

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	200LL		Rated Output	37 kW 50 HP	
Type	HS		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	64.1 A 74.2 A 128.1 A
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	650 %	650 % 650 %
Temp. Rise at full load (by resistance method)			Efficiency		
at 1.0 S.F 80 deg. C			50% Load 92.5 %		
Motor Location	☒ Indoor ☐ Outdoor		75% Load 93.5 %		
Altitude	Less than 1000 meter		100% Load 93.0 %		
Relative Humidity	Less than 80 %		Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)		50% Load 0.715		
Duty Type	Continuos (S1)		75% Load 0.790		
Service Factor	1.15		100% Load 0.815		
Mounting	☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1175 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6313ZC3 / 6211ZC3	Full Load 30.7 kg·m		
	Lubricant	Grease(Gadus S2 V100 2)	Locked-rotor** 170 %		
External Thrust	Not applicable		Breakdown** 220 %		
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)		
Shaft Extension	☒ Single ☐ Double		Load(Max.) 63.250 kg·m²		
Terminal	Main	☐ Steel ☒ Cast Iron	Motor 0.781 kg·m²		
Box	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)		
	Location	Refer to Outline Drawing	72 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		
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
ACCESSORIES			SUBMITTAL DRAWING		
			Outline Dimension Drawing \ Motor Weight(Approx.)		
			B3		kg
			B5	227B1941CB02	350 kg
			V1		kg
			B3/B5		kg
			Main T-Box Ass'y 227B8003CB5		
SPARE PARTS			REMARK		
			High Efficiency		
			* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise		
			Date	DSND	CHKD
			2011-04-14	W.H.BACK	S. J. RA
					CHKD
					APPD
					J. H. KIM

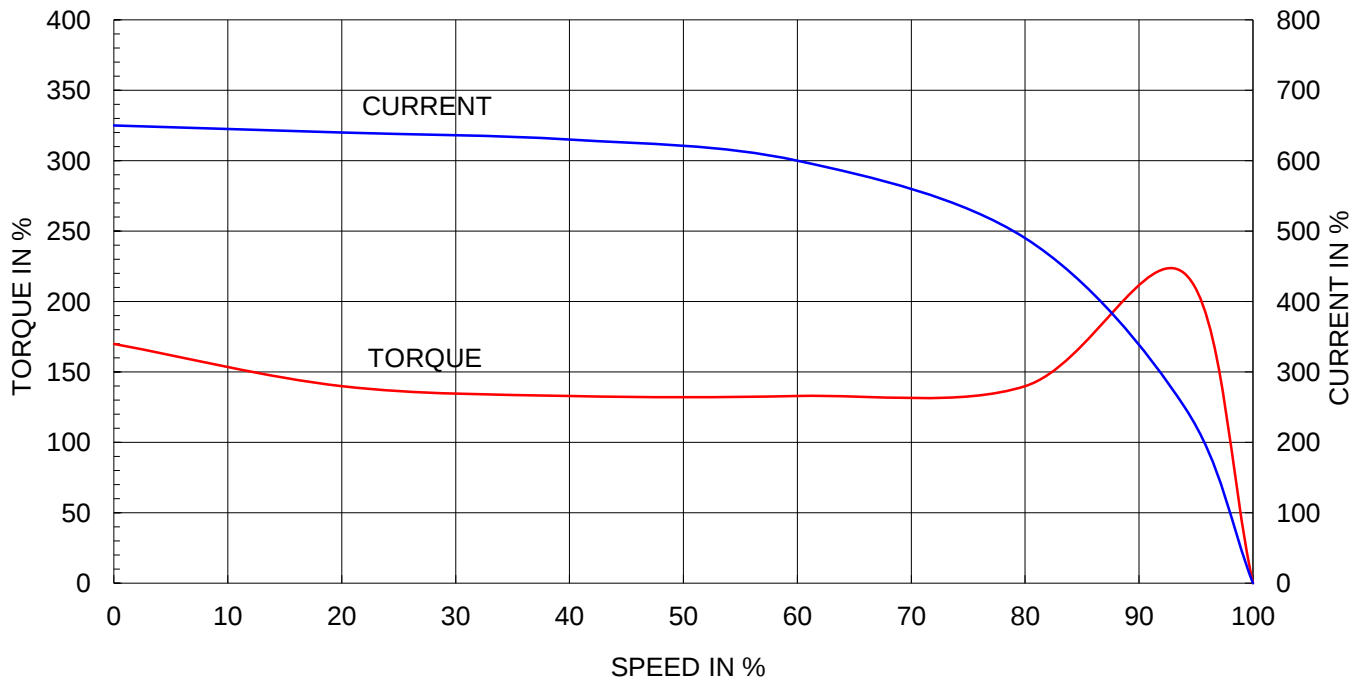
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

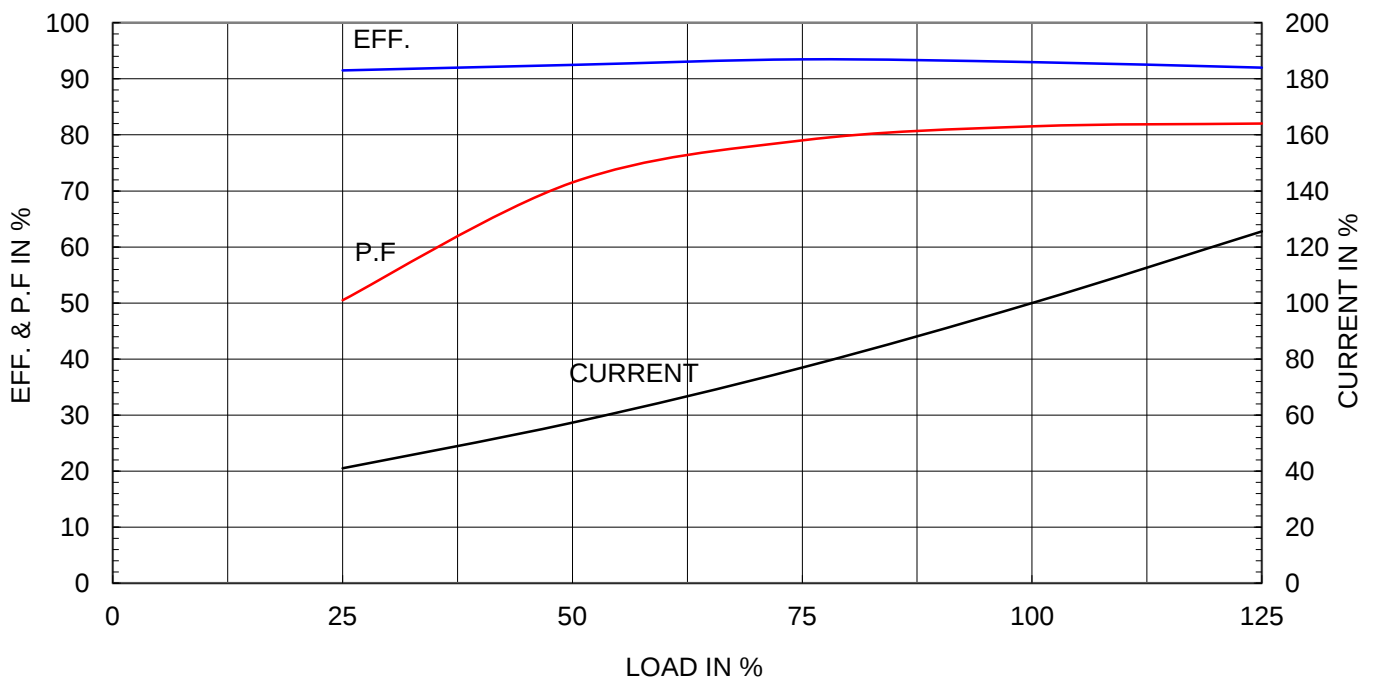
Type	:	HS
Full Load Torque	:	30.7 Kg.m
Motor moment of Inertia (J)	:	0.470 Kg.m ²
Load moment of Inertia (J)	:	63.250 Kg.m ²

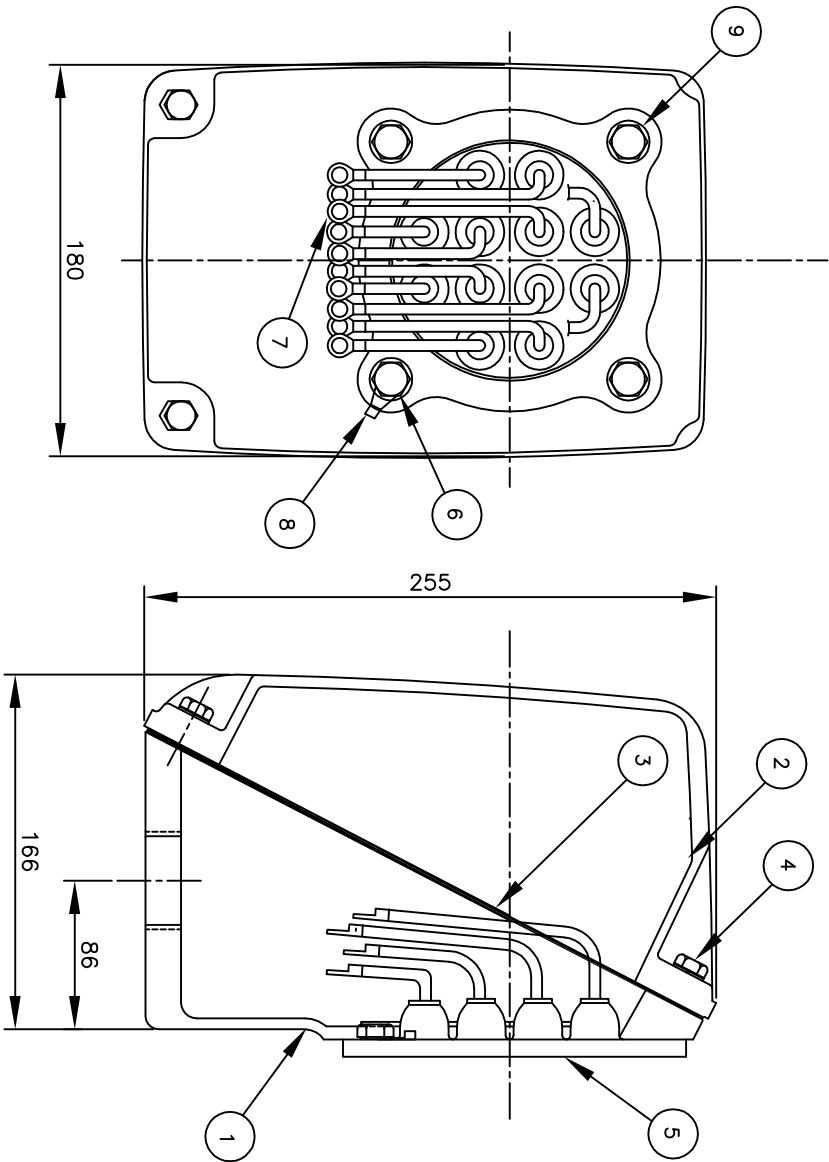
37 kW		6 P		60 Hz	
Speed at Full Load :				1175 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	64.1A	74.2A	128.1A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





PT	DESCRIPTION	MATERIAL	DIMENSION	Q.TY
1	CONDUIT BOX	FC20		1
2	C/B COVER	FC20		1
3	GASKET(COVER)	N.B.R	T2X170X210	1
4	SCREW(COVER)	S45C	M8XL20	4
5	GASKET(C/B)	N.B.R		1
6	SCREW(C/B)	S45C	M8XL20	4
7	TERMINAL LUG	CU	T1.6	
8	TERMINAL GROUND	CU	T1.6	1
9	WASHER	S45C	M8 X L10	4

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD	BY KIM JIN HONG	UNIT	MM				
CHKD	BY KIM YU SUNG	SCALE	1/2				
CHKD	BY GO SECK HAN	PROJEC'T	3 [2]1q12L(3rd				
DSND	BY LEE KWANG SOO	DATE	94.12.20				
				REF. NO.	B8003CB5	Sheet No.	of
				DWG NO.	227B8003CB5	Revision No.	0



HYUNDAI
HEAVY INDUSTRIES CO., LTD.
& POWER SYSTEMS

TITLE
CONDUIT BOX
& COVER ASS'Y

CAD PROU TYP \ FILE
XSMOUTV\B8003CB4