



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	45 kW	60 HP
Type	HK-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	76.0 A 88.0 A 152.0 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 93.6 %		
Motor Location	<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor	75% Load 93.7 %		
Altitude	Less than 1000 meter	100% Load 93.6 %		
Relative Humidity	Less than 80 %	Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)	50% Load 0.775		
Duty Type	Continuous (S1)	75% Load 0.820		
Service Factor	1.00	100% Load 0.830		
Mounting	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input checked="" type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	1775 r.p.m	
Bearing	Type	Anti-Friction		
	DE/N-DE	6313ZC3 / 6211ZC3		
	Lubricant	Grease(Gadus S2 V 100 2)		
External Thrust	Not applicable			
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.) 26.000 kg·m ²		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor 0.546 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		
Application		Vibration 2.2 mm/sec (r.m.s)		
Area classification	Hazardous	Permissible number of consecutive starts		
Type of Ex-Protection	Ex d II T4	Cold 3 times		
Applicable Standard	KS,IEC	Hot 2 times		
		Paint	Munsell No.	4.OPB5.4/5.5(VL-451)

ACCESSORIES	SUBMITTAL DRAWING			
	Outline Dimension Drawing		Motor Weight(Approx.)	
	B3			kg
	B5			kg
	V1	227B1616X110	400	kg
	B3/B5	0	0	kg
	Main T-Box Ass'y	227B1470LA		

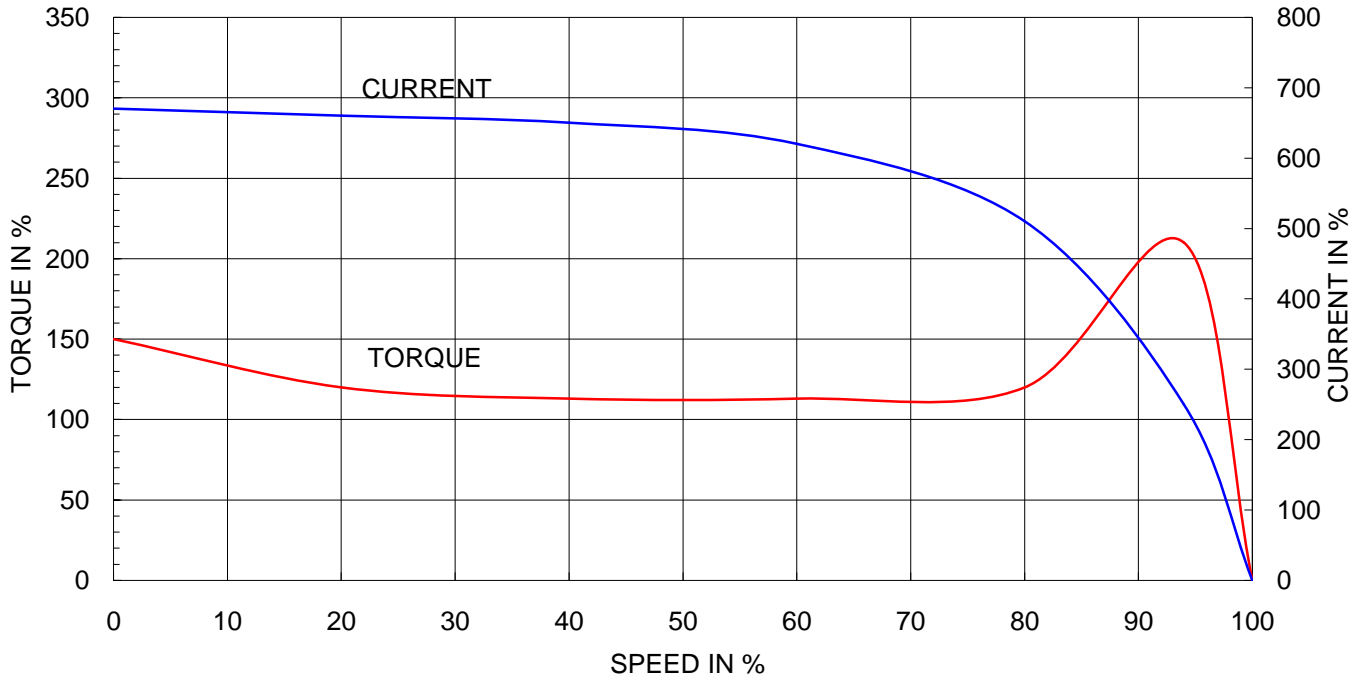
SPARE PARTS	REMARK				
	High Efficiency				
	Date	DSND	CHKD	CHKD	APPD
	2010-05-28	R.G. KIM	O.J. KIM	J.H. KIM	K.J. KANG

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.

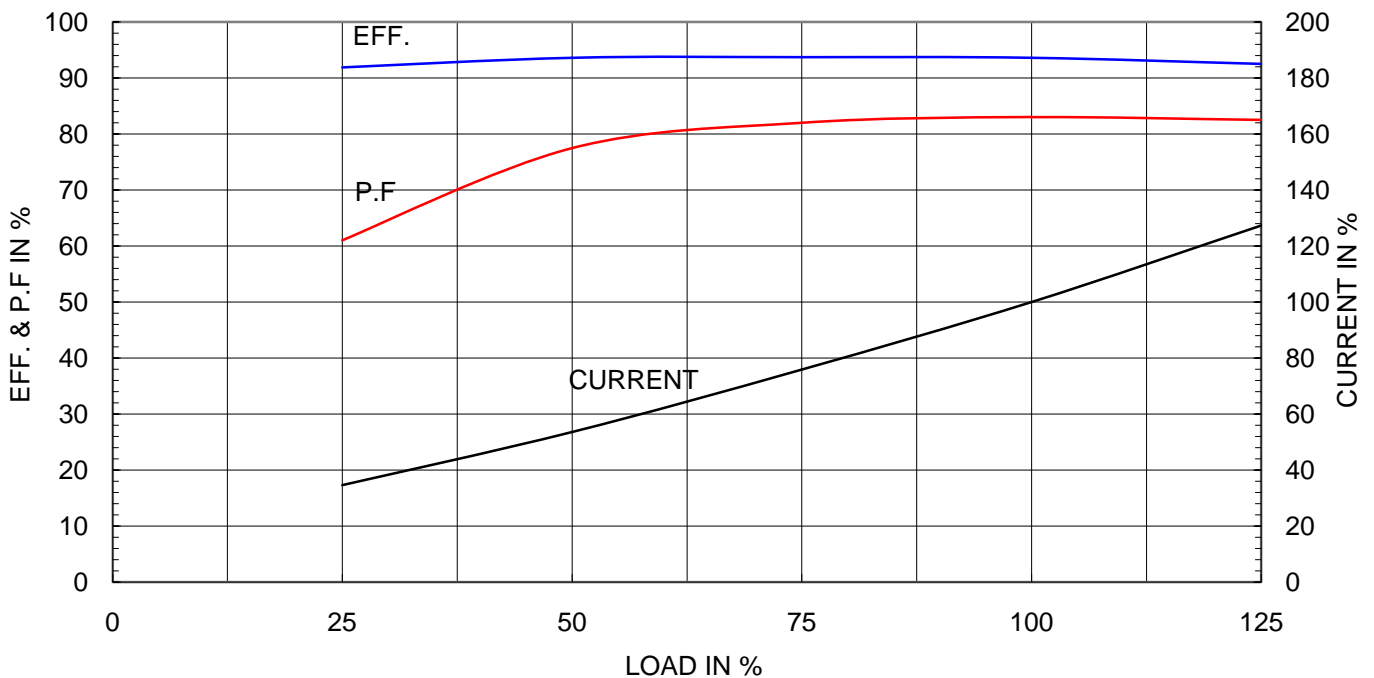
Type	:	HL-XP
Full Load Torque	:	24.7 Kg.m
Motor moment of Inertia (J)	:	0.546 Kg.m ²
Load moment of Inertia (J)	:	26.000 Kg.m ²

45 kW	4 P	60 Hz	
Speed at Full Load :		1775 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	76.0A	88.0A	152.0A

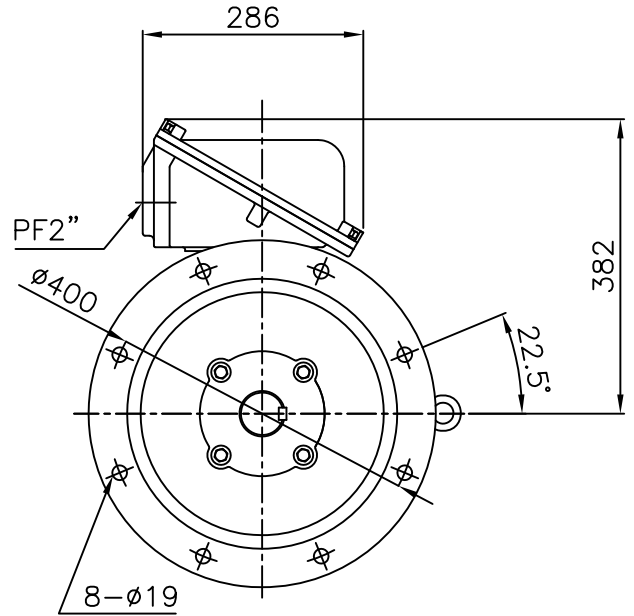
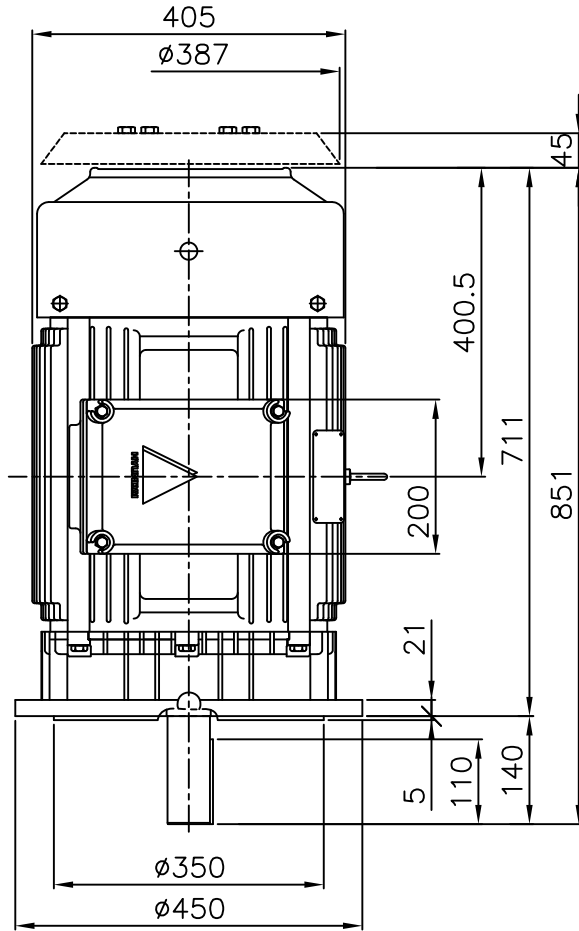
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



Exd II



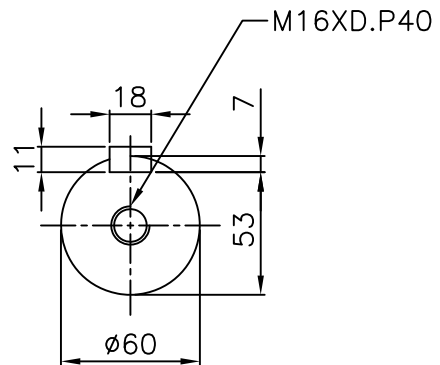
NOTE

1. TOLERANCE :

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

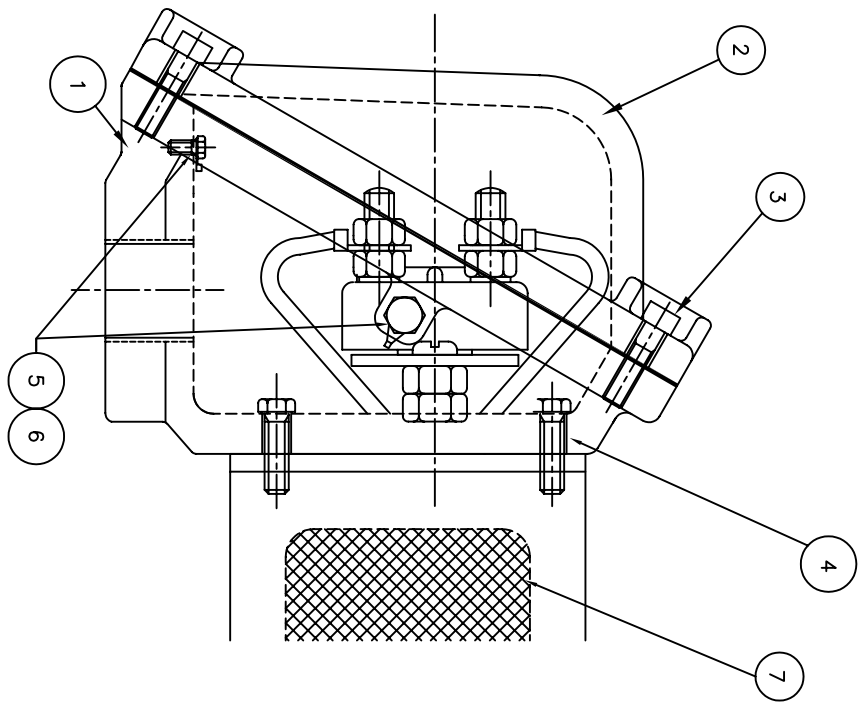
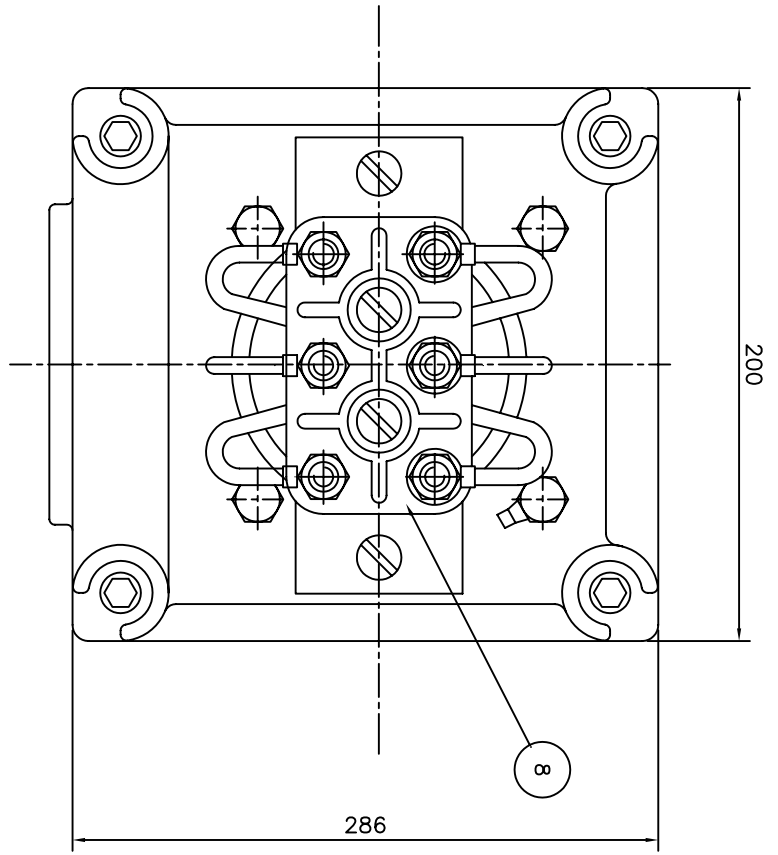
2. REMARK

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	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					
DSND BY	LEE E.J.						
TITLE		MAIN TERMINAL BOX					
REF. NO	7B1470LA		SHEET NO.		0		
DWG NO	227B1470LA		Revision No.		0		

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



HYUNDAI HEAVY INDUSTRIES CO. LTD.
ELECTRICAL ENGINEERING DIVISION