

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	90L		Rated Output	1.5 kW 2 HP			
Type	HK-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 3.0 A	3.5 A 6.0 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	780 %	780 % 780 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 82.5 %				
Motor Location	☒ Indoor ☐ Outdoor		75% Load 83.5 %				
Altitude	Less than 1000 meter		100% Load 84.0 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.581				
Duty Type	Continuos (S1)		75% Load 0.706				
Service Factor	1.00		100% Load 0.780				
Mounting	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1735 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6205ZZ / 6204ZZ	Full Load 0.8 kg·m				
	Lubricant	Grease(SML4)	Locked-rotor** 310 %				
External Thrust	Not applicable		Breakdown** 360 %				
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.) 1.050 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 0.004 kg·m²				
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	64 dB(A)				
Application			Vibration 1.6 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				
ACCESSORIES			Paint Munsell No. 4.0PB5.4/5.5(VL-451)				
			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B5000AD03	28 kg		
			B5		kg		
			V1		kg		
			B3/B5		kg		
			Main T-Box Ass'y	227B1536AA			
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.

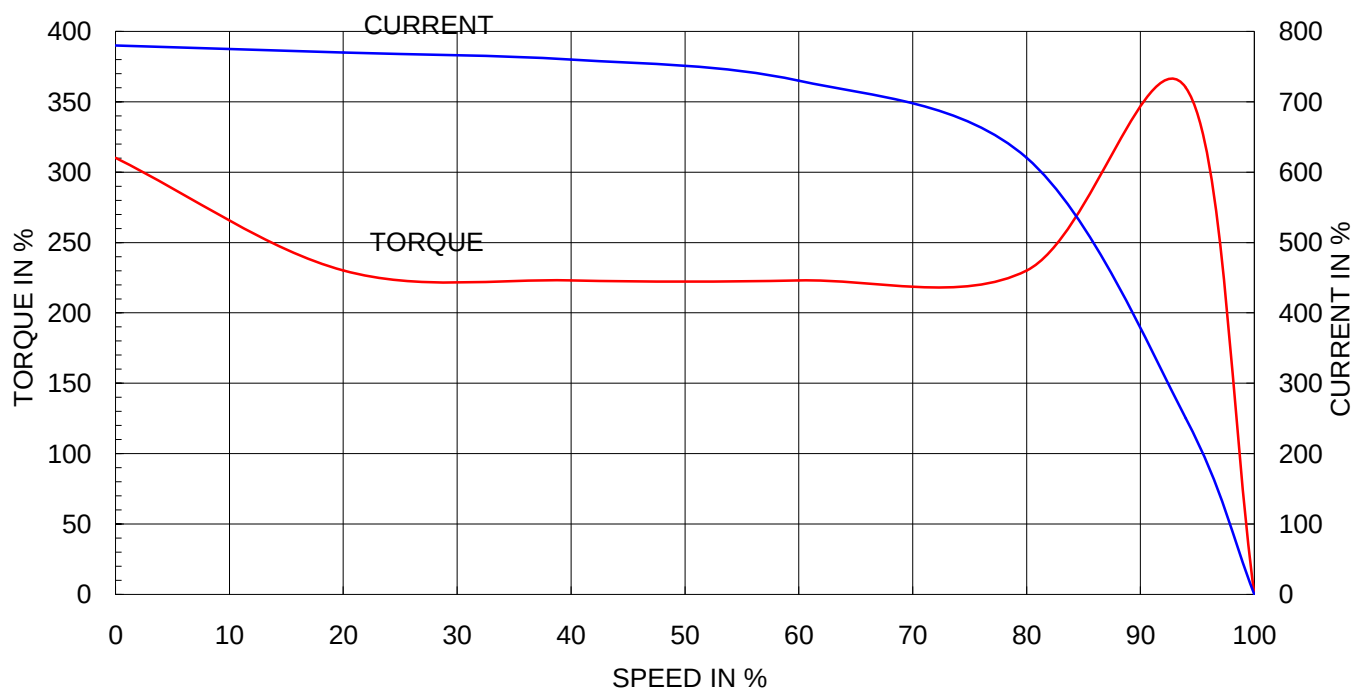
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

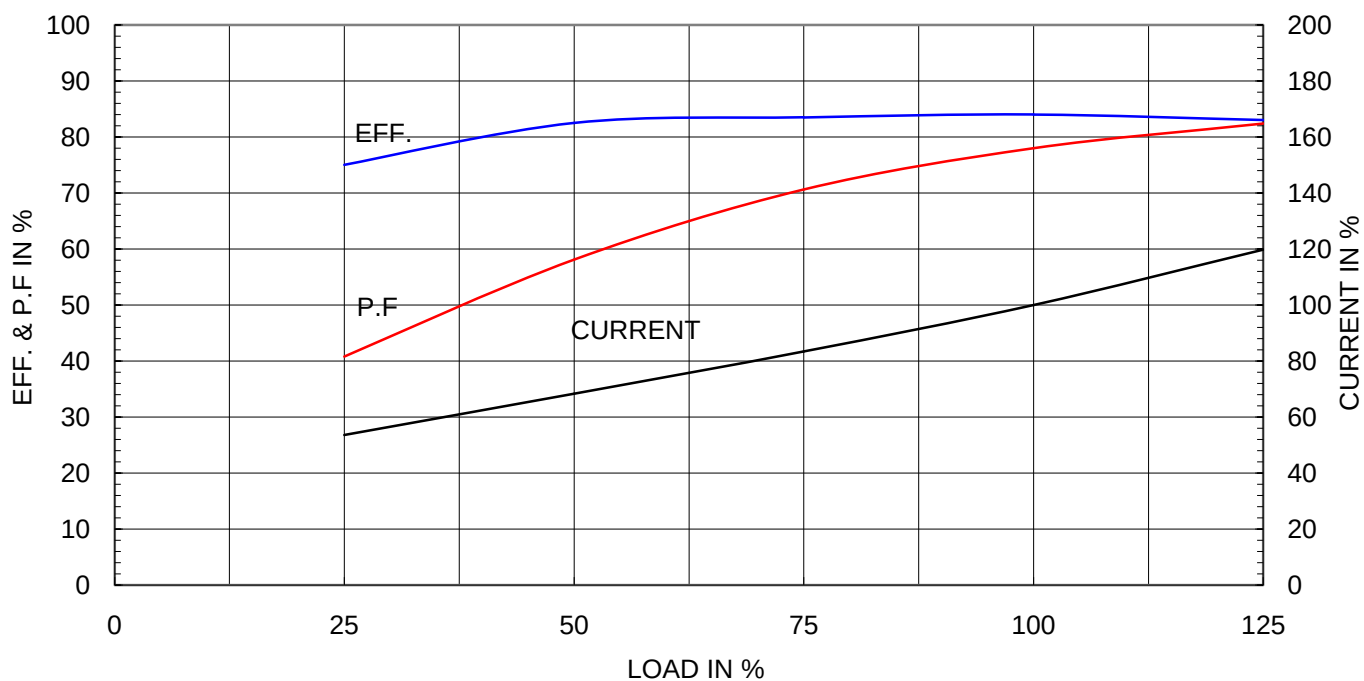
Type	:	HL-XP
Full Load Torque :	0.8	Kg.m
Motor moment of Inertia (J) :	0.004	Kg.m ²
Load moment of Inertia (J) :	1.050	Kg.m ²

1.5 kW		4 P		60 Hz	
Speed at Full Load :				1735 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	3.0A	3.5A	6.0A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





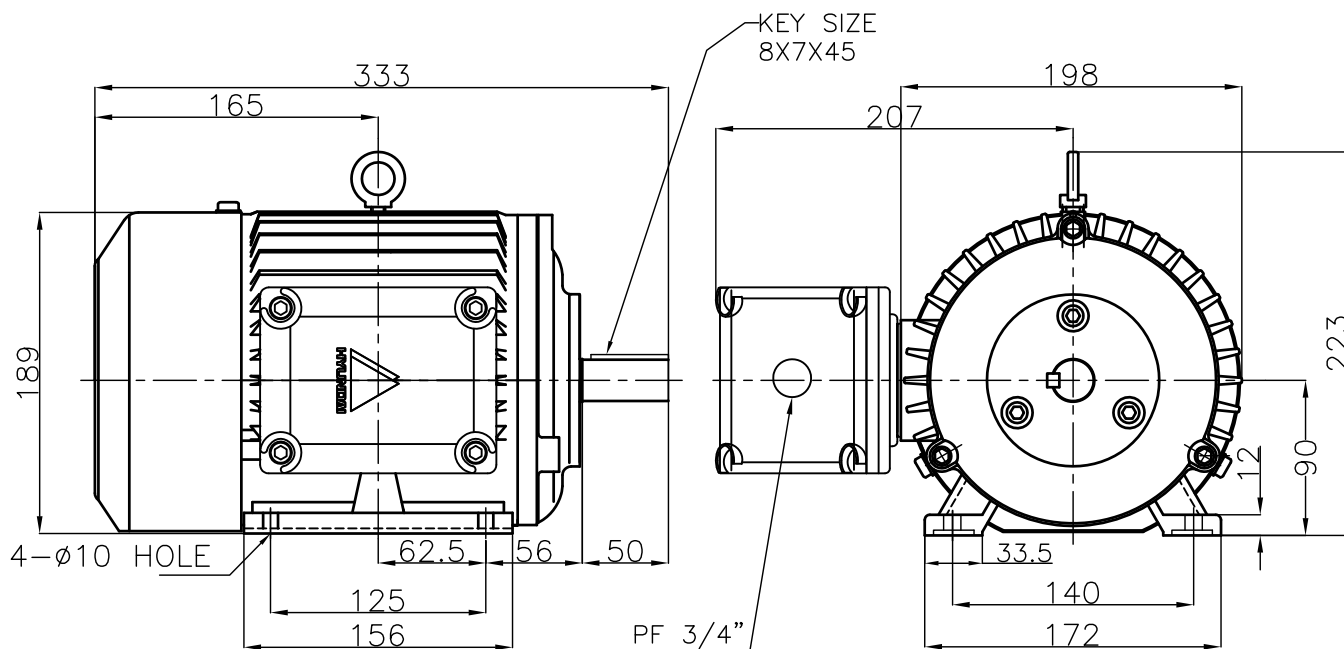
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

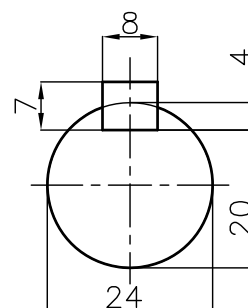
CI FRAME



NOTE

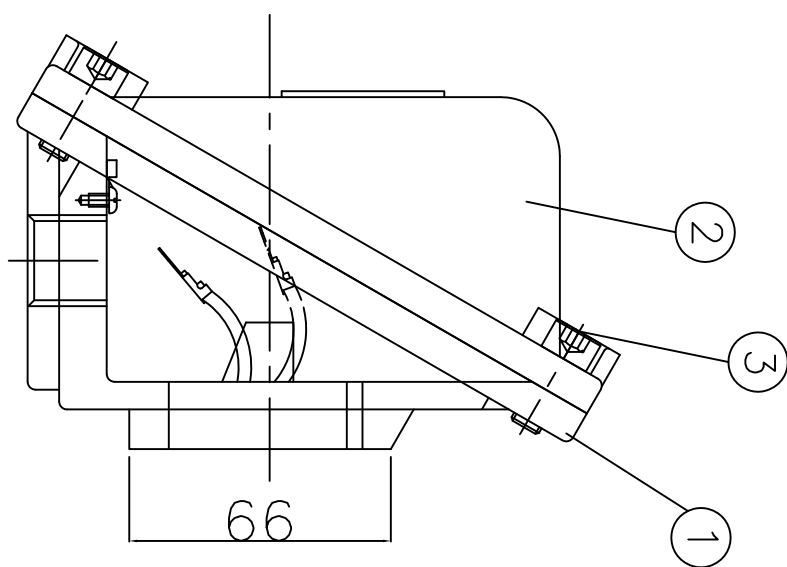
1.TOLERANCE :

CENTER HEIGHT	90	$+0$ -0.5
BASE HOLES	ø10	$+0.36$ -0
SHAFT DIAMETER	ø24	$+0.009$ -0.004
KEYWAY WIDTH	8	$+0$ -0.036
KEYWAY DEPTH	20	$+0$ -0.2



* CAST IRON CONDUIT BOX

APPD BY	B.M.YOO	UNIT	mm	SUBJECT	IEC 90L	CAD PROJ \ FILE
CHKD BY	S.W.SEO	SCALE	1/0.34	TITLE	OUTLINE	D2G4
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle			
DSND BY	C.S.KO	DATE	2008.01.12			
				REF. NO	090\090ASD2G4	Sheet No. of
HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				DWG NO	227B5000AD03	Revision No. 0



										6
										5
1	GROUND TERMINAL LUG									4
4	SCREW									3
1	C/B COVER									2
1	CONDUIT BOX									1
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.			
APPD BY	B.M.YOO	UNIT	NM	SUBJECT	CB ASM					
CHKD BY	S.W.SEO	SCALE	1 / 0.48							
CHKD BY	J.S.JEONG	PROJ.E/C'N	3rd Angle	TITLE CONDUIT BOX ASSEMBLY				6-LEADS		
DSND BY	C.S.KO	DATE	2008.01.12							
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				REF. NO	227B1536AA1	Sheet No.	of			
				DWG NO	227B1536AA1	Revision No.	0			