



AC INDUCTION MOTOR DATA SHEET

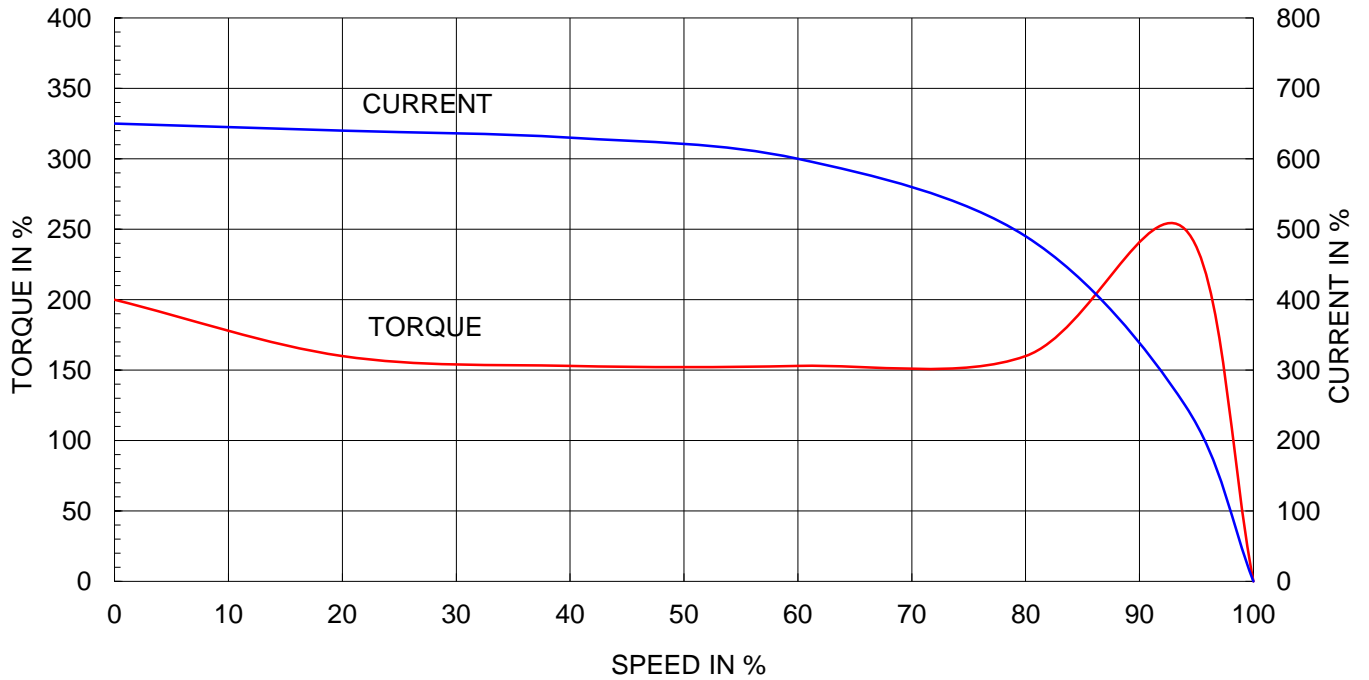
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	112M		Rated Output	3.7 kW 5 HP			
Type	HS		Number of Poles	2			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	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	6.5 A 7.5 A 12.9 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	650 % 650 % 650 %			
Temp. Rise at full load (by resistance method)	at 1.0 S.F 80 deg. C		Efficiency	50% Load 86.5 %			
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)	50% Load 0.757			
Ambient Temp.	40 deg. C (Max.)			75% Load 0.820			
Duty Type	Continuos (S1)			100% Load 0.860			
Service Factor	1.15		Speed at Full Load	3430 r.p.m			
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Torque	Full Load 1.1 kg·m			
Bearing	Type	Anti-Friction		Locked-rotor** 200 %			
	DE/N-DE	6206ZZC3 / 6206ZZC3		Breakdown** 250 %			
	Lubricant	Grease(Polyrex-EM)		Moment of Inertia (J)			
External Thrust	Not applicable			Load(Max.) 0.800 kg·m ²			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt			Motor 0.007 kg·m ²			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Sound Pressure Level (No-load & mean value at 1m from motor)	73 dB(A)			
Terminal	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Aluminium		Vibration			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		1.6 mm/sec (r.m.s)			
Box	Location	Refer to Outline Drawing		Permissible number of consecutive starts			
	Application			Cold 3 times			
Area classification	Non-Hazardous		Hot 2 times				
Type of Ex-Protection	Not applicable		Paint	Munsell No. 4.0PB5.4/5.5(VL-451)			
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		SUBMITTAL DRAWING				
ACCESSORIES			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		
			2011-04-14	W.H.BACK	S. J. RA		
					CHKD		
					O. J. KIM		
					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.

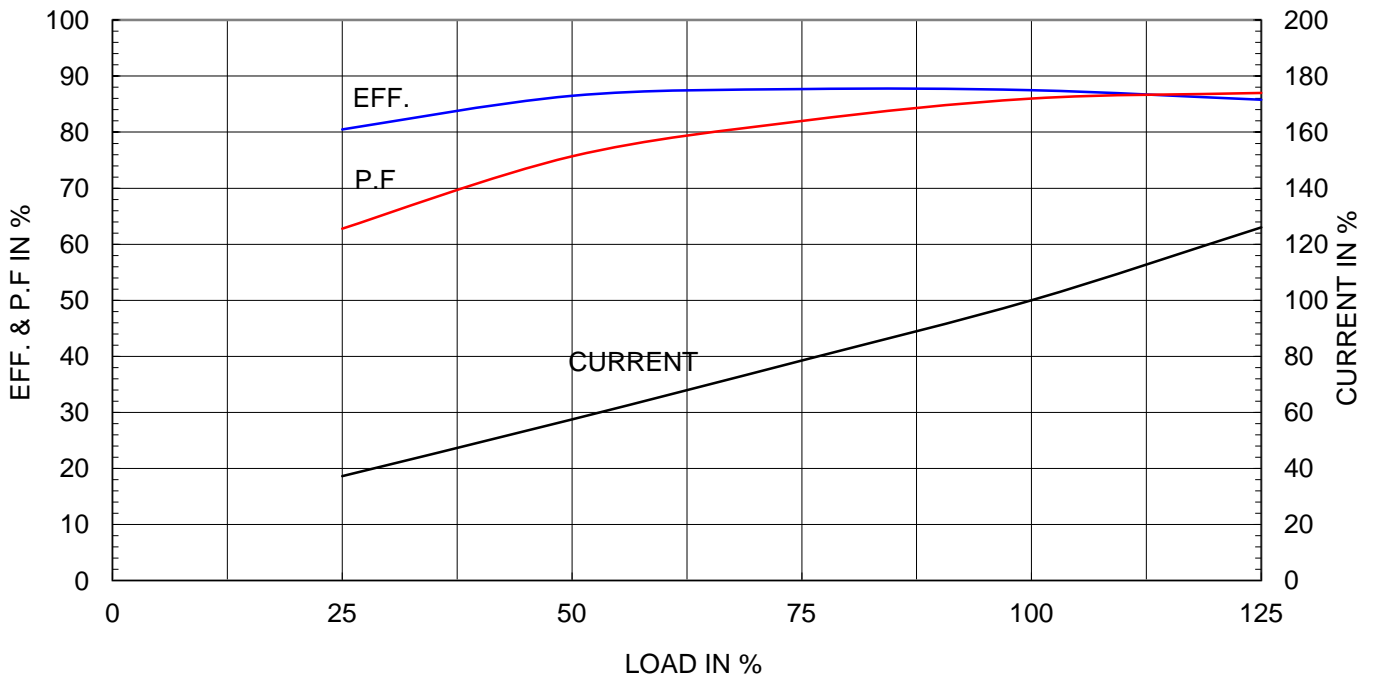
Type	:	HS
Full Load Torque	:	1.1 Kg.m
Motor moment of Inertia (J)	:	0.007 Kg.m ²
Load moment of Inertia (J)	:	0.800 Kg.m ²

3.7 kW	2 P	60 Hz	
Speed at Full Load :			
3430 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	6.5A	7.5A	12.9A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





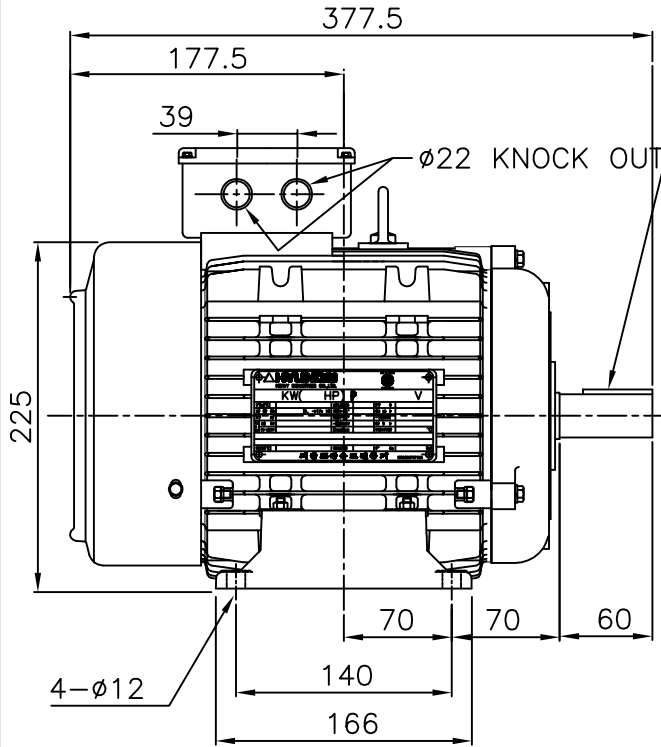
TEFC

THREE PHASE INDUCTION MOTOR

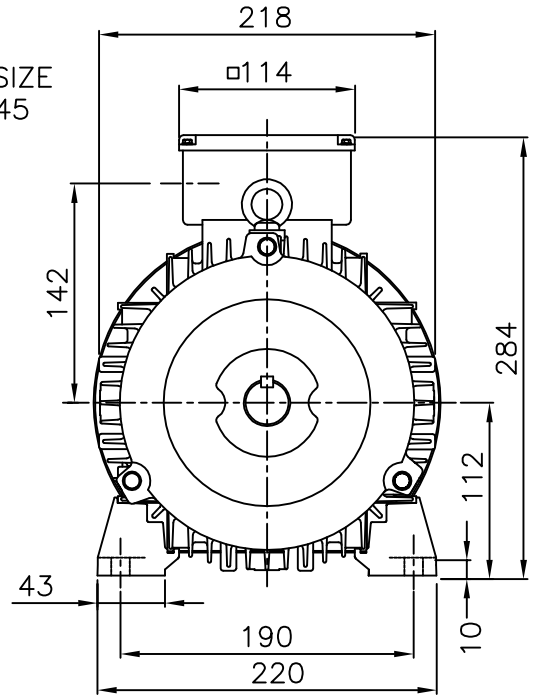
TYPE

HL, HLS

ALUMINUM FRAME



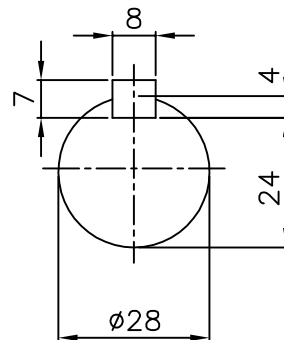
KEY SIZE
8X7X45



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

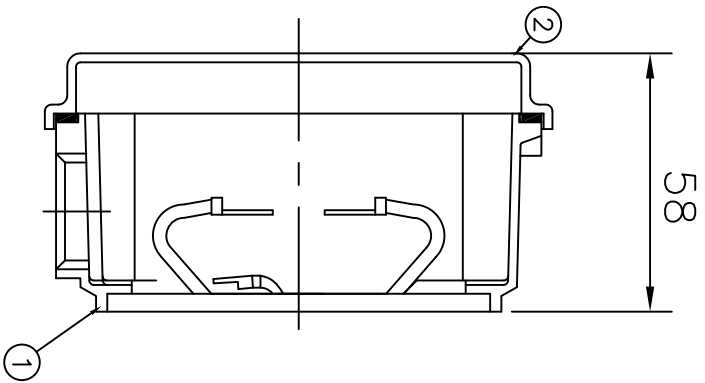
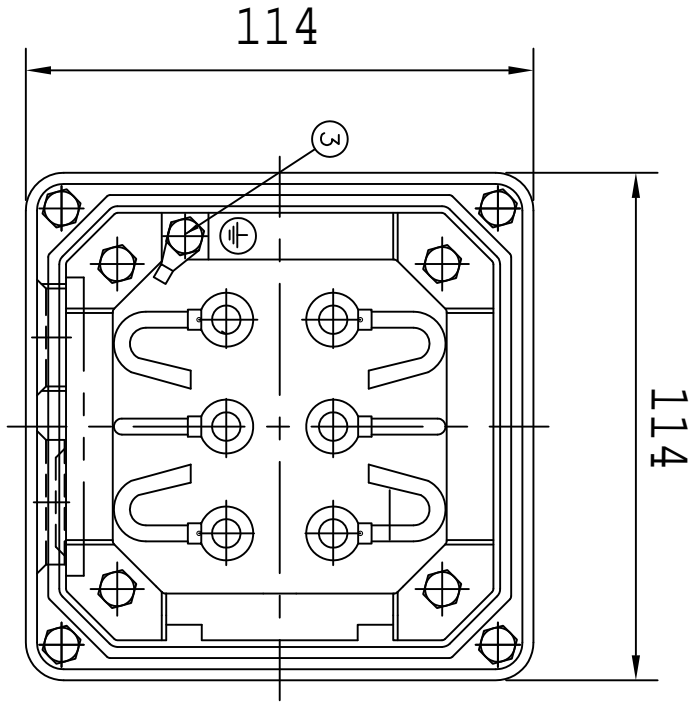


APPD BY	J. H. KIM	UNIT	mm
CHKD BY	Y. S. KIM	SCALE	1/5
CHKD BY	S. H. KO	PROJEC'N	3rd Angle
DSND BY	I. K. KIM	DATE	2003.06.16

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



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



PT	DESPRIPTION	MATERIAL	Q'TY
1	CONDUIT BOX	ALDCCS8	1
2	CONDUIT BOX COVER	ALDCCS8	1
3	GROUND TERMINAL BOLT & LUG	CU	1

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
	APPD BY	UNIT	inch				
	CHKD BY	SCALE	N/S				
	CHKD BY	PROJEC'N	3 (3rd Angle)				
	DSND BY	JEONG-JIN SEON	DATE	2006.12.12			
TITLE				CONDUIT BOX ASS'Y			
REF. NO.	227B9003CB1	SHEET NO.	0	of			
DWG NO.	227B9003CB1	SHEET NO.	0	of			



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INDUSTRIAL & POWER SYSTEMS