

Model No. or RFQ No.		Item No.	Rev. No. [ 0 ]	
Project Name		Project No.	Quantity sets	
GENERAL SPECIFICATION		PERFORMANCE DATA		
Frame Size	280M	Rated Output	132 kW 175 HP	
Type	HS-132/2	Number of Poles	2	
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     200.3 A     231.9 A     400.6 A	
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	700 %     700 %     700 %
Temp. Rise at full load (by resistance method)		Efficiency		
at 1.0 S.F	80 deg. C	50% Load	92.8 %	
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load	94.1 %	
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	0.912	
Duty Type	Continuous ( S1 )	75% Load	0.915	
Service Factor	1.15	100% Load	0.915	
Mounting	<input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	3570 r.p.m	
Bearing	Type	Anti-Friction		
	DE/N-DE	6314C3 / 6314C3		
	Lubricant	Grease(Gadus S2 V 100 2)		
External Thrust	Not applicable			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Torque		
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	Full Load	36.0 kg·m	
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Locked-rotor**	150 %
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Breakdown**	250 %
	Location	Refer to Outline Drawing		
Application		Moment of Inertia (J)		
Area classification	Non-Hazardous	Load(Max.)	14.375 kg·m <sup>2</sup>	
Type of Ex-Protection	Not applicable	Motor	2.400 kg·m <sup>2</sup>	
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)	Sound Pressure Level (No-load & mean value at 1m from motor)		
ACCESSORIES		SUBMITTAL DRAWING		
		Outline Dimension Drawing \ Motor Weight(Approx.)		
		B3	kg	
		B5	TJ80BC50 870 kg	
		V1	kg	
B3/B5	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.

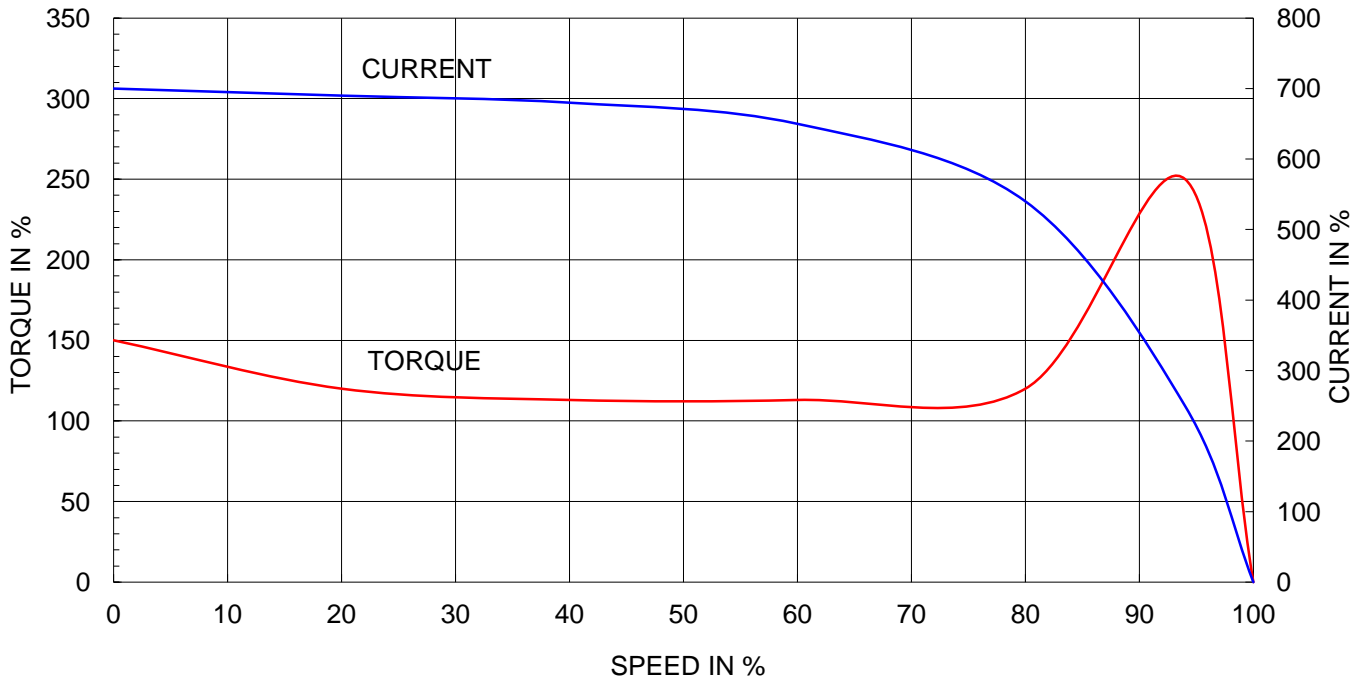
\* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

\*\* 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.

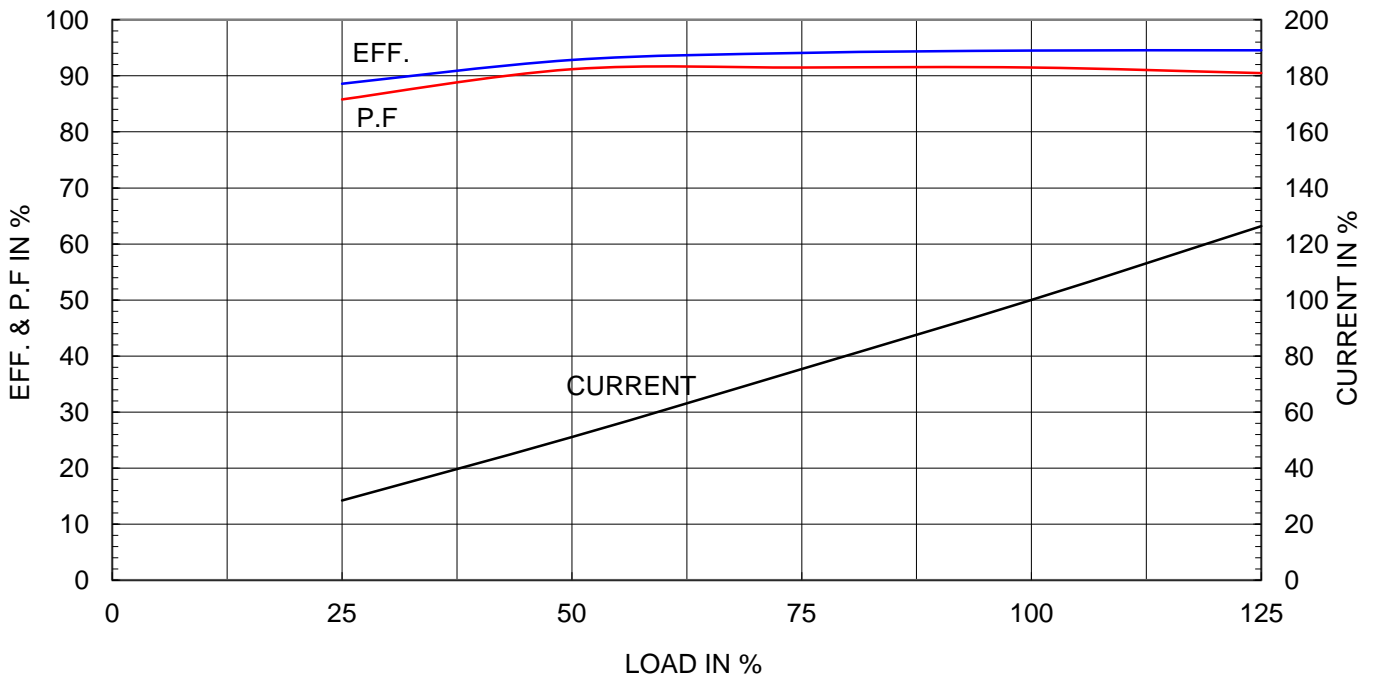
Type	:	HS
Full Load Torque	:	36.0 Kg.m
Motor moment of Inertia (J)	:	2.400 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	14.375 Kg.m <sup>2</sup>


132 kW	2 P	60 Hz	
Speed at Full Load :			
3570 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	200.3A	231.9A	400.6A

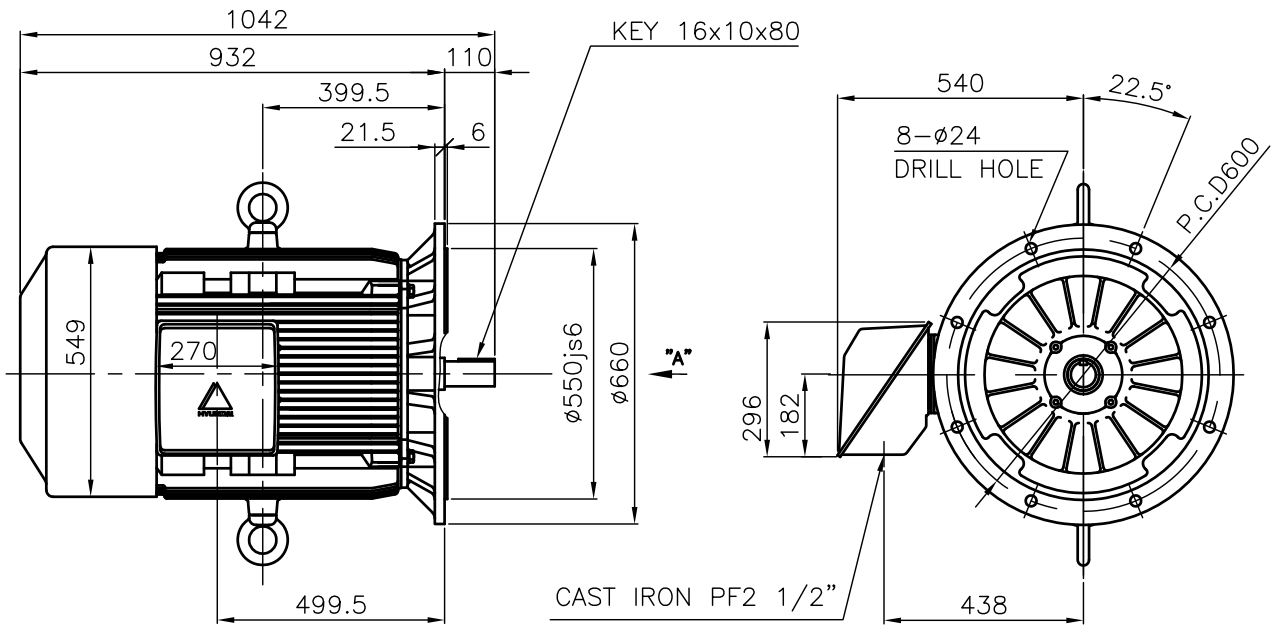
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



1		2		3		4	
 <b>HYUNDAI</b> HEAVY INDUSTRIES CO., LTD.		<h1>TEFC</h1> <h2>THREE PHASE INDUCTION MOTOR</h2>				<b>TYPE</b> (1) TNB , TDB CAST IRON FRAME	

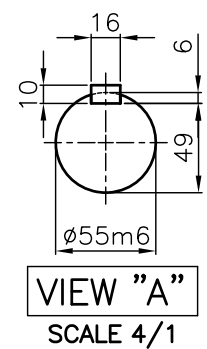



**NOTE**

1.TOLERANCE :

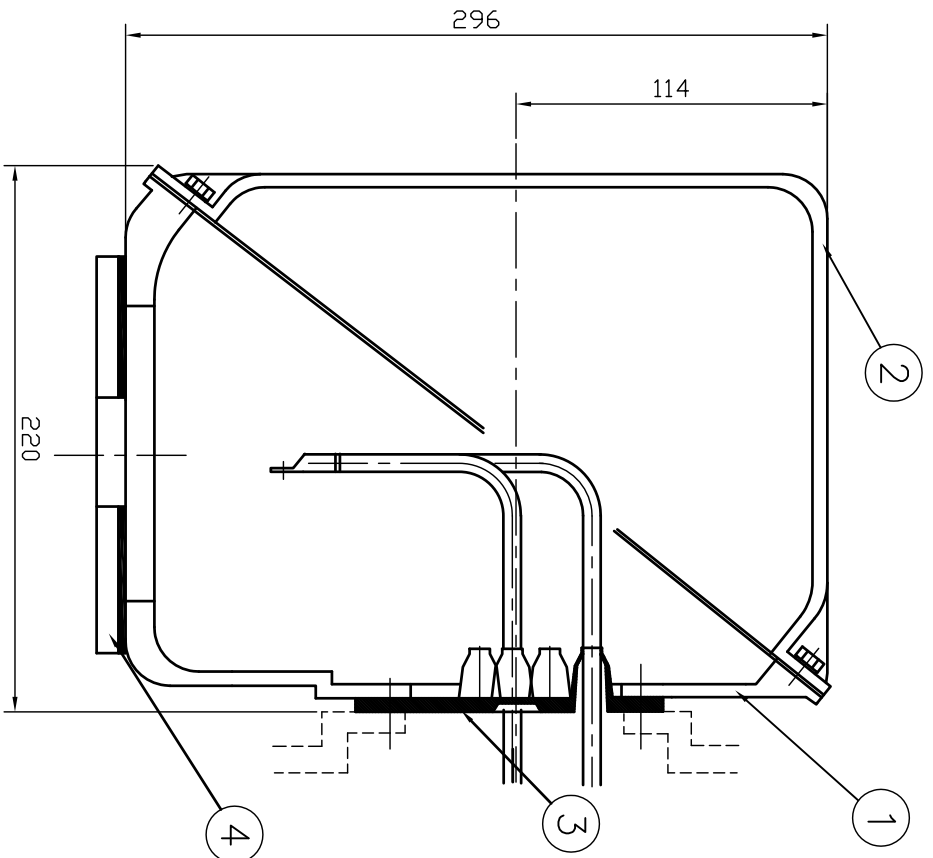
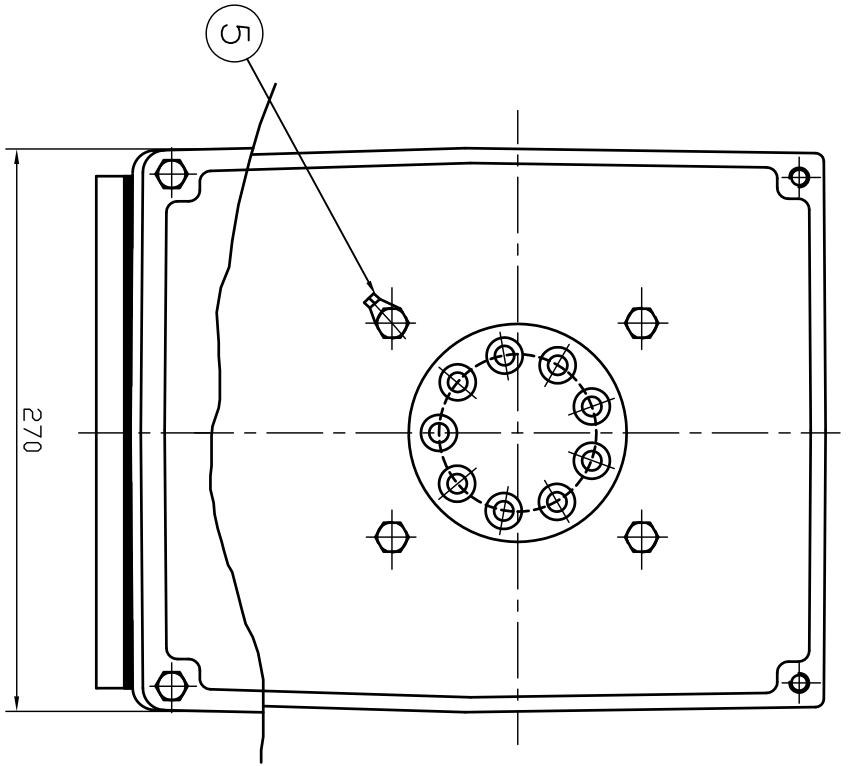
RABBET DIAMETER	ø550js6	±0.022
SHAFT DIAMETER	ø55m6	+0.030 +0.011
KEYWAY WIDTH	16P9	-0.018 -0.061
KEYWAY DEPTH	6	+0.2 0

2.The type (1)-"TNB , TDB" is for HHI's standard products and it can be changed for customer's requirements or detail designing.



APPD BY KANG K.J. UNIT MM				SUBJECT KS Fr.280 TEFC		TEFC STANDARD	
CHKD BY KIM O.J. SCALE 1/17				TITLE		CAD PROJ \ FILE	
CHKD BY LEE N.D. PROJEC'N 3rd Angle				<b>OUTLINE</b> THREE-PHASE INDUCTION MOTOR			
DSND BY KIM RYANG GYU DATE 2007.03.23							
 <b>HYUNDAI</b> HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				REF. NO	L3-Series	Sheet No.	of
				DWG NO	TJ80BC50	Revision No.	0

본 도면은 현대중전기(주) 재산이므로 허가없이  
복사할 수 없음 (도면취급 시 유의하시기 바람.)



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

1	EARTH TERMINAL LUG								
1	CABLE ENTRY PLATE								
1	GASKET	NBR							
1	TERMINAL BOX COVER	CAST IRON							
1	TERMINAL BOX BODY	CAST IRON							
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.		
APP'D BY	권진오	UNIT	MM						
Q.P. CHK	주영철	SCALE	NONE						
CHK'D BY	권오철	PROJEC'N	3 레벨(3rd Angle)						
DSND BY	김헌태	DATE	92.06.05						
SUBJECT		TITLE		REF. NO.		DWG NO.		Sheet No. of	
HUA6 - 250,280Fr.		(CAST IRON) TERMINAL BOX ASS'Y		3M-016882		3M-016882		Revision No.	
		CAD PROJ. FILE							
		T-BOX-M \ 38016882							