

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		HL-XP		Number of Poles 2			
Enclosure(Protection)		Explosion Proof (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 58.4 A 67.6 A 116.8 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			
Motor Location		☒ Indoor ☐ Outdoor		50% Load 91.9 %			
Altitude		Less than 1000 meter		75% Load 92.9 %			
Relative Humidity		Less than 80 %		100% Load 92.4 %			
Ambient Temp.		40 deg. C (Max.)		Power Factor(p.u)			
Duty Type		Continuos (S1)		50% Load 0.855			
Service Factor		1.00		75% Load 0.890			
Mounting		☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		100% Load 0.900			
Bearing		Type Anti-Friction		Speed at Full Load 3560 r.p.m			
		DE/N-DE 6212ZC3 / 6211ZC3		Torque			
		Lubricant Grease(Gadus S2 V100 2)		Full Load 10.1 kg·m			
External Thrust		Not applicable		Locked-rotor** 160 %			
Coupling Method		☒ Direct ☐ V-Belt		Breakdown** 230 %			
Shaft Extension		☒ Single ☐ Double		Moment of Inertia (J)			
Terminal		Main ☐ Steel ☒ Cast Iron		Load(Max.) 4.750 kg·m²			
Box		Aux. ☐ Yes ☒ No		Motor 0.168 kg·m²			
		Location Refer to Outline Drawing		Sound Pressure Level (No-load & mean value at 1m from motor)			
Application				86 dB(A)			
Area classification		Hazardous		Vibration 2.2 mm/sec (r.m.s)			
Type of Ex-Protection		Ex d IIB T4		Permissible number of consecutive starts Cold 3 times			
Applicable Standard		KS,IEC		Hot 2 times			
				Paint Munsell No. 4.0PB5.4/5.5(VL-451)			
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3 227B1600XI9 370 kg				
			B5 kg				
			V1 kg				
			B3/B5 0 0 kg				
			Main T-Box Ass'y 227B1470LA				
SPARE PARTS			REMARK				
			High Efficiency				
			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.

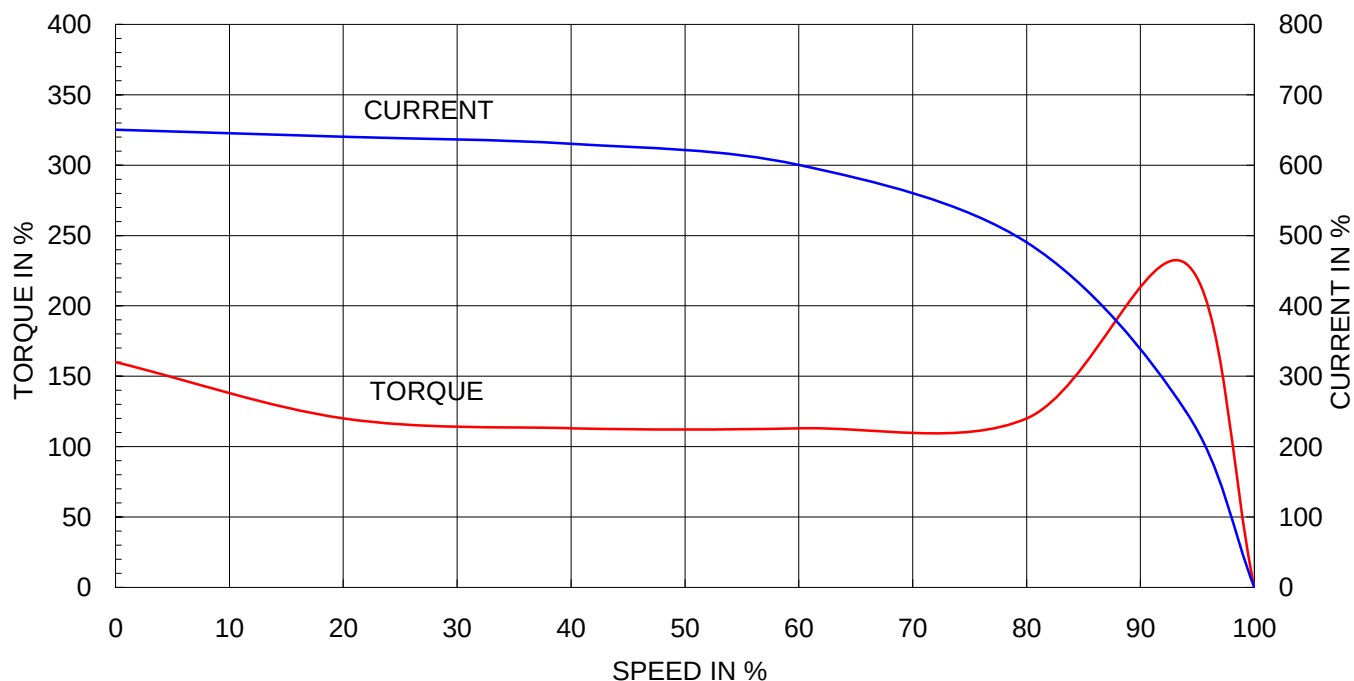
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

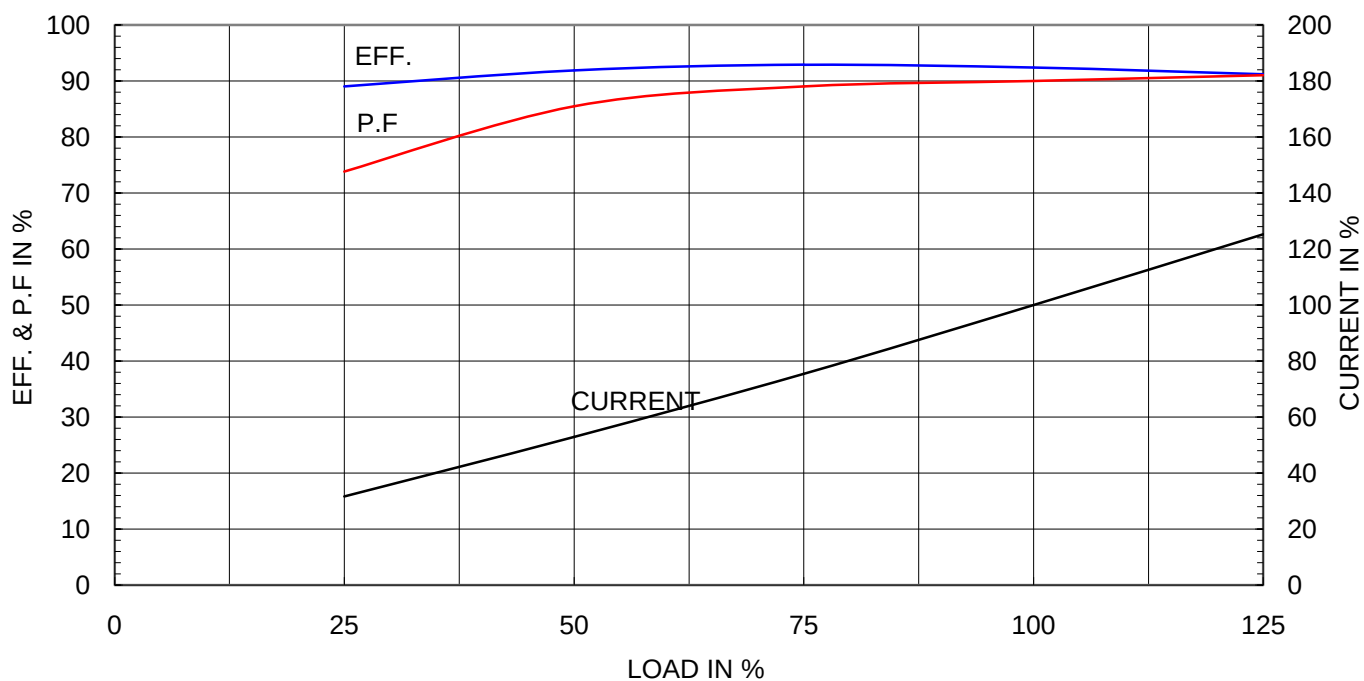
Type	:	HL-XP
Full Load Torque :	10.1	Kg.m
Motor moment of Inertia (J) :	0.168	Kg.m ²
Load moment of Inertia (J) :	4.750	Kg.m ²

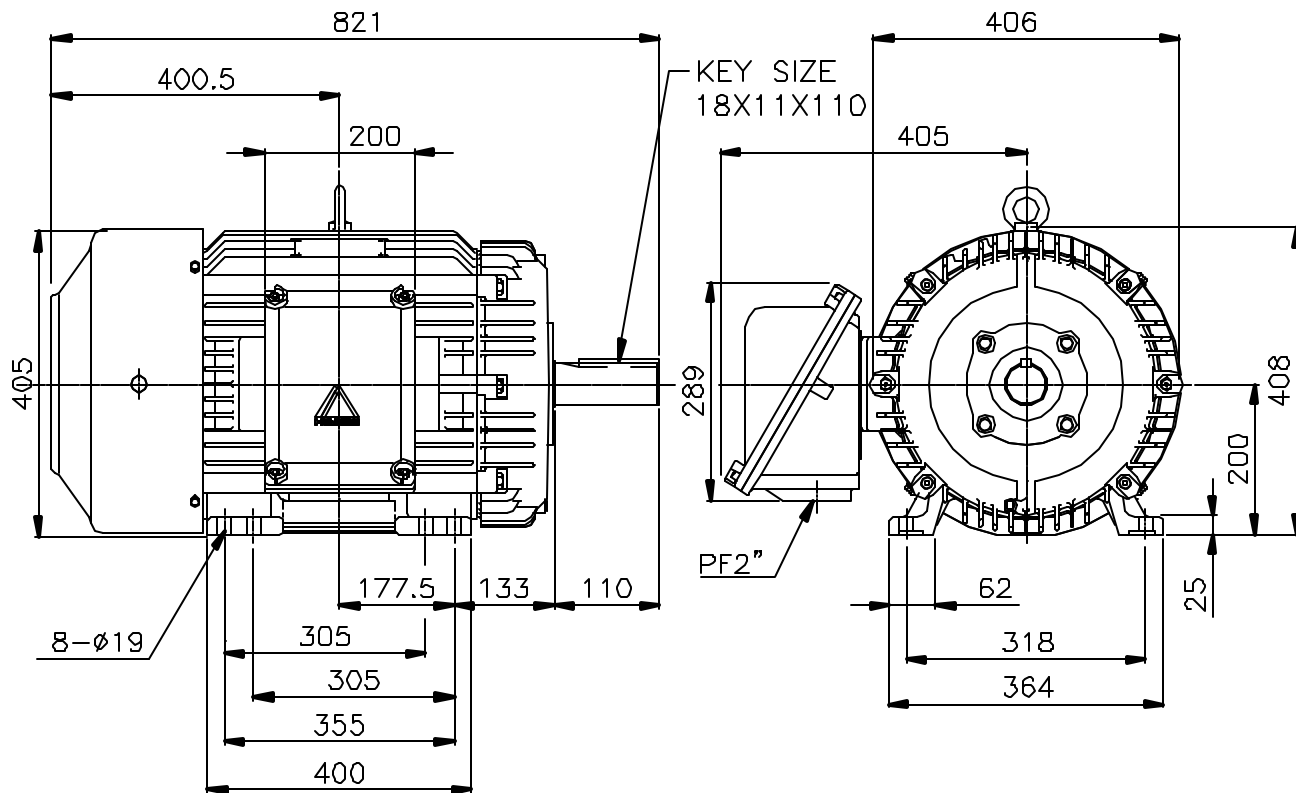
37 kW		2 P		60 Hz	
Speed at Full Load :				3560 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	58.4A	67.6A	116.8A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

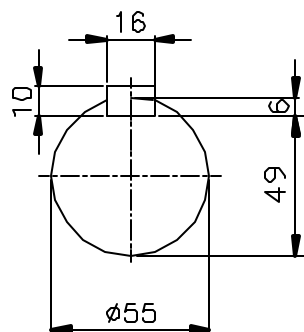




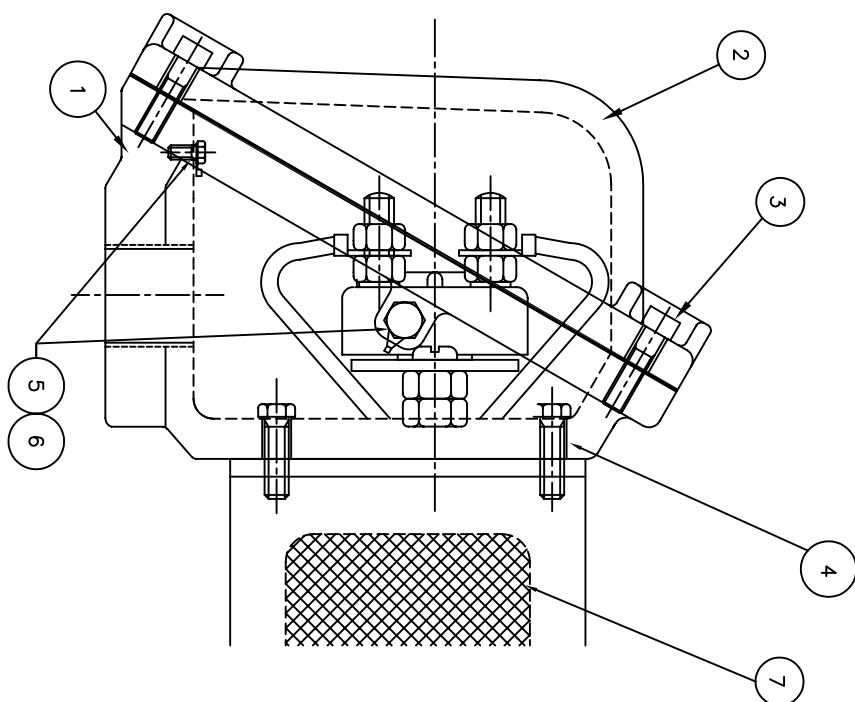
NOTE

1.TOLERANCE :

CENTER HEIGHT	200 ⁺⁰ _{-0.5}
BASE HOLES	ø19 ^{+0.43} ₋₀
SHAFT DIAMETER	ø55 ^{+0.030} _{+0.011}
KEYWAY WIDTH	16 ⁺⁰ _{-0.043}
KEYWAY DEPTH	6 ⁺⁰ _{-0.2}



APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 200LL 2P d2G4	CAD PROJ \ FILE
CHKD BY	Y. S. KIM	SCALE	1/10			XSDNKS\B2001AA10
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	I. K. KIM	DATE	2002.10.31			
HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	B1600XI9	Sheet No. of
				DWG NO	227B1600XI9	Revision No. 0

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