

## AC INDUCTION MOTOR DATA SHEET

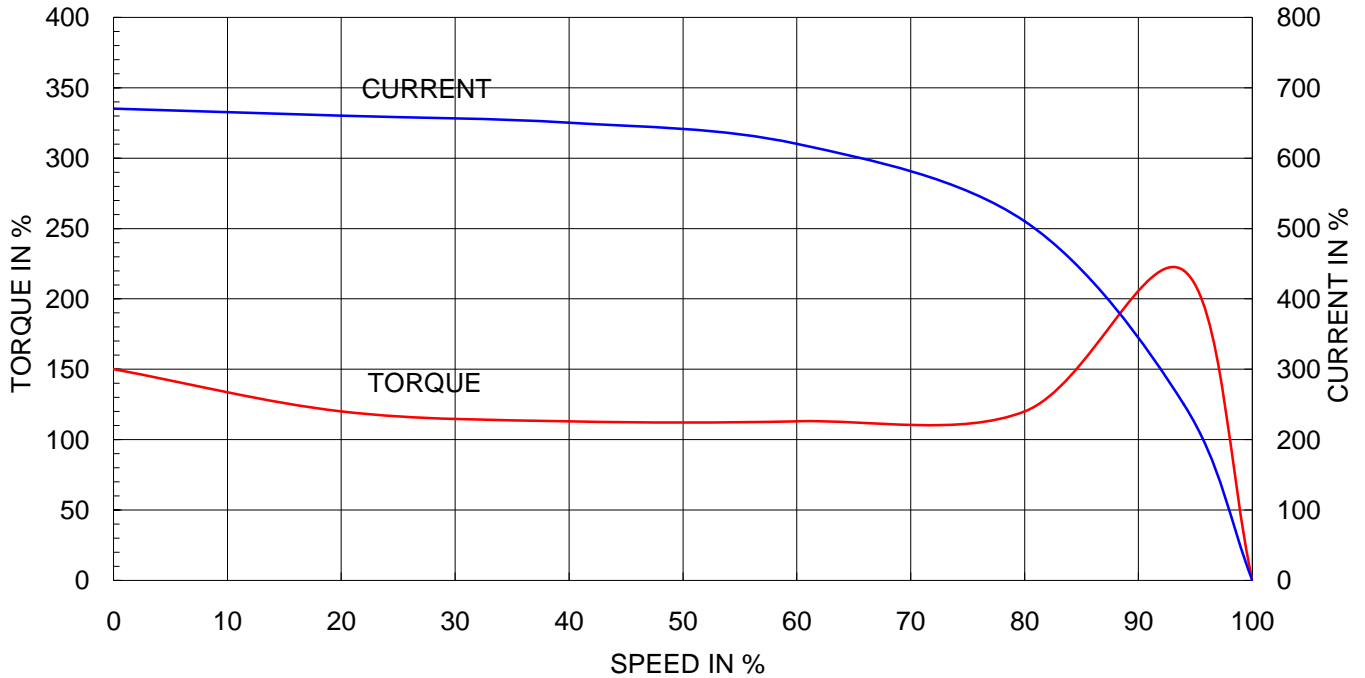
Model No.or RFQ No.		Item No.		Rev. No. [ 0 ]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	200LL		Rated Output	37 kW 50 HP			
Type	HL-XP		Number of Poles	4			
Enclosure(Protection)	Explosion Proof ( IP55 )		Rotor Type	Squirrel Cage			
Method of 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	62.1 A 72.0 A 124.3 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	670 %	670 % 670 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F    80 deg. C			50% Load    92.5 %				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load    93.2 %				
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    0.730				
Duty Type	Continuos ( S1 )		75% Load    0.795				
Service Factor	1.00		100% Load    0.840				
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load    1780 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6313ZC3 / 6211ZC3		Full Load    20.2 kg·m			
	Lubricant	Grease(Gadus S2 V100 2)		Locked-rotor**    150 %			
External Thrust	Not applicable		Breakdown**    220 %				
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.)    24.000 kg·m <sup>2</sup>				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor    0.280 kg·m <sup>2</sup>			
	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		77 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				
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B1600XI10	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 shal

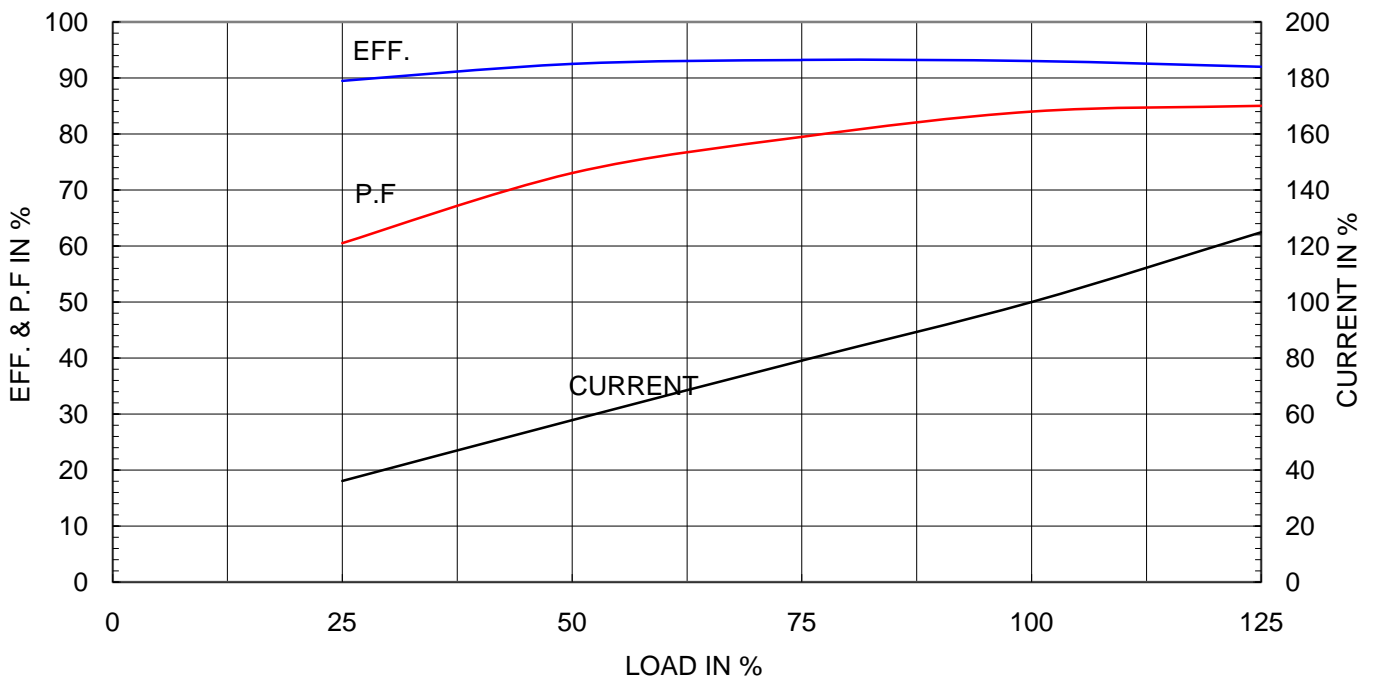
Type	:	HL-XP
Full Load Torque	:	20.2 Kg.m
Motor moment of Inertia (J)	:	0.280 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	24.000 Kg.m <sup>2</sup>

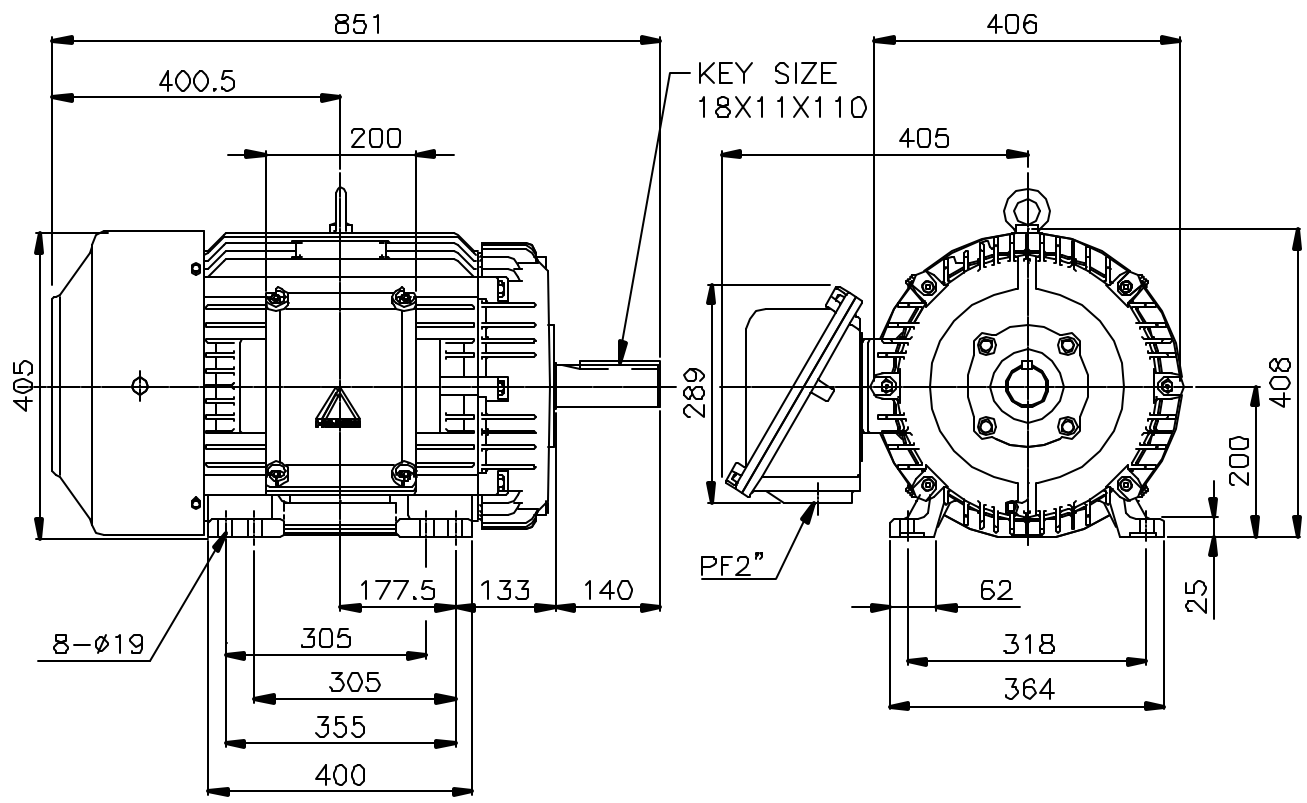
37 kW	4 P	60 Hz	
Speed at Full Load :		1780 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	62.1A	72.0A	124.3A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

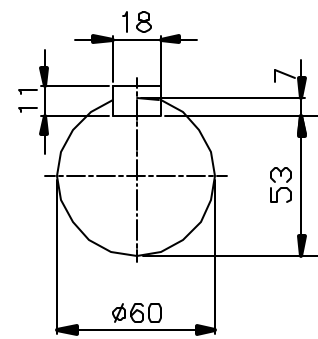




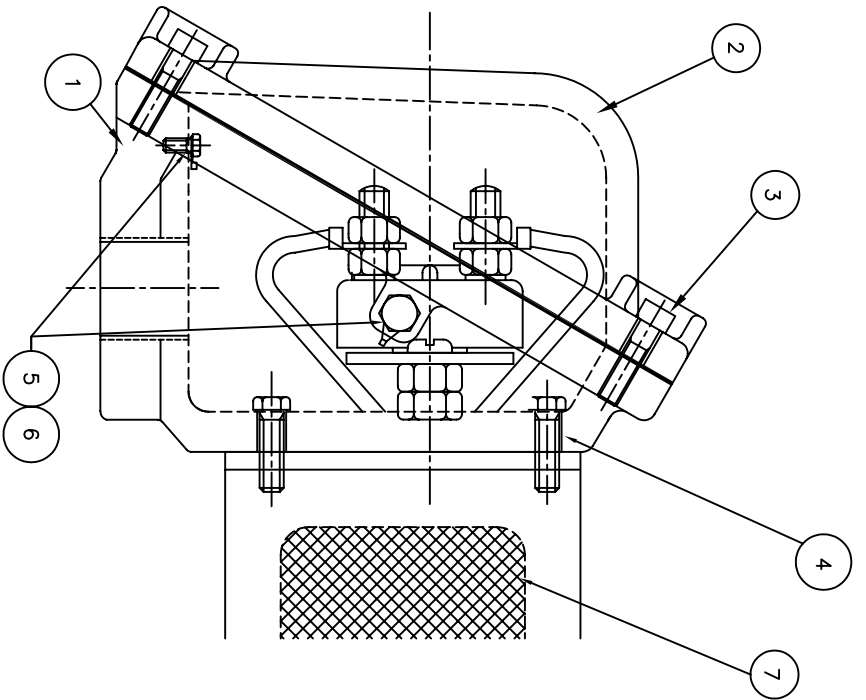
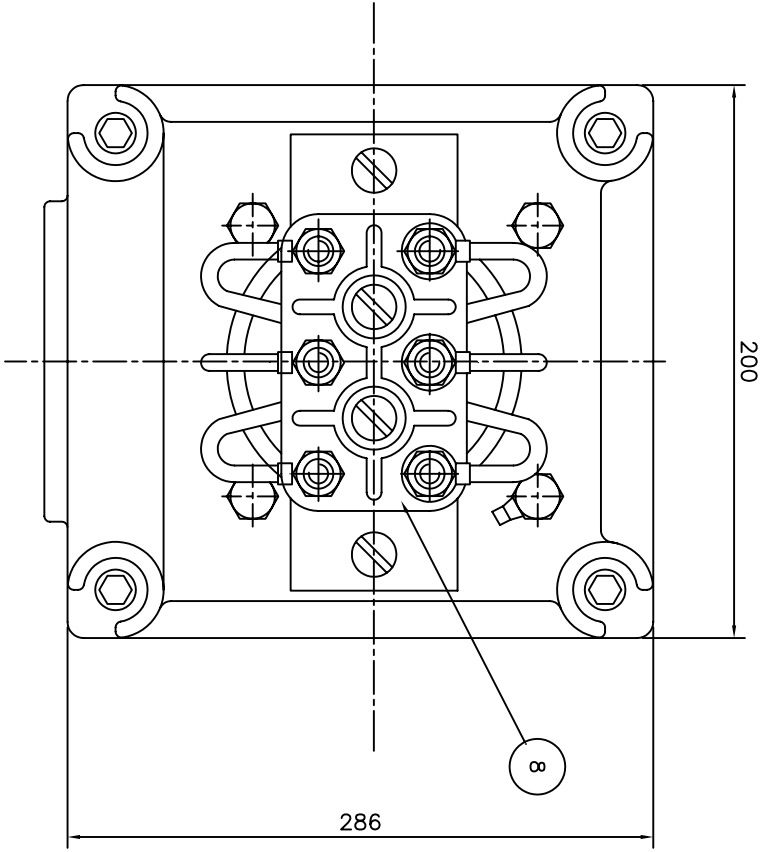
**NOTE**

1.TOLERANCE :

CENTER HEIGHT	200	+0	-0.5
BASE HOLES	ø19	+0.43	-0
SHAFT DIAMETER	ø60	+0.030	+0.011
KEYWAY WIDTH	18	+0	-0.043
KEYWAY DEPTH	7	+0	-0.2



APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 200LL 4,6P d2G4	CAD PROJ \ FILE
CHKD BY	Y. S. KIM	SCALE	1/10			XSDNKS\B2001AA10
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	TITLE <b>OUTLINE</b>		
DSND BY	I. K. KIM	DATE	2002.10.31			
				REF. NO	B1600X110	Sheet No. of
				DWG NO	227B1600X110	Revision No. 0



Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
1	TERMINAL BLOCK	D4C29C					8
1	SEALING COMPOUND	CU					7
2	GRD TERMINAL LUG	S45C					6
2	GRD. BOLT	S45C					5
4	T/B + FRAME BOLT	S45C					4
4	T/B + COVER BOLT	S45C					3
1	TERMINAL BOX COVER	FC15					2
1	TERMINAL BOX ASSEMBLY	FC15					1

APPD BY	UNIT	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
CHKD BY	SCALE	N/S					
CHKD BY	PROJEC'N	3*4 (3rd Angle)					
DSND BY	DATE	99.2.2					



TITLE  
**MAIN TERMINAL BOX**

APPD BY	UNIT	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
CHKD BY	SCALE	N/S					
CHKD BY	PROJEC'N	3*4 (3rd Angle)					
DSND BY	DATE	99.2.2					

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						
2						
3						
4						

REF. NO	DWG NO	SHEET NO.	TOTAL SHEETS
7B1470LA	227B1470LA	0	0