



AC INDUCTION MOTOR DATA SHEET

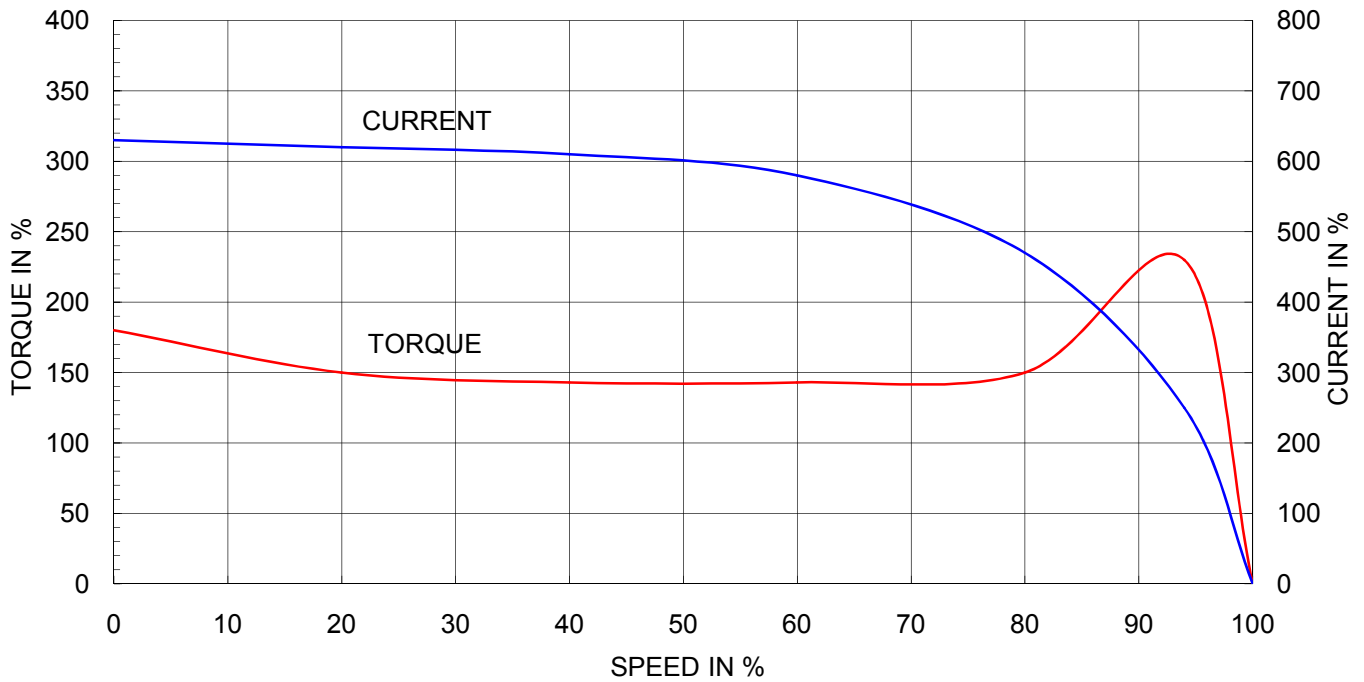
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	I32M		Rated Output	7.5 kW 10 HP			
Type	HS		Number of Poles	4			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	<input 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	13.8 A 16.0 A 27.7 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) at 1.0 S.F	80 deg. C		Efficiency				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		50% Load 89.0 %				
Altitude	Less than 1000 meter		75% Load 89.7 %				
Relative Humidity	Less than 80 %		100% Load 89.5 %				
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)				
Duty Type	Continuous (S1)		50% Load 0.661				
Service Factor	1.15		75% Load 0.749				
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		100% Load 0.795				
	Type	Anti-Friction		Speed at Full Load 1760 r.p.m			
Bearing	DE/N-DE	6208ZZC3 / 6208ZZC3		Torque			
	Lubricant	Grease(Polyrex-EM)		Full Load	4.2 kg-m		
External Thrust	Not applicable		Locked-rotor**	180 %			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Breakdown**	230 %			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Moment of Inertia (J)				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Aluminium		Load(Max.)	7.500 kg-m ²		
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Motor	0.030 kg-m ²		
Location	Refer to Outline Drawing		Sound Pressure Level (No-load & mean value at 1m from motor)				
Application			70 dB(A)				
Area classification	Non-Hazardous		Vibration 1.6 mm/sec (r.m.s)				
Type of Ex-Protection	Not applicable		Permissible number of consecutive starts	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		227B2003AB04	55 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.

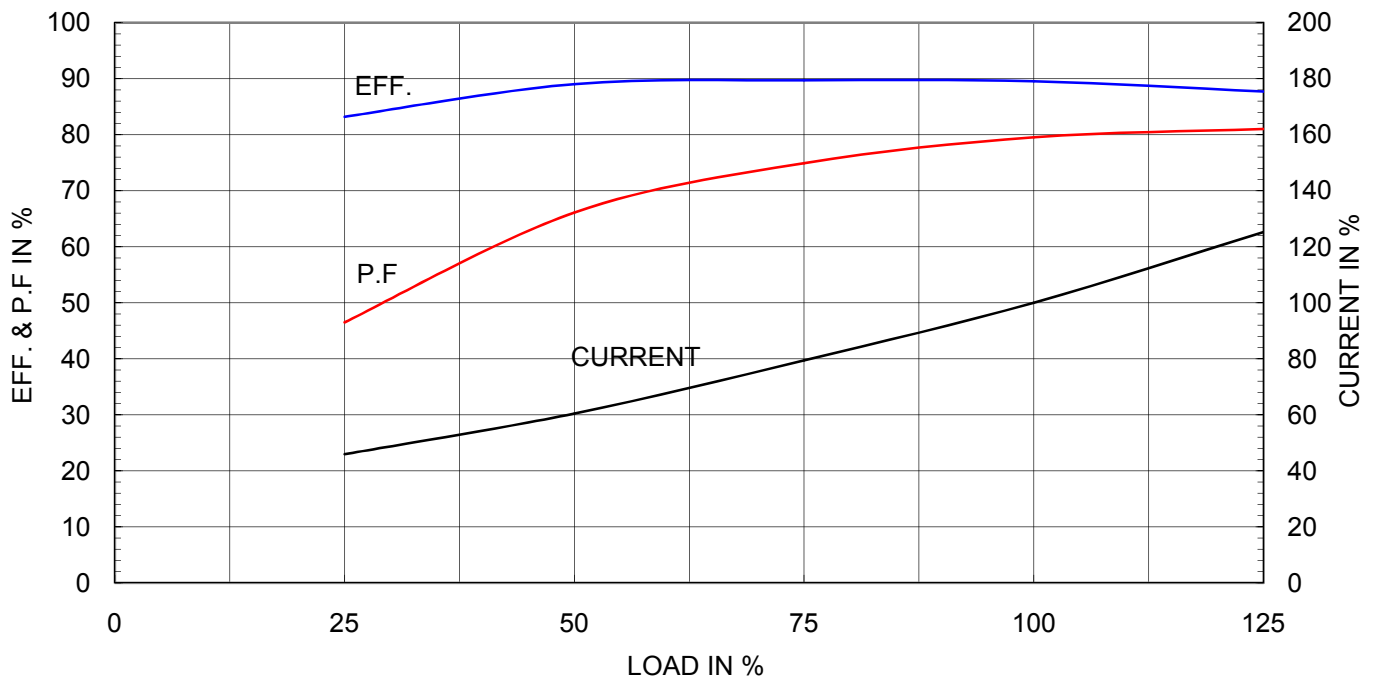
Type	:	HS
Full Load Torque	:	4.2 Kg.m
Motor moment of Inertia (J)	:	0.030 Kg.m ²
Load moment of Inertia (J)	:	7.500 Kg.m ²

7.5 kW	4 P	60 Hz	
Speed at Full Load :		1760 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	13.8A	16.0A	27.7A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





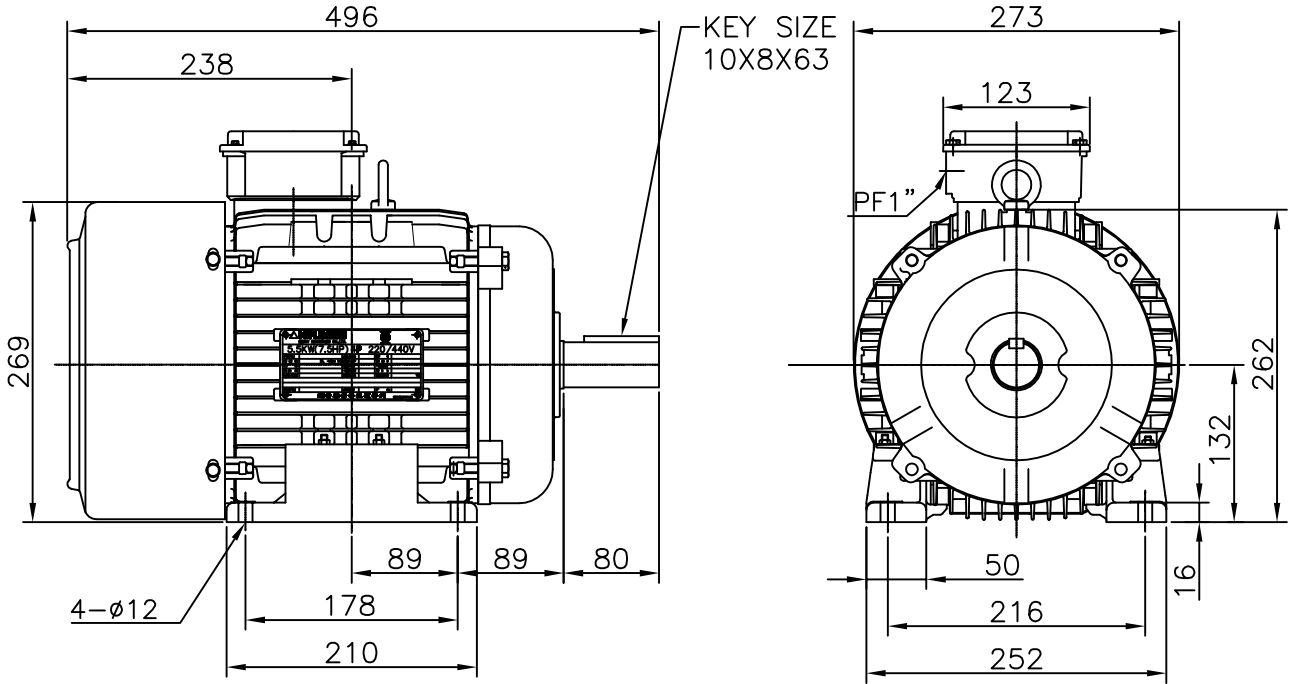
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

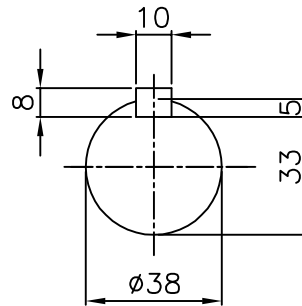
ALUMINIUM FRAME



NOTE

1.TOLERANCE :

CENTER HEIGHT	132	⁺⁰ / _{-0.5}
BASE HOLES	ø12	^{+0.43} / ₋₀
SHAFT DIAMETER	ø38	^{+0.018} / _{+0.002}
KEYWAY WIDTH	10	⁺⁰ / _{-0.036}
KEYWAY DEPTH	5	⁺⁰ / _{-0.2}



APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 132M	CAD PROJ \ FILE		
CHKD BY	Y. S. KIM	SCALE	1/6.5	TITLE	OUTLINE	XSDNKS\B2000AB04		
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	REF. NO		B2003AB04	Sheet No.	of
DSND BY	S. W. SEO	DATE	2008.06.12	DWG NO		227B2003AB04	Revision No.	0



