

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	132S		Rated Output	5.5 kW 7.5 HP	
Type	HS		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 10.1 A	11.7 A 20.3 A
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	630 %	630 % 630 %
Temp. Rise at full load (by resistance method)	at 1.0 S.F 80 deg. C		Efficiency	50% Load 89.0 %	
Motor Location	☒ Indoor ☐ Outdoor			75% Load 89.8 %	
Altitude	Less than 1000 meter			100% Load 89.5 %	
Relative Humidity	Less than 80 %		Power Factor(p.u)	50% Load 0.663	
Ambient Temp.	40 deg. C (Max.)			75% Load 0.750	
Duty Type	Continuos (S1)			100% Load 0.795	
Service Factor	1.15		Speed at Full Load	1760 r.p.m	
Mounting	☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Torque	Full Load 3.0 kg·m	
Bearing	Type	Anti-Friction		Locked-rotor** 190 %	
	DE/N-DE	6208ZZC3 / 6208ZZC3		Breakdown** 230 %	
	Lubricant	Grease(Polyrex-EM)	Moment of Inertia (J)	Load(Max.) 5.500 kg·m²	
External Thrust	Not applicable			Motor 0.024 kg·m²	
Coupling Method	☒ Direct ☐ V-Belt		Sound Pressure Level (No-load & mean value at 1m from motor)	69 dB(A)	
Shaft Extension	☒ Single ☐ Double		Vibration	1.6 mm/sec (r.m.s)	
Terminal	Main	☐ Steel ☒ Cast Iron	Permissible number of consecutive starts	Cold 3 times	Hot 2 times
Box	Aux.	☐ Yes ☒ No	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
	Location	Refer to Outline Drawing	SUBMITTAL DRAWING		
Application			Outline Dimension Drawing \ Motor Weight(Approx.)		
Area classification	Non-Hazardous		B3		kg
Type of Ex-Protection	Not applicable		B5	227B2020AB03	69 kg
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		V1		kg
ACCESSORIES			B3/B5		kg
			Main T-Box Ass'y	227B8004CB	
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	
2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM	

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.

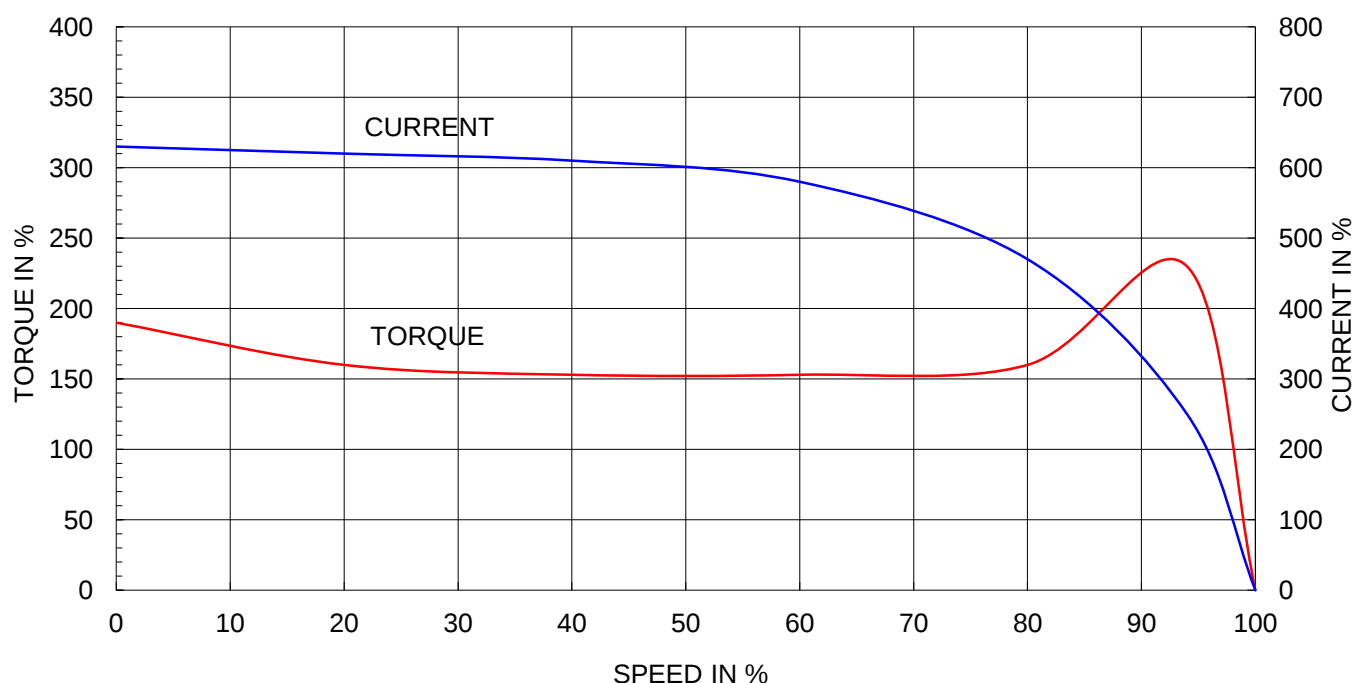
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

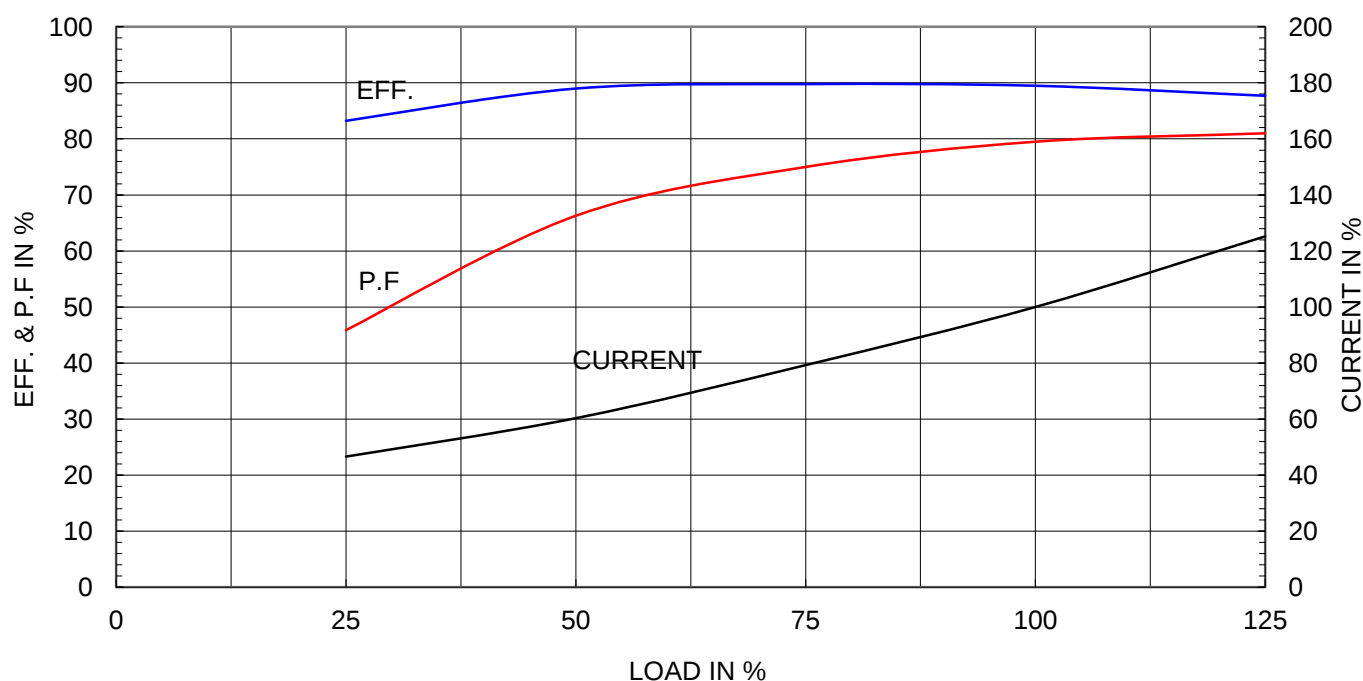
Type	:	HS
Full Load Torque	:	3.0 Kg.m
Motor moment of Inertia (J)	:	0.024 Kg.m ²
Load moment of Inertia (J)	:	5.500 Kg.m ²

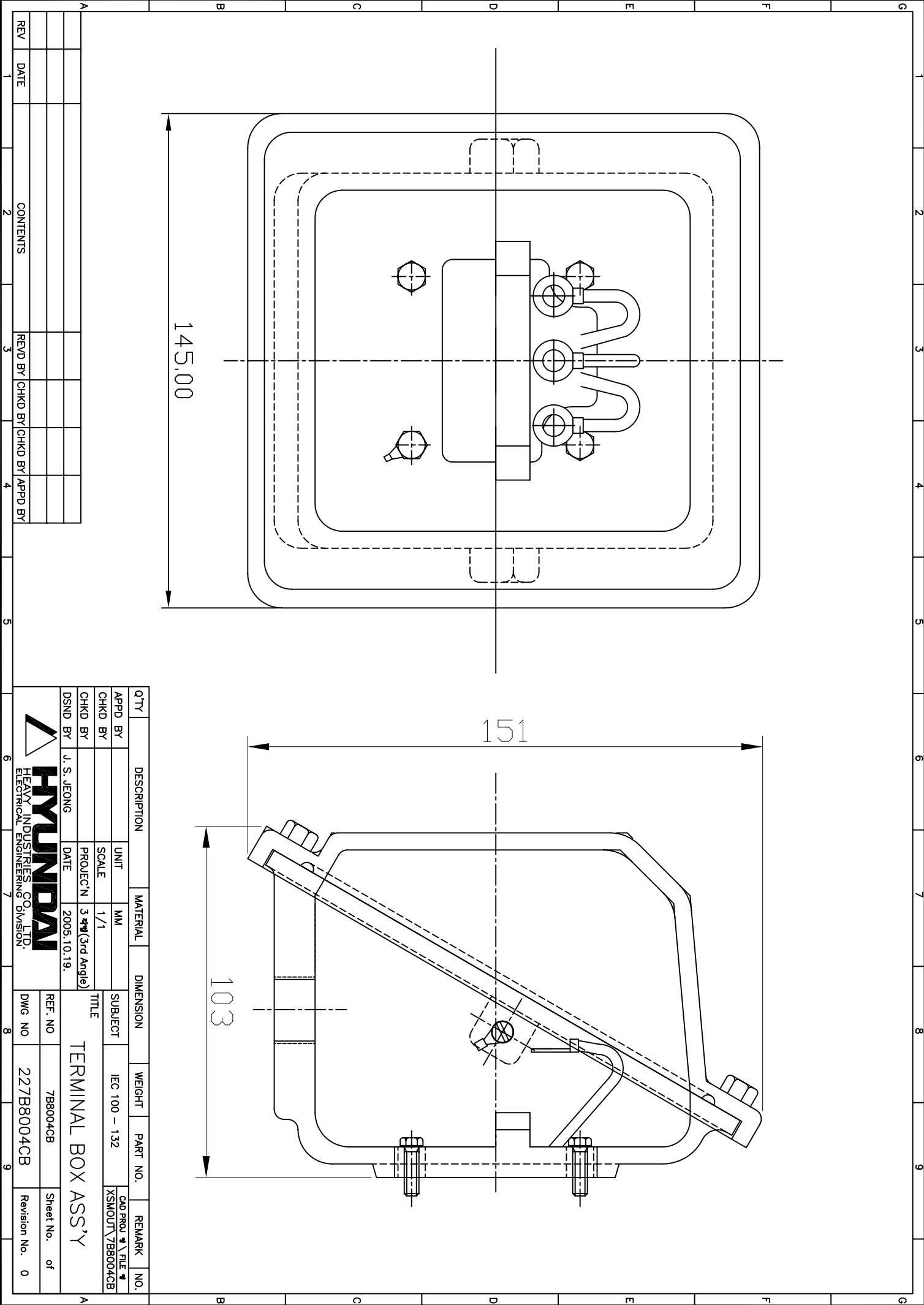
5.5 kW		4 P		60 Hz	
Speed at Full Load :				1760 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	10.1A	11.7A	20.3A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	UNIT	MM	SUBJECT	IEC 100 - 132	CAD PROJ. FILE		
CHKD BY	SCALE	1/1			XSMOUT\7B8004CB		
CHKD BY	PROJEC'N	3-4#(3rd Angle)	TITLE				
DSND BY	DATE	2005.10.19.	TERMINAL BOX ASS'Y				
J. S. JEONG			REF. NO.	7B8004CB	Sheet No.	of	
HYUNDAI			DWG NO.	227B8004CB	Revision No.	0	
HEAVY INDUSTRIES CO. LTD.							
ELECTRICAL ENGINEERING DIVISION							