

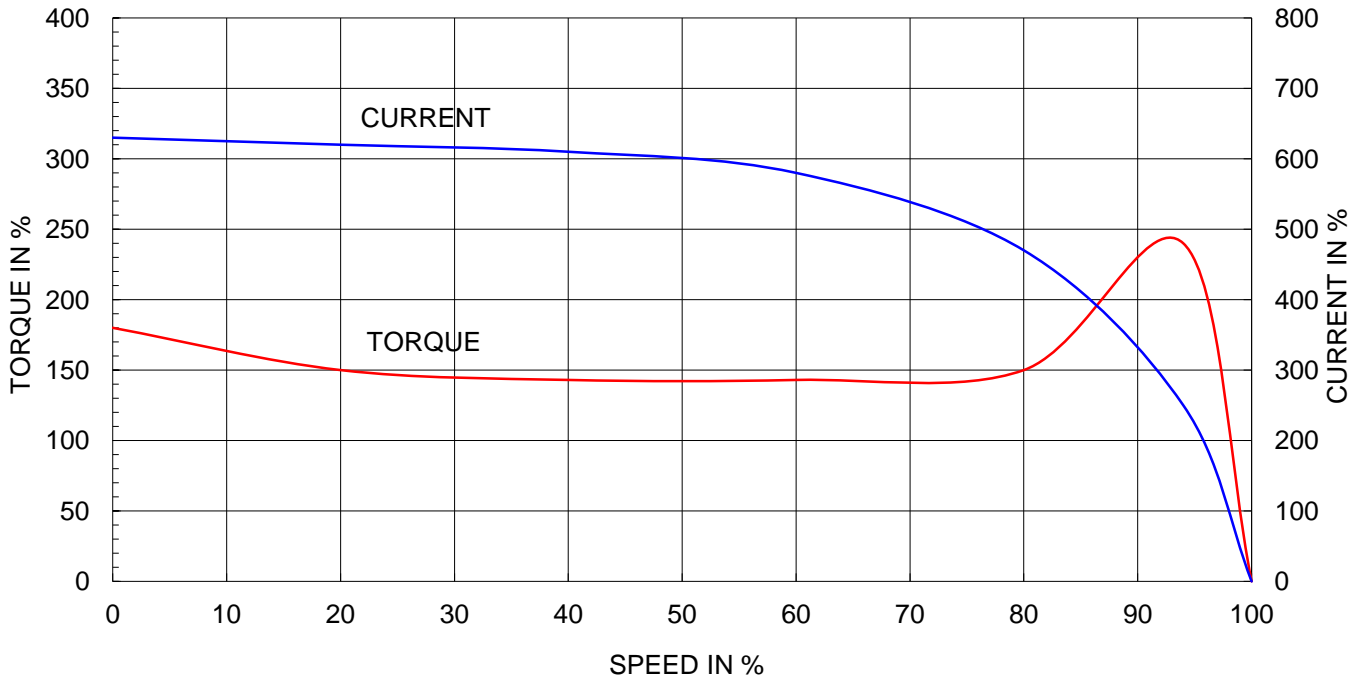
AC INDUCTION MOTOR DATA SHEET

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	2.2 kW 3 HP			
Type	HS		Number of Poles	6			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y- Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V		
Number of Phases	3		Current	Full Load	4.6 A 5.4 A 9.3 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	630 %	630 % 630 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 86.3 %				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> 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 0.511				
Duty Type	Continuos (S1)		75% Load 0.632				
Service Factor	1.15		100% Load 0.710				
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load 1160 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6206ZZC3 / 6206ZZC3		Full Load 1.8 kg-m			
	Lubricant	Grease(Polyrex-EM)		Locked-rotor** 180 %			
External Thrust	Not applicable		Breakdown** 240 %				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.) 4.750 kg-m ²				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor 0.030 kg-m ²			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing		60 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)				
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B7000AA02	42 kg		
			B5	227B2020AB02	47 kg		
			V1	227B2060AB02	47 kg		
			B3/B5	227B2040AB02	47 kg		
			Main T-Box Ass'y 227B9003CB1				
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
<p>Note: Others not mentioned in this data sheet shall be in accordance with maker standard.</p> <p>Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.</p> <p>Inspection and performance test shall be maker standard, if not mentioned.</p> <p>* In case of Inverter-Fed Motor, performance data is based on sine wave tests.</p> <p>** 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.</p>							

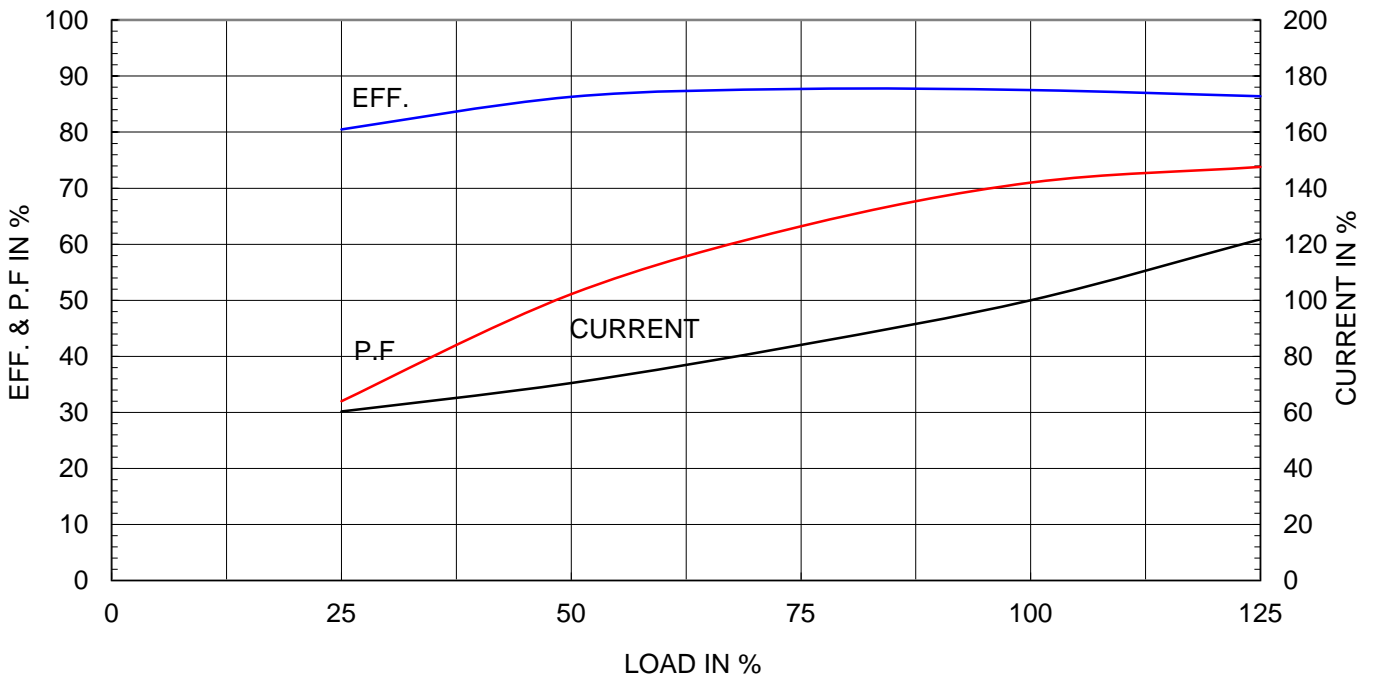
Type :	HS
Full Load Torque :	1.8 Kg.m
Motor moment of Inertia (J) :	0.030 Kg.m ²
Load moment of Inertia (J) :	4.750 Kg.m ²

2.2 kW	6 P	60 Hz
Speed at Full Load :		1160 RPM
Rated Voltage	440V	380V
Full Load Current	4.6A	5.4A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





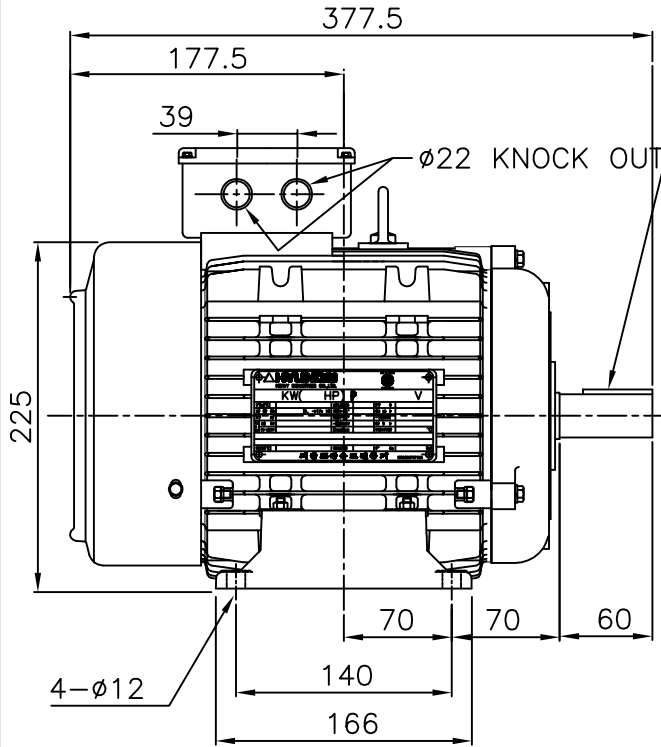
TEFC

THREE PHASE INDUCTION MOTOR

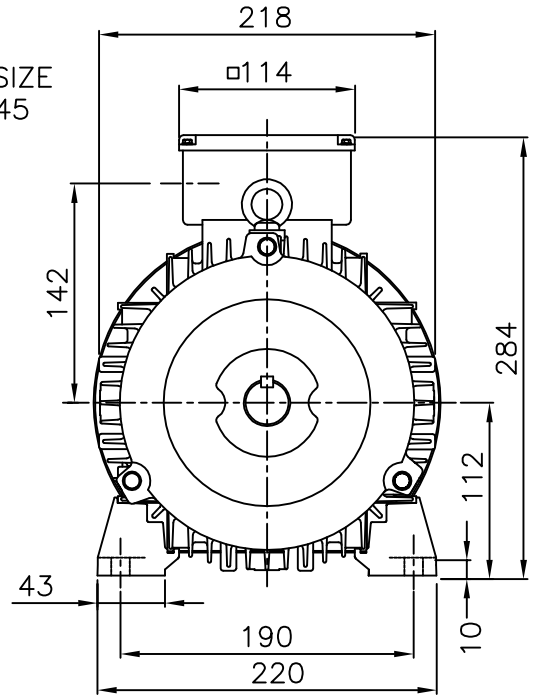
TYPE

HL, HLS

ALUMINUM FRAME



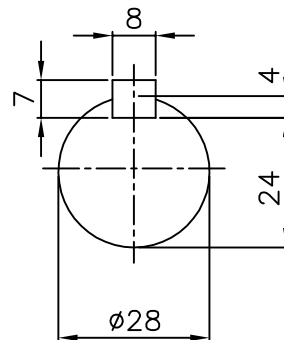
KEY SIZE
8X7X45



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	XSDNKS\B2000AA01
TITLE	OUTLINE		



REF. NO	B7000AA02	Sheet No.	of
DWG NO	227B7000AA02	Revision No.	0

