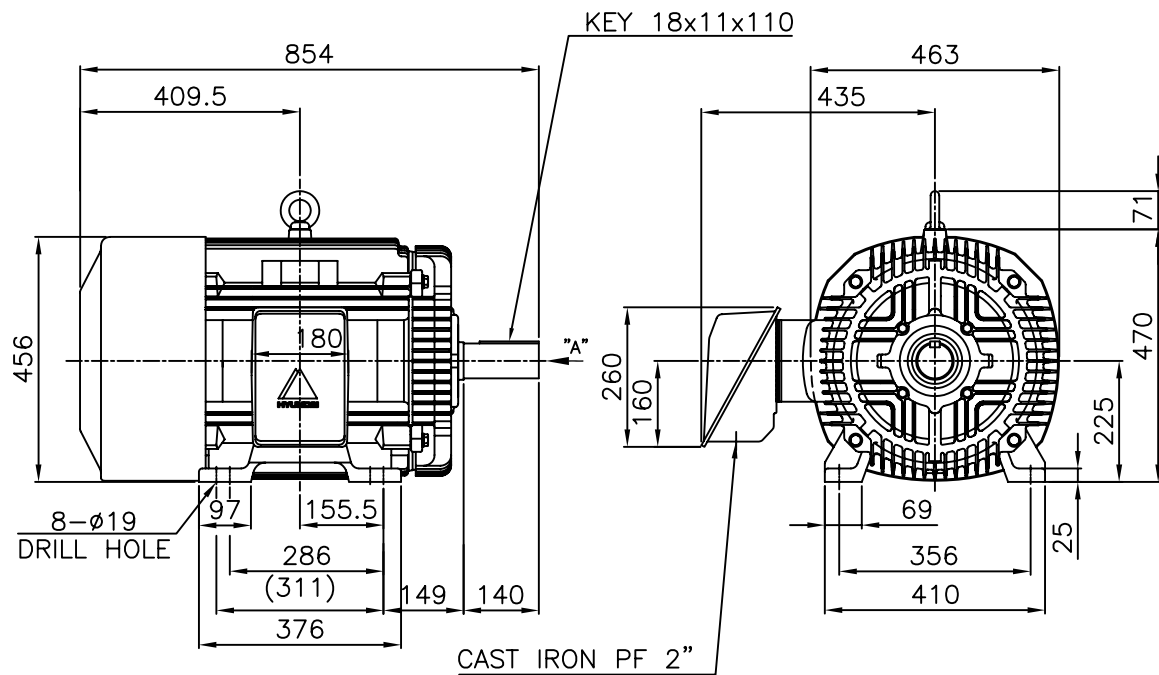


		DATA SHEET of AC INDUCTION MOTOR				75 HP - 4 P TE		
						DESIGN NO : KS C4202-1996		
Model No.or RFQ No.		Item No.		Rev. No.		[0]		
Project Name		Project No.		Quantity :				
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame No.		225S		Output		75 HP 55 KW		
Type		TNB		Poles		4 P		
Enclosure(Protection)		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		
Insulation Class		☒ F ☐ B ☐ H				Start'g-D.O.L.		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		105 °C		50% Load		90.9 %		
Location		☐ Indoor ☐ Outdoor		75% Load		92.0 %		
Altitude		Less than 1000 meter		100% Load		91.7 %		
Humidity		Less than 80 %		Power Factor				
Ambient Temp.		40 °C (Max.)		50% Load		76.8 %		
Duty		CONT.(S1)		75% Load		84.0 %		
Service Factor		1.00		100% Load		85.5 %		
Electric Design		NEMA Design B		Speed at Rated Load		1765 RPM / SLIP 1.94 %		
Construction		☐ B3 ☐ B5 ☐ V1 ☐		Torque (D.O.L)				
Bearing		Type		Anti-friction		Rated		
		DE/ODE		6314C3 \ 6213C3		30.4 Kg.m 100 %		
		Lubricant		GREASE(ALVANIA#2)		Starting		
External Thrust		Not applicable		Break down		75.9 Kg.m 250 %		
Coupling Method		☒ Direct ☐ V-Belt		Allowable Load GD ² referred to motor shaft				
Shaft Extension		☒ Single ☐ Double				96.000 Kg.m ²		
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor GD ²		
		Aux.		☐ Yes ☒ No		3.160 Kg.m ²		
		Location		☒ Left ☐ Right		Noise Level (dB(A))		
(Viewed from Drive End)				Vibration(Velocity)		82 dB(A) at 1m from motor(No-load)		
Application				Starting Duty		Cold 2 times \ Hot 1 time		
Area Classification		Not applicable		Paint		Munsell No. 4.0PB5.4/5.5(VL-451)		
Applicable Standard		KS		SUBMITTAL DRAWING				
Inspection and Performance Test				Outline Dimension Drawing \ Motor Weight(Approx.)				
ACCESSORIES(OPTION ITEM)				☐ B3		TJ2SAP51		
				☐ B5		TJ25BP51		
				☐ V1		TJ25PP51		
Main T-Box Ass'y				3M-016881				
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.

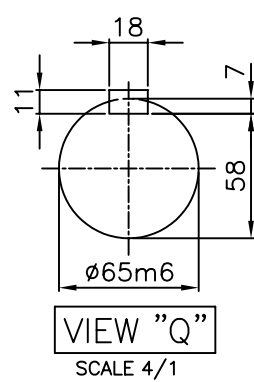
1	2	3	4
 HYUNDAI HEAVY INDUSTRIES CO., LTD.		TEFC THREE PHASE INDUCTION MOTOR	TYPE (1) TNB , TDB CAST IRON FRAME



NOTE

1.TOLERANCE :

CENTER HEIGHT	225	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLE	$\phi 19$	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 65$	$\begin{smallmatrix} +0.030 \\ +0.011 \end{smallmatrix}$
KEYWAY WIDTH	18	$\begin{smallmatrix} -0.018 \\ -0.061 \end{smallmatrix}$
KEYWAY DEPTH	7	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEY WIDTH	18	$\begin{smallmatrix} 0 \\ -0.043 \end{smallmatrix}$
KEY HEIGHT	11	$\begin{smallmatrix} 0 \\ -0.110 \end{smallmatrix}$



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.225S TEFC
CHKD BY	KIM O.J.	SCALE	1/15	TITLE	CAD PROJ \ FILE
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle		MMSTDMTR/TJ2SAP51
DSND BY	KIM RYANG GYU	DATE	2007.03.23		
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				OUTLINE THREE-PHASE INDUCTION MOTOR	
				REF. NO	L2-Series
				DWG NO	TJ2SAP51
				Sheet No.	of
				Revision No.	0



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

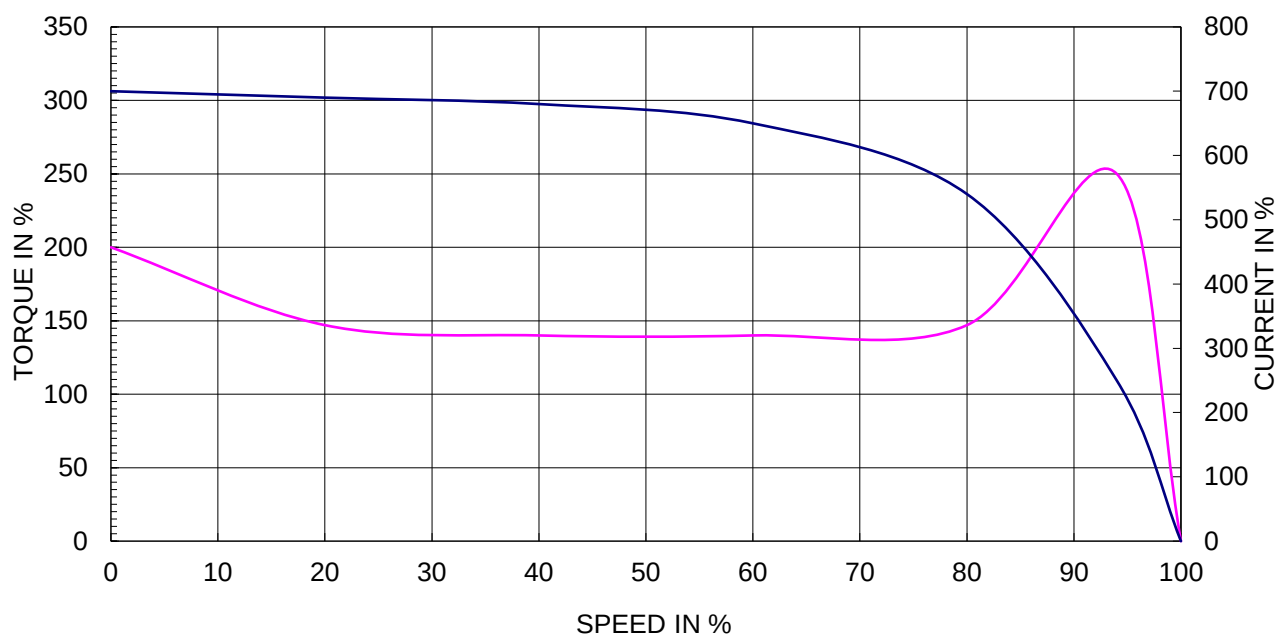
CURVE NO.

P-TNBJ2S04055

TYPE :		
RATED TORQUE :	30.4	Kg.m
GD2 OF MOTOR :	3.2	Kg.m ²
(ALLOWABLE) GD2 OF LOA	96.0	Kg.m ²

55 kW	4 P	60 Hz
RATED SPEED :	1765 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	92.0A	106.6 A
		184.1A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

