
		<b>DATA SHEET</b> of <b>AC INDUCTION MOTOR</b>			<b>214 HP - 6 P</b> <b>TE</b>		
					DESIGN NO : <b>KS C4202-1996</b>		
Model No.or RFQ No.		Item No.		Rev. No.	[ 0 ]		
Project Name		Project No.		Quantity :			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame No.	280LL		Output	214 HP 160 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	261.1 A	302.3 A	
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Start'g-D.O.L	1,644.9 A	1,904.6 A	3,289.8 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		92.7 %		
Altitude	Less than 1000 meter		75% Load		93.6 %		
Humidity	Less than 80 %		100% Load		93.5 %		
Ambient Temp.	40 °C (Max.)		Power Factor				
Duty	CONT.(S1)		50% Load		79.5 %		
Service Factor	1.00		75% Load		84.0 %		
Electric Design	NEMA Design B		100% Load		86.0 %		
Construction	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/>		Speed at Rated Load		1180 RPM / SLIP 1.67 %		
Bearing	Type	Anti-friction		Torque (D.O.L)			
	DE/ODE	6318C3 \ 6316C3		Rated	132.1 Kg.m	100 %	
	Lubricant	GREASE(ALVANIA#2)		Starting	171.7 Kg.m	130 %	
External Thrust	Not applicable		Break down	264.1 Kg.m	200 %		
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Allowable Load GD <sup>2</sup> referred to motor shaft				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		780.000 Kg.m <sup>2</sup>				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor GD <sup>2</sup>			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		25.340 Kg.m <sup>2</sup>			
	Location	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right (Viewed from Drive End)		Noise Level (dB(A))			
			82 dB(A) at 1m from motor(No-load)				
			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	TJ8XAP51	1130 Kg		
Inspection and Performance Test			<input type="checkbox"/> B5	TJ8XBP51	1160 Kg		
HHI Stand.    Maker Test Report			<input type="checkbox"/> V1	TJ8XPP51	1160 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.



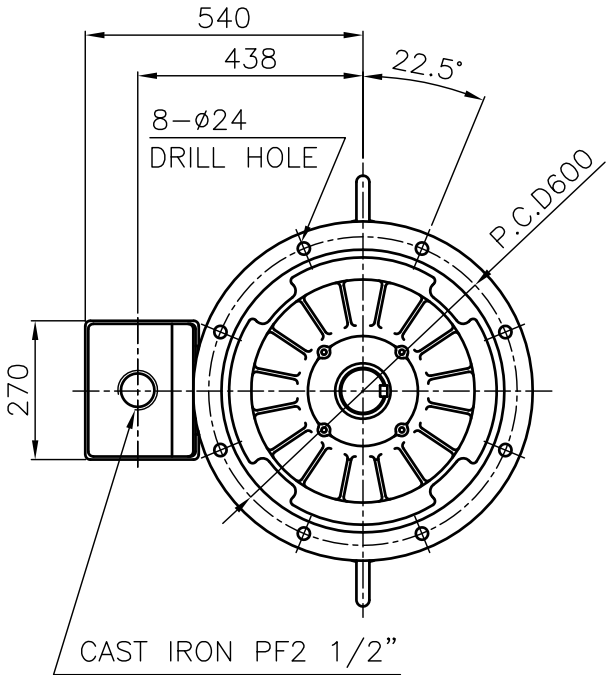
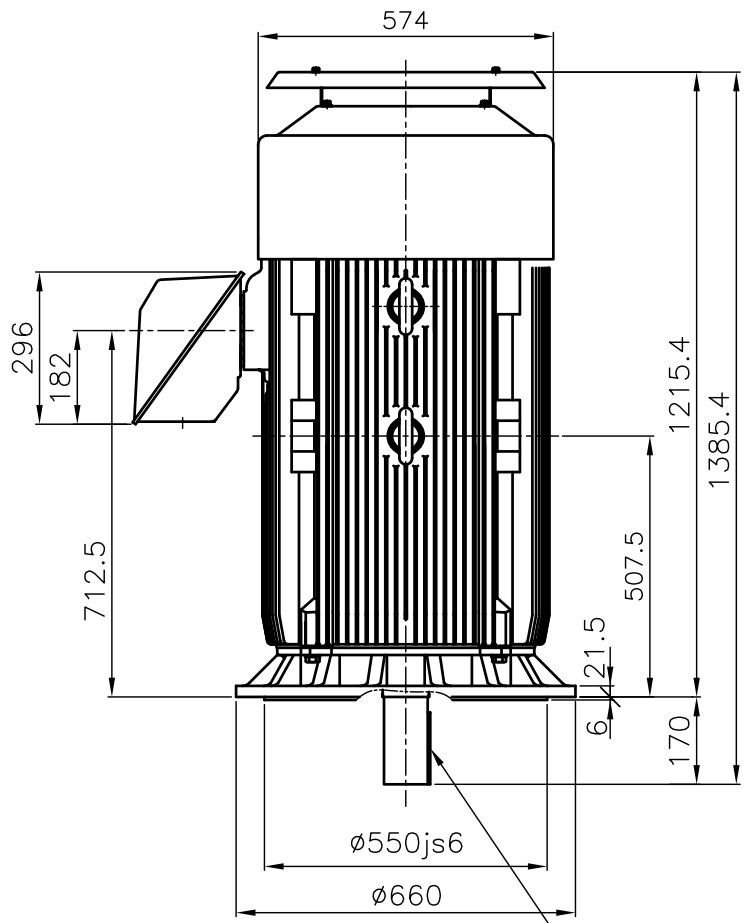
# TEFC

## THREE PHASE INDUCTION MOTOR

**TYPE**

(1) TNB , TDB

CAST IRON FRAME



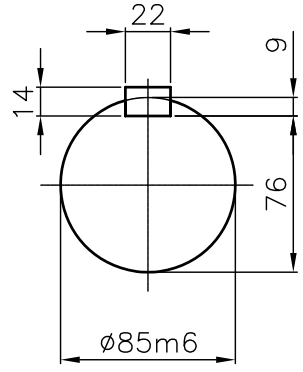
↑  
"A"  
KEY 22x14x140

**NOTE**

1.TOLERANCE :

RABBET DIAMETER	ø550js6	±0.022
SHAFT DIAMETER	ø85m6	+0.035 +0.013
KEYWAY WIDTH	22P9	-0.022 -0.074
KEYWAY DEPTH	9	+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/TJ8XPP51

APPD BY	KANG K.J.	UNIT	MM
CHKD BY	KIM O.J.	SCALE	1/15
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle
DSND BY	KIM RYANG GYU	DATE	2007.03.23

SUBJECT	KS Fr.280LL TEFC	
TITLE	<p align="center"><b>OUTLINE</b> THREE-PHASE INDUCTION MOTOR</p>	



REF. NO	L3-SERIES	Sheet No. of
DWG NO	TJ8XPP51	Revision No. 0



# PERFORMANCE CURVE

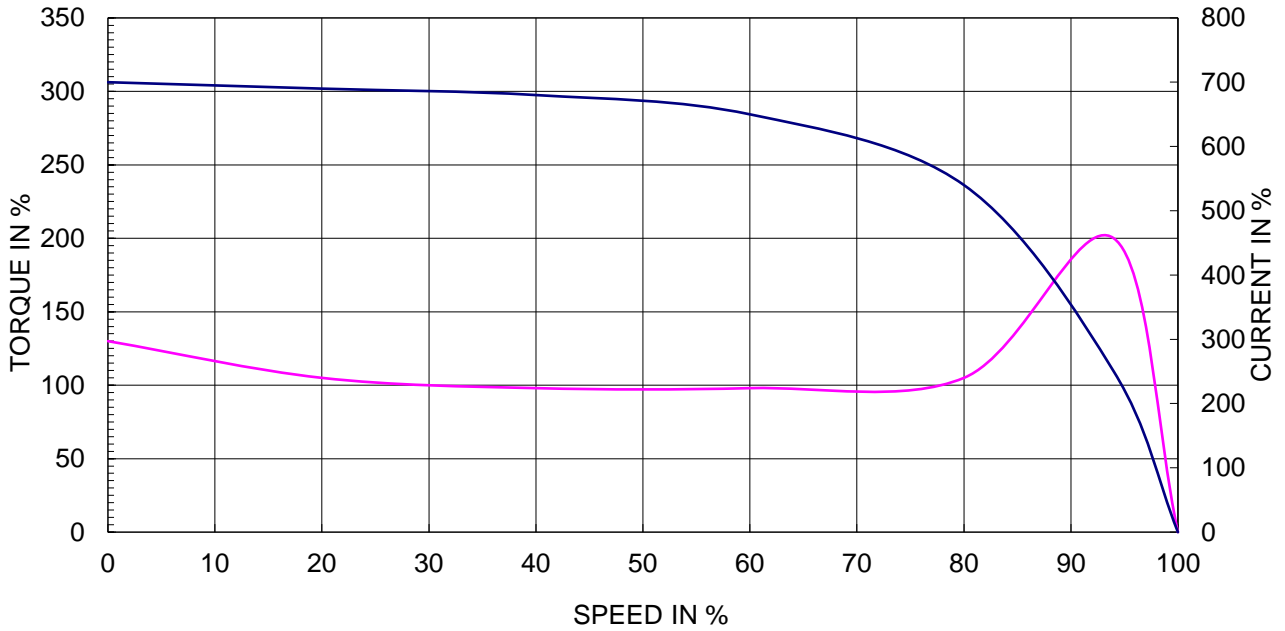
CURVE NO.

P-TNBJ8X06160

TYPE :		
RATED TORQUE :	132.1	Kg.m
GD2 OF MOTOR :	25.3	Kg.m <sup>2</sup>
(ALLOWABLE) GD2 OF LOA :	780.0	Kg.m <sup>2</sup>

160 kW	6 P	60 Hz	
RATED SPEED :		1180 RPM	
VOLTAGE	440V	380 V	220V
RATED CURRENT	261.1A	302.3 A	522.2A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

