
		DATA SHEET of AC INDUCTION MOTOR			120 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.	250M		Output	120 HP 90 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	144.8 A	167.6 A 289.5 A	
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Start'g-D.O.L	941.0 A	1,089.6 A 1,882.0 A	
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F			105 °C				
Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		50% Load				91.8 %
Altitude	Less than 1000 meter		75% Load				92.7 %
Humidity	Less than 80 %		100% Load				92.7 %
Ambient Temp.	40 °C (Max.)		Power Factor				
Duty	CONT.(S1)		50% Load				81.0 %
Service Factor	1.00		75% Load				86.0 %
Electric Design	NEMA Design B		100% Load				88.0 %
Construction	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/>		Speed at Rated Load				1765 RPM / SLIP 1.94 %
Bearing	Type	Anti-friction		Torque (D.O.L)			
	DE/ODE	6316C3 \ 6313C3		Rated	49.7 Kg.m 100 %		
	Lubricant	GREASE(ALVANIA#2)		Starting	79.5 Kg.m 160 %		
External Thrust	Not applicable		Break down	104.3 Kg.m 210 %			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Allowable Load GD ² referred to motor shaft				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		221.000 Kg.m ²				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor GD ²			6.940 Kg.m ²
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Noise Level (dB(A))			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				
Applicable Standard			KS				
Inspection and Performance Test			Outline Dimension Drawing \ Motor Weight(Approx.)				
HHI Stand. Maker Test Report			<input type="checkbox"/> B3 TJ5MAP51 525 Kg <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.

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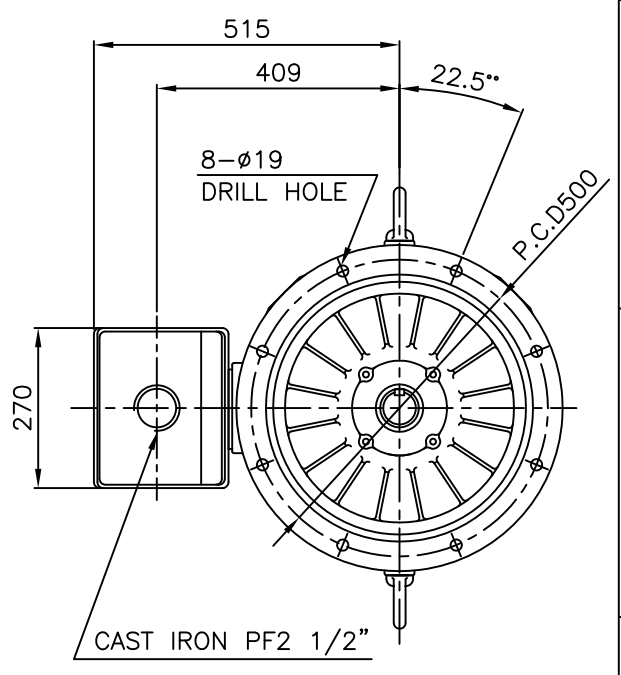
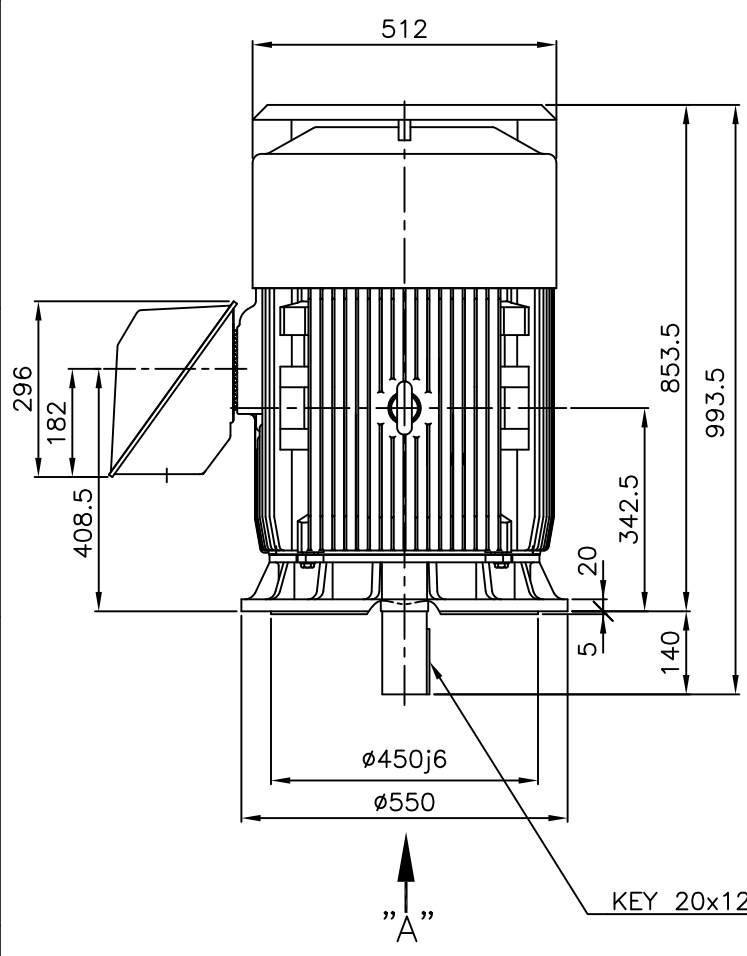
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

(1) TNB , TDB

CAST IRON FRAME



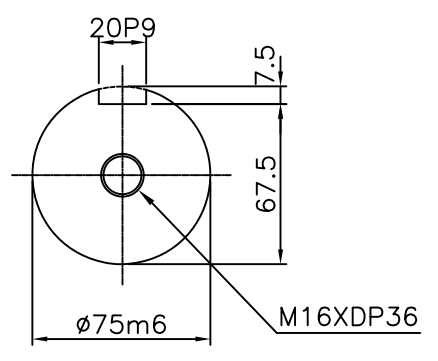
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"A"

KEY 20x12x110

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



VIEW "A"

SCALE 4/1

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

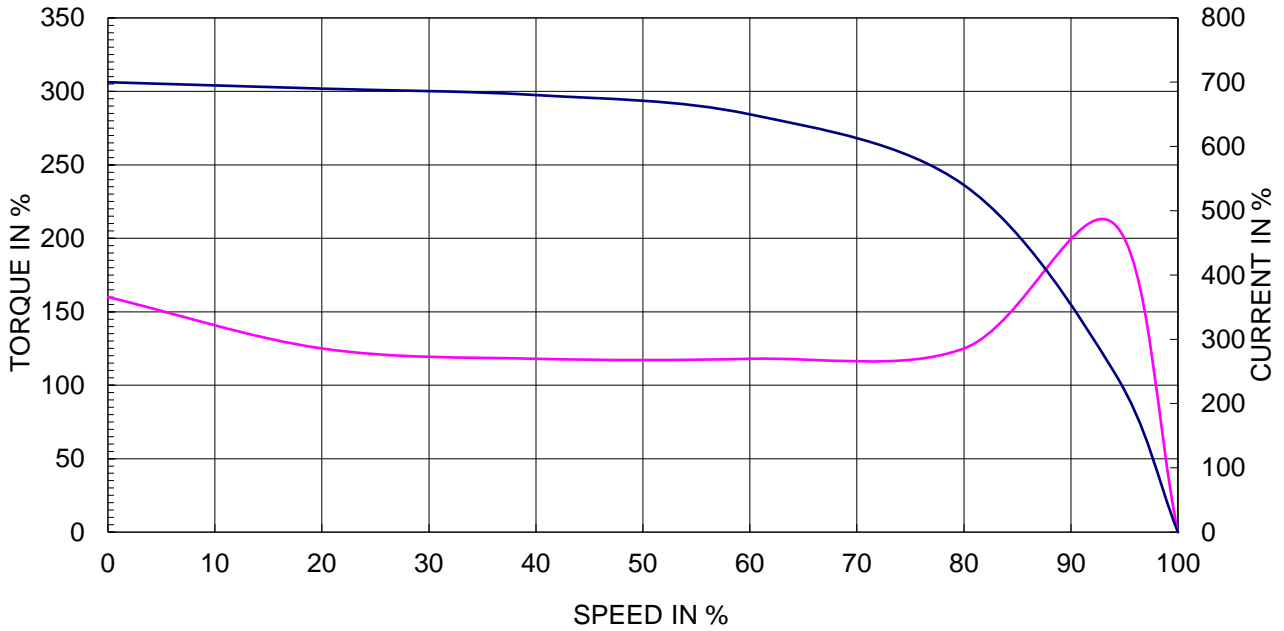
CURVE NO.

P-TNBJ5M04090

TYPE :		
RATED TORQUE :	49.7	Kg.m
GD2 OF MOTOR :	5.0	Kg.m ²
(ALLOWABLE) GD2 OF LOA	221.0	Kg.m ²

90 kW	4 P	60 Hz	
RATED SPEED :		1765 RPM	
VOLTAGE	440V	380 V	220V
RATED CURRENT	144.8A	167.6 A	289.5A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

