

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	280L		Rated Output	132 kW 175 HP			
Type	HS-132/6		Number of Poles	6			
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	209.6 A 242.7 A 419.1 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	650 %	650 % 650 %		
Temp. Rise at full load (by resistance method)	at 1.0 S.F 80 deg. C		Efficiency	50% Load 95.0 %			
Motor Location	☒ Indoor ☐ Outdoor			75% Load 95.1 %			
Altitude	Less than 1000 meter			100% Load 95.0 %			
Relative Humidity	Less than 80 %		Power Factor(p.u)	50% Load 0.750			
Ambient Temp.	40 deg. C (Max.)			75% Load 0.851			
Duty Type	Continuous (S1)			100% Load 0.870			
Service Factor	1.15		Speed at Full Load	1185 r.p.m			
Mounting	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Torque	Full Load 108.5 kg·m			
Bearing	Type	Anti-Friction		Locked-rotor** 180 %			
	DE/N-DE	6318C3 / 6316C3		Breakdown** 230 %			
	Lubricant	Grease(Gadus S2 V 100 2)	Moment of Inertia (J)	Load(Max.) 224.250 kg·m²			
External Thrust	Not applicable			Motor 5.753 kg·m²			
Coupling Method	☒ Direct ☐ V-Belt		Sound Pressure Level (No-load & mean value at 1m from motor)	80 dB(A)			
Shaft Extension	☒ Single ☐ Double		Vibration	2.2 mm/sec (r.m.s)			
Terminal	Main	☐ Steel ☒ Cast Iron	Permissible number of consecutive starts	Cold	3 times		
Box	Aux.	☐ Yes ☒ No		Hot	2 times		
	Location	Refer to Outline Drawing	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
Application			SUBMITTAL DRAWING				
Area classification	Non-Hazardous		Outline Dimension Drawing \ Motor Weight(Approx.)				
Type of Ex-Protection	Not applicable			B3	TJ8LAP51 890 kg		
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)			B5	TJ8LBP51 960 kg		
ACCESSORIES				V1	TJ8LPP51 960 kg		
				B3/B5	TJ8LCP51 925 kg		
			Main T-Box Ass'y			3M-016882	
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

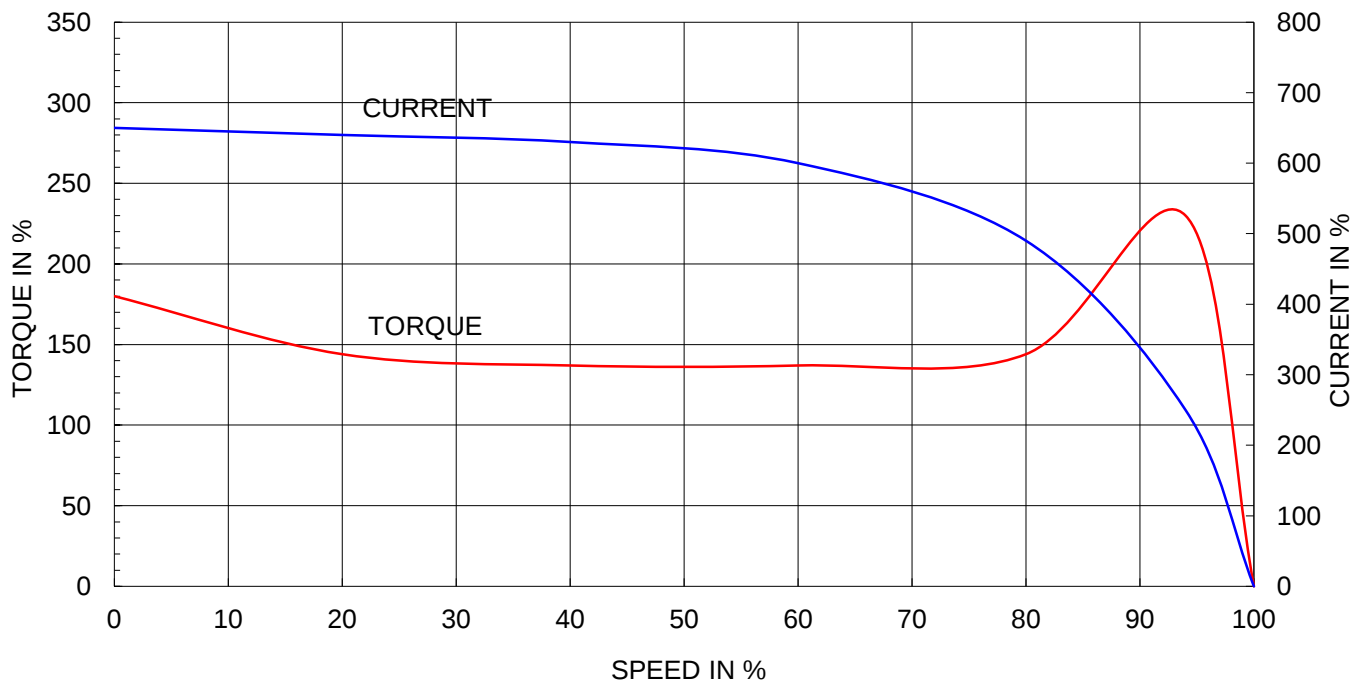
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

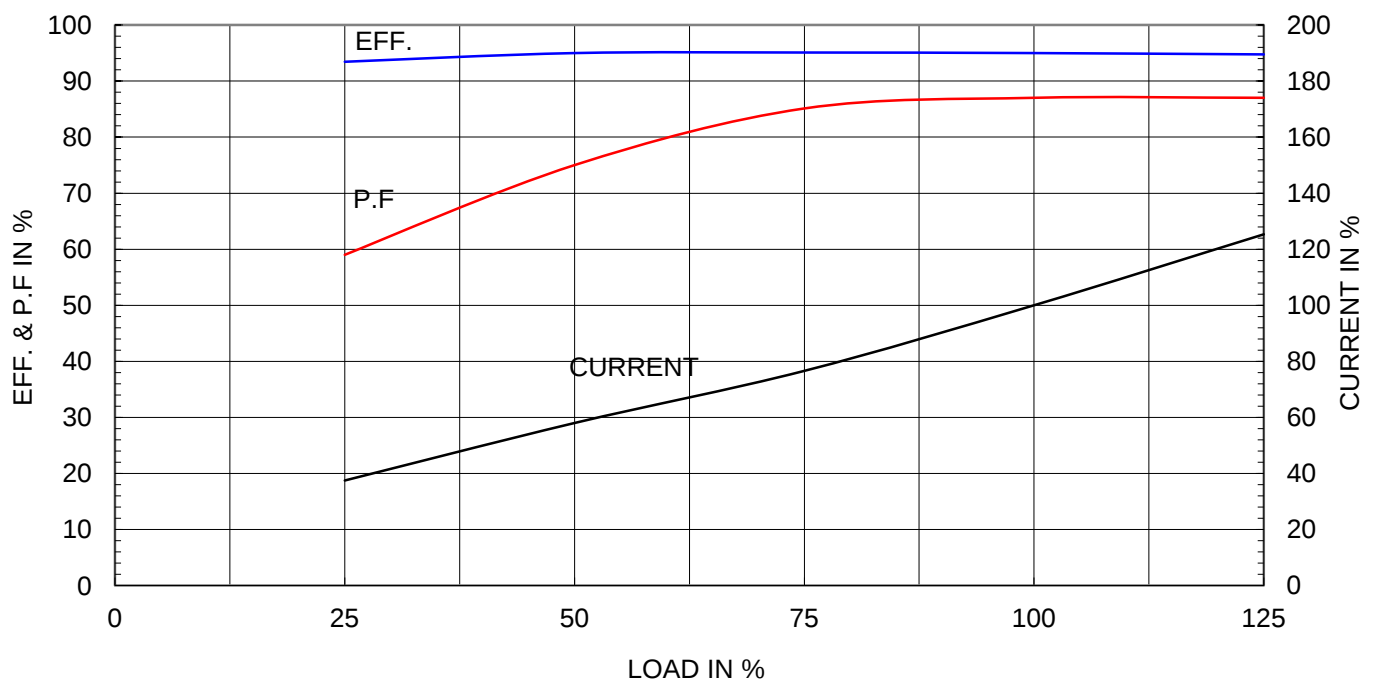
Type	:	HS
Full Load Torque	:	108.5 Kg.m
Motor moment of Inertia (J)	:	5.753 Kg.m ²
Load moment of Inertia (J)	:	224.250 Kg.m ²

132 kW		6 P		60 Hz	
Speed at Full Load :				1185 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	209.6A	242.7A	419.1A		

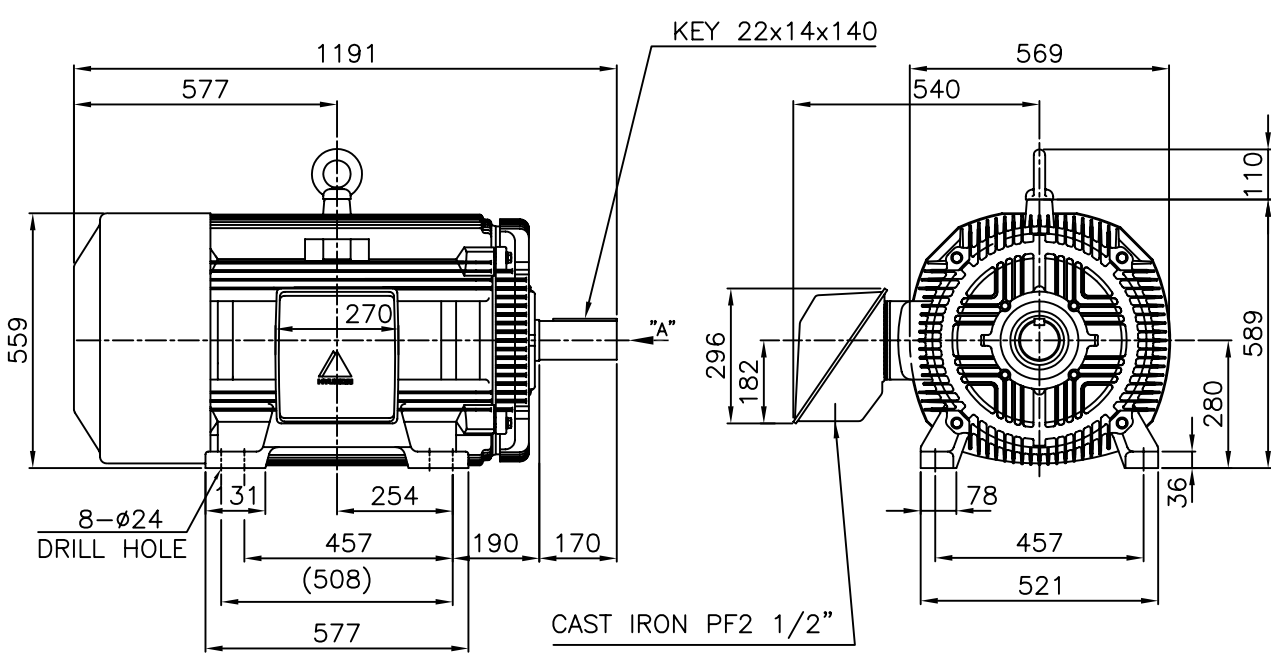
SPEED VS TORQUE & CURRENT CURVE



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

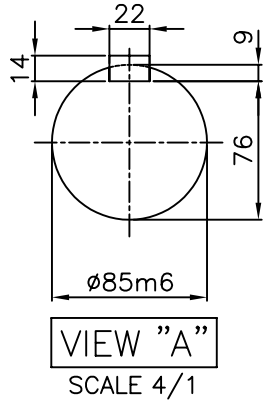


NOTE

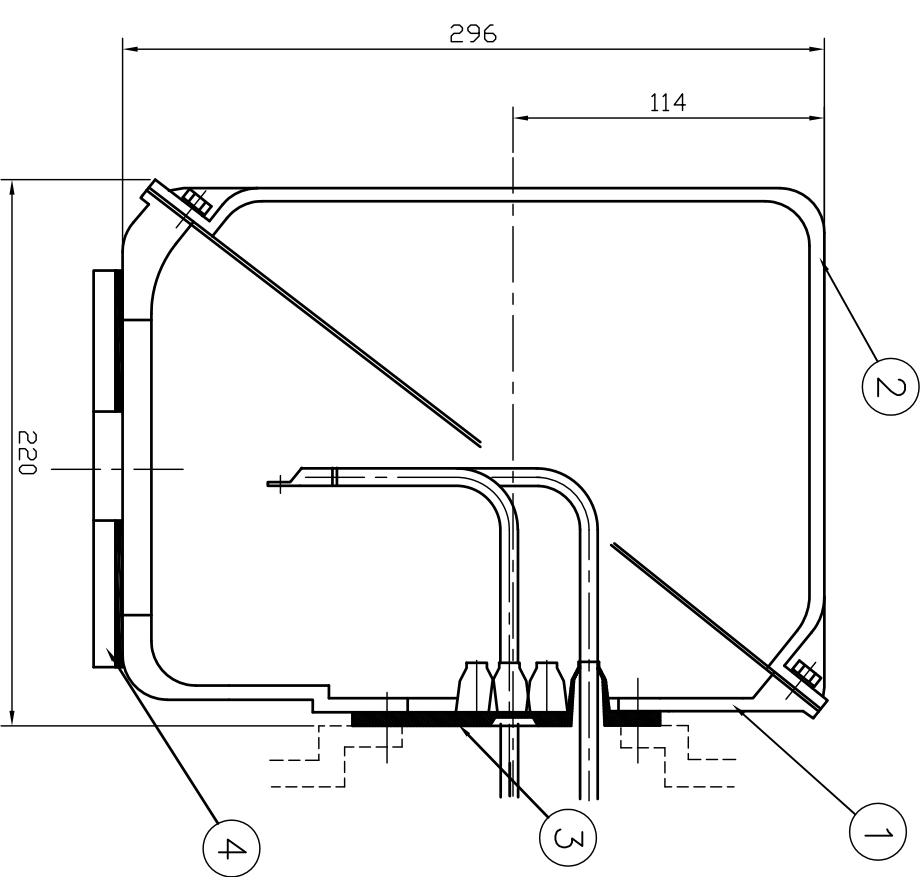
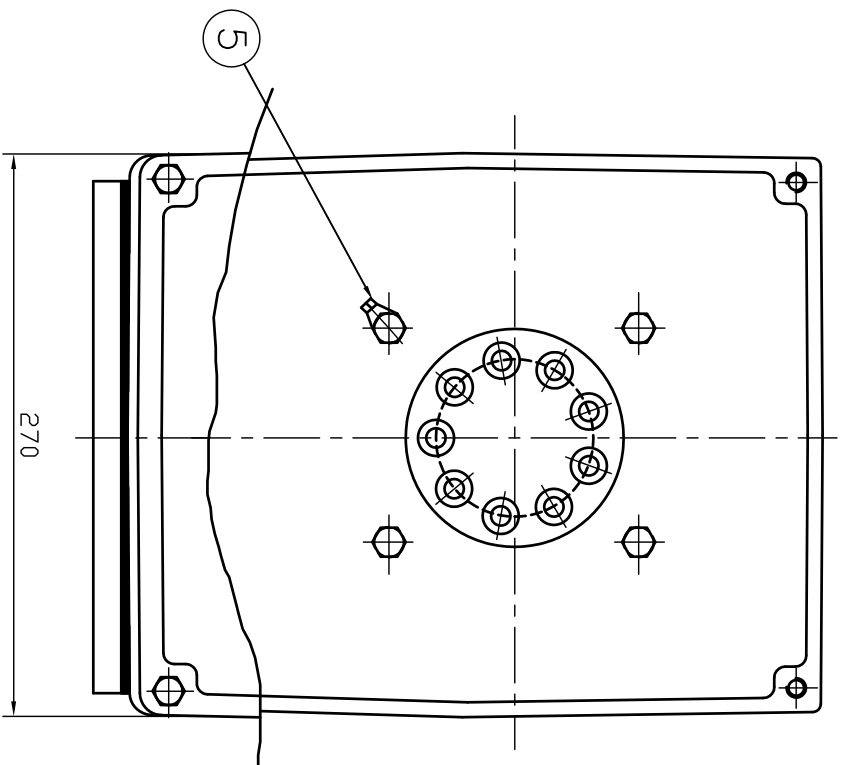
1.TOLERANCE :

CENTER HEIGHT	280 ⁰ _{-1.0}
BASE HOLE	ø24 ^{+0.43} ₀
SHAFT DIAMETER	ø85 ^{+0.035} _{+0.013}
KEYWAY WIDTH	22 ^{-0.022} _{-0.074}
KEYWAY DEPTH	9 ^{+0.2} ₀
KEY WIDTH	22 ⁰ _{-0.052}
KEY HEIGHT	14 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.280L TEFC
CHKD BY	KIM O.J.	SCALE	1/17	CAD PROJ \ FILE	
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle	MMSTDMTR/TJ8LAP51	
DSND BY	KIM RYANG GYU	DATE	2007.03.23	TITLE	
				OUTLINE	
				THREE-PHASE INDUCTION MOTOR	
				REF. NO	L2-Series
				DWG NO	TJ8LAP51
				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
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK NO.
APP'D BY	김진오	UNIT	MM	SUBJECT	HLA6 - 250,280Fr.	CAD PROJ. & FILE & T-BOX-M \ 38016882
Q.P. CHK	주영걸	SCALE	NONE	TITLE	(CAST IRON)	
CHK'D BY	권오철	PROJEC'T	3 & 4 (3rd Angle)	TERMINAL BOX ASS'Y		
DSND BY	김현태	DATE	92.06.05	REF. NO		Sheet No. of
				DWG NO	3M-016882	Revision No.

