
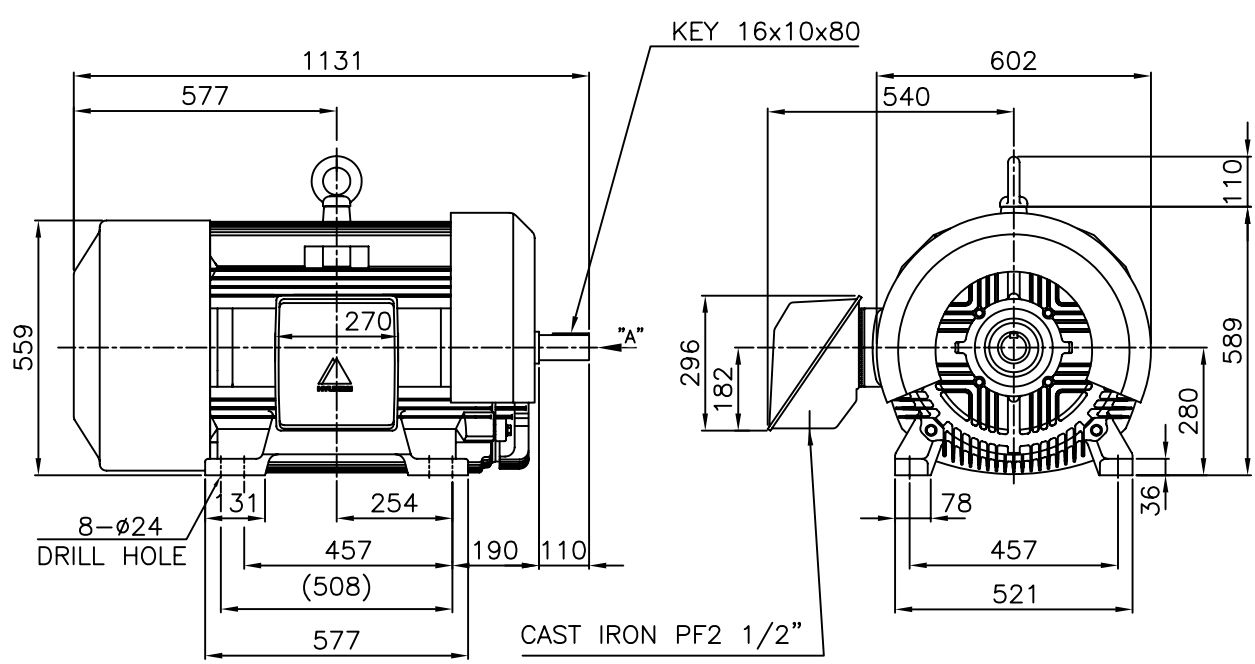
		<b>DATA SHEET</b> <b>of</b> <b>AC INDUCTION MOTOR</b>			<b>214 HP - 2 P</b> <b>TE</b>		
					DESIGN NO : <b>KS C4202-1996</b>		
Model No.or RFQ No.		Item No.		Rev. No.	[ 0 ]		
Project Name		Project No.		Quantity :			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame No.	280L		Output	214 HP 160 KW			
Type	TNB		Poles	2 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	248.1 A    287.2 A    496.1 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Start'g-D.O.L	1,612.3 A    1,866.9 A    3,224.7 A		
Temp. Rise at full load (by resistance method)	at 1.0 S.F    105 °C		Efficiency	50% Load    91.7 % 75% Load    92.3 % 100% Load    92.5 %			
Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		Power Factor	50% Load    87.0 % 75% Load    91.0 % 100% Load    91.5 %			
Altitude	Less than 1000 meter		Speed at Rated Load	3565 RPM / SLIP 0.97 %			
Humidity	Less than 80 %		Torque (D.O.L)	Rated	43.7 Kg.m    100 %		
Ambient Temp.	40 °C (Max.)			Starting	52.5 Kg.m    120 %		
Duty	CONT.(S1)			Break down	91.8 Kg.m    210 %		
Service Factor	1.00		Allowable Load GD <sup>2</sup> referred to motor shaft	50.000 Kg.m <sup>2</sup>			
Electric Design	NEMA Design B		Motor GD <sup>2</sup>	7.180 Kg.m <sup>2</sup>			
Construction	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/>		Noise Level (dB(A))	98 dB(A) at 1m from motor(No-load)			
Bearing	Type	Anti-friction		Vibration(Velocity)	3.8 mm/sec.(peak)		
	DE/ODE	6314C3 \ 6314C3		Starting Duty	Cold 2 times \ Hot 1 time		
	Lubricant	GREASE(ALVANIA#2)		Paint	Munsell No. 4.0PB5.4/5.5(VL-451)		
External Thrust	Not applicable		<b>SUBMITTAL DRAWING</b> Outline Dimension Drawing \ Motor Weight(Approx.)				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt						
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		<input type="checkbox"/> B3	TJ8LAC50	850 Kg		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		<input type="checkbox"/> B5	TJ8LBC50	890 Kg	
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> V1	TJ8LPC50	890 Kg	
	Location	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right (Viewed from Drive End)		Main T-Box Ass'y 3M-016882			
Application			<b>REMARK</b>				
Area Classification	Not applicable						
Applicable Standard	KS						
Inspection and Performance Test			HHI Stand.    Maker Test Report				
ACCESSORIES(OPTION ITEM)							
SPARE PARTS							
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.

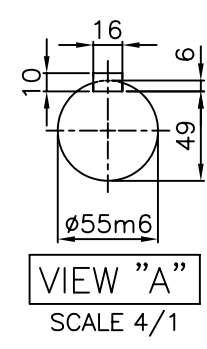
		<h1>TEFC</h1>		<b>TYPE</b> (1) TNB , TDB CAST IRON FRAME
		<b>THREE PHASE INDUCTION MOTOR</b>		



**NOTE**

1.TOLERANCE :

CENTER HEIGHT	280	$0_{-1.0}$
BASE HOLE	$\phi 24$	$+0.43_0$
SHAFT DIAMETER	$\phi 55$	$+0.030_{+0.011}$
KEYWAY WIDTH	16	$-0.018_{-0.061}$
KEYWAY DEPTH	6	$+0.2_0$
KEY WIDTH	16	$0_{-0.043}$
KEY HEIGHT	10	$0_{-0.090}$



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		
APPD BY	KANG K.J.	UNIT	MM	SUBJECT	KS Fr.280L TEFC	
CHKD BY	KIM O.J.	SCALE	1/17			CAD PROJ \ FILE MMSTDMTR/TJ8LAC50
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle	TITLE OUTLINE THREE-PHASE INDUCTION MOTOR		
DSND BY	KIM RYANG GYU	DATE	2007.03.23			
				REF. NO	L2-Series	Sheet No. of
				DWG NO	TJ8LAC50	Revision No. 0



# HYUNDAI

HEAVY INDUSTRIES CO., LTD

## PERFORMANCE CURVE

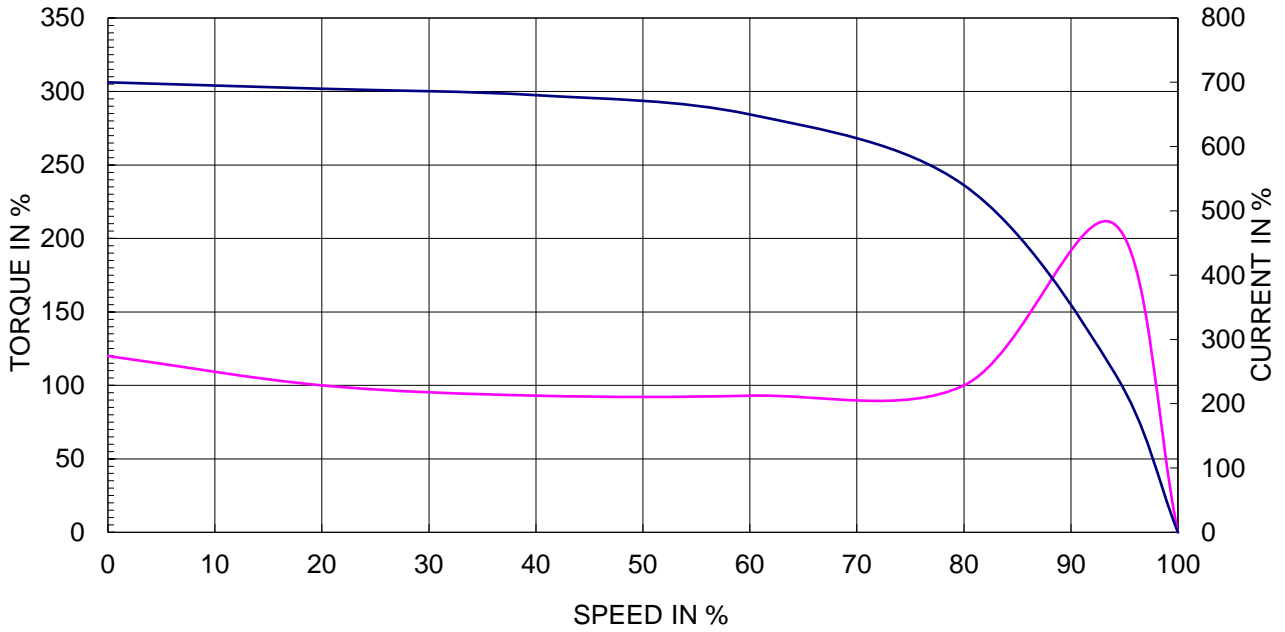
CURVE NO.

**P-TNBJ8L02160**

TYPE :		
RATED TORQUE :	43.7	Kg.m
GD2 OF MOTOR :	7.2	Kg.m <sup>2</sup>
(ALLOWABLE) GD2 OF LOA	50.0	Kg.m <sup>2</sup>

160 kW	2 P	60 Hz	
RATED SPEED :		3565 RPM	
VOLTAGE	440V	380 V	220V
RATED CURRENT	248.1A	287.2 A	496.1A

### SPEED VS TORQUE & CURRENT CURVE



### OUTPUT VS EFF., P.F & CURRENT CURVE

