



AC INDUCTION MOTOR DATA SHEET

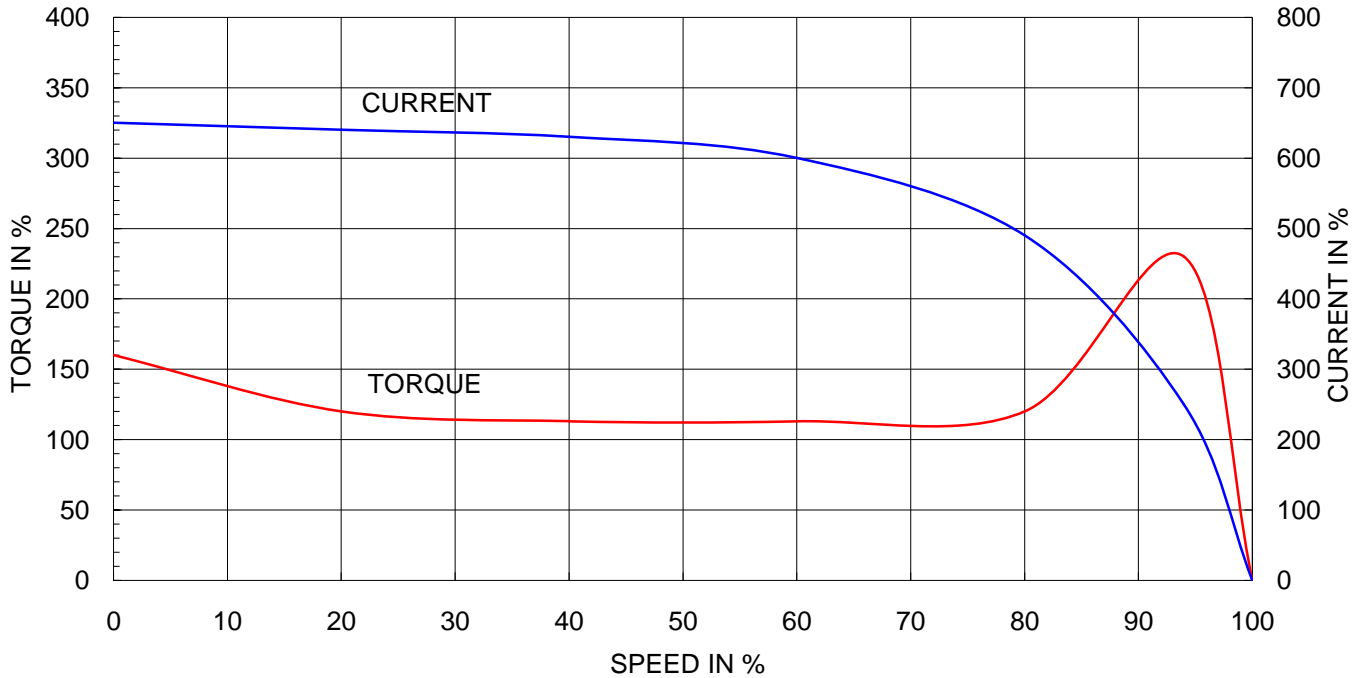
Model No.or RFQ No.			Item No.		Rev. No. [0]			
Project Name			Project No.		Quantity sets			
GENERAL SPECIFICATION				PERFORMANCE DATA				
Frame Size		200LL		Rated Output		37 kW 50 HP		
Type		HL-XP		Number of Poles		2		
Enclosure(Protection)		Explosion Proof (IP55)		Rotor Type		Squirrel Cage		
Method of Cooling		IC411(FC)		Starting Method*		<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 58.4 A 67.6 A 116.8 A		
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**		650 % 650 % 650 %		
Temp. Rise at full load (by resistance method)				Efficiency				
at 1.0 S.F		80 deg. C		50% Load		91.9 %		
Motor Location		<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor		75% Load		92.9 %		
Altitude		Less than 1000 meter		100% Load		92.4 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)				
Ambient Temp.		40 deg. C (Max.)		50% Load		0.855		
Duty Type		Continuos (S1)		75% Load		0.890		
Service Factor		1.00		100% Load		0.900		
Mounting		<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input checked="" type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load		3560 r.p.m		
Bearing		Type Anti-Friction		Torque				
		DE/N-DE 6212ZC3 / 6211ZC3		Full Load		10.1 kg·m		
		Lubricant Grease(Gadus S2 V100 2)		Locked-rotor**		160 %		
External Thrust		Not applicable		Breakdown**		230 %		
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.)		4.750 kg·m ²		
Terminal Main		<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor		0.168 kg·m ²		
Box 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		86 dB(A)				
Application				Vibration				
Area classification		Hazardous		2.2 mm/sec (r.m.s)				
Type of Ex-Protection		Ex d IIB T4		Permissible number of consecutive starts		Cold 3 times Hot 2 times		
Applicable Standard		KS,IEC		Paint		Munsell No. 4.0PB5.4/5.5(VL-451)		
ACCESSORIES				SUBMITTAL DRAWING				
				Outline Dimension Drawing		Motor Weight(Approx.)		
				B3		kg		
				B5		kg		
				V1		227B1616XI9 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 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.

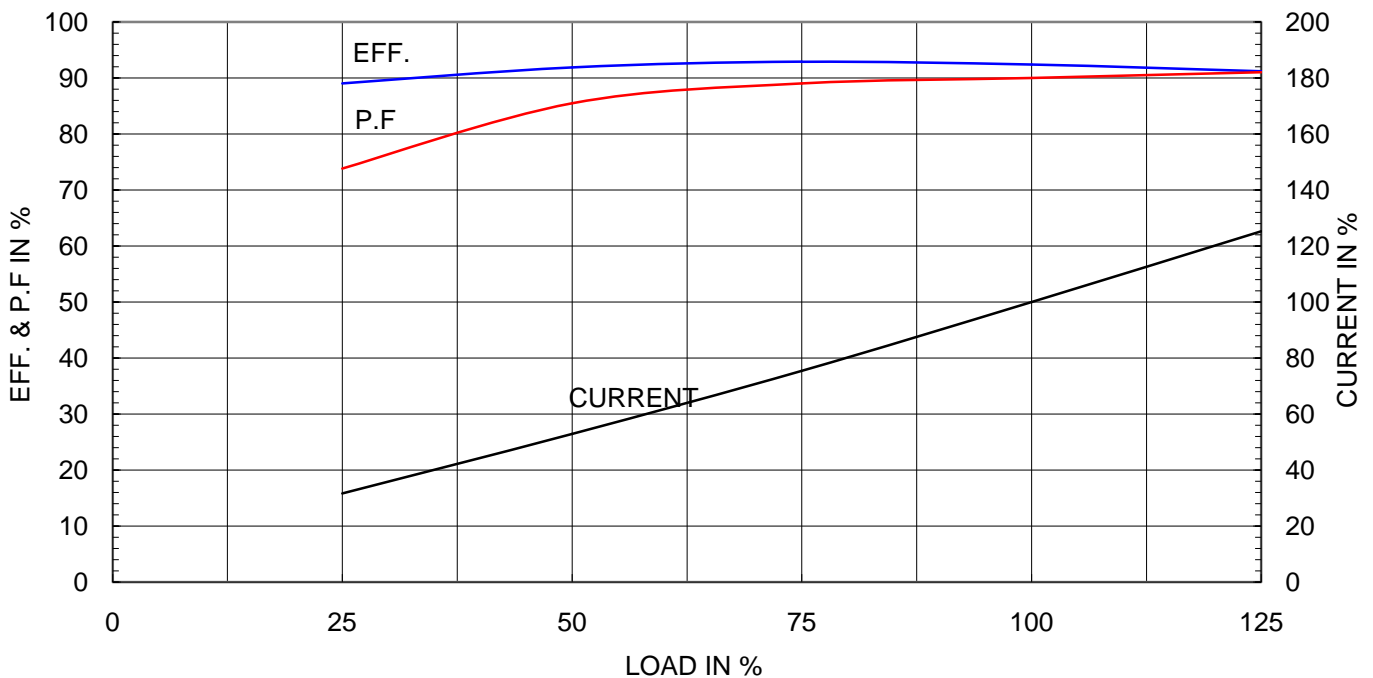
Type	:	HL-XP
Full Load Torque	:	10.1 Kg.m
Motor moment of Inertia (J)	:	0.168 Kg.m ²
Load moment of Inertia (J)	:	4.750 Kg.m ²

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

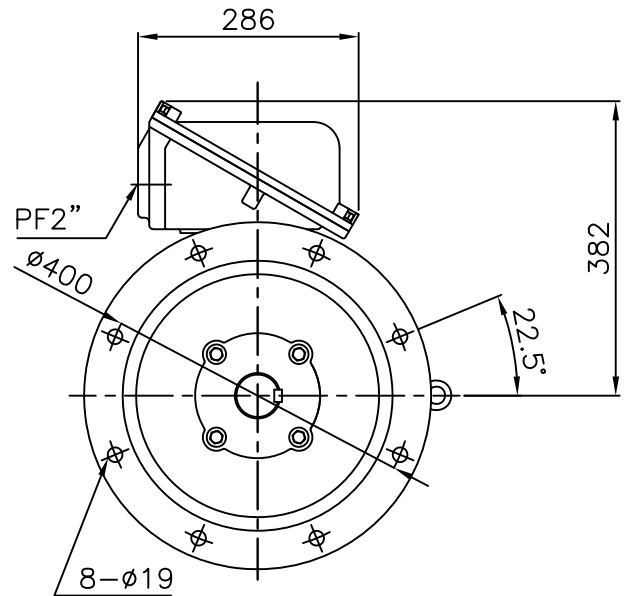
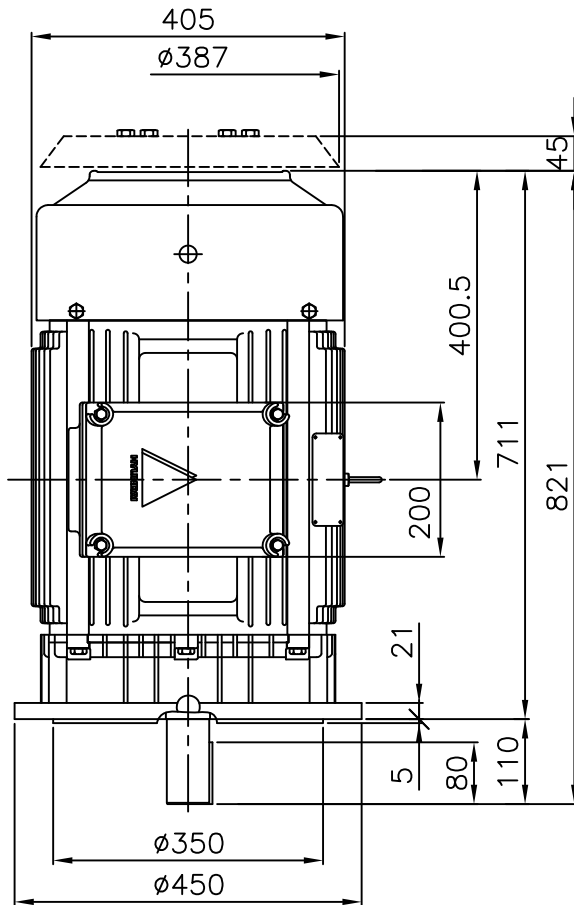
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



Exd II



NOTE

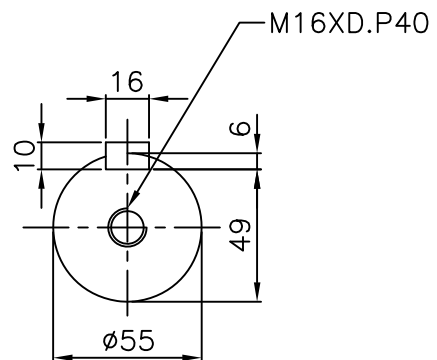
1. TOLERANCE :

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	$\phi 55 \begin{smallmatrix} +0.030 \\ +0.011 \end{smallmatrix}$
KEYWAY WIDTH	$16 \begin{smallmatrix} +0 \\ -0.043 \end{smallmatrix}$
KEYWAY DEPTH	$49 \begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$

2. REMARK

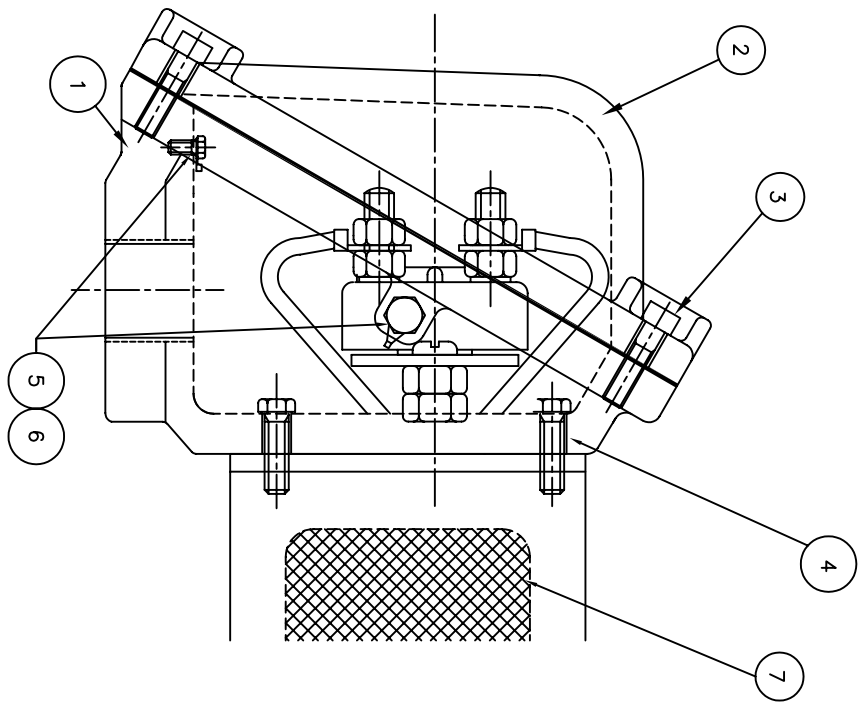
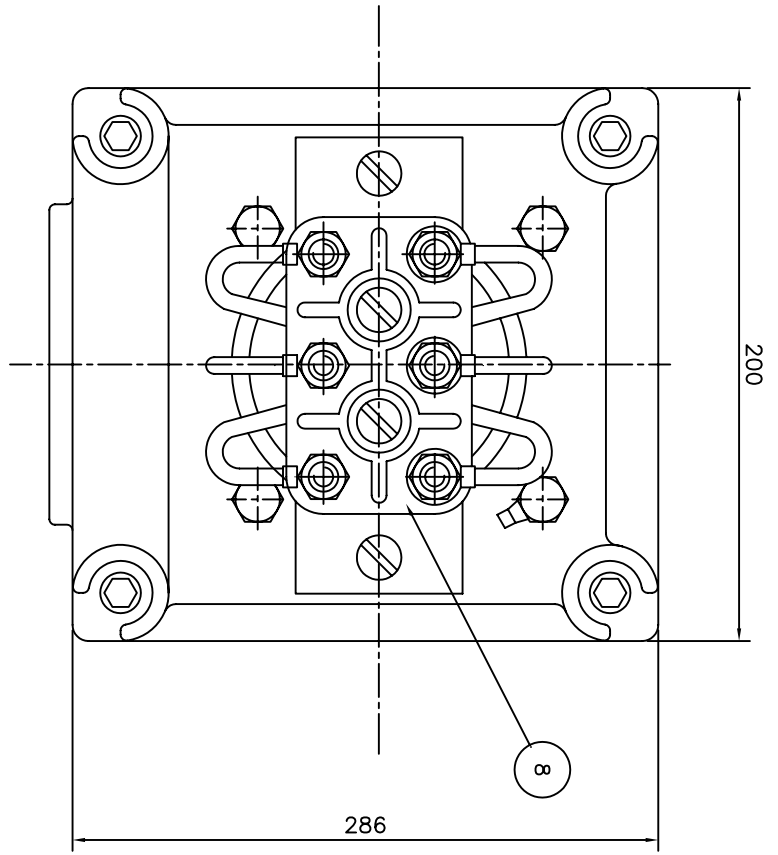
DRIP COVER WILL BE ATTACHED PER REQUEST FROM CUSTOMER ONLY.

*d2G4



APPD BY	KIM.Y.S	UNIT	mm
CHKD BY	---	SCALE	1/10
CHKD BY	KO.S.H	PROJEC'N	3rd Angle
DSND BY	LEE KWANG SOO	DATE	2008.12.05

SUBJECT	XSD KS 200LL 2P	CAD PROJ \ FILE
		XSDNKS\B1616XI09
TITLE		
OUTLINE		



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. of					
DWG NO	227B1470LA	Revision No. 0					

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



HYUNDAI HEAVY INDUSTRIES CO. LTD.
ELECTRICAL ENGINEERING DIVISION