
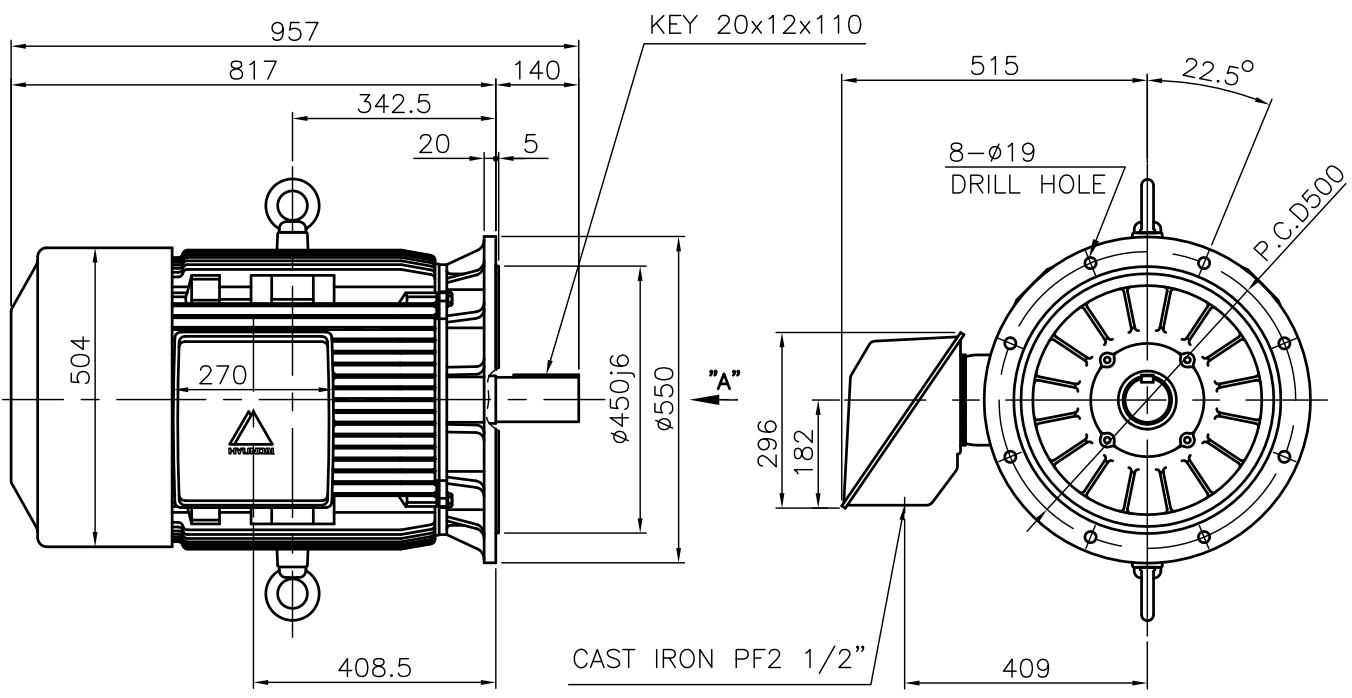
		DATA SHEET of AC INDUCTION MOTOR				60 HP - 8 P TE							
						DESIGN NO : KS C4202-1996							
Model No.or RFQ No.		Item No.		Rev. No. [0]									
Project Name		Project No.		Quantity :									
GENERAL SPECIFICATION			PERFORMANCE DATA										
Frame No.		250M		Output		60 HP 45 KW							
Type		TNB		Poles		8 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	79.8 A 92.4 A 159.6 A						
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H				Start'g-D.O.L	462.8 A 535.9 A 925.6 A						
Temp. Rise at full load (by resistance method)			Efficiency										
at 1.0 S.F			105 °C		50% Load		91.5 %						
Location		<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load		92.5 %							
Altitude		Less than 1000 meter		100% Load		92.5 %							
Humidity		Less than 80 %		Power Factor									
Ambient Temp.		40 °C (Max.)		50% Load		71.5 %							
Duty		CONT.(S1)		75% Load		76.5 %							
Service Factor		1.00		100% Load		80.0 %							
Electric Design		NEMA Design B		Speed at Rated Load		880 RPM / SLIP 2.22 %							
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		49.8 Kg.m 100 %					
		DE/ODE		6316C3 \ 6313C3		Starting		62.3 Kg.m 125 %					
		Lubricant		GREASE(ALVANIA#2)		Break down		99.6 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				450.200 Kg.m ²							
Shaft Extension		<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Motor GD ²		8.260 Kg.m ²							
Terminal Box		Main		<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Noise Level (dB(A))		75 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. 4.0PB5.4/5.5(VL-451)							
Application				SUBMITTAL DRAWING									
Area Classification		Not applicable		Outline Dimension Drawing \ Motor Weight(Approx.)									
Applicable Standard		KS		<input type="checkbox"/> B3		TJ5MAP51		525 Kg					
Inspection and Performance Test		HHI Stand. Maker Test Report		<input type="checkbox"/> B5		TJ50BP51		550 Kg					
				<input type="checkbox"/> V1		TJ50PP51		550 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.	

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

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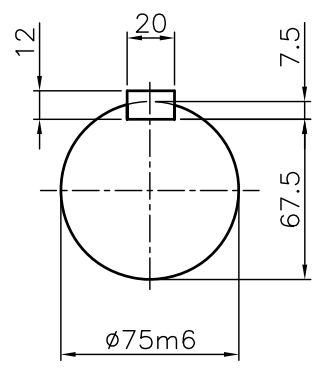


NOTE

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

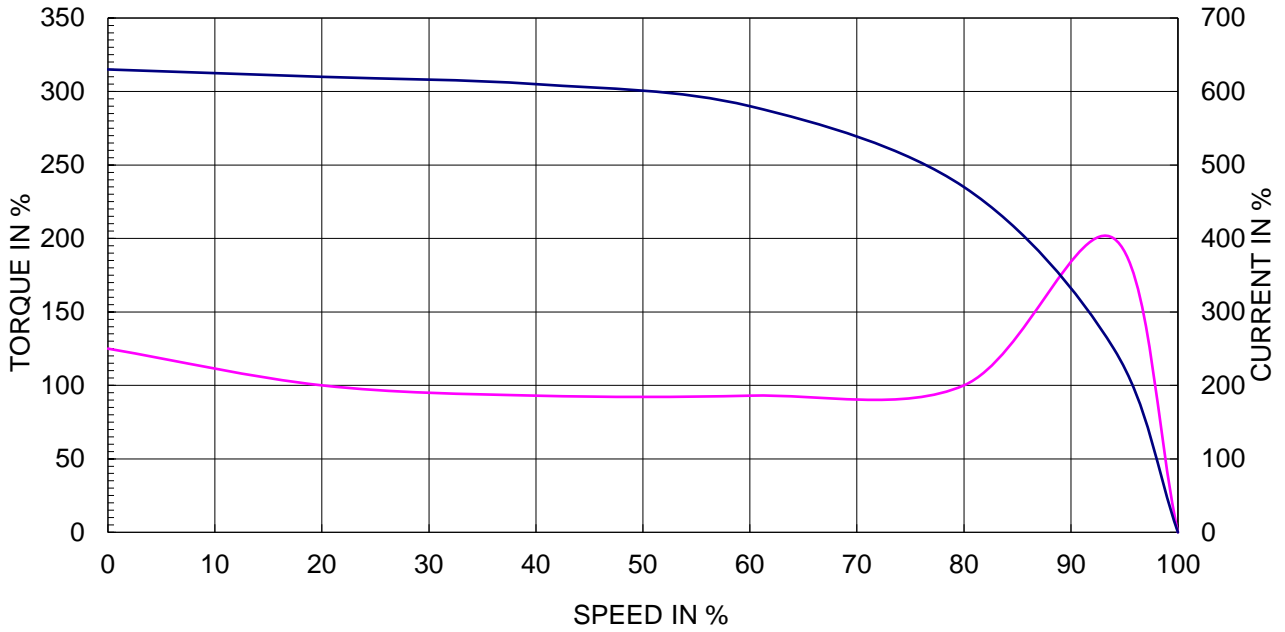
CURVE NO.

P-TNBJ5M08045

TYPE :		
RATED TORQUE :	49.8	Kg.m
GD2 OF MOTOR :	8.3	Kg.m ²
(ALLOWABLE) GD2 OF LOA	450.2	Kg.m ²

	45 kW	8 P	60 Hz
RATED SPEED :	880 RPM		
VOLTAGE	440V	380 V	220V
RATED CURRENT	79.8A	92.4 A	159.6A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

