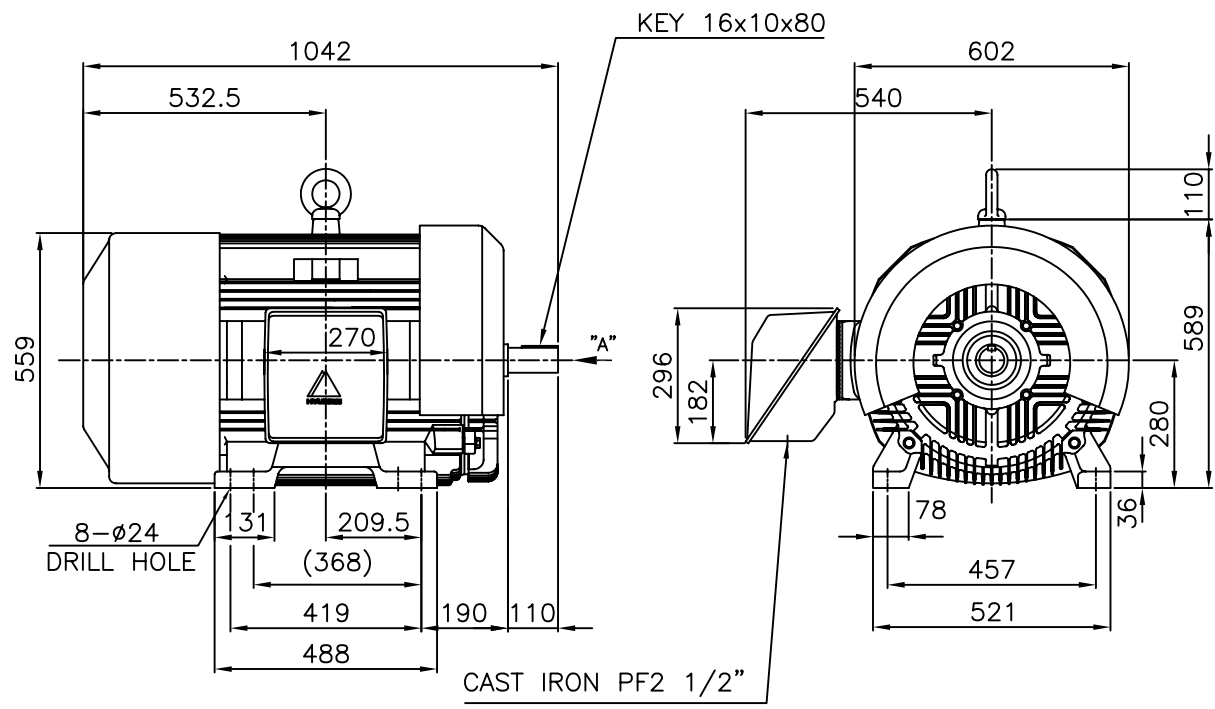


		DATA SHEET of AC INDUCTION MOTOR				175 HP - 2 P TE		
						DESIGN NO : KS C4202-1996		
Model No.or RFQ No.		Item No.		Rev. No.		[0]		
Project Name		Project No.		Quantity :				
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame No.		280M		Output		175 HP 132 KW		
Type		TNB		Poles		2 P		
Enclosure(Protection)		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	205.8 A 238.3 A 411.5 A		
Insulation Class		☒ F ☐ B ☐ H			Start'g-D.O.L	1,337.5 A 1,548.7 A 2,675.0 A		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		105 °C		50% Load		91.5 %		
Location		☐ Indoor ☐ Outdoor		75% Load		92.3 %		
Altitude		Less than 1000 meter		100% Load		92.5 %		
Humidity		Less than 80 %		Power Factor				
Ambient Temp.		40 °C (Max.)		50% Load		86.0 %		
Duty		CONT.(S1)		75% Load		90.5 %		
Service Factor		1.00		100% Load		91.0 %		
Electric Design		NEMA Design B		Speed at Rated Load		3565 RPM / SLIP 0.97 %		
Construction		☐ B3 ☐ B5 ☐ V1 ☐		Torque (D.O.L)				
Bearing	Type	Anti-friction		Rated		36.1 Kg.m 100 %		
	DE/ODE	6314C3 \ 6314C3		Starting		46.9 Kg.m 130 %		
	Lubricant	GREASE(ALVANIA#2)		Break down		82.9 Kg.m 230 %		
External Thrust		Not applicable		Allowable Load GD ² referred to motor shaft				
Coupling Method		☒ Direct ☐ V-Belt				50.000 Kg.m ²		
Shaft Extension		☒ Single ☐ Double		Motor GD ²		6.060 Kg.m ²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Noise Level (dB(A))		98 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		TJ8MAC50 760 Kg		
Inspection and Performance Test				☐ B5		TJ80BC50 800 Kg		
HHI Stand.		Maker Test Report		☐ V1		TJ80PC50 800 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.

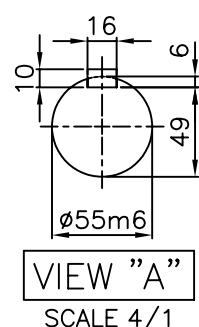
1	2	3	4
 HYUNDAI HEAVY INDUSTRIES CO., LTD.		TEFC THREE PHASE INDUCTION MOTOR	TYPE (1) TNB , TDB CAST IRON FRAME



NOTE

1.TOLERANCE :

CENTER HEIGHT	280 ⁰ _{-1.0}
BASE HOLE	ø24 ^{+0.43} ₀
SHAFT DIAMETER	ø55 ^{+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
CAD PROJ \ FILE
MMSTDMTR/TJ8MAC50

APPD BY	KANG K.J.	UNIT	MM
CHKD BY	KIM O.J.	SCALE	1/17
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle
DSND BY	KIM RYANG GYU	DATE	2007.03.23

SUBJECT	KS Fr.280M TEFC	TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR
REF. NO	L2-Series	Sheet No.	of
DWG NO	TJ8MAC50	Revision No.	0



HYUNDAI

HEAVY INDUSTRIES CO., LTD

PERFORMANCE CURVE

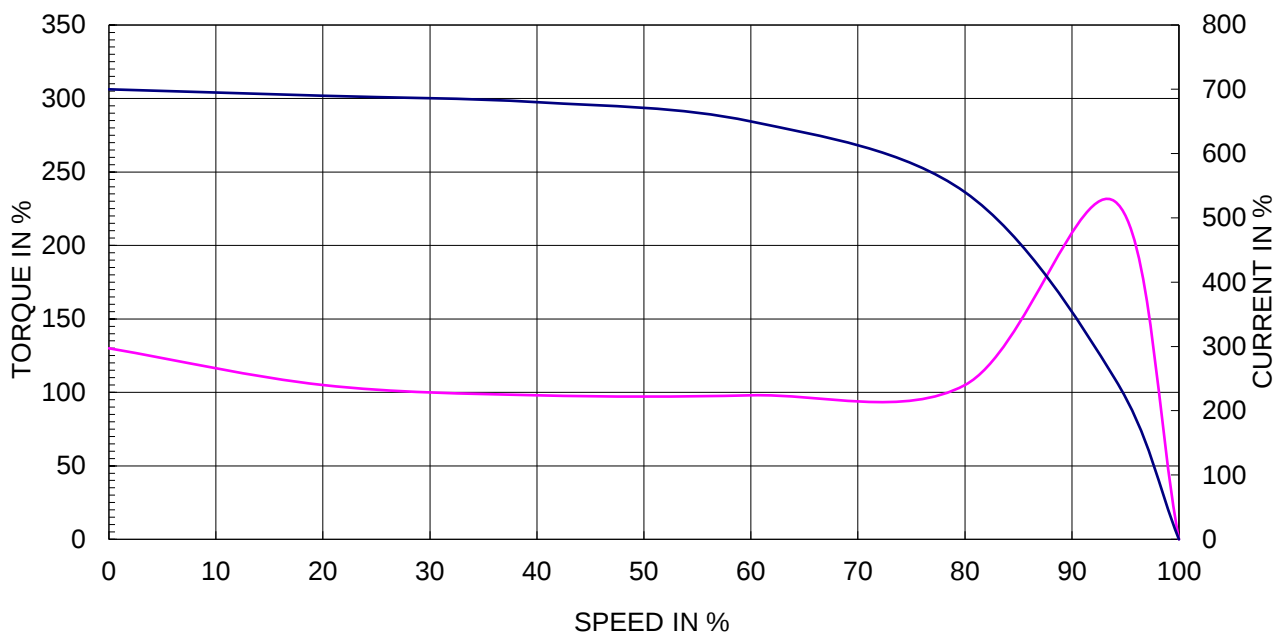
CURVE NO.

P-TNBJ8M02132

TYPE :		
RATED TORQUE :	36.1	Kg.m
GD2 OF MOTOR :	6.1	Kg.m ²
(ALLOWABLE) GD2 OF LOA	50.0	Kg.m ²

132 kW	2 P	60 Hz
RATED SPEED :	3565 RPM	
VOLTAGE	440V	380 V
RATED CURRENT	205.8A	238.3 A
		411.5A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

