

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	100L		Rated Output	2.2 kW 3 HP			
Type	HL-XP		Number of Poles	4			
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 4.1 A	4.7 A 8.2 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	650 %	650 % 650 %		
Temp. Rise at full load (by resistance method)	at 1.0 S.F 80 deg. C		Efficiency	50% Load 87.0 %			
Motor Location	☒ Indoor ☐ Outdoor			75% Load 88.0 %			
Altitude	Less than 1000 meter			100% Load 87.5 %			
Relative Humidity	Less than 80 %		Power Factor(p.u)	50% Load 0.649			
Ambient Temp.	40 deg. C (Max.)			75% Load 0.753			
Duty Type	Continuos (S1)			100% Load 0.805			
Service Factor	1.00		Speed at Full Load	1750 r.p.m			
Mounting	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Torque	Full Load 1.2 kg·m			
Bearing	Type	Anti-Friction		Locked-rotor** 200 %			
	DE/N-DE	6206ZZC3 / 6206ZZC3		Breakdown** 270 %			
	Lubricant	Grease(Polyrex-EM)	Moment of Inertia (J)	Load(Max.) 2.500 kg·m²			
External Thrust	Not applicable			Motor 0.008 kg·m²			
Coupling Method	☒ Direct ☐ V-Belt		Sound Pressure Level (No-load & mean value at 1m from motor)	64 dB(A)			
Shaft Extension	☒ Single ☐ Double		Vibration	1.6 mm/sec (r.m.s)			
Terminal	Main	☐ Steel ☒ Cast Iron	Permissible number of consecutive starts	Cold 3 times	Hot 2 times		
Box	Aux.	☐ Yes ☒ No	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
	Location	Refer to Outline Drawing	SUBMITTAL DRAWING				
Application			Outline Dimension Drawing \ Motor Weight(Approx.)				
Area classification	Hazardous		B3	227B2002AA01	43 kg		
Type of Ex-Protection	Ex d IIB T4		B5		kg		
Applicable Standard	KS,IEC		V1		kg		
ACCESSORIES			B3/B5		0 kg		
			Main T-Box Ass'y	227B1470LC			
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

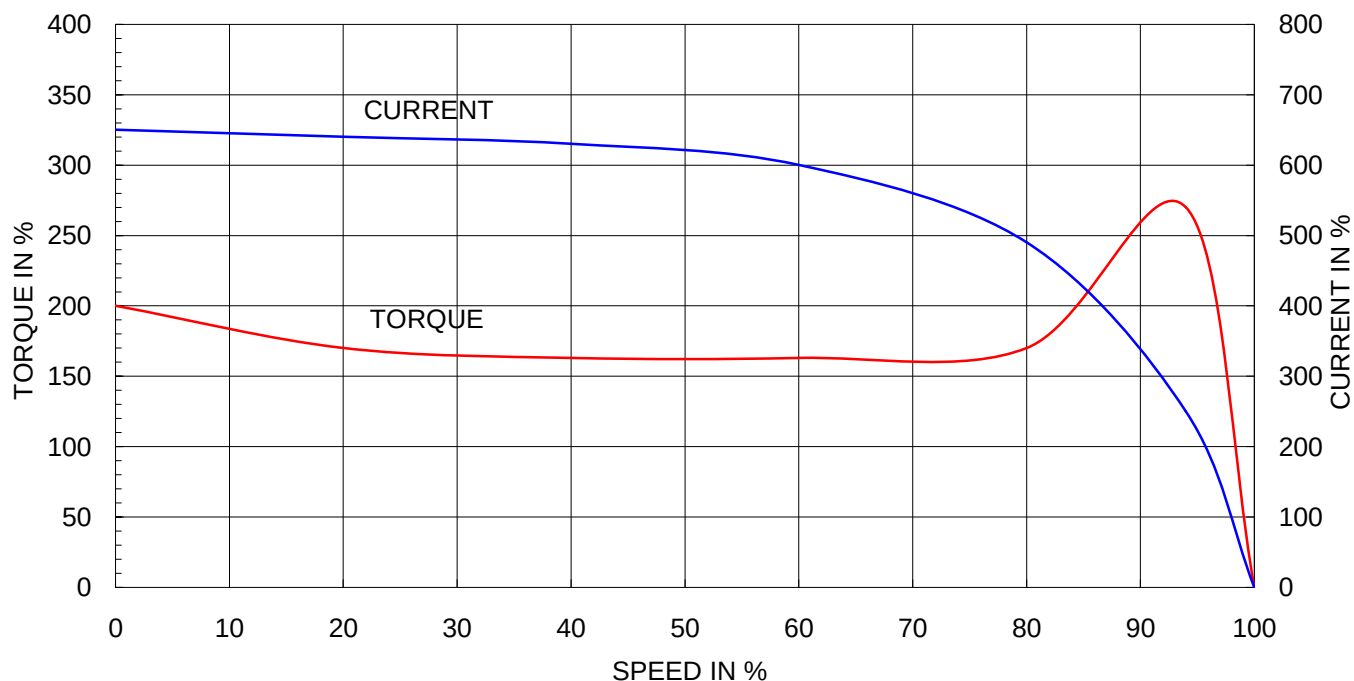
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

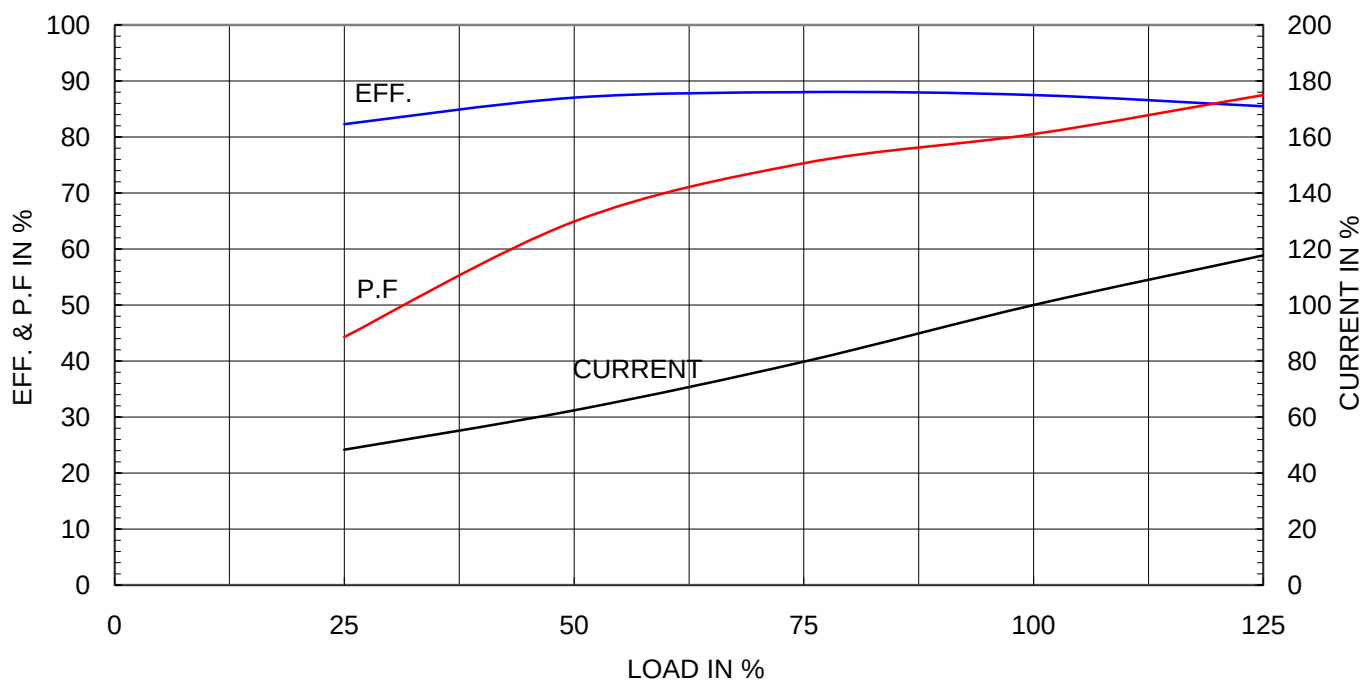
Type	:	HL-XP
Full Load Torque	:	1.2 Kg.m
Motor moment of Inertia (J)	:	0.008 Kg.m ²
Load moment of Inertia (J)	:	2.500 Kg.m ²

2.2 kW		4 P		60 Hz	
Speed at Full Load :				1750 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	4.1A	4.7A	8.2A		

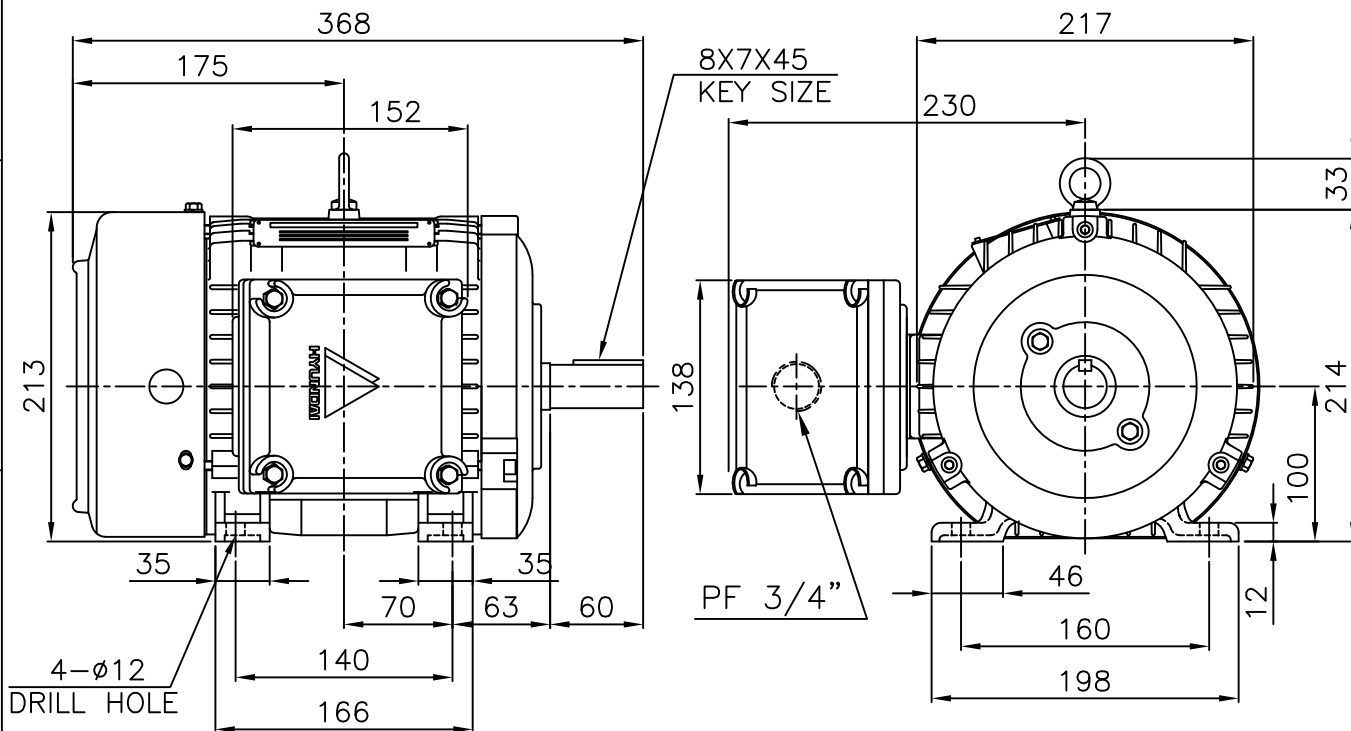
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



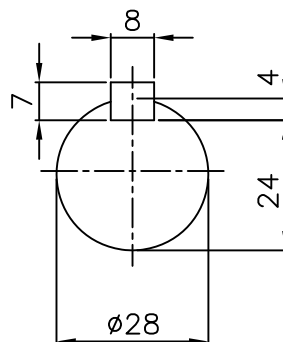
Exd II



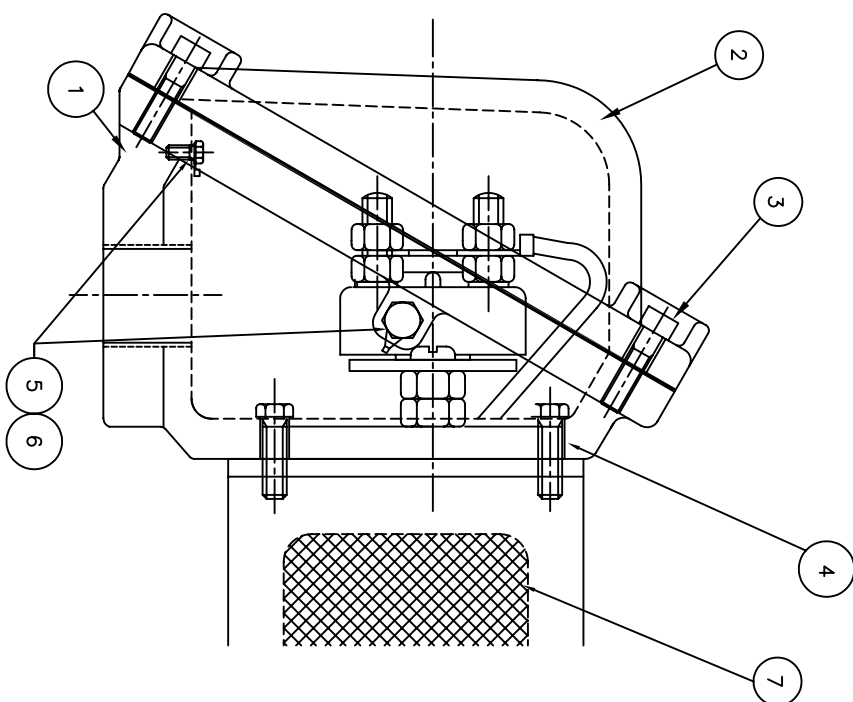
NOTE

1.TOLERANCE :

CENTER HEIGHT	100	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	$\phi 12$	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 28$	$\begin{smallmatrix} +0.009 \\ -0.004 \end{smallmatrix}$
KEYWAY WIDTH	8	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEYWAY DEPTH	4	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$



APPD BY	B. M. YOO	UNIT	mm	SUBJECT	KS 100L	CAD PROJ \ FILE
CHKD BY		SCALE	1/5			XSDNKS\B2002AA01
CHKD BY	S. W. SEO	PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND BY	J. S. JEONG	DATE	2008.10.23.			
 HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	B2002AA01	Sheet No. of
				DWG NO	227B2002AA01	Revision No. 0

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