

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 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 1.7 A 2.0 A 3.4 A			
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor** 740 % 740 % 740 %			
Temp. Rise at full load (by resistance method)		at 1.0 S.F 80 deg. C		Efficiency			
Motor Location		☒ Indoor ☐ Outdoor		50% Load 76.5 %			
Altitude		Less than 1000 meter		75% Load 81.0 %			
Relative Humidity		Less than 80 %		100% Load 82.5 %			
Ambient Temp.		40 deg. C (Max.)		Power Factor(p.u)			
Duty Type		Continuos (S1)		50% Load 0.485			
Service Factor		1.00		75% Load 0.610			
Mounting		☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		100% Load 0.704			
Bearing		Type Anti-Friction		Speed at Full Load 1735 r.p.m			
		DE/N-DE 6205ZZ / 6204ZZ		Torque			
		Lubricant Grease(SML4)		Full Load 0.4 kg·m			
External Thrust		Not applicable		Locked-rotor** 360 %			
Coupling Method		☒ Direct ☐ V-Belt		Breakdown** 390 %			
Shaft Extension		☒ Single ☐ Double		Moment of Inertia (J)			
Terminal		Main ☐ Steel ☒ Cast Iron		Load(Max.) 0.625 kg·m²			
Box		Aux. ☐ Yes ☒ No		Motor 0.0016 kg·m²			
		Location Refer to Outline Drawing		Sound Pressure Level (No-load & mean value at 1m from motor)			
Application				0 dB(A)			
Area classification		Hazardous		Vibration 1.6 mm/sec (r.m.s)			
Type of Ex-Protection		Ex d IIB T4		Permissible number of consecutive starts Cold 3 times Hot 2 times			
Applicable Standard		KS,IEC		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				
			*. Frame size: 80M => 90L				
			Date	DSND	CHKD	CHKD	APPD
			2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM

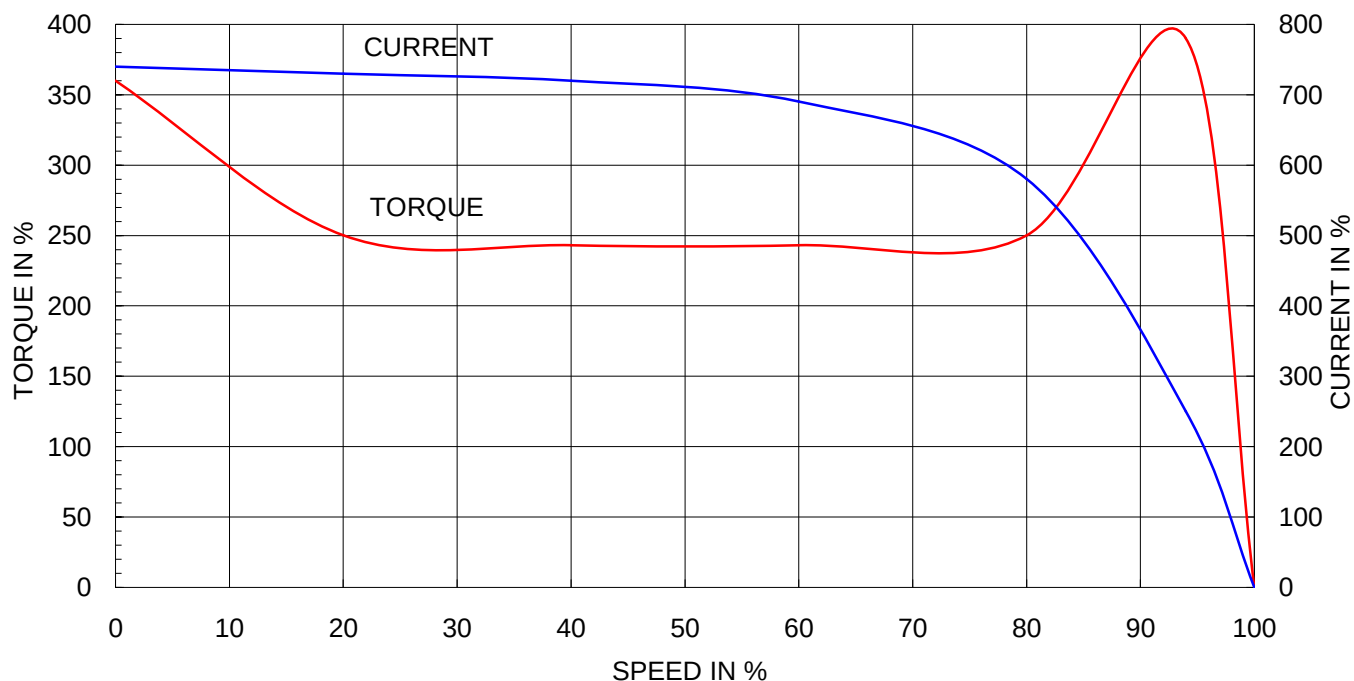
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed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

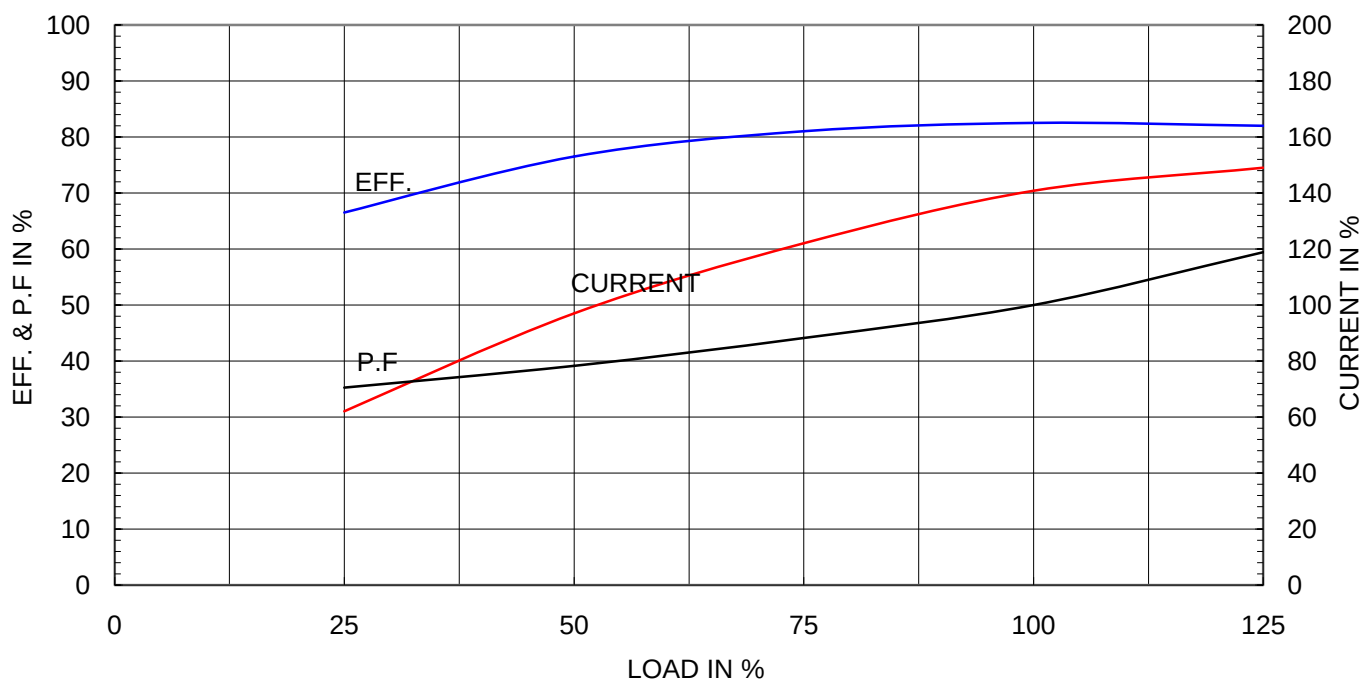
Type	:	HL-XP
Full Load Torque :	0.4	Kg.m
Motor moment of Inertia (J) :	0.002	Kg.m ²
Load moment of Inertia (J) :	0.625	Kg.m ²

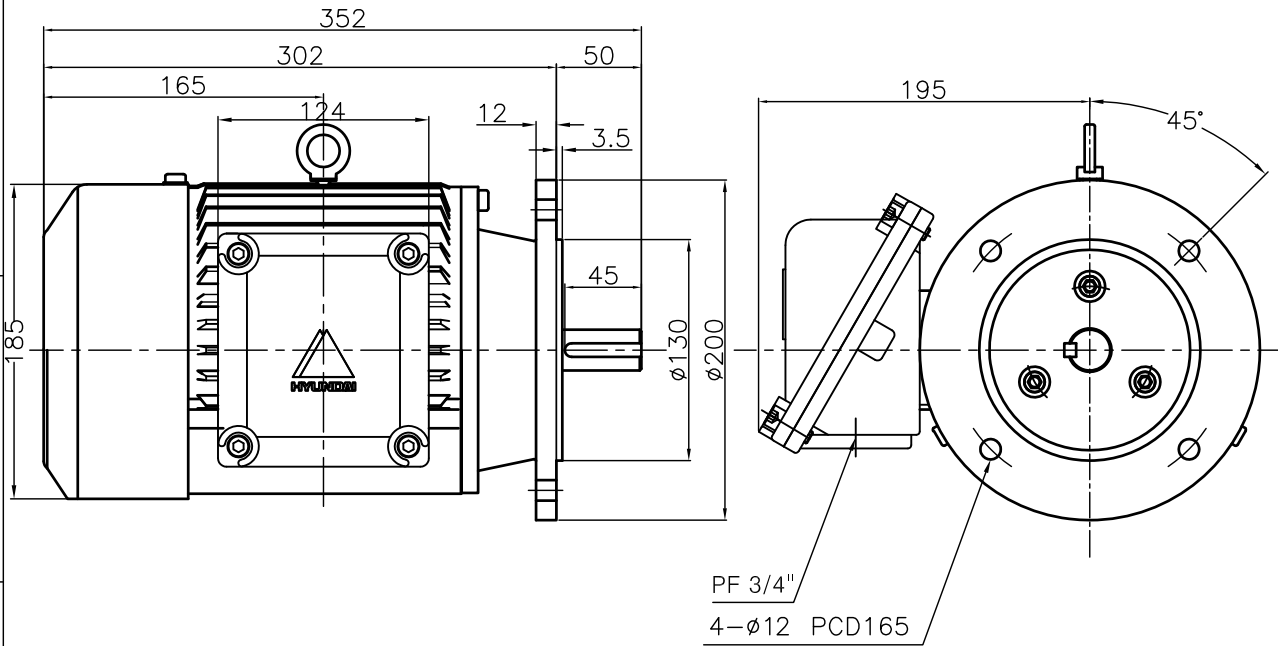
0.75 kW		4 P		60 Hz	
Speed at Full Load :				1145 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	1.7A	2.0A	3.4A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

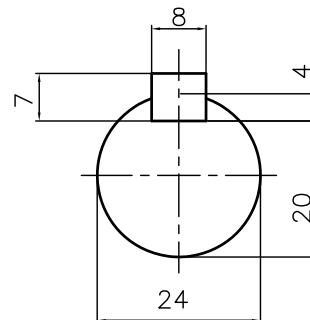




NOTE

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

 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS	MD BY	B.M.YOO	UNIT	MM	TITLE CONDUIT BOX ASSEMBLY 6-LEADS	SUBJECT CB ASM	CAD PROJ FILE d204
	CD BY	S.W.SEO	SCALE	1/0.48			
	CD BY	J.S.JEONG	PROJ'N	3rd Angle			
	MD BY	C.S.KO	DATE	2008.01.12			
	REF. NO	227B1536AA1	Sheet No.	of			
DWG NO	227B1536AA1	Revision No.	0				