.4 Kg.m 100 %					
		DE/ODE		6316C3 \ 6313C3		Starting		72.6 Kg.m 160 %					
		Lubricant		GREASE(ALVANIA#2)		Break down		90.8 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				391.500 Kg.m ²							
Shaft Extension		<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Motor GD ²		6.150 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 TJ5SAP51 470 Kg									
Inspection and Performance Test		HHI Stand. Maker Test Report		<input type="checkbox"/> B5 TJ50BP51 490 Kg									
				<input type="checkbox"/> V1 TJ50PP51 490 Kg									
ACCESSORIES(OPTION ITEM)				Main T-Box Ass'y 3M-01682									
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.	

본 도면은 현대중공업(주) 재산이므로
허가없이 복사할 수 없음 (취급유의)

THIS DRAWING IS PROPRIETARY TO HHI. NO PART OF THIS DRAWING
MAYBE REPRODUCED WITHOUT THE PERMISSION OF HHI.

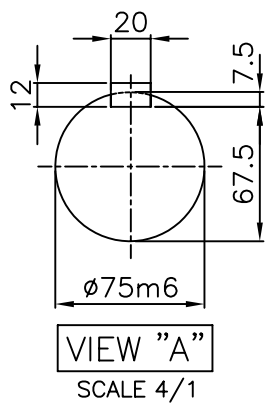
	<h1 style="margin:0;">TEFC</h1> <h2 style="margin:0;">THREE PHASE INDUCTION MOTOR</h2>	<h3 style="margin:0;">TYPE</h3>	(1) TNB , TDB <hr/> CAST IRON FRAME
---	--	---------------------------------	--



NOTE

1.TOLERANCE :


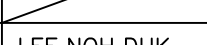
CENTER HEIGHT	250 ⁰ _{-0.5}
BASE HILE	ø24 ^{+0.43} ₀
SHAFT DIAMETER	ø75 ^{+0.030} _{+0.011}
KEYWAY WIDTH	20 ^{-0.022} _{-0.074}
KEYWAY DEPTH	7.5 ^{+0.2} ₀
KEY WIDTH	20 ⁰ _{-0.052}
KEY HEIGHT	12 ⁰ _{-0.110}



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

CAD PROJ \ FILE
MMSTDMTR/TJ5SAP51

APPD BY	Y.S.KIM	UNIT	MM
CHKD BY		SCALE	1/15
CHKD BY		PROJEC'N	3rd Angle
DSND BY	LEE NOH DUK	DATE	2008.01.18

SUBJECT	KS Fr.250S TEFC
TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR

REF. NO	L2-Series	Sheet No. of
DWG NO	TJ5SAP51	Revision No. 0



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

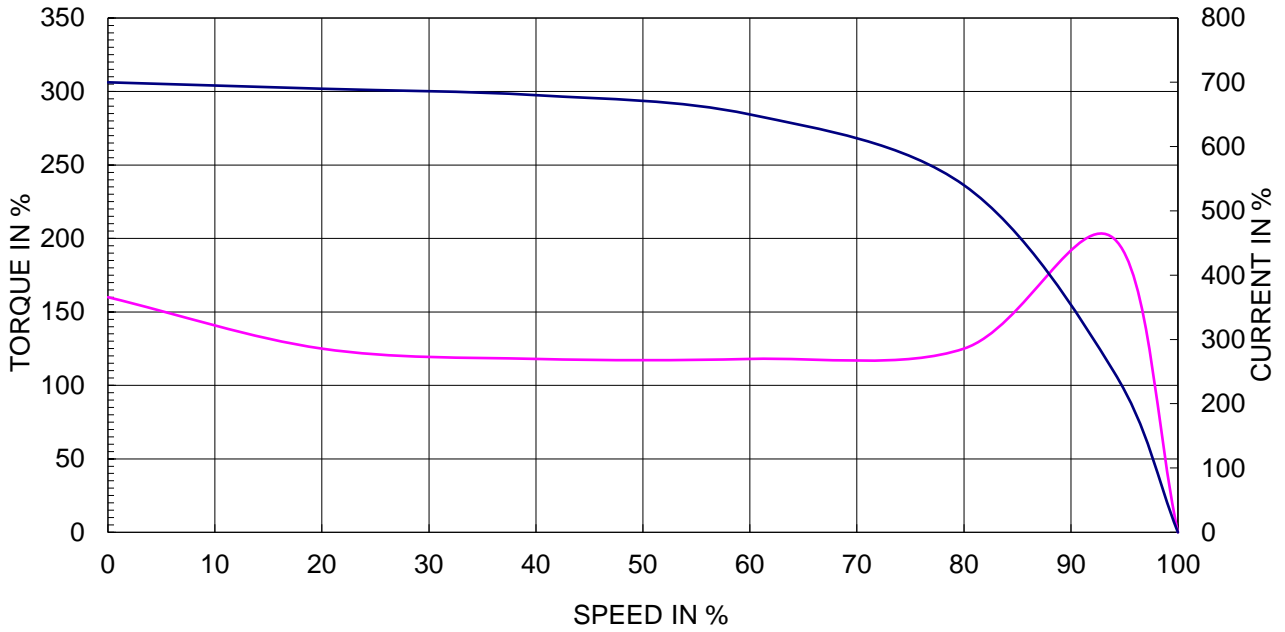
CURVE NO.

P-TNBJ5S06055

TYPE :		
RATED TORQUE :	45.4	Kg.m
GD2 OF MOTOR :	6.2	Kg.m ²
(ALLOWABLE) GD2 OF LOA	391.5	Kg.m ²

55 kW	6 P	60 Hz	
RATED SPEED :		1180 RPM	
VOLTAGE	440V	380 V	220V
RATED CURRENT	94.8A	109.8 A	189.6A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

