
		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(*)		<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							
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H				Start'g-D.O.L.		122.3 A 141.6 A 244.5 A 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		<input type="checkbox"/> Indoor <input type="checkbox"/> 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		<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/>		Torque (D.O.L)									
Bearing		Type		Anti-friction		Rated							
		DE/ODE		6316C3 \ 6313C3		Starting							
		Lubricant		GREASE(ALVANIA#2)		Break down							
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft									
Coupling Method		<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		196.000 Kg.m ²									
Shaft Extension		<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Motor GD ²									
Terminal Box		Main		<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Noise Level (dB(A))							
		Aux.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		82 dB(A) at 1m from motor(No-load)							
		Location		<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right (Viewed from Drive End)		Vibration(Velocity)		3.8 mm/sec.(peak)					
Starting Duty				Cold 2 times \ Hot 1 time									
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 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									
				Main T-Box Ass'y				3M-016882					
ACCESSORIES(OPTION ITEM)				REMARK									
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.	

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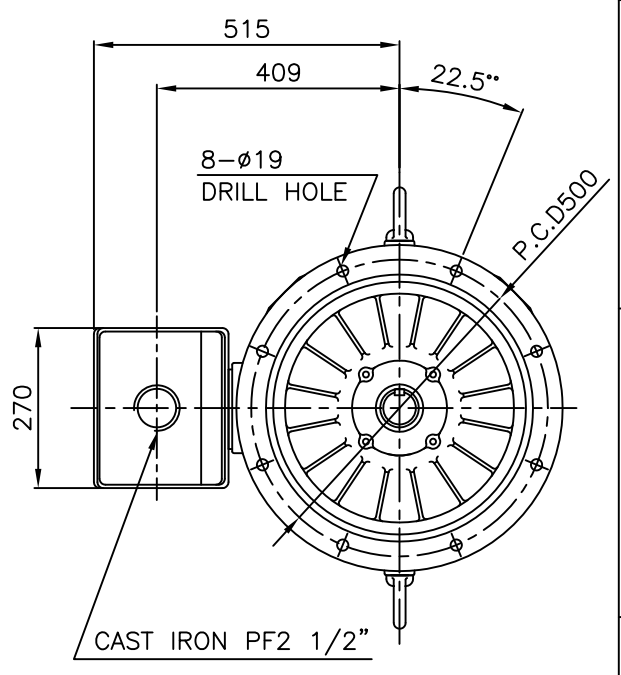
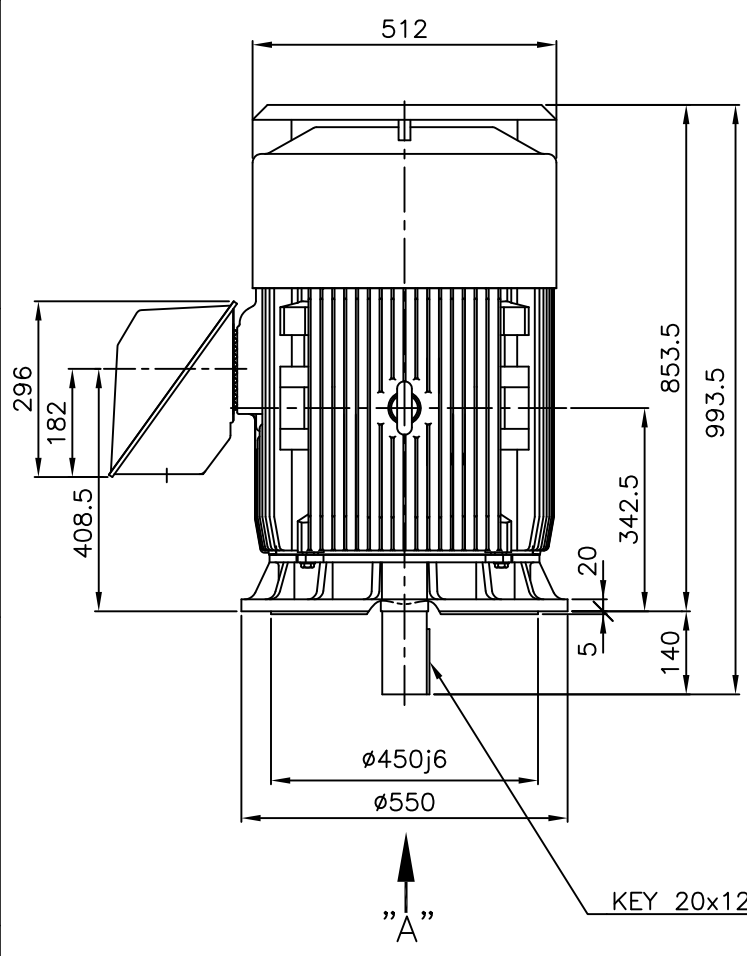
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

(1) TNB , TDB

CAST IRON FRAME

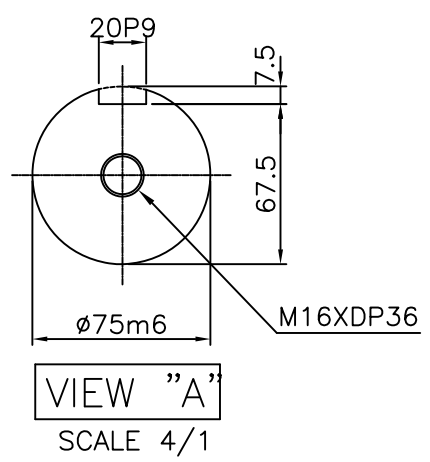


NOTE

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.



TEFC STANDARD

CAD PROJ \ FILE
MMSTDMTR/TJ50PP51

APPD BY	KANG K.J.	UNIT	MM
CHKD BY	KIM O.J.	SCALE	1/13
CHKD BY	 	PROJEC'N	3rd Angle
DSND BY	KIM RYANG GYU	DATE	2004.02.12

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



REF. NO	L3-SERIES	Sheet No.	of
DWG NO	TJ50PP51	Revision No.	0



PERFORMANCE CURVE

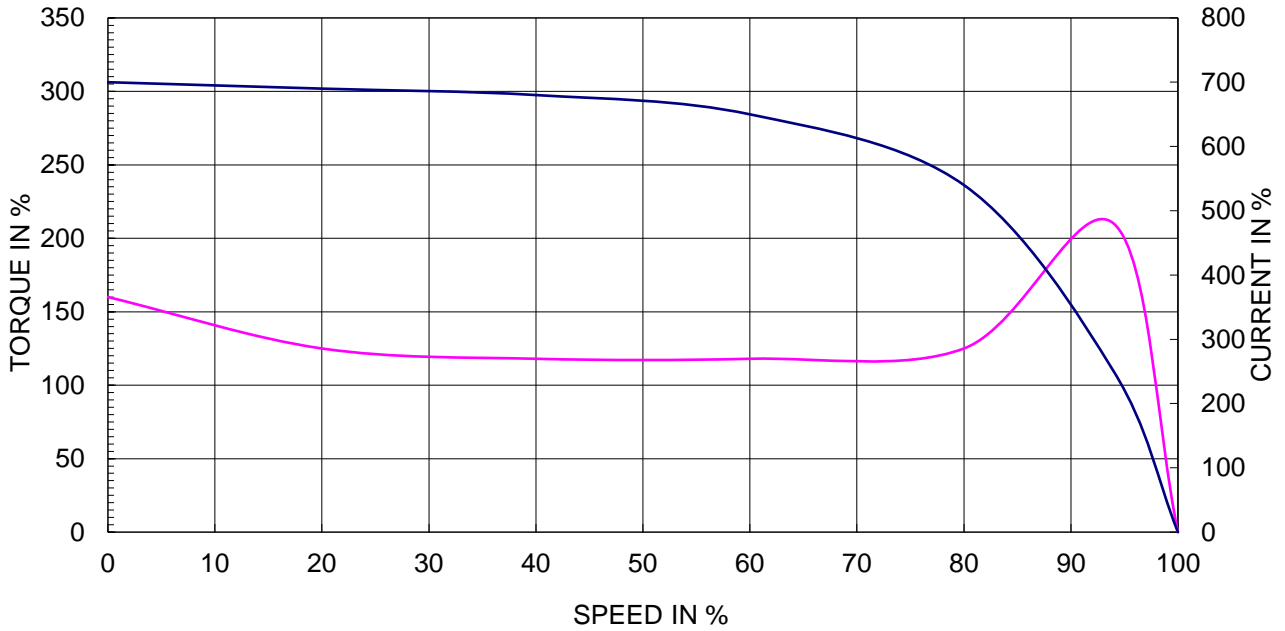
CURVE NO.

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	220V
RATED CURRENT	122.3A	141.6 A	244.5A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

