

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 Locked-rotor** 650 % 650 % 650 %			
Insulation Class	☒ F ☐ B ☐ H		Efficiency	50% Load 92.5 % 75% Load 93.5 % 100% Load 93.0 %			
Temp. Rise at full load (by resistance method)			Power Factor(p.u)				
at 1.0 S.F 80 deg. C			50% Load 0.715 75% Load 0.790 100% Load 0.815				
Motor Location	☒ Indoor ☐ Outdoor		Speed at Full Load				
Altitude	Less than 1000 meter		1175 r.p.m				
Relative Humidity	Less than 80 %		Torque				
Ambient Temp.	40 deg. C (Max.)		Full Load 30.7 kg·m Locked-rotor** 170 % Breakdown** 220 %				
Duty Type	Continuos (S1)		Moment of Inertia (J)				
Service Factor	1.15		Load(Max.) 63.250 kg·m² Motor 0.781 kg·m²				
Mounting	☐ B3 ☐ B5 ☐ V1 ☒ B3/B5		Sound Pressure Level (No-load & mean value at 1m from motor)				
Bearing	Type Anti-Friction DE/N-DE 6313ZC3 / 6211ZC3 Lubricant Grease(Gadus S2 V100 2)		72 dB(A)				
External Thrust	Not applicable		Vibration				
Coupling Method	☒ Direct ☐ V-Belt		2.2 mm/sec (r.m.s)				
Shaft Extension	☒ Single ☐ Double		Permissible number of				
Terminal	Main ☐ Steel ☒ Cast Iron		consecutive starts				
Box	Aux. ☐ Yes ☒ No		Cold 3 times Hot 2 times				
Location			Refer to Outline Drawing				
Application			Paint				
Area classification	Non-Hazardous		Munsell No. 4.0PB5.4/5.5(VL-451)				
Type of Ex-Protection	Not applicable						
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)						
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		kg		
			B5		kg		
			V1		kg		
			B3/B5		227B1941PB02 350 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	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.

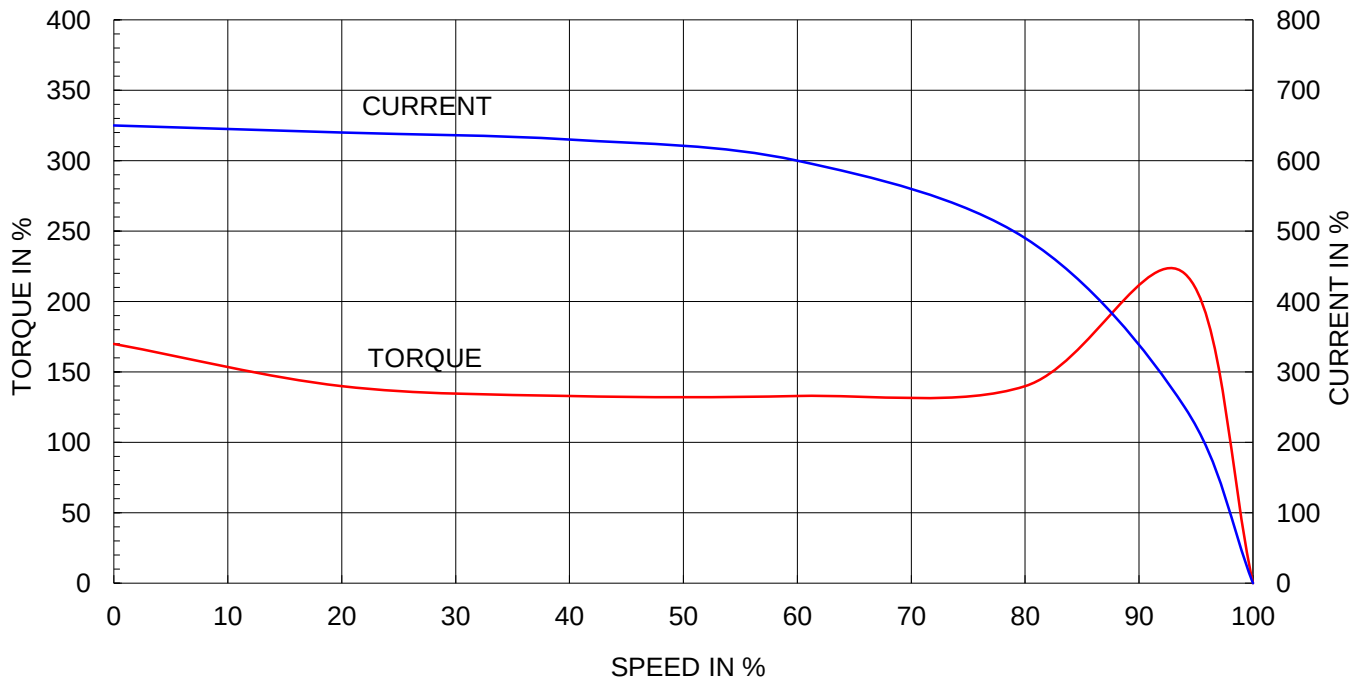
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

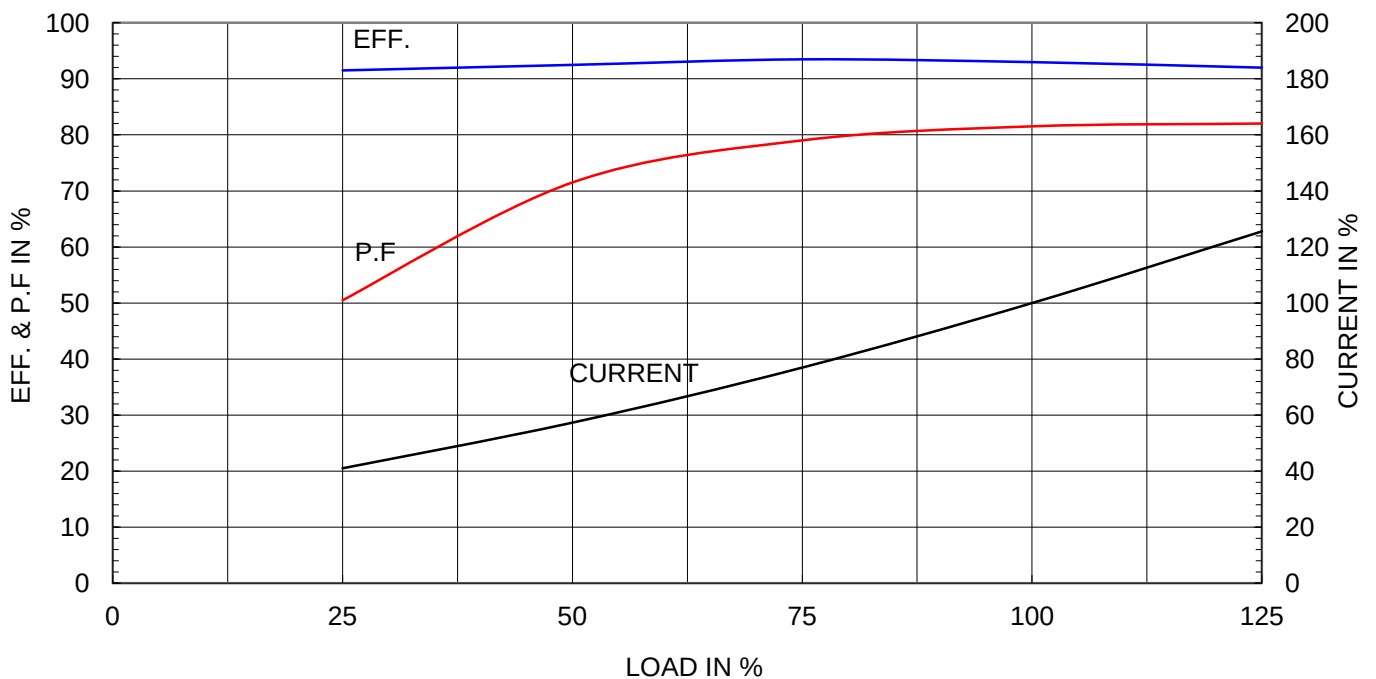
Type	:	HS
Full Load Torque	:	30.7 Kg.m
Motor moment of Inertia (J)	:	0.470 Kg.m ²
Load moment of Inertia (J)	:	63.250 Kg.m ²

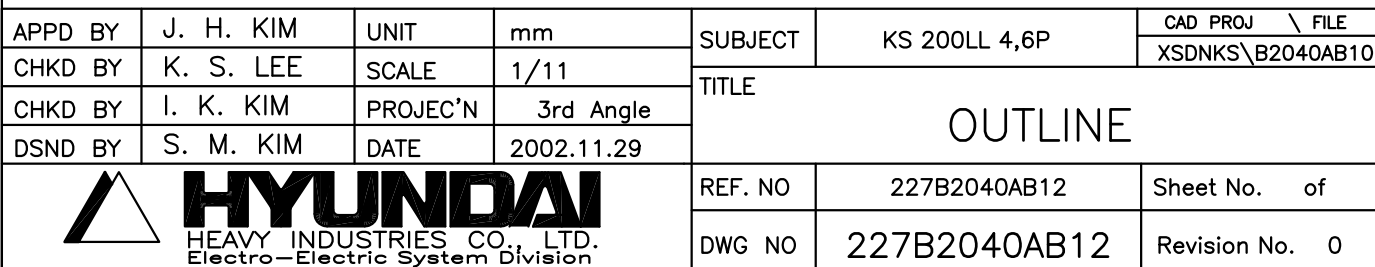
37 kW		6 P		60 Hz	
Speed at Full Load :				1175 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	64.1A	74.2A	128.1A		

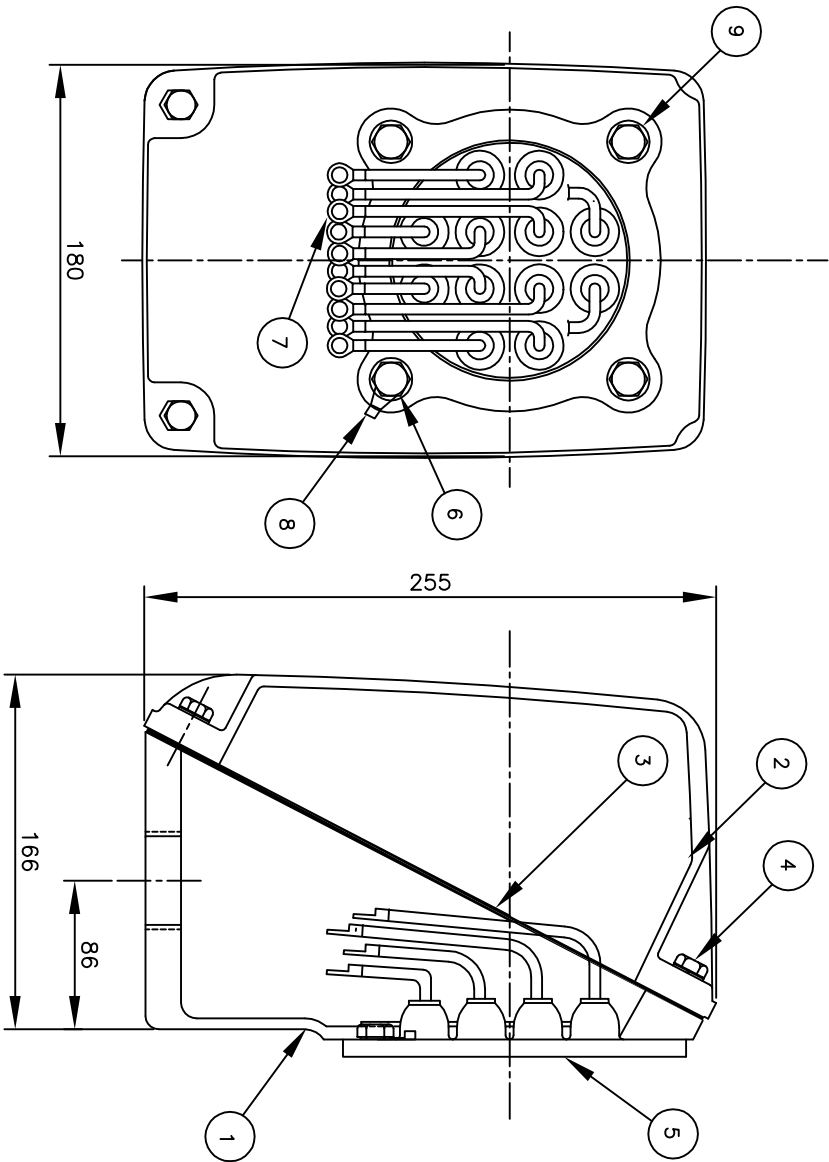
SPEED VS TORQUE & CURRENT CURVE



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 Angle)				
DSND BY	LEE KWANG SOO	DATE	94.12.20				
HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				REF. NO.	B8003CB5	Sheet No.	of
				DWG NO.	227B8003CB5	Revision No.	0