

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	HS		Number of Poles	4	
Enclosure(Protection)	Totally Enclosed (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 6.9 A 8.0 A 13.8 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 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)		
Ambient Temp.	40 deg. C (Max.)		50% Load 0.649		
Duty Type	Continuous (S1)		75% Load 0.753		
Service Factor	1.15		100% Load 0.805		
Mounting	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1740 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6206ZZC3 / 6206ZZC3	Full Load 2.1 kg·m		
	Lubricant	Grease(Polyrex-EM)	Locked-rotor** 210 %		
External Thrust	Not applicable		Breakdown** 260 %		
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)		
Shaft Extension	☒ Single ☐ Double		Load(Max.) 3.250 kg·m²		
Terminal Box	Main	☐ Steel ☒ Aluminium	Motor 0.013 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	Non-Hazardous		Permissible number of consecutive starts		
Type of Ex-Protection	Not applicable		Cold 3 times		
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		Hot 2 times		
ACCESSORIES			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
	SUBMITTAL DRAWING				
	Outline Dimension Drawing \ Motor Weight(Approx.)				
	B3	227B7000AA02	32	kg	
	Main T-Box Ass'y 227B9003CB				
SPARE PARTS	REMARK High Efficiency				
	* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
	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	:	HS
Full Load Torque	:	2.1 Kg.m
Motor moment of Inertia (J)	:	0.013 Kg.m ²
Load moment of Inertia (J)	:	3.250 Kg.m ²

3.7 kW

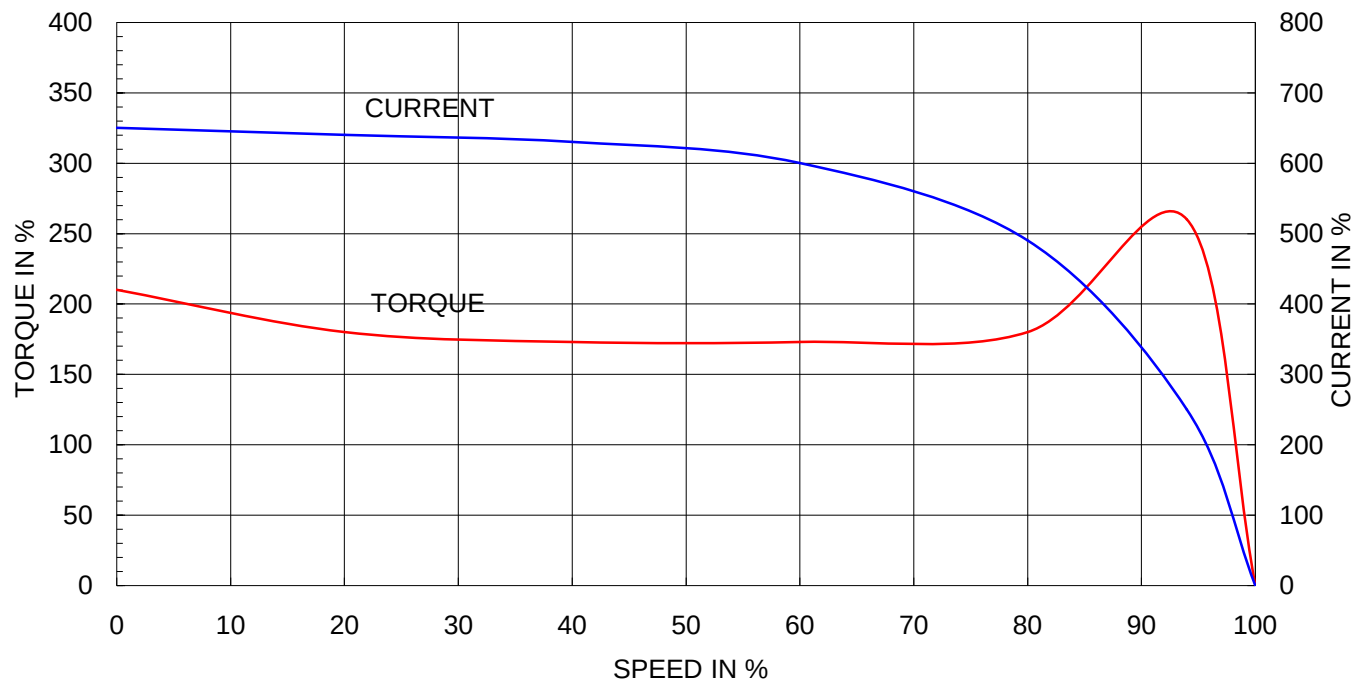
4 P

60 Hz

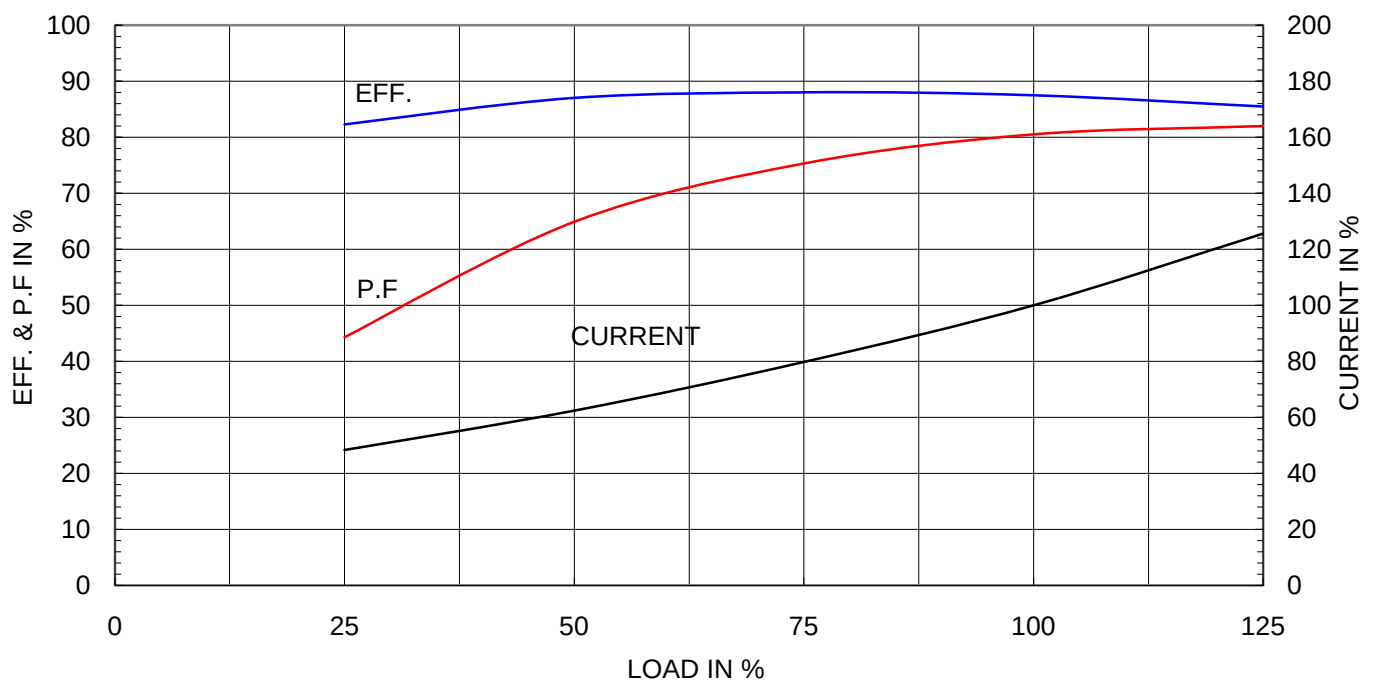
Speed at Full Load : 1740 RPM

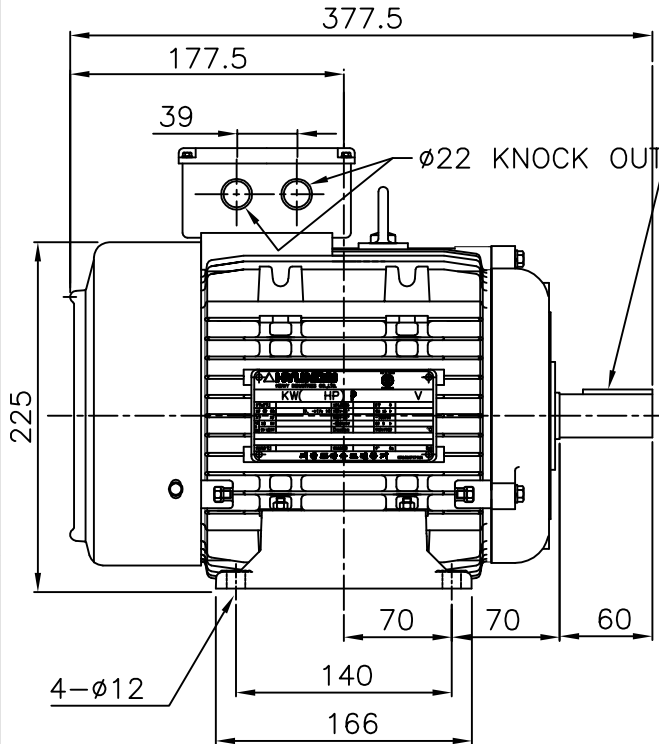
Rated Voltage	440V	380V	220V
Full Load Current	6.9A	8.0A	13.8A

SPEED VS TORQUE & CURRENT CURVE

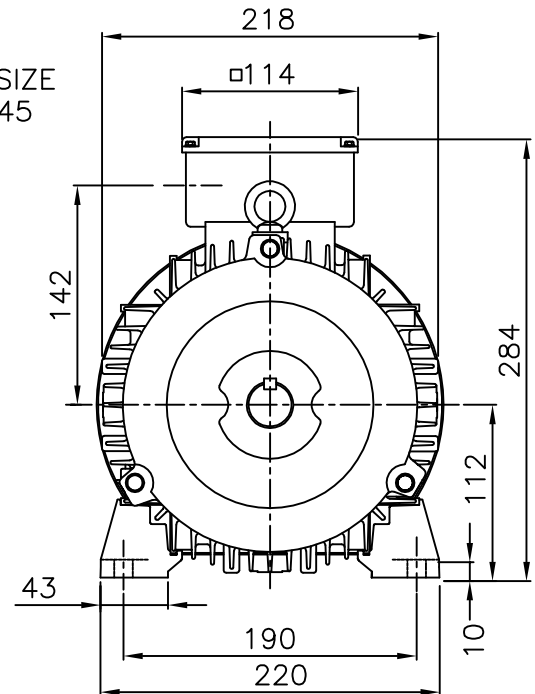


OUTPUT VS EFF., P.F & CURRENT CURVE





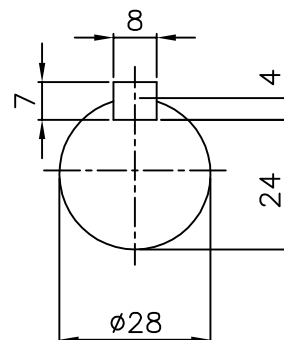
KEY SIZE
8X7X45



NOTE

1.TOLERANCE :

CENTER HEIGHT	112 ⁺⁰ _{-0.5}
BASE HOLES	ø12 ^{+0.43} ₋₀
SHAFT DIAMETER	ø28 ^{+0.009} _{-0.004}
KEYWAY WIDTH	8 ⁺⁰ _{-0.036}
KEYWAY DEPTH	4 ^{+0.2} ₋₀



APPD BY	J. H. KIM	UNIT	mm
CHKD BY	Y. S. KIM	SCALE	1/5
CHKD BY	S. H. KO	PROJEC'N	3rd Angle
DSND BY	I. K. KIM	DATE	2003.06.16

SUBJECT	KS 112M AL	CAD PROJ \ FILE
TITLE		XSDNKS\B2000AA01
OUTLINE		

