

		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(*)		☒ D.O.L. ☐ 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		☒ F ☐ B ☐ 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		☐ Indoor ☐ 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		☐ B3 ☐ B5 ☐ V1 ☐		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		☒ Direct ☐ V-Belt				450.200 Kg.m ²		
Shaft Extension		☒ Single ☐ Double		Motor GD ²		8.260 Kg.m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Noise Level (dB(A))				
	Aux.	☐ Yes ☒ No		75 dB(A) at 1m from motor(No-load)				
	Location	☒ Left ☐ Right		Vibration(Velocity)				
(Viewed from Drive End)				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		☐ B3		TJ5MAP51 525 Kg		
Inspection and Performance Test		HHI Stand. Maker Test Report		☐ B5		TJ50BP51 550 Kg		
				☐ 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.



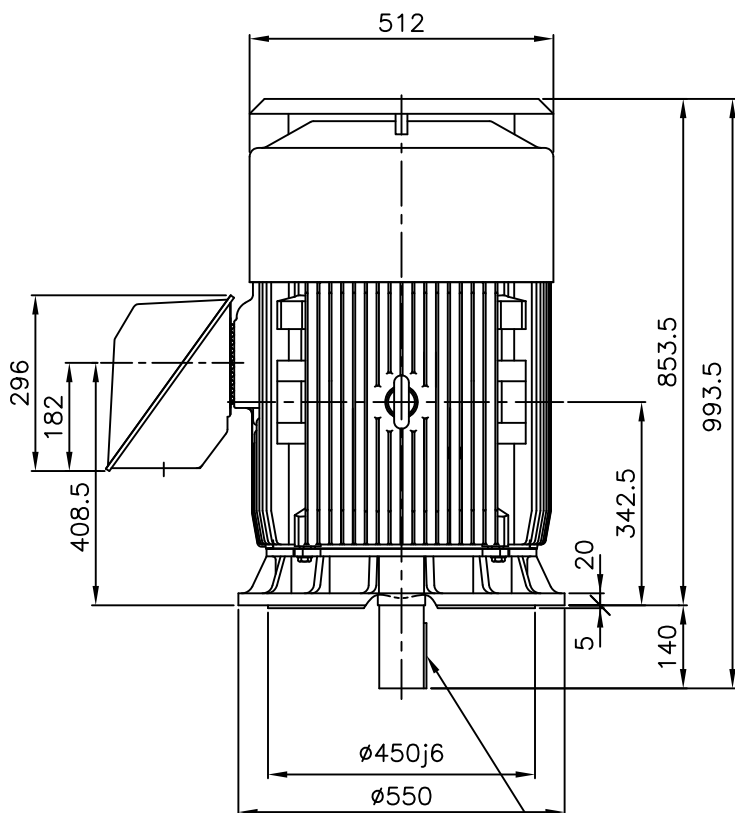
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

(1) TNB , TDB

CAST IRON FRAME



"A"

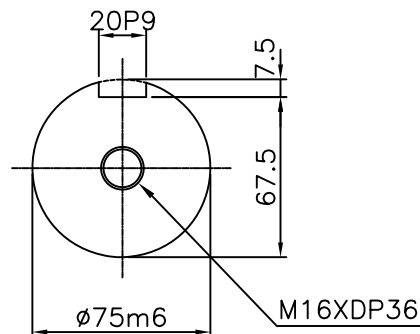
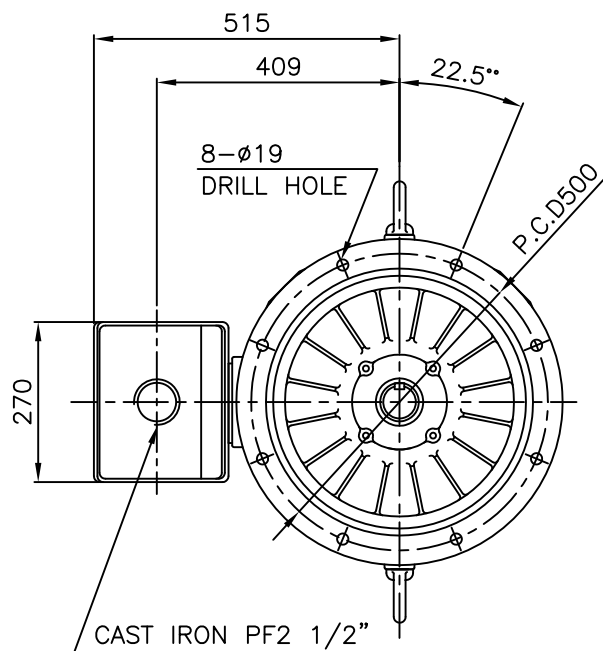
KEY 20x12x110

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

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

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	CAD PROJ \ FILE
TITLE	OUTLINE	MMSTD MTR/TJ50PP51
	THREE-PHASE INDUCTION MOTOR	

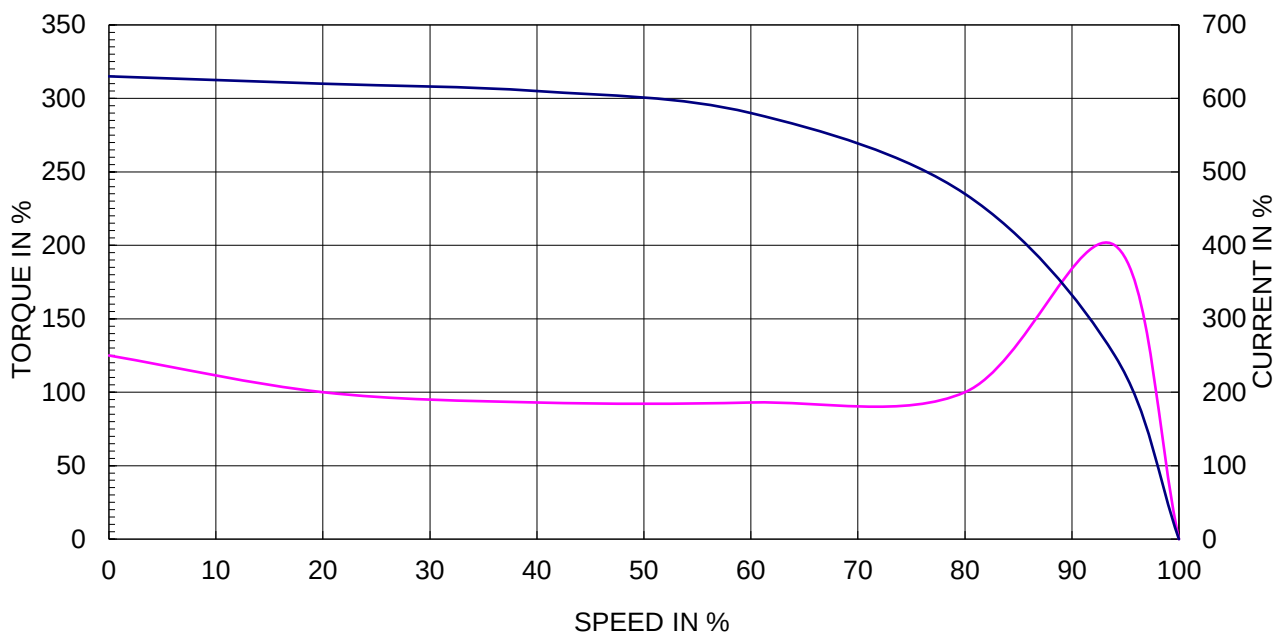


REF. NO	L3-SERIES	Sheet No.	of
DWG NO	TJ50PP51	Revision No.	0

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
RATED CURRENT	79.8A	92.4 A
		159.6A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

