

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	112M		Rated Output	3.7 kW 5 HP			
Type	HL-XP		Number of Poles	2			
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 6.5 A	7.5 A 12.9 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	86.5 %			
Motor Location	☒ Indoor ☐ Outdoor		75% Load	87.7 %			
Altitude	Less than 1000 meter		100% Load	87.5 %			
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load	0.757			
Duty Type	Continuos (S1)		75% Load	0.820			
Service Factor	1.00		100% Load	0.860			
Mounting	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load	3430 r.p.m			
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6206ZZC3 / 6206ZZC3	Full Load	1.1 kg·m			
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**	200 %			
External Thrust	Not applicable		Breakdown**	250 %			
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.)	0.800 kg·m²			
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor	0.007 kg·m²			
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)	73 dB(A)			
	Location	Refer to Outline Drawing	Vibration	1.6 mm/sec (r.m.s)			
Application			Permissible number of consecutive starts	Cold 3 times	Hot 2 times		
Area classification	Hazardous		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
Type of Ex-Protection	Ex d IIB T4		SUBMITTAL DRAWING				
Applicable Standard	KS,IEC		Outline Dimension Drawing \ Motor Weight(Approx.)				
ACCESSORIES			B3	227B2002AA02	47 kg		
			B5		kg		
			V1		kg		
			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.

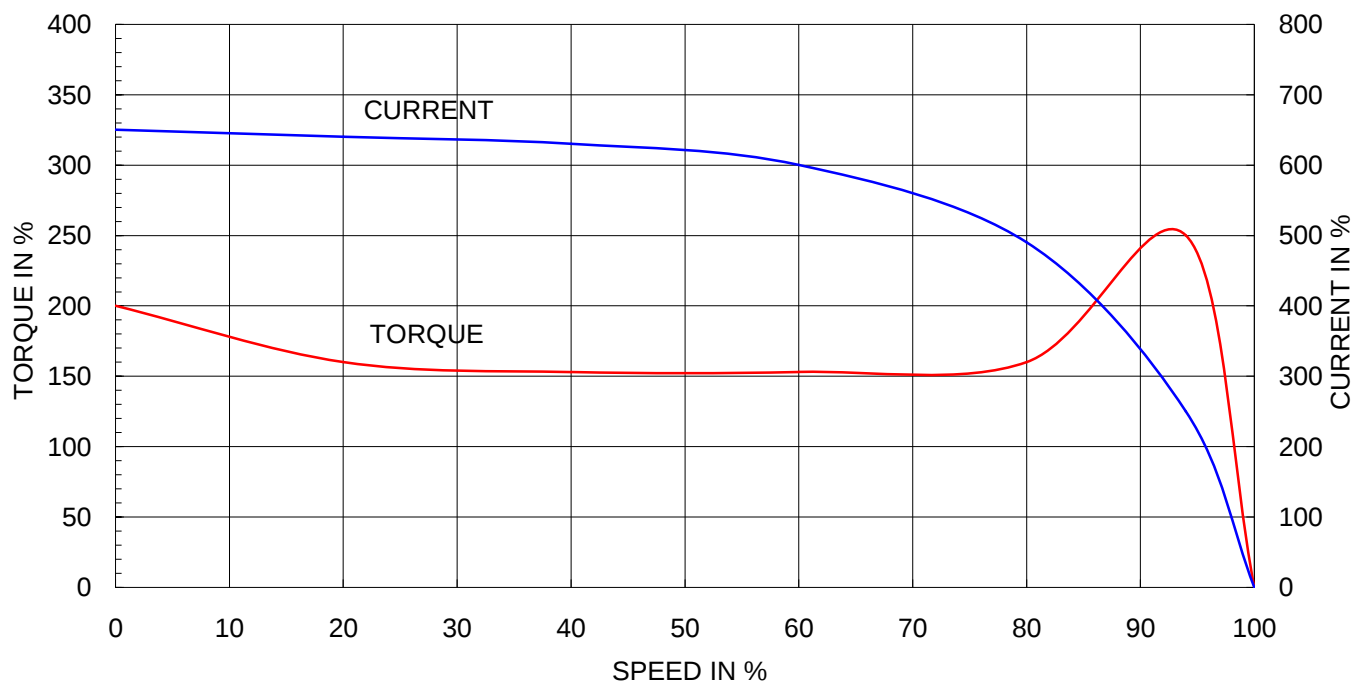
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

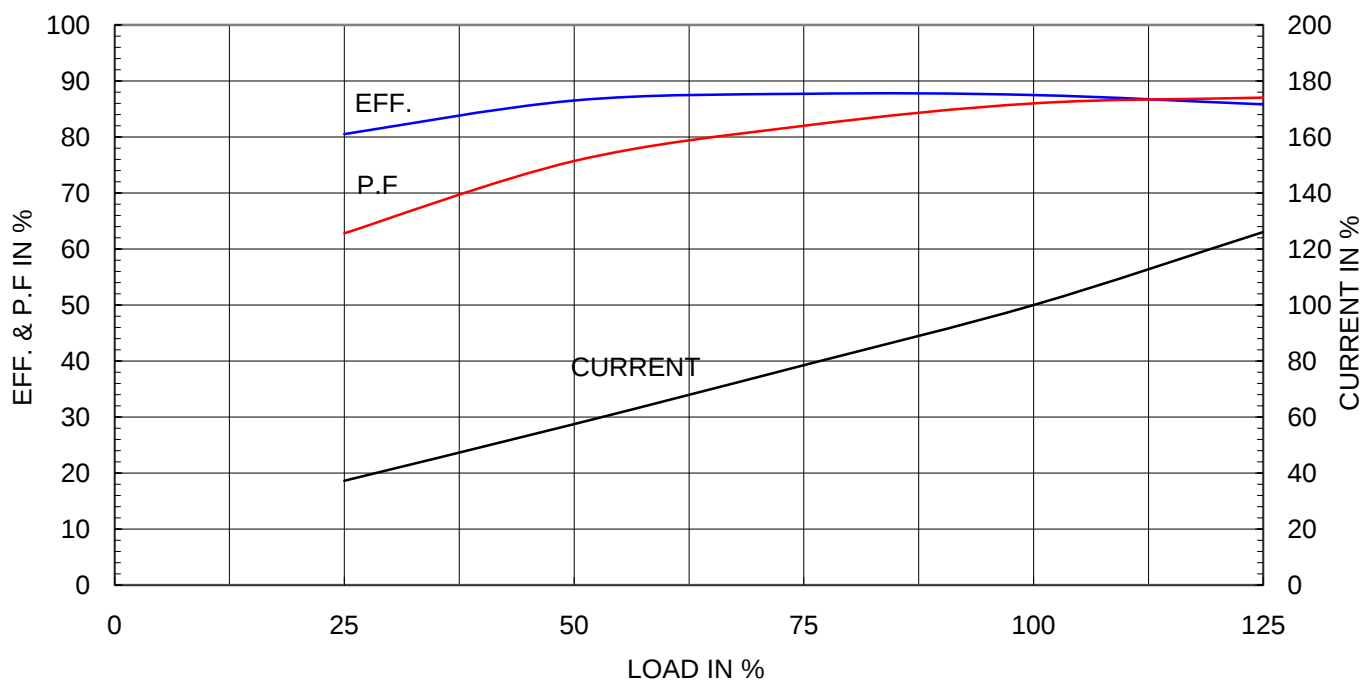
Type	:	HL-XP
Full Load Torque	:	1.1 Kg.m
Motor moment of Inertia (J)	:	0.007 Kg.m ²
Load moment of Inertia (J)	:	0.800 Kg.m ²

3.7 kW		2 P		60 Hz	
Speed at Full Load :				3430 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	6.5A	7.5A	12.9A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





TEFC

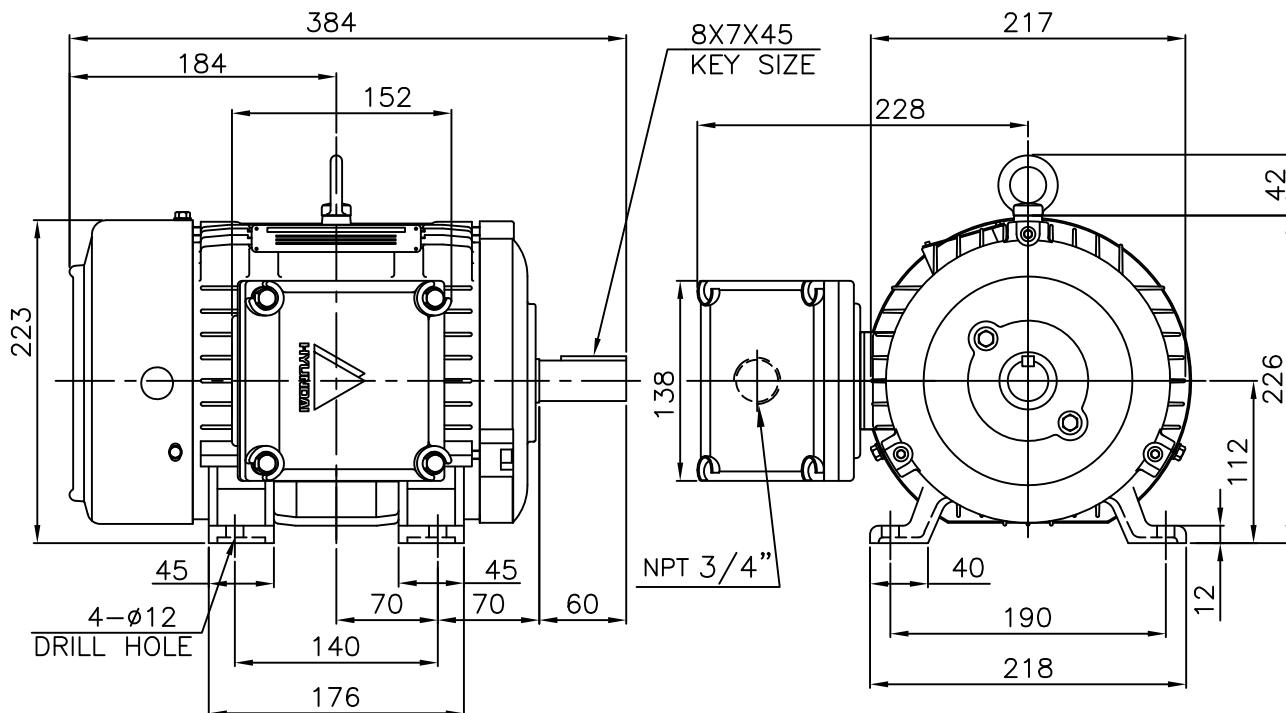
THREE PHASE INDUCTION MOTOR

TYPE

HL , HLS

CAST IRON FRAME

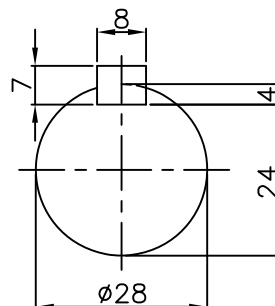
Exd II



NOTE

1.TOLERANCE :

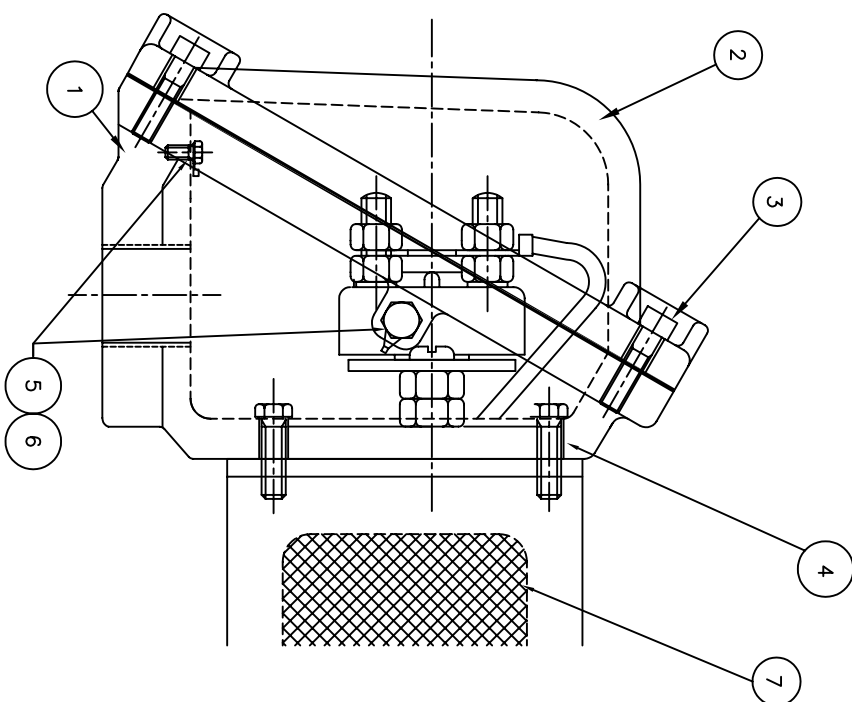
CENTER HEIGHT	112	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	$\phi 12$	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 28$	$\begin{smallmatrix} +0.009 \\ -0.004 \end{smallmatrix}$
KEYWAY WIDTH	8	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEYWAY DEPTH	4	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$



APPD BY	B. M. YOO	UNIT	mm	SUBJECT	IEC 112M	CAD PROJ \ FILE	XSMOUT\B2002AA02
CHKD BY		SCALE	1/6	TITLE	OUTLINE		
CHKD BY	S. W. SEO	PROJEC'N	3rd Angle	REF. NO	227B2002AA02	Sheet No.	of
DSND BY	J. S. JEONG	DATE	2008.06.27.	DWG NO	227B2002AA02	Revision No.	0



HYUNDAI
HEAVY INDUSTRIES CO., LTD.
Electro-Electric System Division



1	TERMINAL BLOCK						8
.	SEALING COMPOUND	D4C29C					7
2	GRD TERMINAL LUG	CU					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	FC15					1
	ASSEMBLY						
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY		UNIT	MM	SUBJECT		CAD PROJ \ FILE \	
CHKD BY		SCALE	N/S	IEC100-32FR d2c4		XSMOUT\7B146BLC	
CHKD BY		PROJEC'N	3 45°(3rd Angle)	TITLE			
DSND BY	LEE E.J.	DATE	99.2.2	MAIN TERMINAL BOX			
				REF. NO	7B1469LC	Sheet No.	of
				DWG NO	227B1469LC	Revision No.	0