

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	250S		Rated Output	55 kW 75 HP		
Type	HLP-55/6		Number of Poles	6		
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage		
Method of Cooling	IC411(FC)		Starting Method*	<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y- Δ		
Rated Frequency	60 Hz		Rated Voltage	440 V 380 V 220 V		
Number of Phases	3		Current	Full Load 90.9 A 105.3 A 181.8 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	740 % 740 % 740 %		
Temp. Rise at full load (by resistance method)			Efficiency			
at 1.0 S.F 80 deg. C			50% Load 94.2 %			
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load 94.7 %			
Altitude	Less than 1000 meter		100% Load 94.5 %			
Relative Humidity	Less than 80 %		Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)		50% Load 0.732			
Duty Type	Continuous (S1)		75% Load 0.811			
Service Factor	1.15		100% Load 0.840			
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load 1185 r.p.m			
Bearing	Type	Anti-Friction	Torque			
	DE/N-DE	6316C3 / 6313C3	Full Load 45.2 kg·m			
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 150 %			
External Thrust	Not applicable		Breakdown** 250 %			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.) 112.550 kg·m²			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor 2.378 kg·m²			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing	73 dB(A)			
Application			Vibration 2.2 mm/sec (r.m.s)			
Area classification	Non-Hazardous		Permissible number of			
Type of Ex-Protection	Not applicable		Cold 3 times			
Applicable Standard	KS,IEC, NEMA MG1 Part30(Vpeak)		Hot 2 times			
ACCESSORIES			Paint	Munsell No. 4.4PB5.5/5.6(VL-451)		
	SUBMITTAL DRAWING					
	Outline Dimension Drawing \ Motor Weight(Approx.)					
	B3	LM-T1251B3PL001	505	kg		
	B5	LM-T1250B5PL001	545	kg		
	V1	LM-T1250V1PL001	545	kg		
	B3/B5	LM-T1251B4PL001	525	kg		
	Main T-Box Ass'y 3M-016882					
SPARE PARTS		REMARK Premium Efficiency				
		*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
		Date	DSND	CHKD	CHKD	APPD
		2015-09-05	R.G. KIM	-	O.J. KIM	S.H. GO

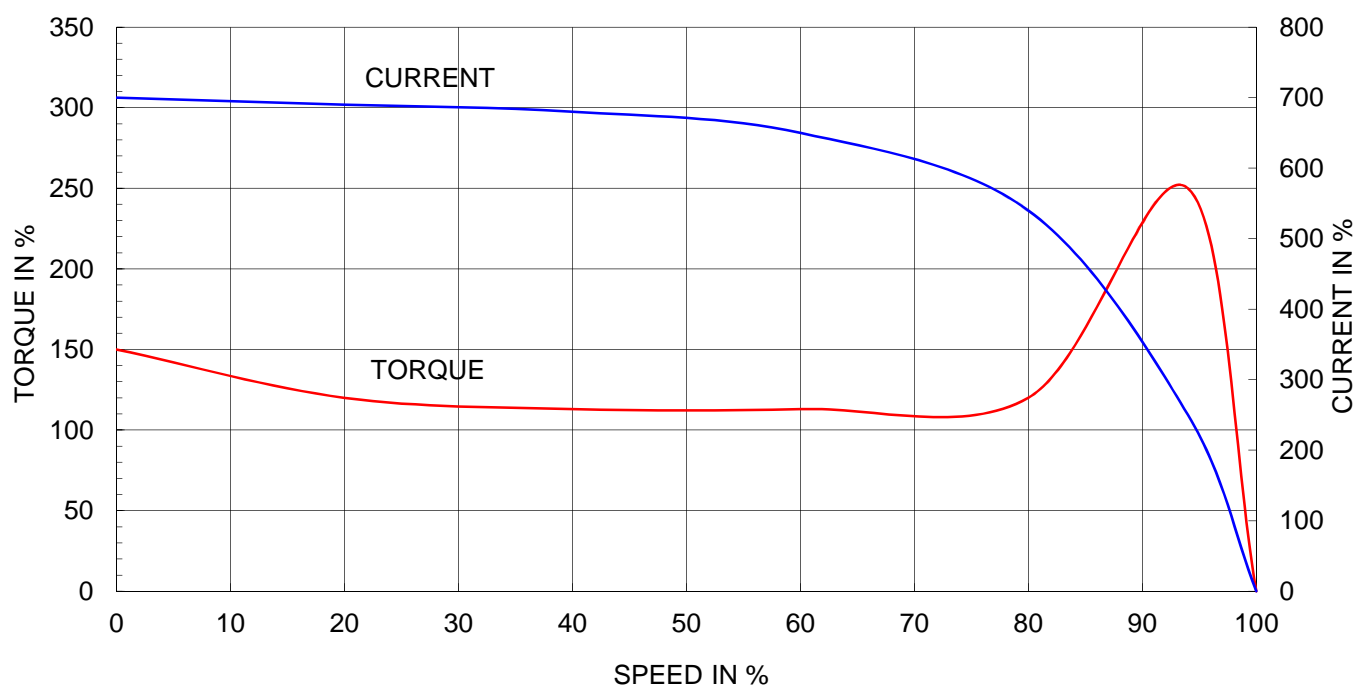
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

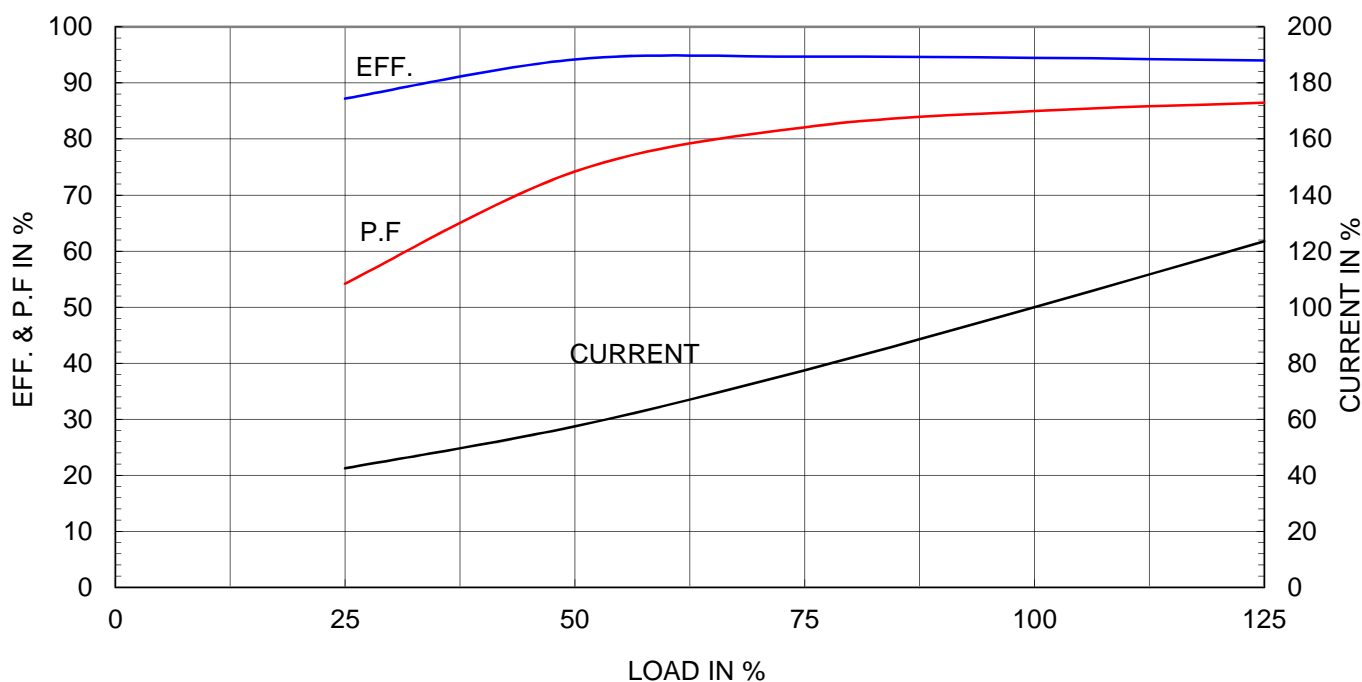
Type	:	HLP-55/6
Full Load Torque	:	45.2 Kg.m
Motor moment of Inertia (J)	:	2.378 Kg.m ²
Load moment of Inertia (J)	:	112.550 Kg.m ²


55 kW		6 P		60 Hz	
Speed at Full Load :				1185 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	89.8A	104.0A	179.7A		

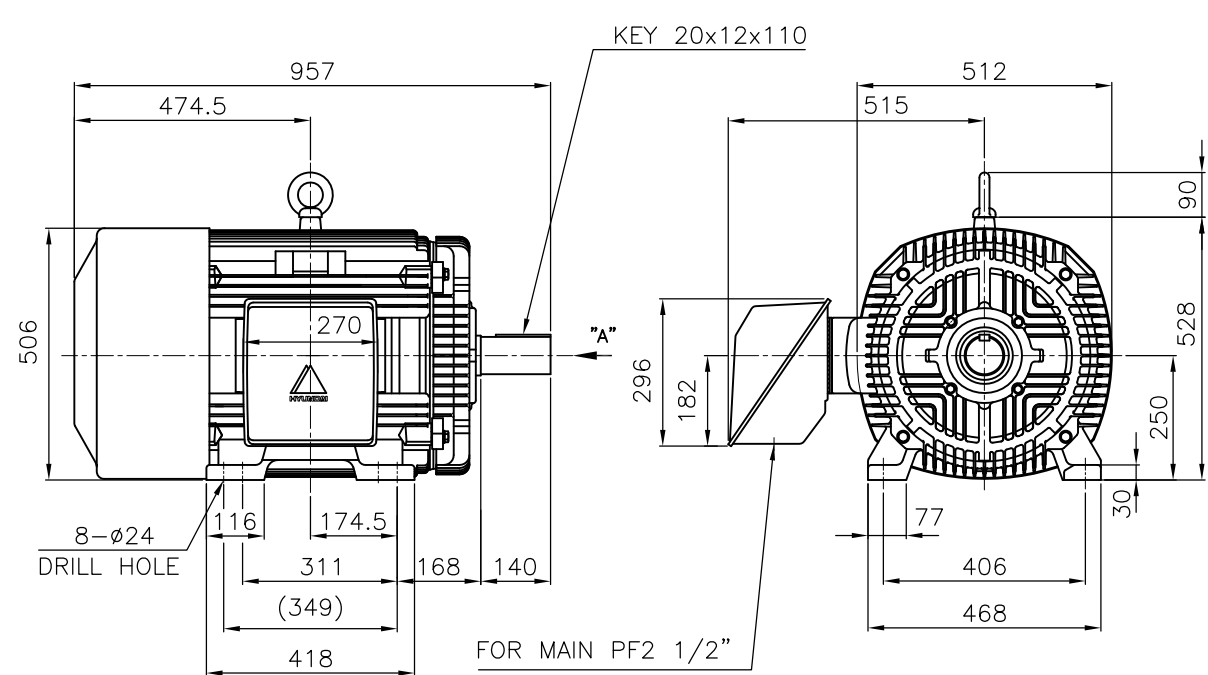
SPEED VS TORQUE & CURRENT CURVE



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	

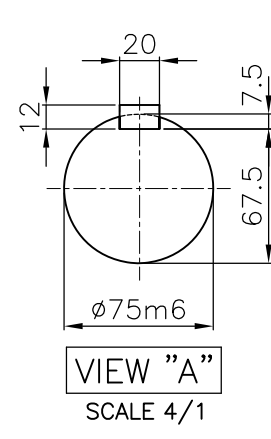



NOTE

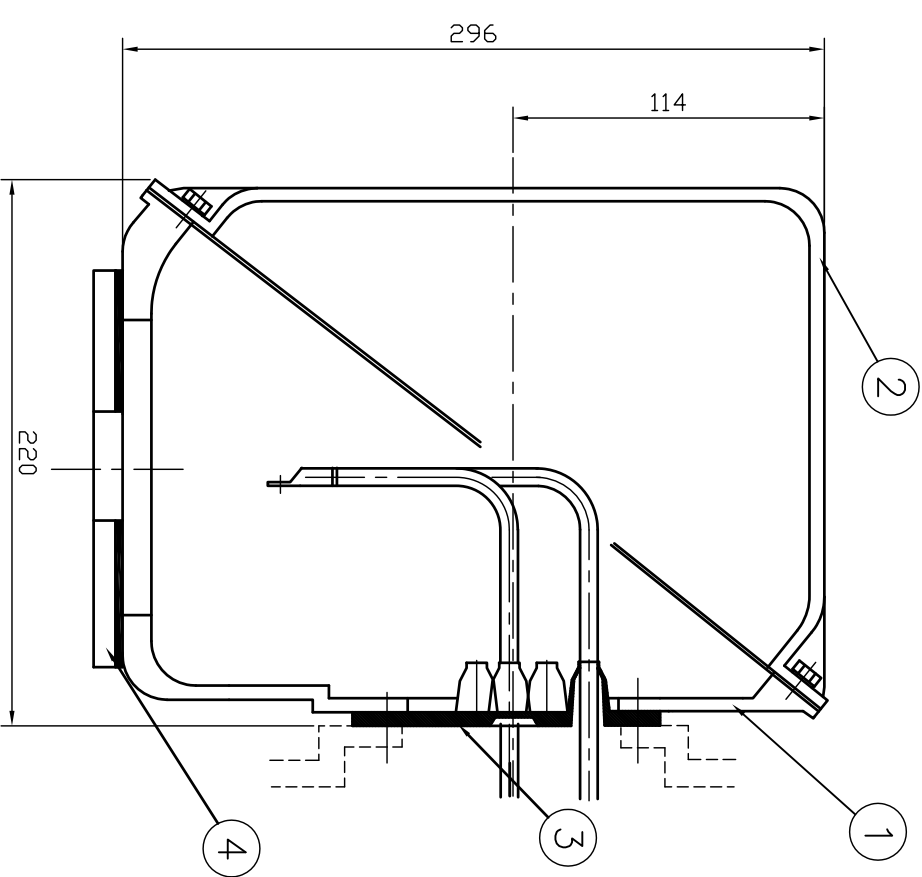
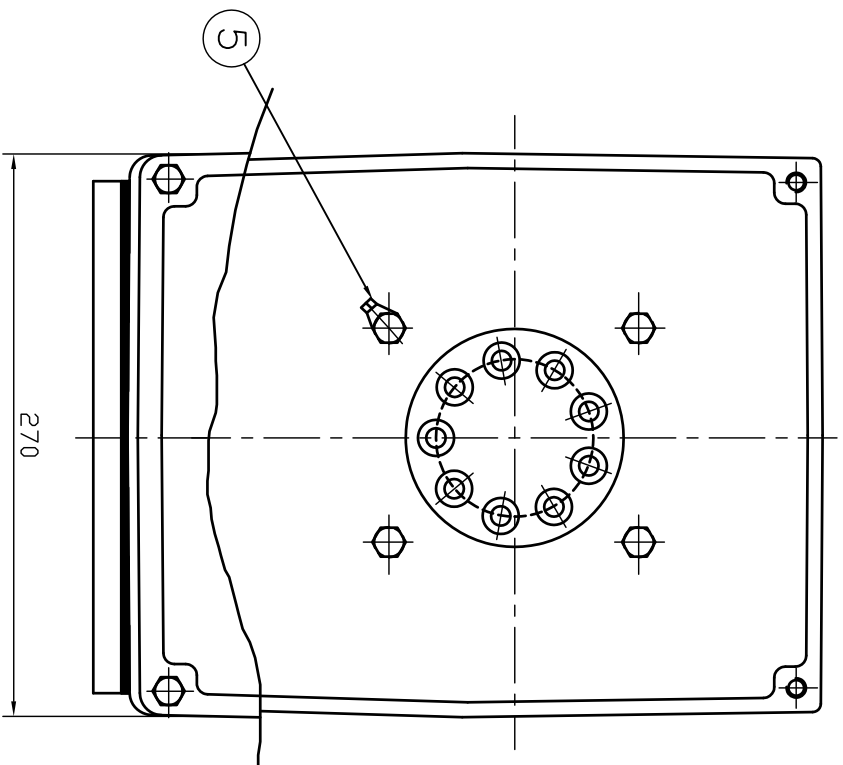
1.TOLERANCE :

CENTER HEIGHT	250 ⁰ _{-0.5}
BASE HILE	ø24 ^{+0.43} ₀
SHAFT DIAMETER	ø75 ^{+0.030} _{+0.011}
KEYWAY WIDTH	20 ^{-0.022} _{-0.074}
KEYWAY DEPTH	7.5 ^{+0.2} ₀
KEY WIDTH	20 ⁰ _{-0.052}
KEY HEIGHT	12 ⁰ _{-0.110}

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.250S–4P TEFC
CHKD BY	KIM O.J.	SCALE	1/15	TITLE	CAD PROJ \ FILE
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle		MMSTD MTR/TJ5SAP51
DSND BY	KIM RYANG GYU	DATE	2008.01.18		
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				OUTLINE THREE–PHASE INDUCTION MOTOR	
				REF. NO	L2–Series
				DWG NO	LM–T1251B3PL001
				Sheet No.	of
				Revision No.	0



REV	DATE	CONTENTS	REV'D BY	CHK'D BY	Q.P. CHK	APP'D BY
1						

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
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
APP'D BY	김진오	UNIT	MM			CAD PROJ. & FILE
Q.P. CHK	주영걸	SCALE	NONE			T-BOX-M \ 38016882
CHK'D BY	권오철	PROJEC'T	3 권(3rd Angle)			
DSND BY	김헌태	DATE	92.06.05			
				SUBJECT	HLA6 - 250,280Fr.	
				TITLE	(CAST IRON)	
				TERMINAL BOX ASS'Y		
				REF. NO		Sheet No. of
				DWG NO	3M-016882	Revision No.

