

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	0.75 kW 1 HP	
Type	HK-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	1.8 A 2.1 A 3.6 A
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	600 %	600 % 600 %
Temp. Rise at full load (by resistance method)			Efficiency		
at 1.0 S.F 80 deg. C			50% Load 77.0 %		
Motor Location ☒ Indoor ☐ Outdoor			75% Load 79.5 %		
Altitude Less than 1000 meter			100% Load 80.0 %		
Relative Humidity Less than 80 %			Power Factor(p.u)		
Ambient Temp. 40 deg. C (Max.)			50% Load 0.471		
Duty Type Continuos (S1)			75% Load 0.594		
Service Factor 1.00			100% Load 0.685		
Mounting ☐ B3 ☒ B5 ☐ V1 ☐ B3/B5			Speed at Full Load 1145 r.p.m		
Bearing	Type	Anti-Friction		Torque	
	DE/N-DE	6205ZZ / 6204ZZ		Full Load 0.6 kg·m	
	Lubricant	Grease(SML4)		Locked-rotor** 280 %	
External Thrust Not applicable			Breakdown** 330 %		
Coupling Method ☒ Direct ☐ V-Belt			Moment of Inertia (J)		
Shaft Extension ☒ Single ☐ Double			Load(Max.) 2.000 kg·m²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor 0.003 kg·m²	
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)	
	Location	Refer to Outline Drawing		55 dB(A)	
Application			Vibration 1.6 mm/sec (r.m.s)		
Area classification Hazardous			Permissible number of		
Type of Ex-Protection Ex d IIB T4			consecutive starts 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	227B5023AD03	30 kg
			V1		kg
			B3/B5		kg
			Main T-Box Ass'y 227B1536AA		
SPARE PARTS			REMARK High Efficiency		
			Date	DSND	CHKD
			2011-04-14	W.H.BACK	S. J. RA
					CHKD
					APPD
					J. H. KIM

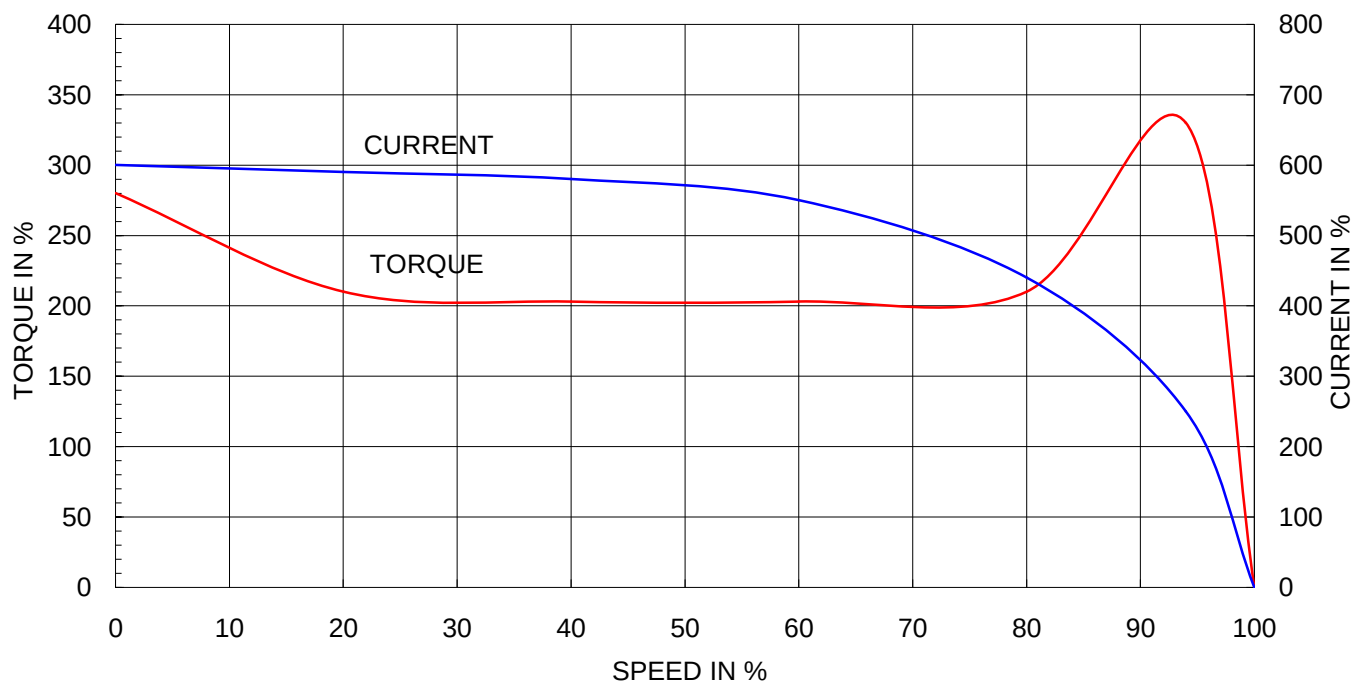
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

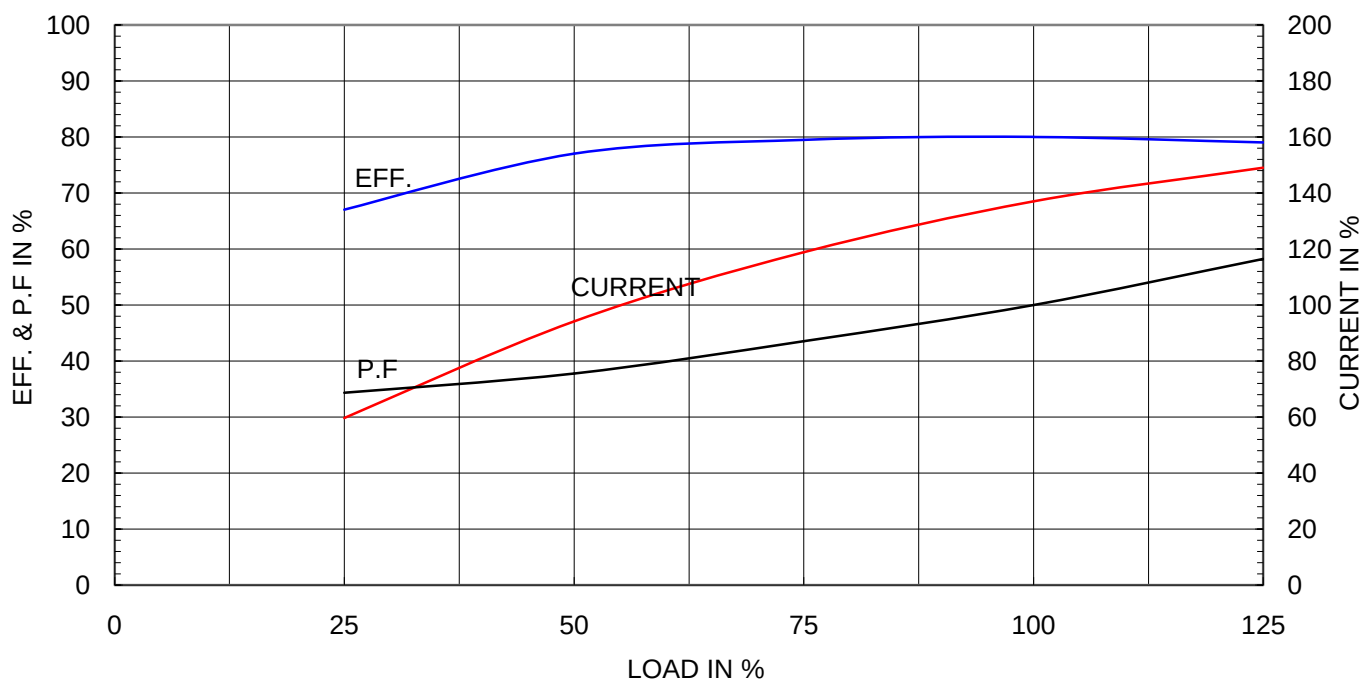
Type	:	HL-XP
Full Load Torque	:	0.6 Kg.m
Motor moment of Inertia (J)	:	0.003 Kg.m ²
Load moment of Inertia (J)	:	2.000 Kg.m ²

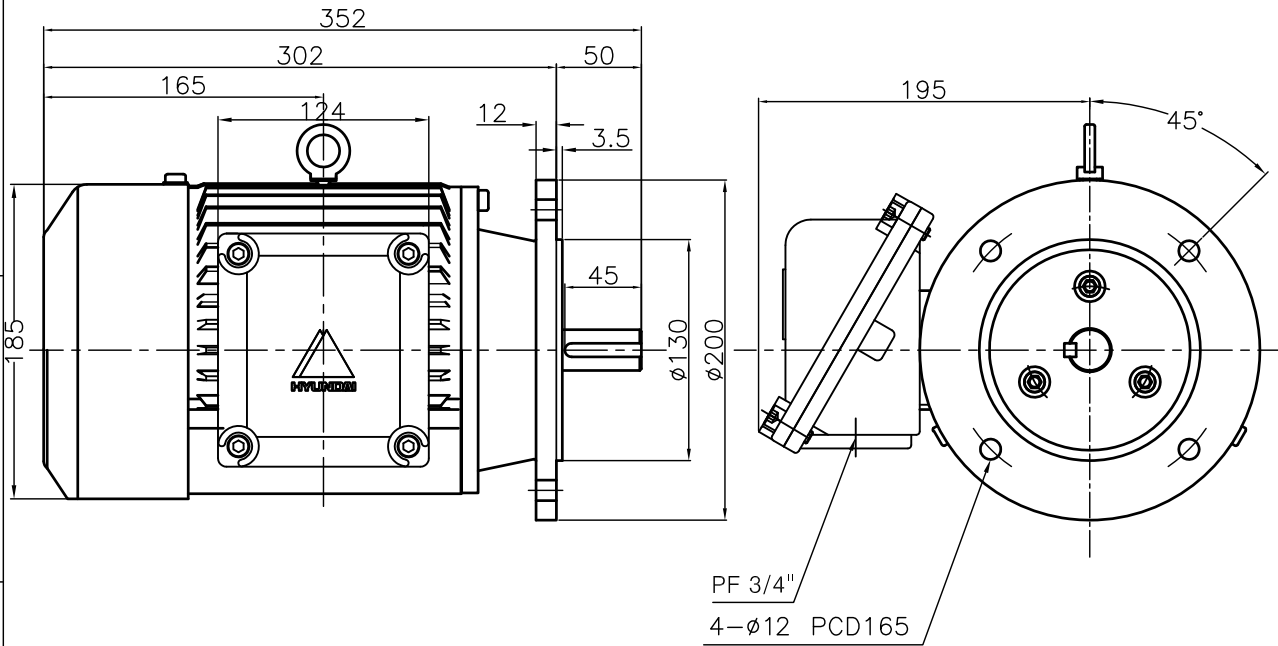
0.75 kW		6 P		60 Hz	
Speed at Full Load :				1145 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	1.8A	2.1A	3.6A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

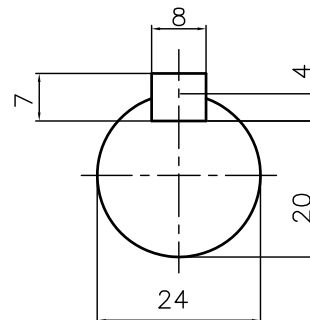




NOTE

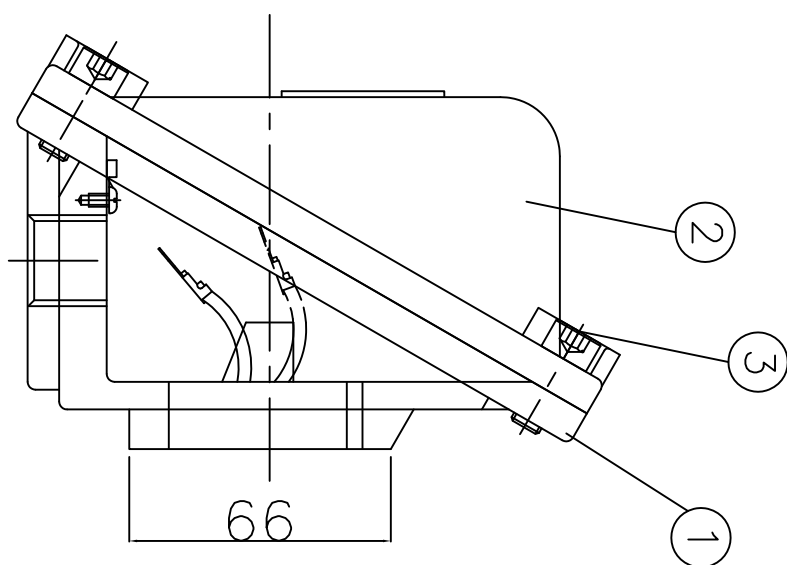
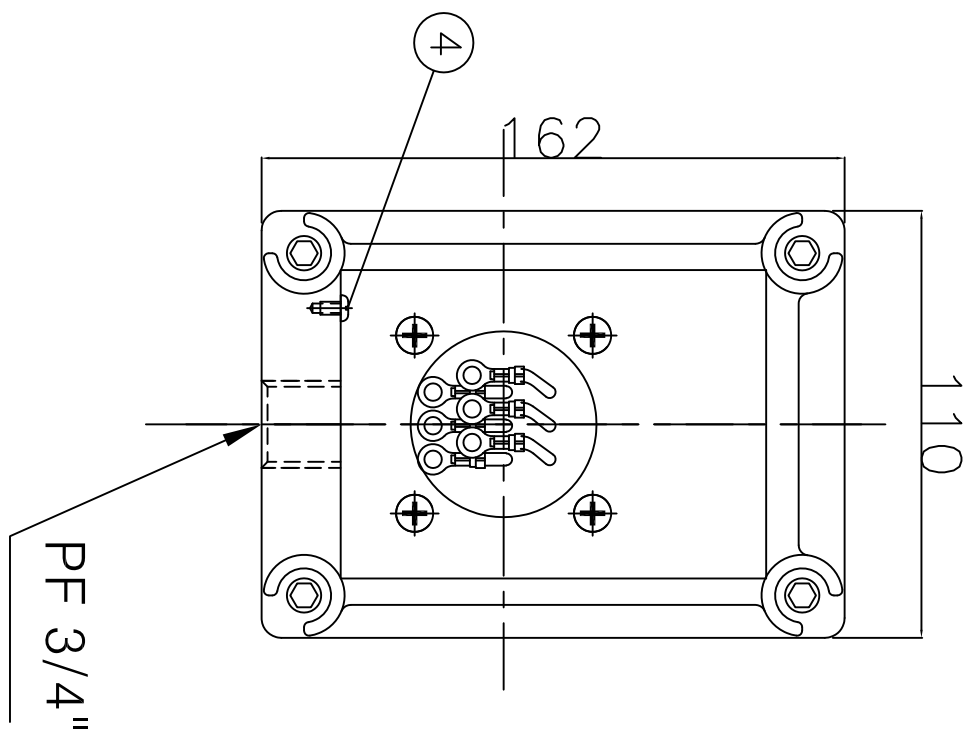
1.TOLERANCE :

FLANGE HOLES	$\phi 12^{+0.43}_{-0.}$
RABBET DIAMETER	$\phi 130^{+0.014}_{-0.011}$
SHAFT DIAMETER	$\phi 24^{+0.009}_{-0.004}$
KEYWAY WIDTH	$8^{+0}_{-0.036}$
KEYWAY DEPTH	$4^{+0.2}_{-0}$
KEY SIZE	8*7*45



* CAST IRON CONDUIT BOX

APPD BY	B.M.YOO	UNIT	mm	SUBJECT	IEC 90, FF165	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			
HYUNDAI HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	091\091ASD2G4	Sheet No. of
				DWG NO	227B5023AD03	Revision No. 0



							6
							5
1	GROUND TERMINAL LUG	S45C	2-5				4
4	SCREW	S45C	M8*25				3
1	C/B COVER	GC15					2
1	CONDUIT BOX	GC15					1
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.

APPD BY	B.M.YOO	UNIT	MM	SUBJECT	CB ASM	CAD PROJ	FILE
CHKD BY	S.W.SEO	SCALE	1/0.48			D2D4	
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle	TITLE	CONDUIT BOX ASSEMBLY	6-LEADS	
DSMD 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