

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 type="checkbox"/> Indoor <input checked="" 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 type="checkbox"/> B3 <input type="checkbox"/> B5 <input checked="" 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 ²		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor	0.280 kg·m ²	
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)	77 dB(A)	
	Location	Refer to Outline Drawing	Vibration	2.2 mm/sec (r.m.s)	
Application		Permissible number of consecutive starts	Cold	3 times	
Area classification	Hazardous	Hot	2 times		
Type of Ex-Protection	Ex d IIB T4	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	

ACCESSORIES		SUBMITTAL DRAWING				
		Outline Dimension Drawing		Motor Weight(Approx.)		
		B3			kg	
		B5			kg	
		V1	227B1616XI10	400	kg	
		B3/B5	0	0	kg	
		Main T-Box Ass'y		227B1470LA		

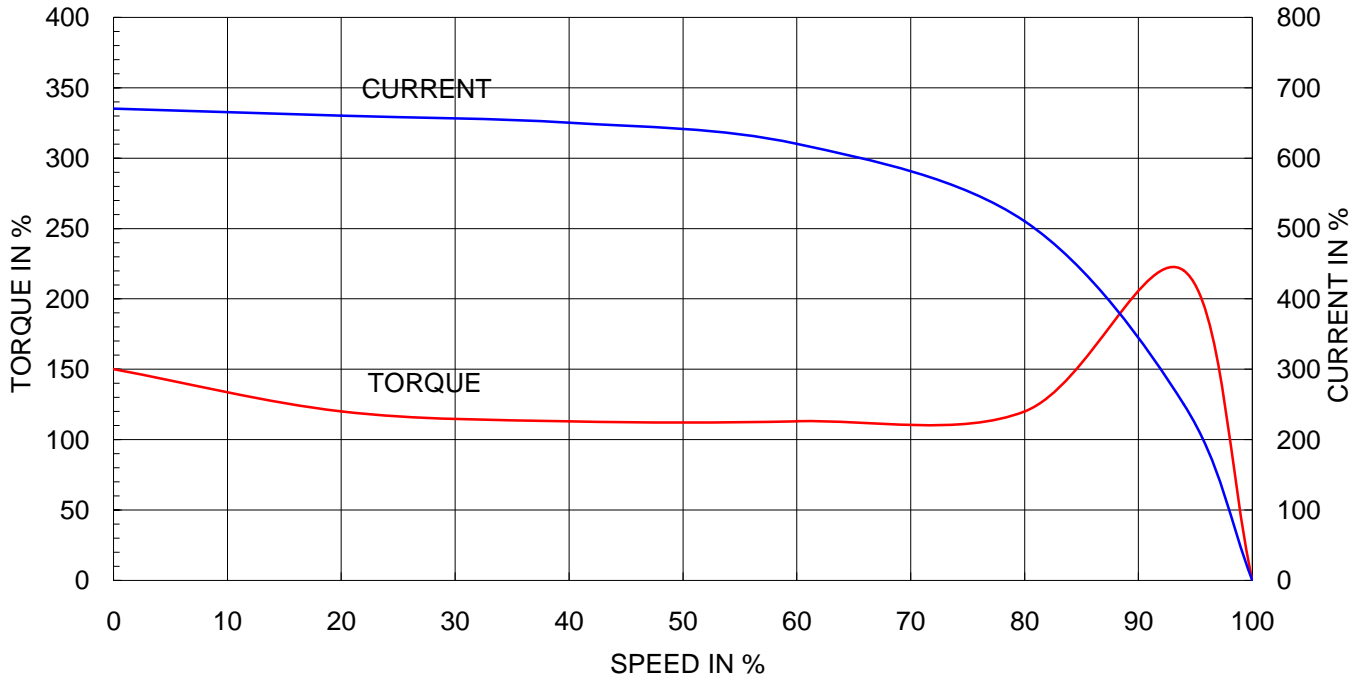
SPARE PARTS		REMARK				
		High Efficiency				
		Date	DSND	CHKD	CHKD	APPD
		2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM

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

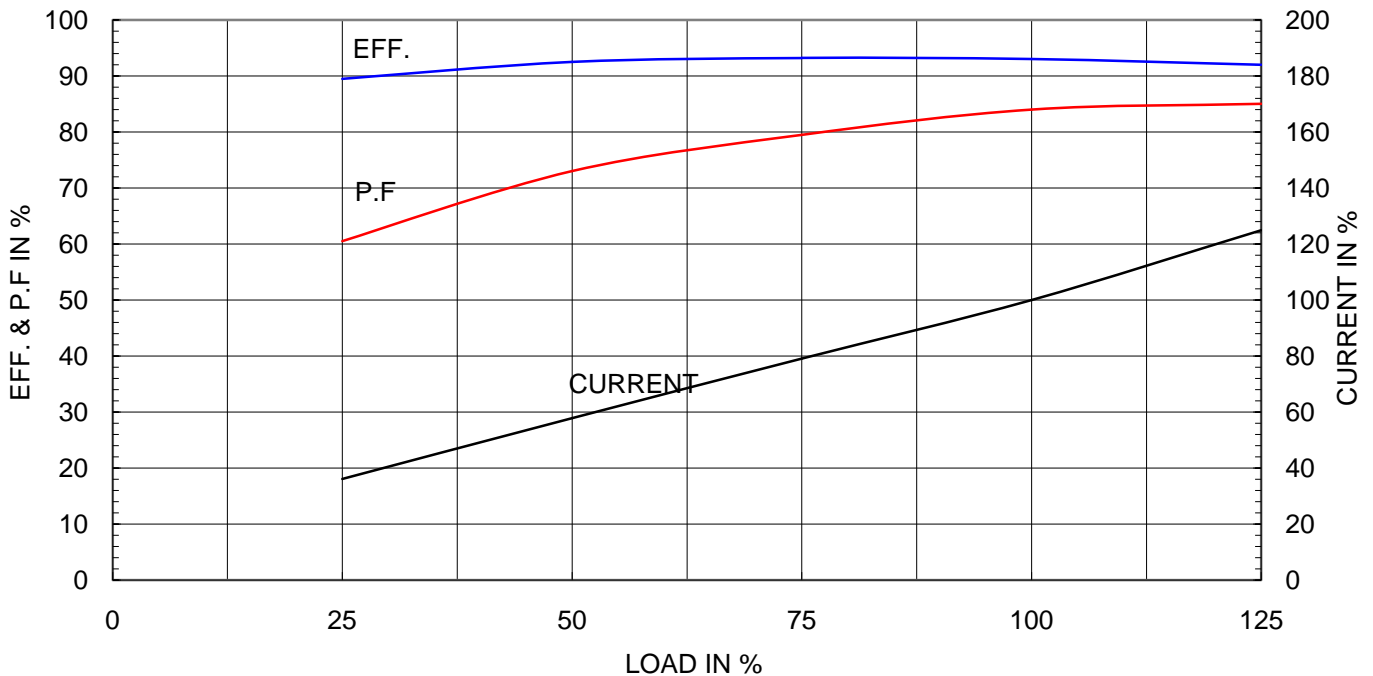
Type	:	HL-XP
Full Load Torque	:	20.2 Kg.m
Motor moment of Inertia (J)	:	0.280 Kg.m ²
Load moment of Inertia (J)	:	24.000 Kg.m ²

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

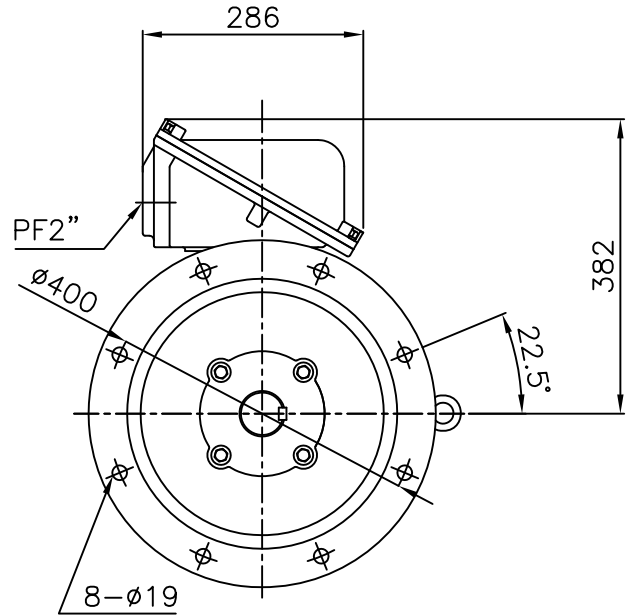
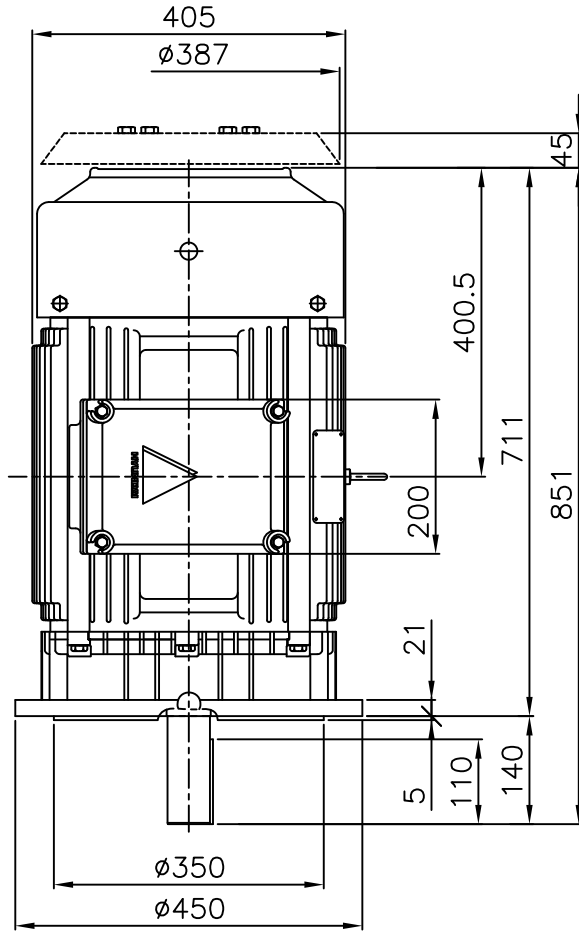
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



Exd II



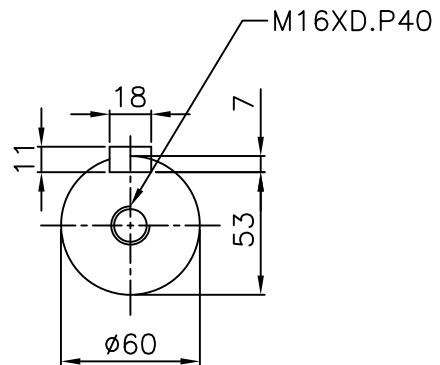
NOTE

1. TOLERANCE :

FLANGE HOLES	$\phi 19^{+0.43}_{-0.}$
RABBET DIAMETER	$\phi 350^{+0.018}_{-0.018}$
SHAFT DIAMETER	$\phi 60^{+0.030}_{+0.011}$
KEYWAY WIDTH	$18^{+0}_{-0.043}$
KEYWAY DEPTH	$53^{+0}_{-0.2}$

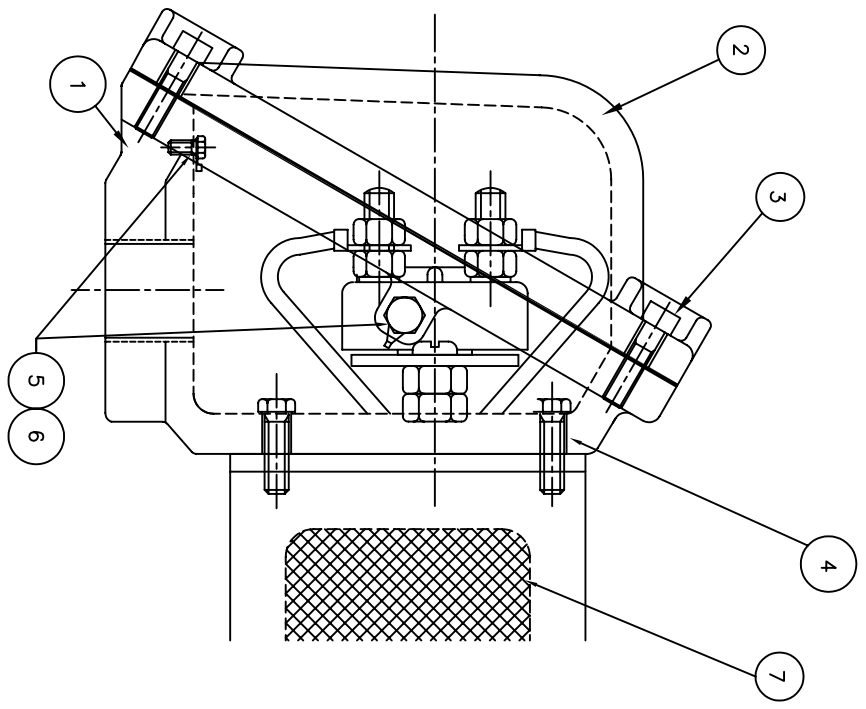
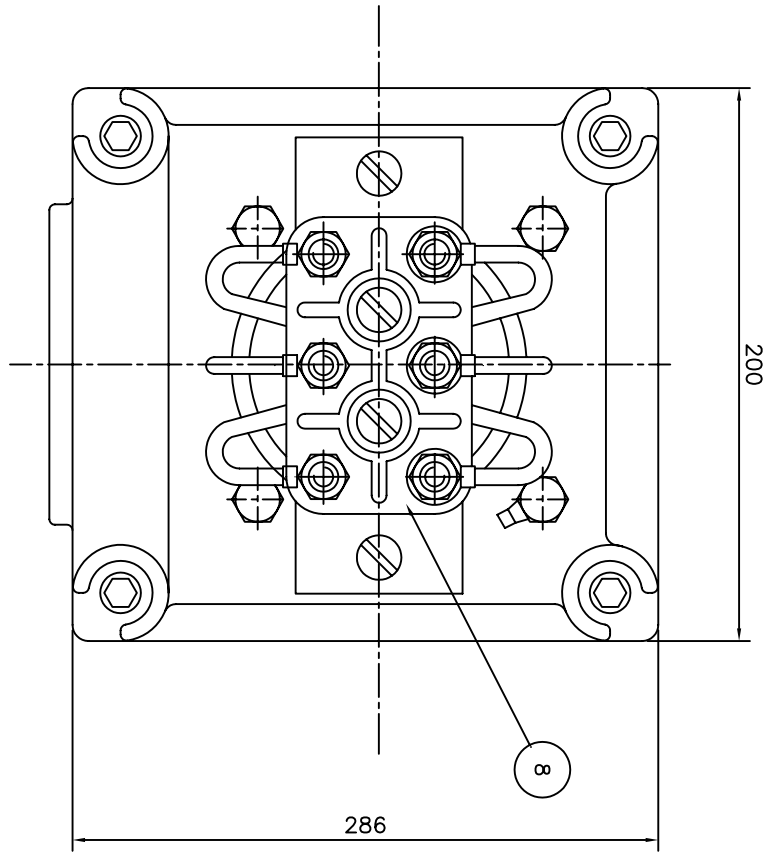
2. REMARK

DRIP COVER WILL BE ATTACHED PER REQUEST FROM CUSTOMER ONLY.



*d2G4

APPD BY	KIM.Y.S	UNIT	mm	SUBJECT	XSD KS 200LL 4,6P	CAD PROJ \ FILE
CHKD BY	---	SCALE	1/10	TITLE	XSDNKS\B1616XI10	
CHKD BY	KO.S.H	PROJEC'N	3rd Angle	OUTLINE		
DSND BY	LEE KWANG SOO	DATE	2008.12.05			
				REF. NO	B1616XI10	Sheet No. of
				DWG NO	227B1616XI10	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	MM	SUBJECT	IEC200FR 42G4	CAD PROJ \ FILE
CHKD BY	SCALE	N/S			XSMOUT\7B1468LB
DSND BY	PROJEC'N	3*4 (3rd Angle)	TITLE		
LEE E.J.	DATE	99.2.2	MAIN TERMINAL BOX		

APPD BY	UNIT	MM	SUBJECT	IEC200FR 42G4	CAD PROJ \ FILE
CHKD BY	SCALE	N/S			XSMOUT\7B1468LB
DSND BY	PROJEC'N	3*4 (3rd Angle)	TITLE		
LEE E.J.	DATE	99.2.2	MAIN TERMINAL BOX		

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

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