



AC INDUCTION MOTOR DATA SHEET

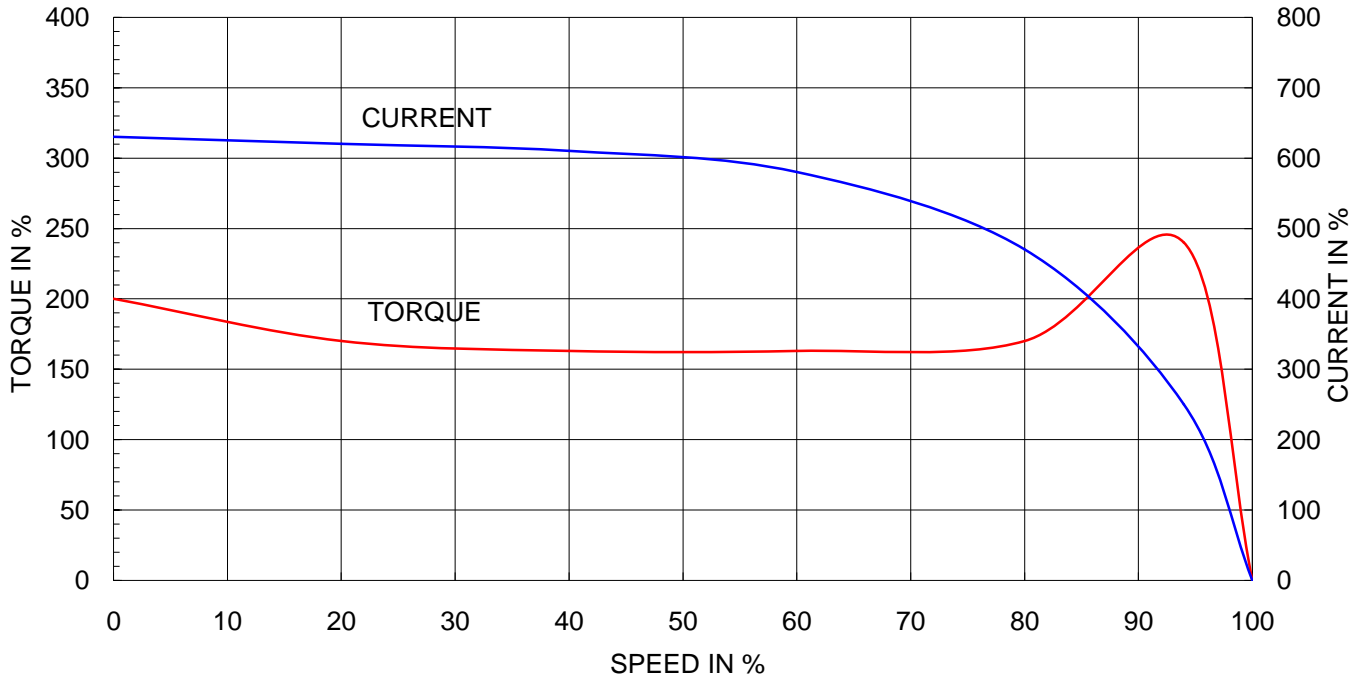
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	160L		Rated Output	15 kW 20 HP			
Type	HL-XP		Number of Poles	4			
Enclosure(Protection)	Explosion Proof (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	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	26.5 A 30.7 A 53.1 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	630 %	630 % 630 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 90.0 %				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load 91.2 %				
Altitude	Less than 1000 meter		100% Load 91.0 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.652				
Duty Type	Continuos (S1)		75% Load 0.750				
Service Factor	1.00		100% Load 0.815				
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load 1770 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6309ZZC3 / 6309ZZC3		Full Load 8.3 kg·m			
	Lubricant	Grease(Polyrex-EM)		Locked-rotor** 200 %			
External Thrust	Not applicable		Breakdown** 240 %				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.) 12.750 kg·m ²				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor 0.090 kg·m ²			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing		74 dB(A)			
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification	Hazardous		Permissible number of consecutive starts				
Type of Ex-Protection	Ex d IIB T4		Cold 3 times				
Applicable Standard	KS,IEC		Hot 2 times				
ACCESSORIES			Paint Munsell No. 4.0PB5.4/5.5(VL-451)				
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B2002AA06	157 kg		
			B5		kg		
			V1		kg		
			B3/B5		0 kg		
			Main T-Box Ass'y 227B1470LB				
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	:	8.3 Kg.m
Motor moment of Inertia (J)	:	0.090 Kg.m ²
Load moment of Inertia (J)	:	12.750 Kg.m ²

15 kW	4 P	60 Hz	
Speed at Full Load :		1770 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	26.5A	30.7A	53.1A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

