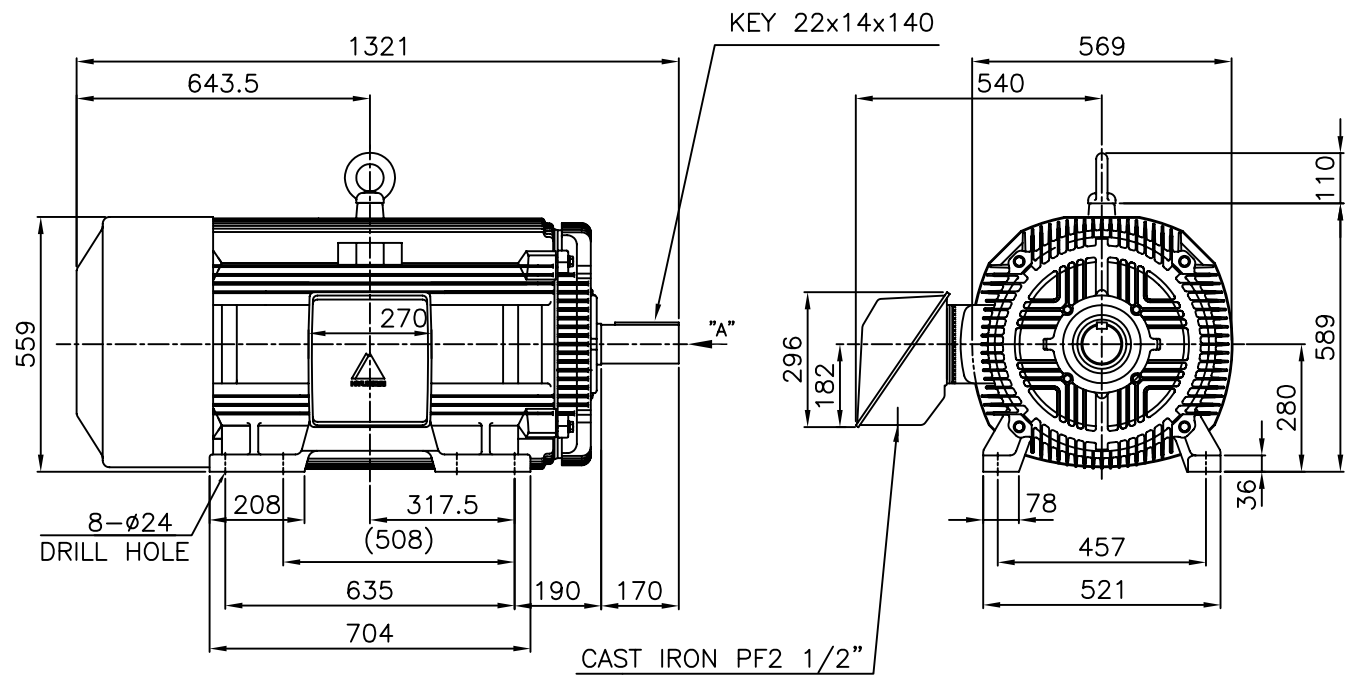


		DATA SHEET of AC INDUCTION MOTOR				214 HP - 6 P TE		
						DESIGN NO : KS C4202-1996		
Model No.or RFQ No.		Item No.		Rev. No.		[0]		
Project Name		Project No.		Quantity :				
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame No.		280LL		Output		214 HP 160 KW		
Type		TNB		Poles		6 P		
Enclosure(Protection)		Totally Enclosed (IP IP54)		Rotor Type		Squirrel Cage		
Cooling Method		IC411(FC)		Starting Method(*)		☒ D.O.L. ☐ Y-Δ		
Frequency		60 Hz		Rated Voltage		440 V 380 V 220 V		
Phase		3 Φ		Current		Rated Load		
Insulation Class		☒ F ☐ B ☐ H				Start'g-D.O.L.		
Temp. Rise at full load (by resistance method)		at 1.0 S.F 105 °C		Efficiency				
Location		☐ Indoor ☐ 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		☐ B3 ☐ B5 ☐ V1 ☐		Speed at Rated Load		1180 RPM / SLIP 1.67 %		
Bearing Type Anti-friction DE/ODE 6318C3 \ 6316C3 Lubricant GREASE(ALVANIA#2)		Torque (D.O.L)		Rated		132.1 Kg.m 100 %		
		Starting		171.7 Kg.m 130 %				
		Break down		264.1 Kg.m 200 %				
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft		780.000 Kg.m ²		
Coupling Method		☒ Direct ☐ V-Belt		Motor GD ²		25.340 Kg.m ²		
Shaft Extension		☒ Single ☐ Double		Noise Level (dB(A))		82 dB(A) at 1m from motor(No-load)		
Terminal Box Main ☐ Steel ☒ Cast Iron Aux. ☐ Yes ☒ No Location ☒ Left ☐ 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		☐ B3 TJ8XAP51 1130 Kg ☐ B5 TJ8XBP51 1160 Kg ☐ V1 TJ8XPP51 1160 Kg				
Inspection and Performance Test		HHI Stand. Maker Test Report		Main T-Box Ass'y 3M-016882				
ACCESSORIES(OPTION ITEM)								
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.

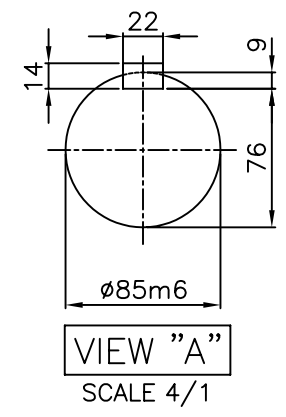
1	2	3	4
 HYUNDAI HEAVY INDUSTRIES CO., LTD.		TEFC THREE PHASE INDUCTION MOTOR	TYPE (1) TNB , TDB CAST IRON FRAME



NOTE

1.TOLERANCE :

CENTER HEIGHT	280 _{-1.0} ⁰
BASE HOLE	ø24 ₀ ^{+0.43}
SHAFT DIAMETER	ø85 _{+0.013} ^{+0.035}
KEYWAY WIDTH	22 _{-0.074} ^{-0.022}
KEYWAY DEPTH	9 ₀ ^{+0.2}
KEY WIDTH	22 _{-0.052} ⁰
KEY HEIGHT	14 _{-0.110} 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	
APPD BY	KANG K.J.	UNIT	MM	SUBJECT	KS Fr.280LL TEFC
CHKD BY	KIM O.J.	SCALE	1/17	TITLE	CAD PROJ \ FILE
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle		MMSTDMTR/TJ8XAP51
DSND BY	KIM RYANG GYU	DATE	2007.03.23		
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				REF. NO	L2-Series
				DWG NO	TJ8XAP51
				OUTLINE THREE-PHASE INDUCTION MOTOR	
				Sheet No.	of
				Revision No.	0

G
F
E
D
C
B
A



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

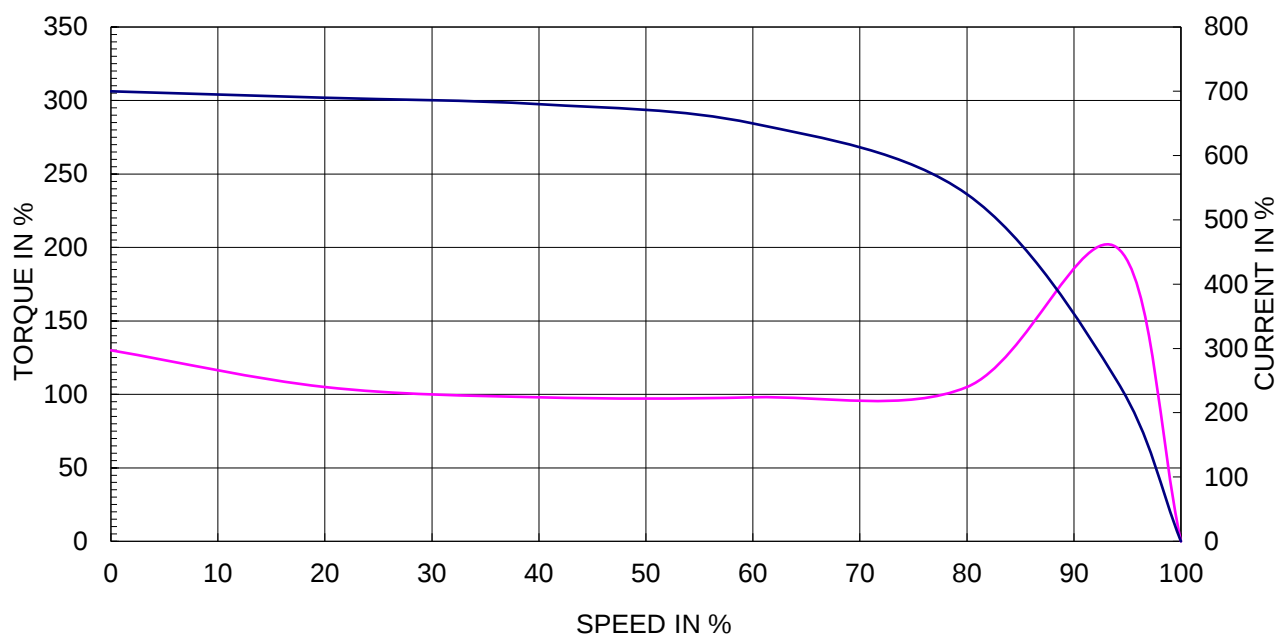
CURVE NO.

P-TNBJ8X06160

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

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

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

