

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	30 kW 40 HP			
Type	HL-XP		Number of Poles	6			
Enclosure(Protection)	Explosion Proof (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y- Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V		
Number of Phases	3		Current	Full Load 52.3 A	60.5 A 104.5 A		
Insulation Class	☒ F ☐ B ☐ 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 92.5 %				
Motor Location	☐ Indoor ☒ Outdoor		75% Load 93.5 %				
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 0.710				
Duty Type	Continuos (S1)		75% Load 0.785				
Service Factor	1.00		100% Load 0.810				
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load 1175 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6313ZC3 / 6211ZC3	Full Load 24.9 kg·m				
	Lubricant	Grease(Gadus S2 V100 2)	Locked-rotor** 170 %				
External Thrust	Not applicable		Breakdown** 220 %				
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.) 50.000 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 0.380 kg·m²				
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	70 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		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

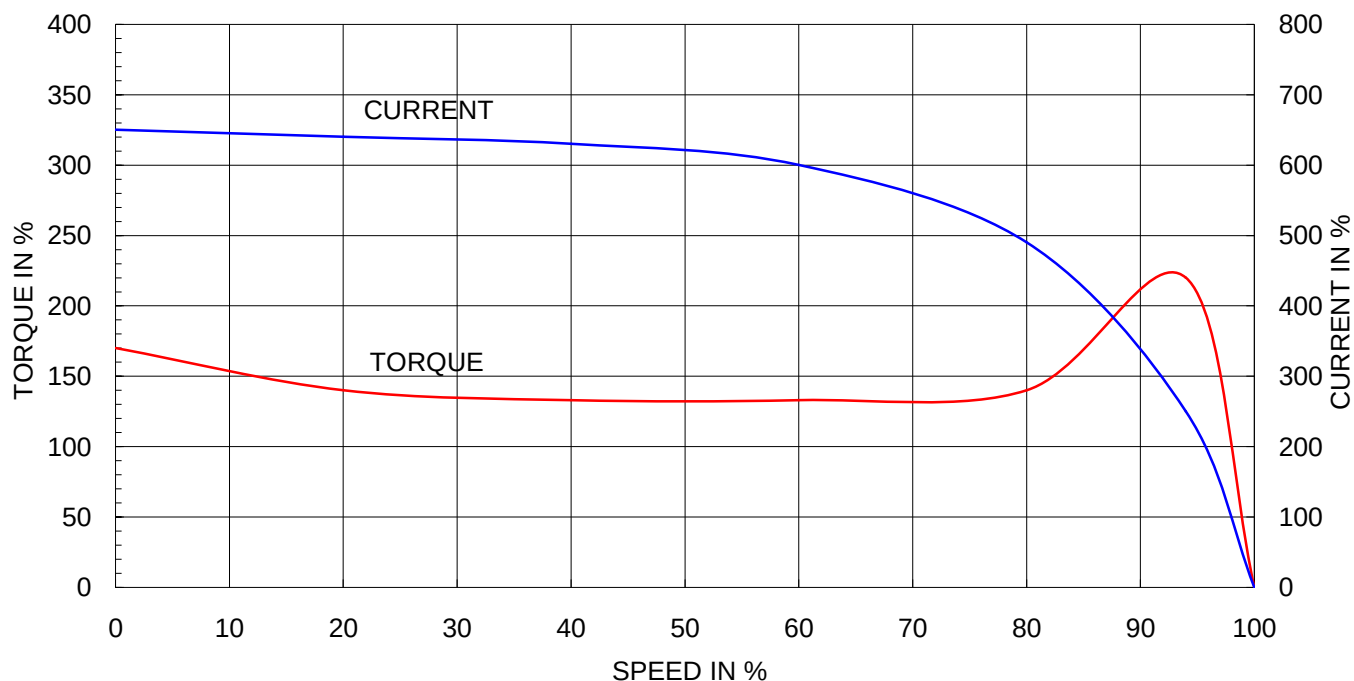
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed 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)

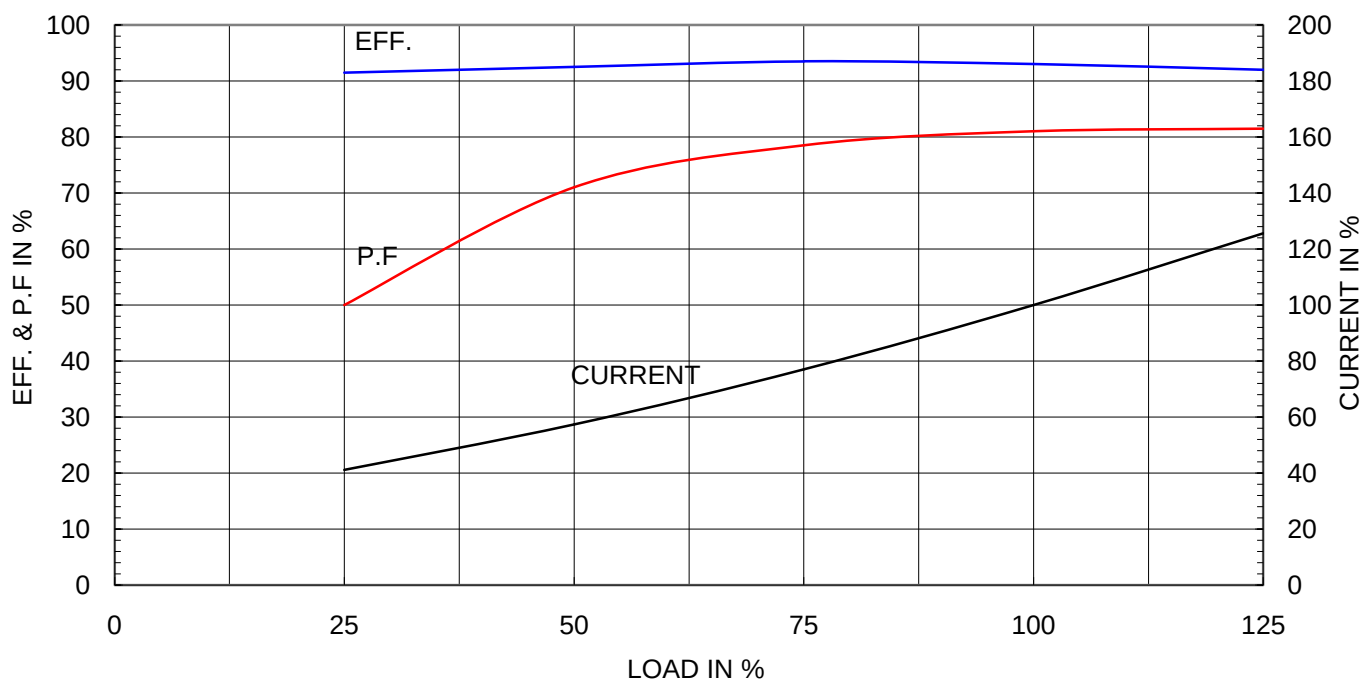
Type	:	HL-XP
Full Load Torque	:	24.9 Kg.m
Motor moment of Inertia (J)	:	0.380 Kg.m ²
Load moment of Inertia (J)	:	50.000 Kg.m ²

30 kW		6 P		60 Hz	
Speed at Full Load :				1175 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	52.3A	60.5A	104.5A		

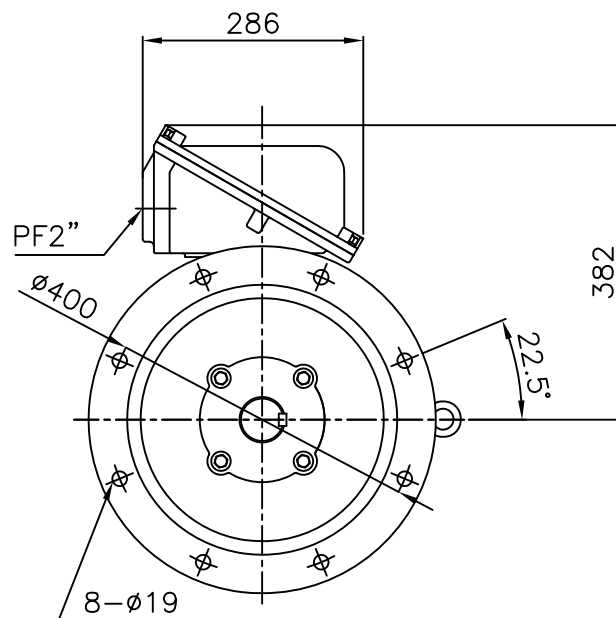
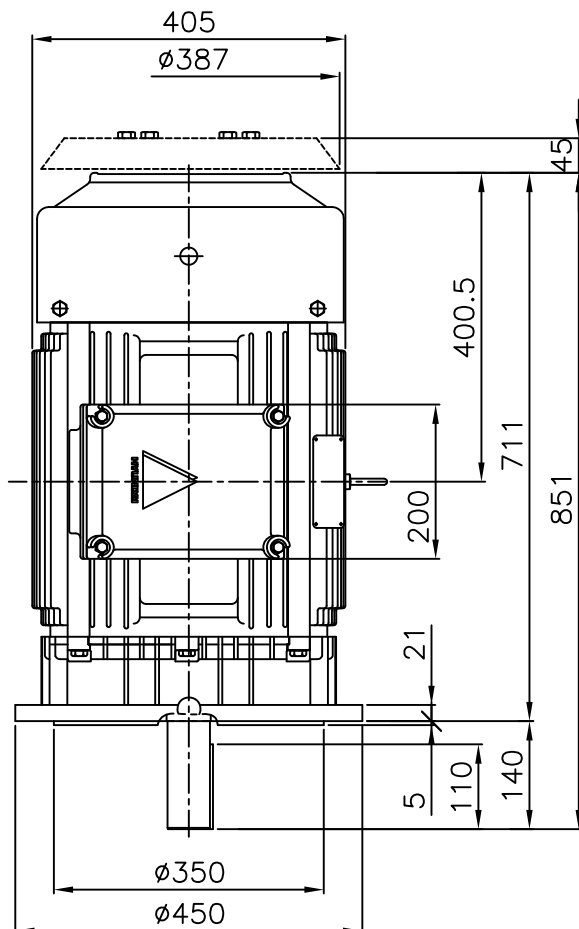
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



Exd II



NOTE

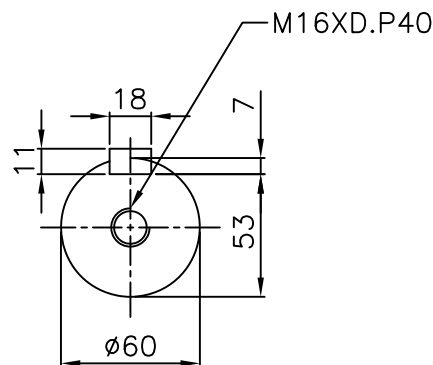
1.TOLERANCE :

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	$53 \begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$

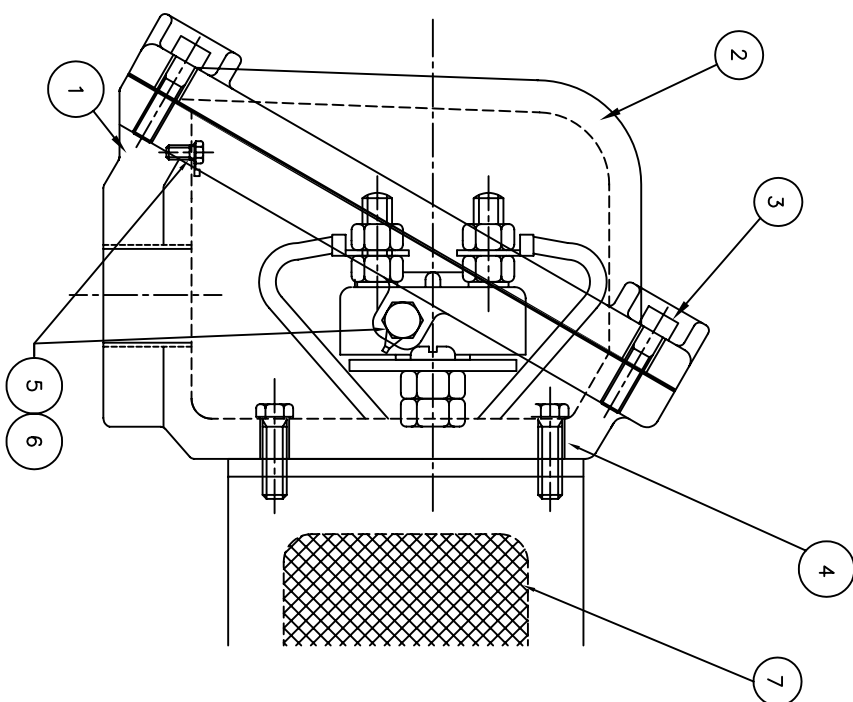
2. REMARK

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			XSDNKS\B1616XI10
CHKD BY	KO.S.H	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	LEE KWANG SOO	DATE	2008.12.05			
 HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	B1616XI10	Sheet No. of
				DWG NO	227B1616XI10	Revision No. 0

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