

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	225S		Rated Output	55 kW 75 HP			
Type	HS-55/2		Number of Poles	2			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y- Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V		
Number of Phases	3		Current	Full Load	84.8 A 98.2 A 169.6 A		
Insulation Class	☒ F ☐ B ☐ H			Locked-rotor**	630 % 630 % 630 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 92.7 %				
Motor Location ☐ Indoor ☒ Outdoor			75% Load 93.1 %				
Altitude Less than 1000 meter			100% Load 93.0 %				
Relative Humidity Less than 80 %			Power Factor(p.u)				
Ambient Temp. 40 deg. C (Max.)			50% Load 0.898				
Duty Type Continuous (S1)			75% Load 0.915				
Service Factor 1.15			100% Load 0.915				
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load 3570 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6213C3 / 6213C3	Full Load 15.0 kg·m				
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 150 %				
External Thrust Not applicable			Breakdown** 250 %				
Coupling Method ☒ Direct ☐ V-Belt			Moment of Inertia (J)				
Shaft Extension ☒ Single ☐ Double			Load(Max.) 5.750 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 0.628 kg·m²				
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	82 dB(A)				
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification Non-Hazardous			Permissible number of				
Type of Ex-Protection Not applicable			consecutive starts Cold 3 times				
Applicable Standard KS,IEC,NEMA MG1 Part30(Vpeak)			Hot 2 times				
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		kg		
			B5		kg		
			V1		TJ25PC50 390 kg		
			B3/B5		kg		
			Main T-Box Ass'y 3M-016881				
SPARE PARTS			REMARK High Efficiency				
			*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
			Date	DSND	CHKD	CHKD	APPD
			2010-05-28	R.G. KIM	O.J. KIM	J.H. KIM	K.J. KANG

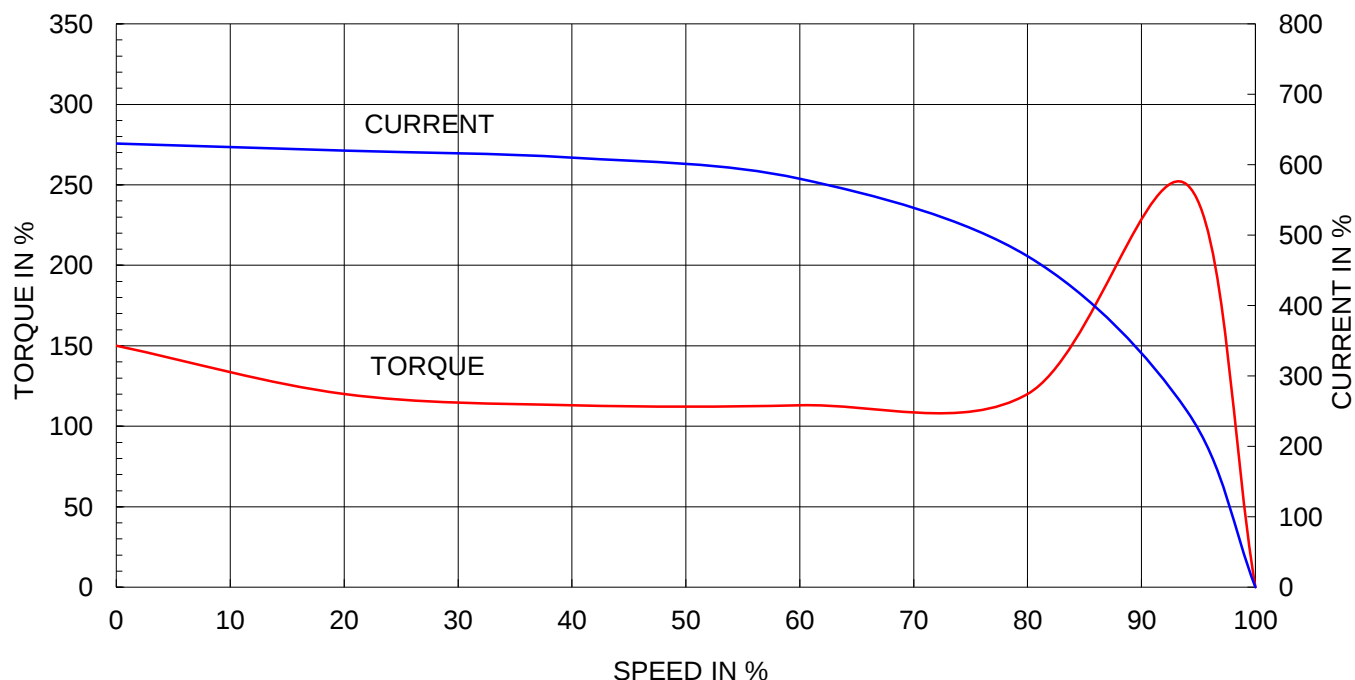
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed Motor, performance data is based on sine wave tests.
 ** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

HHI W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

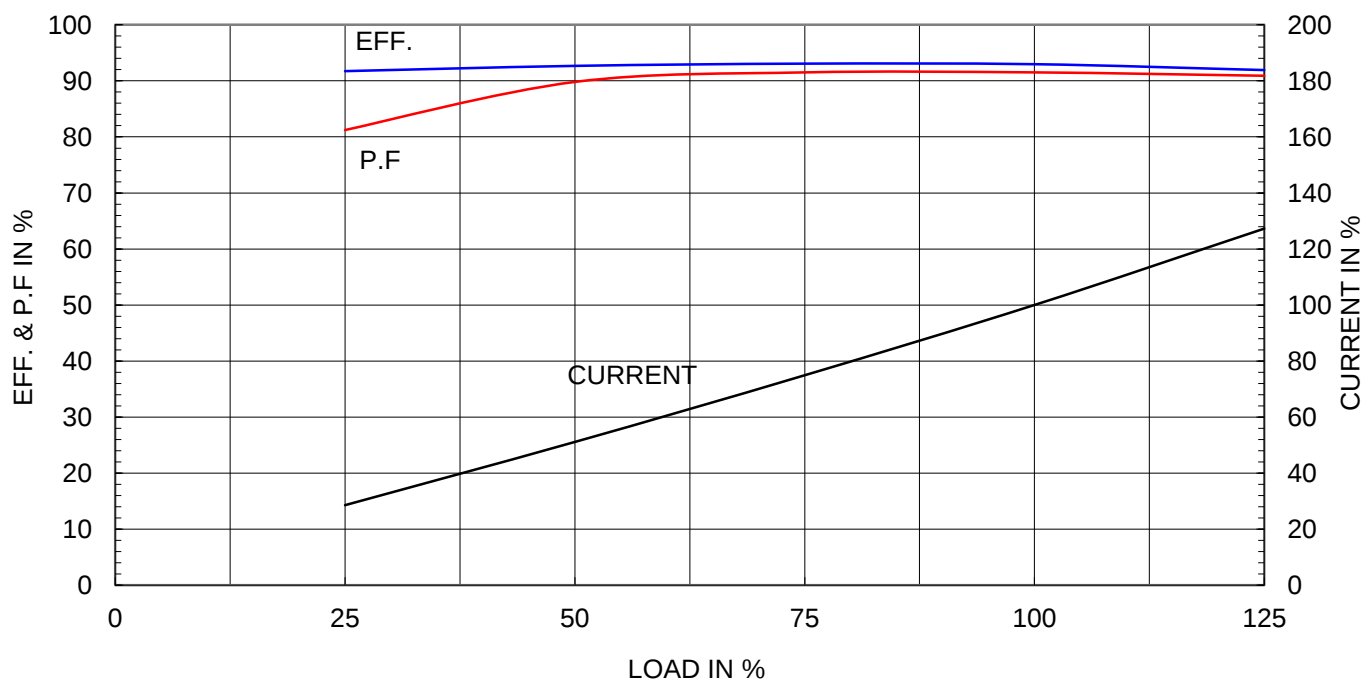
Type	:	HS
Full Load Torque	:	15.0 Kg.m
Motor moment of Inertia (J)	:	0.628 Kg.m ²
Load moment of Inertia (J)	:	5.750 Kg.m ²

55 kW		2 P		60 Hz	
Speed at Full Load :				3570 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	84.8A	98.2A	169.6A		

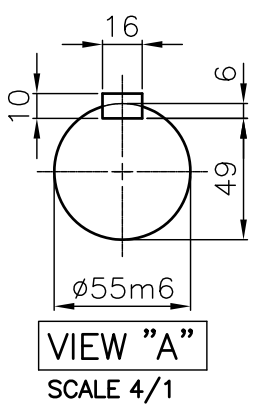
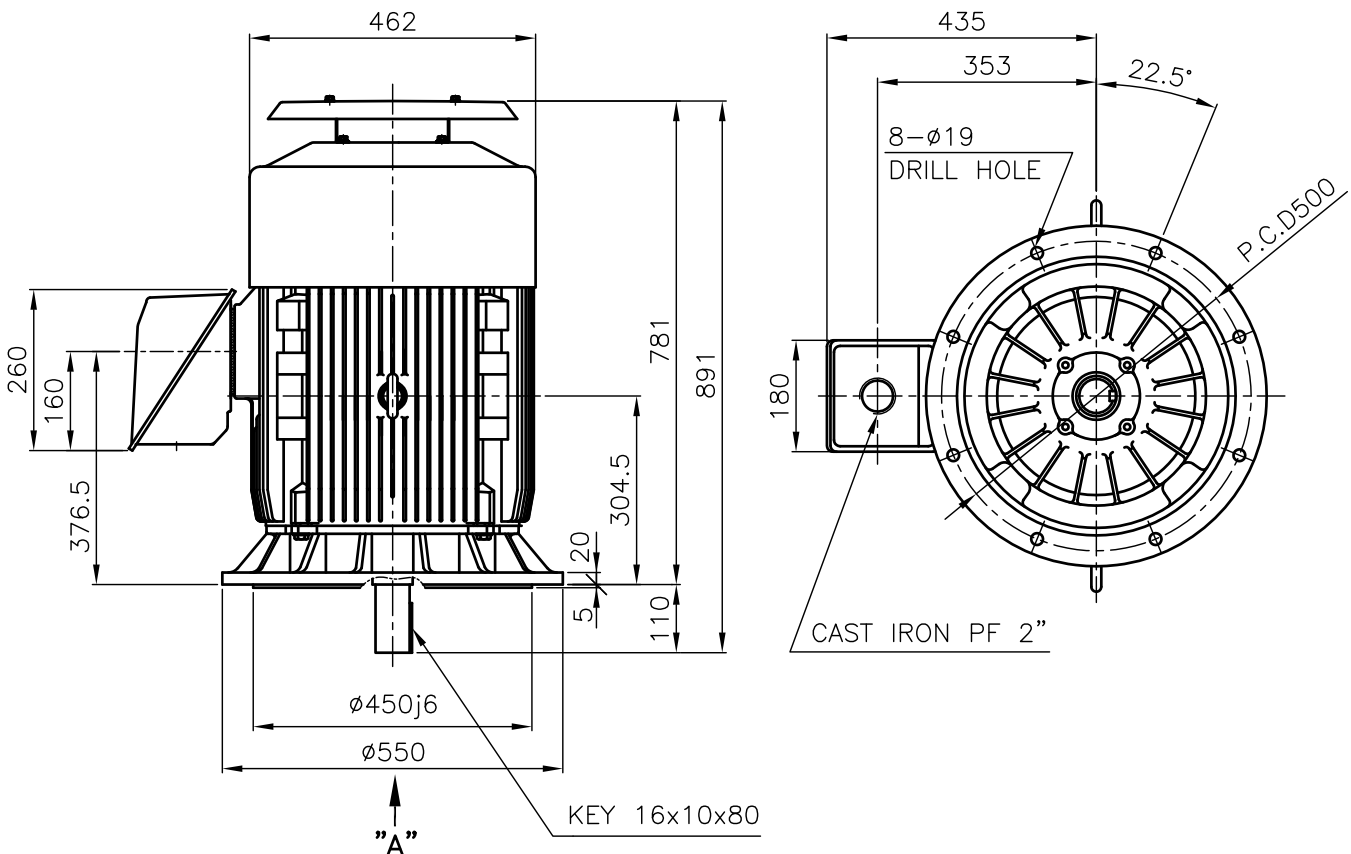
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



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



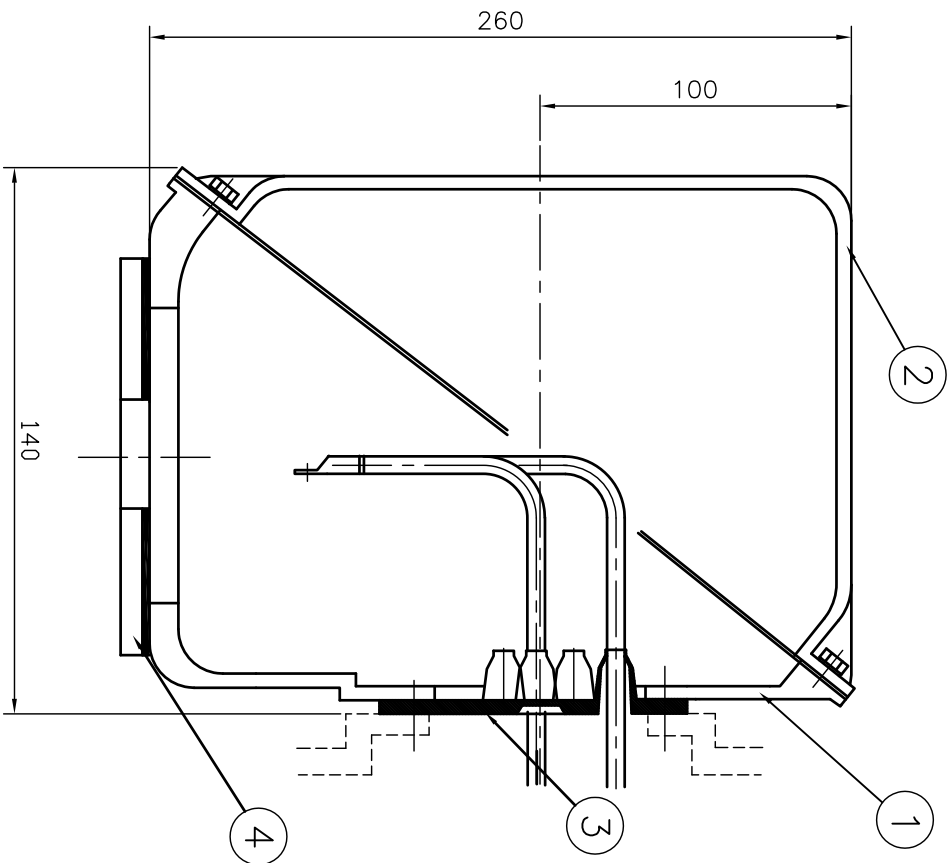
NOTE

1.TOLERANCE :

RABBET DIAMETER	ø450j6	±0.020
SHAFT DIAMETER	ø55m6	+0.030 +0.011
KEYWAY WIDTH	16P9	-0.018 -0.061
KEYWAY DEPTH	6	+0.2 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.225 TEFC
CHKD BY	KIM O.J.	SCALE	1/13	CAD PROJ \ FILE	
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle	MMSTD MTR/TJ25PC50	
DSND BY	KIM RYANG GYU	DATE	2007.03.23	TITLE OUTLINE THREE-PHASE INDUCTION MOTOR	
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				REF. NO	L3-SERIES
				DWG NO	TJ25PC50
				Sheet No.	of
				Revision No.	0



1	EARTH TERMINAL LUG								5
1	CABLE ENTRY PLATE								4
1	GASKET		NBR						3
1	TERMINAL BOX COVER		CAST IRON						2
1	TERMINAL BOX BODY		CAST IRON						1
QTY	DESCRIPTION		MATERIAL		DIMENSION		WEIGHT	PART NO.	REMARK NO.
APPD BY	김진오	UNIT	MM		SUBJECT		HILA6 - 200, 225Fr.		CAD PROJ & FILE & T-BOX-M \ 35016881
Q.P CHK	주영철	SCALE	NONE		TITLE		(CAST IRON)		
CHKD BY	김오철	PROJECN	3 244(3rd Angle)		TERMINAL BOX ASS'Y				
DSND BY	김헌택	DATE	92.06.05		REF. NO				Sheet No. of
 HYUNDAI ELECTRICAL ENGINEERING CO., LTD.					DWG NO	3M-016881		Revision No.	0
6	7	8	9						