

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-55/4		Number of Poles	4			
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	90.2 A 104.5 A 180.5 A		
Insulation Class	☒ F ☐ B ☐ H			Locked-rotor**	670 % 670 % 670 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 93.2 %				
Motor Location ☒ Indoor ☐ Outdoor			75% Load 94.2 %				
Altitude Less than 1000 meter			100% Load 94.1 %				
Relative Humidity Less than 80 %			Power Factor(p.u)				
Ambient Temp. 40 deg. C (Max.)			50% Load 0.742				
Duty Type Continuous (S1)			75% Load 0.819				
Service Factor 1.15			100% Load 0.850				
Mounting	☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1780 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6314C3 / 6213C3	Full Load 30.1 kg·m				
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 180 %				
External Thrust		Not applicable	Breakdown** 230 %				
Coupling Method		☒ Direct ☐ V-Belt	Moment of Inertia (J)				
Shaft Extension		☒ Single ☐ Double	Load(Max.) 27.600 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 0.950 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	TJ25BP51	390 kg		
			V1		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

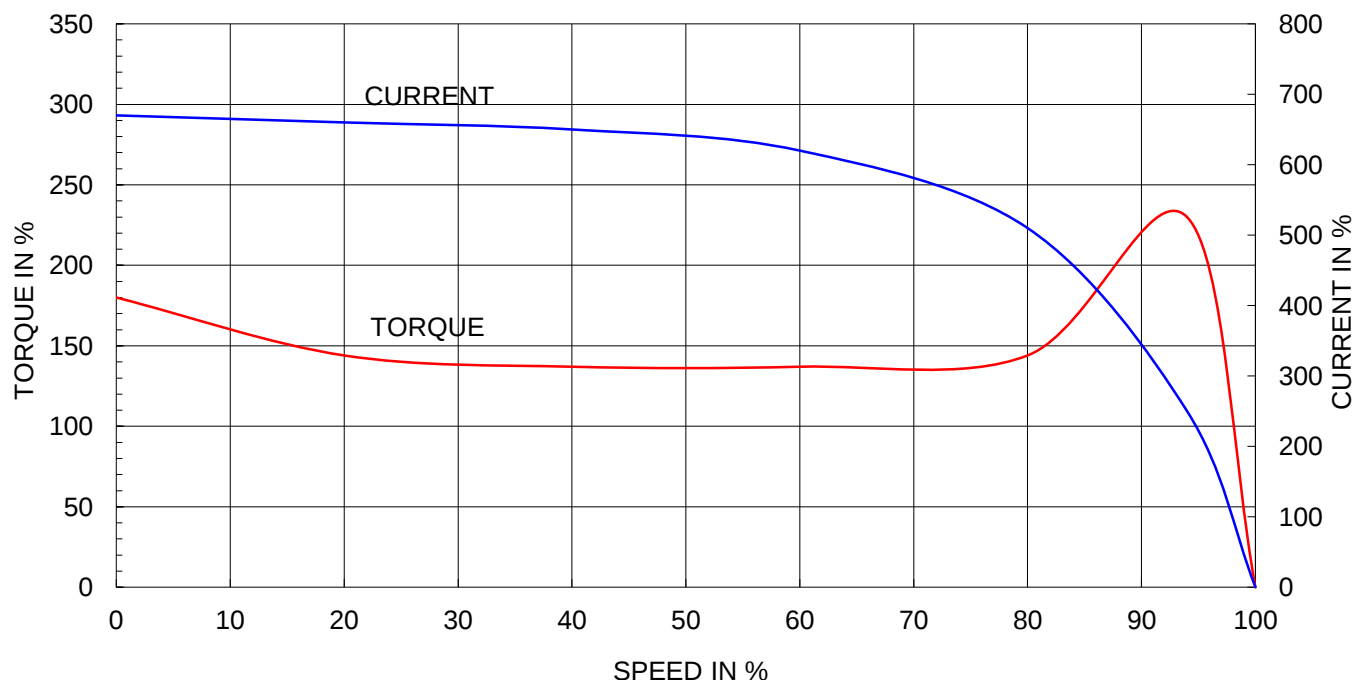
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed 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)

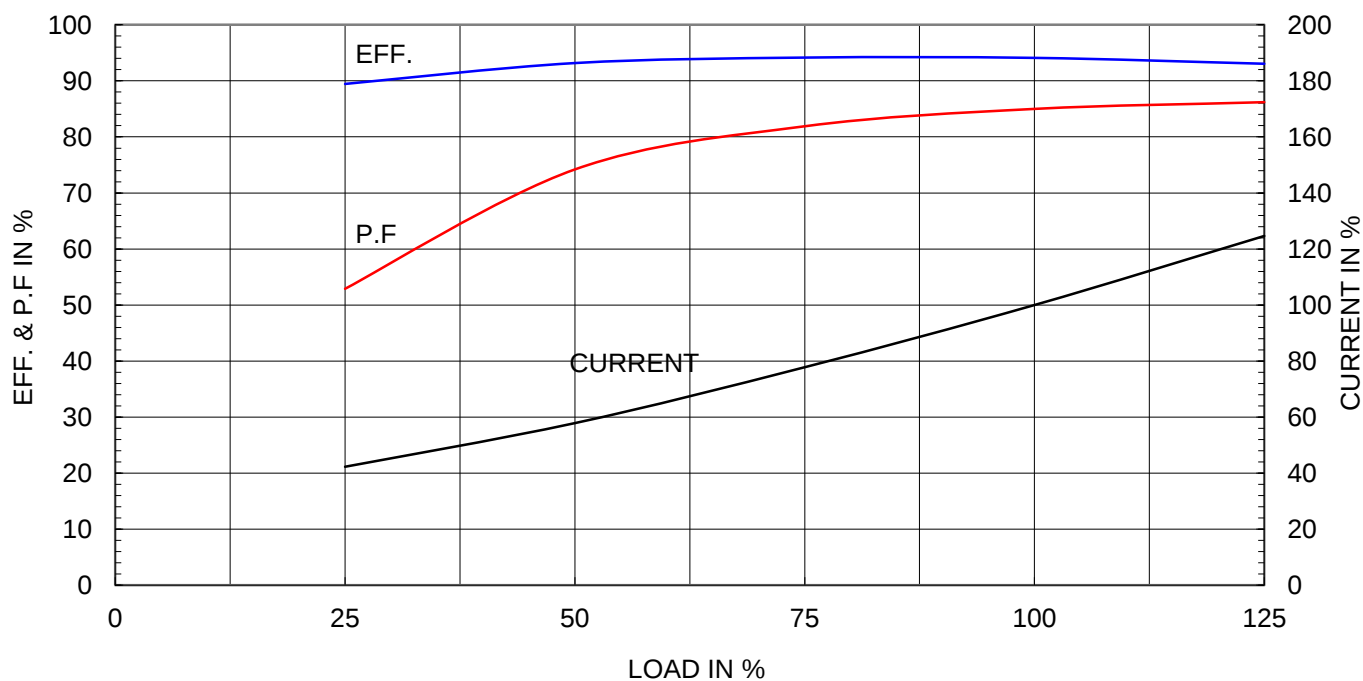
Type	:	HS
Full Load Torque	:	30.1 Kg.m
Motor moment of Inertia (J)	:	0.950 Kg.m ²
Load moment of Inertia (J)	:	27.600 Kg.m ²

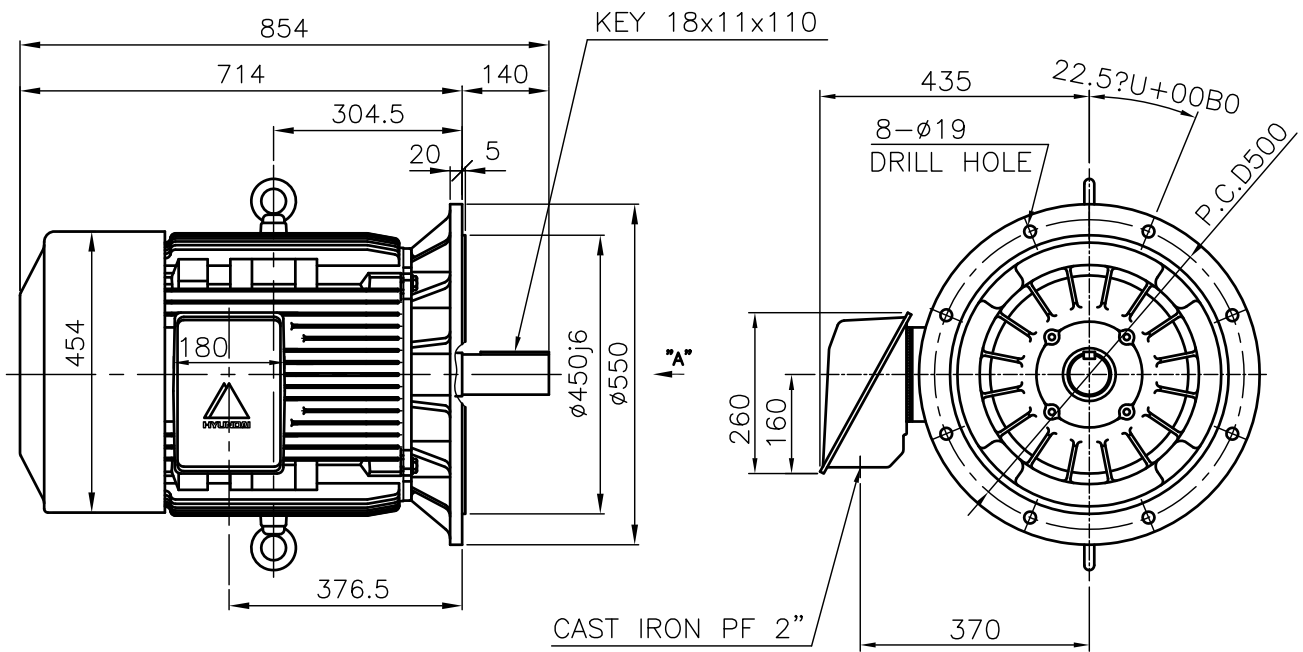
55 kW		4 P		60 Hz	
Speed at Full Load :				1780 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	90.2A	104.5A	180.5A		

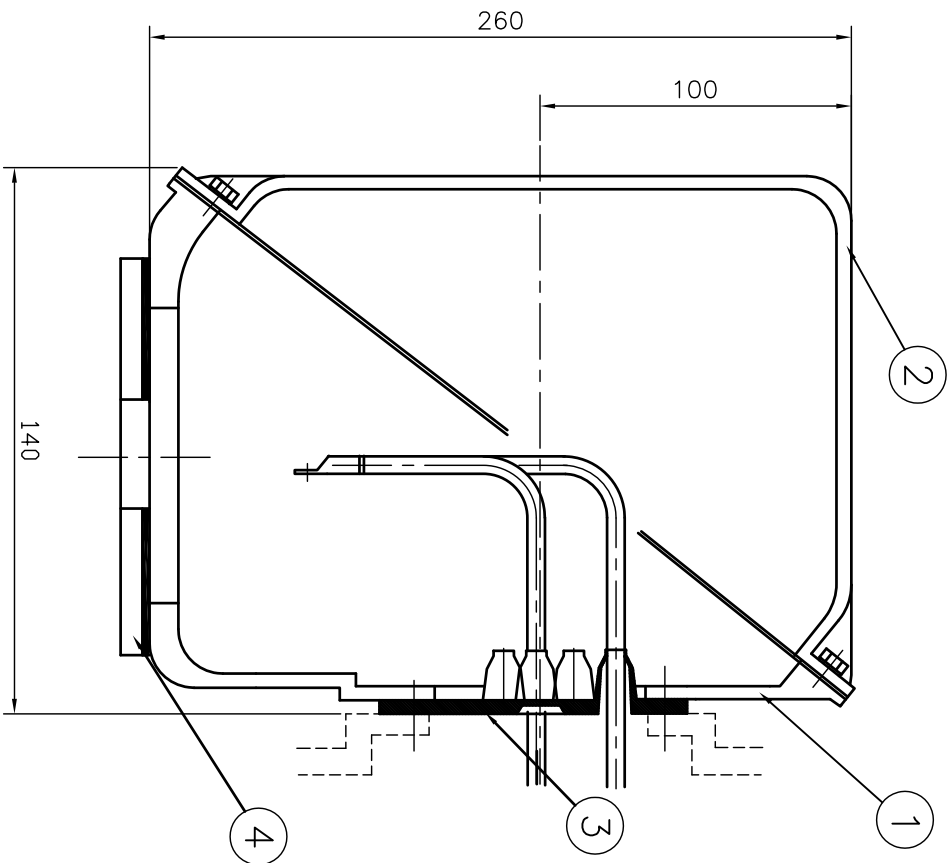
SPEED VS TORQUE & CURRENT CURVE



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												
 854, 714, 140, 304.5, 20, 5, 454, 180, 376.5, 435, 22.5?U+00B0, 8-ø19 DRILL HOLE, P.C.D500, 260, 160, 370, 18, 7, 58, ø65m6, KEY 18x11x110, ø450j6, ø550, CAST IRON PF 2"																		
NOTE 1.TOLERANCE : <table border="1"><tr><td>RABBET DIAMETER</td><td>ø450j6</td><td>±0.020</td></tr><tr><td>SHAFT DIAMETER</td><td>ø65m6</td><td>+0.030 +0.011</td></tr><tr><td>KEYWAY WIDTH</td><td>18P9</td><td>-0.018 -0.061</td></tr><tr><td>KEYWAY DEPTH</td><td>7</td><td>+0.2 0</td></tr></table> 2.The type (1)-"TNB, TDB" is for HHI's standard products and it can be changed for customer's requirements or detail designing. VIEW "Q" SCALE 4/1							RABBET DIAMETER	ø450j6	±0.020	SHAFT DIAMETER	ø65m6	+0.030 +0.011	KEYWAY WIDTH	18P9	-0.018 -0.061	KEYWAY DEPTH	7	+0.2 0
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						TEFC STANDARD												
APPD BY		KANG K.J.		UNIT		MM												
CHKD BY		KIM O.J.		SCALE		1/13												
CHKD BY		LEE N.D.		PROJEC'N		3rd Angle												
DSND BY		KIM RYANG GYU		DATE		2007.03.23												
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				SUBJECT		KS Fr.225 TEFC												
				TITLE		OUTLINE THREE-PHASE INDUCTION MOTOR												
				REF. NO		L3-Series												
				DWG NO		TJ25BP51												
				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	김 진 오	UNIT	MM		SUBJECT		HLA6 - 200, 225Fr.		CAD PROJ & FILE & T-BOX-M \ 35016881
Q.P CHK	조 영 결	SCALE	NONE		TITLE		(CAST IRON)		
CHKD BY	권 오 철	PROJEC'T	3 차(3rd Angle)				TERMINAL BOX ASS'Y		
DSND BY	김 현 태	DATE	92.06.05						
					REF. NO			Sheet No.	of
					DWG NO		3M-016881	Revision No.	0
 HYUNDAI ELECTRICAL ENGINEERING CO., LTD.									
6		7		8		9			