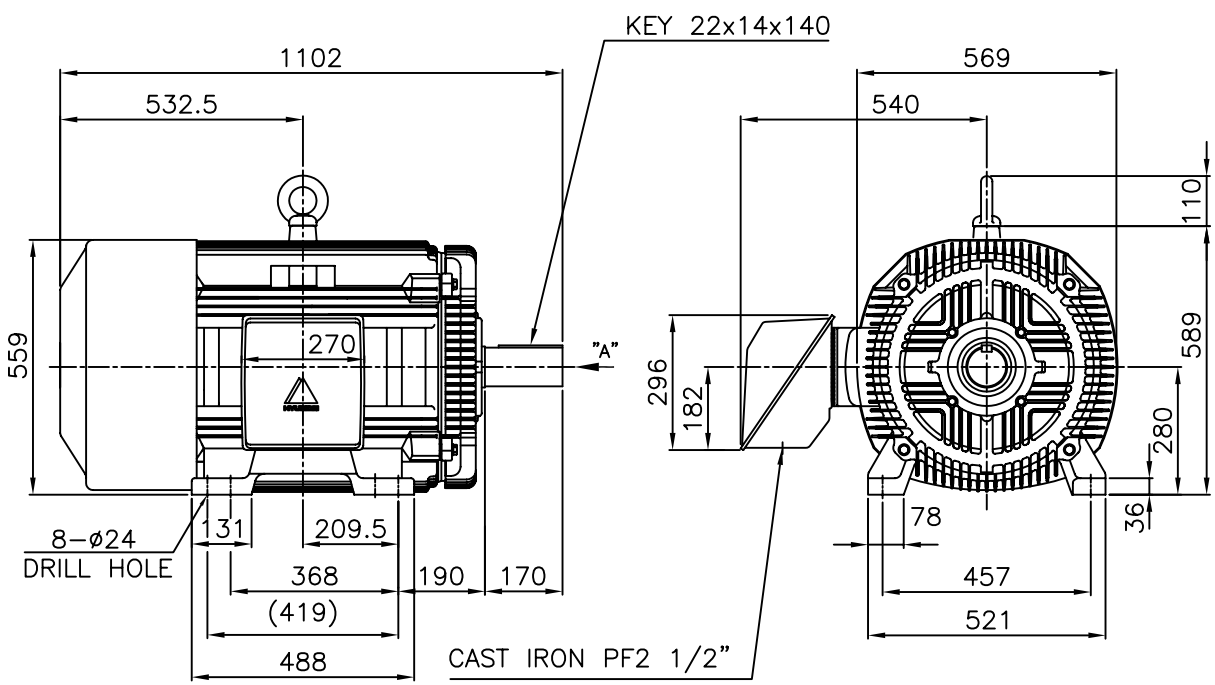


		DATA SHEET of AC INDUCTION MOTOR				150 HP - 4 P TE		
						DESIGN NO : KS C4202-1996		
Model No.or RFQ No.		Item No.		Rev. No.		[0]		
Project Name		Project No.		Quantity :				
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame No.		280S		Output		150 HP 110 KW		
Type		TNB		Poles		4 P		
Enclosure(Protection)		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		175.8 A 203.5 A 351.5 A	
Insulation Class		☒ F ☐ B ☐ H			Start'g-D.O.L		1,195.2 A 1,383.9 A 2,390.4 A	
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		105 °C		50% Load		92.2 %		
Location		☐ Indoor ☐ Outdoor		75% Load		93.2 %		
Altitude		Less than 1000 meter		100% Load		93.0 %		
Humidity		Less than 80 %		Power Factor				
Ambient Temp.		40 °C (Max.)		50% Load		81.3 %		
Duty		CONT.(S1)		75% Load		86.3 %		
Service Factor		1.00		100% Load		88.3 %		
Electric Design		NEMA Design B		Speed at Rated Load		1770 RPM / SLIP 1.67 %		
Construction		☐ B3 ☐ B5 ☐ V1 ☐		Torque (D.O.L)				
Bearing	Type	Anti-friction		Rated		60.5 Kg.m 100 %		
	DE/ODE	6318C3 \ 6316C3		Starting		84.7 Kg.m 140 %		
	Lubricant	GREASE(ALVANIA#2)		Break down		127.1 Kg.m 210 %		
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft				
Coupling Method		☒ Direct ☐ V-Belt				272.000 Kg.m ²		
Shaft Extension		☒ Single ☐ Double		Motor GD ²		7.380 Kg.m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Noise Level (dB(A))		88 dB(A) at 1m from motor(No-load)		
	Aux.	☐ Yes ☒ No		Vibration(Velocity)		3.8 mm/sec.(peak)		
	Location	☒ Left ☐ Right		Starting Duty		Cold 2 times \ Hot 1 time		
(Viewed from Drive End)				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		TJ8SAP51 700 Kg		
Inspection and Performance Test				☐ B5		TJ80BP51 740 Kg		
HHI Stand.		Maker Test Report		☐ V1		TJ80PP51 740 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.

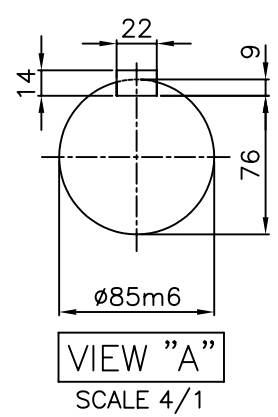
1		2		3		4	
 HYUNDAI HEAVY INDUSTRIES CO., LTD.		TEFC THREE PHASE INDUCTION MOTOR				TYPE (1) TNB , TDB CAST IRON FRAME	



NOTE

1.TOLERANCE :

CENTER HEIGHT	280 $\begin{smallmatrix} 0 \\ -1.0 \end{smallmatrix}$
BASE HOLE	$\phi 24 \begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 85 \begin{smallmatrix} +0.035 \\ +0.013 \end{smallmatrix}$
KEYWAY WIDTH	$22 \begin{smallmatrix} -0.022 \\ -0.074 \end{smallmatrix}$
KEYWAY DEPTH	$9 \begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEYWAY WIDTH	$22 \begin{smallmatrix} 0 \\ -0.052 \end{smallmatrix}$
KEYWAY DEPTH	$14 \begin{smallmatrix} 0 \\ -0.110 \end{smallmatrix}$



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.280S TEFC
CHKD BY	KIM O.J.	SCALE	1/17	TITLE	CAD PROJ \ FILE
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle		MMSTDMTR/TJ8SAP51
DSND BY	KIM RYANG GYU	DATE	2007.03.23		
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				REF. NO	L2-Series
				DWG NO	TJ8SAP51
				Sheet No.	of
				Revision No.	0



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

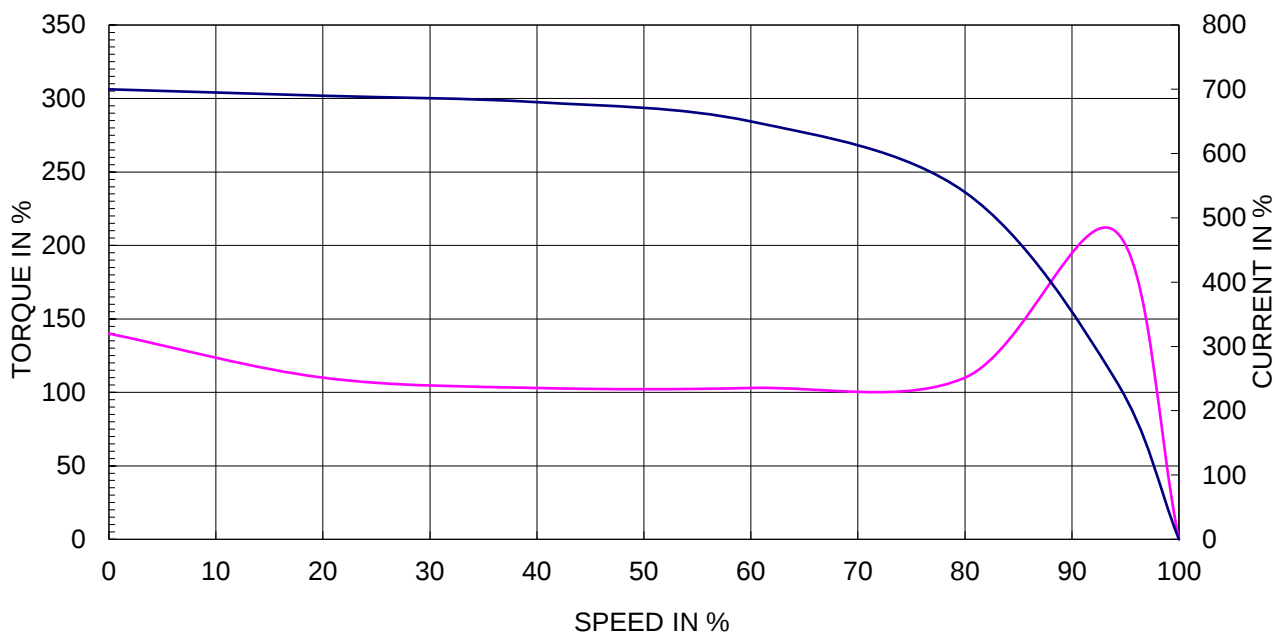
CURVE NO.

P-TNBJ8S04110

TYPE :		
RATED TORQUE :	60.5	Kg.m
GD2 OF MOTOR :	7.4	Kg.m ²
(ALLOWABLE) GD2 OF LOA	272.0	Kg.m ²

110 kW	4 P	60 Hz
RATED SPEED :	1770 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	175.8A	203.5 A
		351.5A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

