

AC INDUCTION MOTOR DATA SHEET

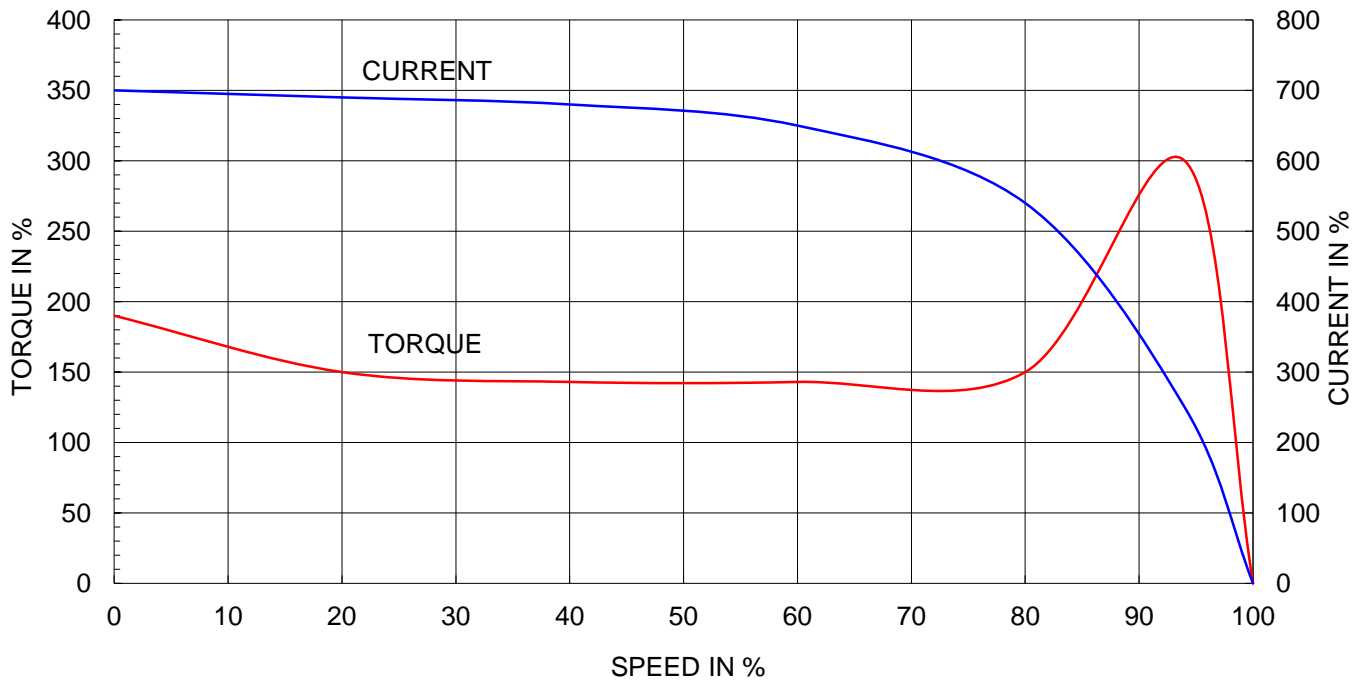
Model No. or RFQ No.		Item No.		Rev. No. [0]	
Project Name		Project No.		Quantity sets	
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	132S		Rated Output	5.5 kW 7.5 HP	
Type	HS		Number of Poles	2	
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage	
Method of Cooling	IC411(FC)		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	9.6 A 11.1 A 19.2 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	700 %	700 % 700 %
Temp. Rise at full load (by resistance method)	at 1.0 S.F 80 deg. C		Efficiency	50% Load 85.8 %	
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor			75% Load 88.0 %	
Altitude	Less than 1000 meter			100% Load 88.5 %	
Relative Humidity	Less than 80 %		Power Factor(p.u)	50% Load 0.737	
Ambient Temp.	40 deg. C (Max.)			75% Load 0.810	
Duty Type	Continuous (S1)			100% Load 0.850	
Service Factor	1.15		Speed at Full Load	3530 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 1.5 kg-m	
Bearing	Type	Anti-Friction		Locked-rotor** 190 %	
	DE/N-DE	6208ZZC3 / 6208ZZC3		Breakdown** 300 %	
	Lubricant	Grease(Polyrex-EM)		Moment of Inertia (J)	
External Thrust	Not applicable			Load(Max.) 1.250 kg-m ²	
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt			Motor 0.014 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)	76 dB(A)	
Terminal	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Aluminium		Vibration	
Box	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Permissible number of consecutive starts	
	Location	Refer to Outline Drawing		Cold 3 times	
Application			Hot	2 times	
Area classification	Non-Hazardous		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
Type of Ex-Protection	Not applicable		SUBMITTAL DRAWING		
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		Outline Dimension Drawing \ Motor Weight(Approx.)		
ACCESSORIES			B3 227B2003AB03 51 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.

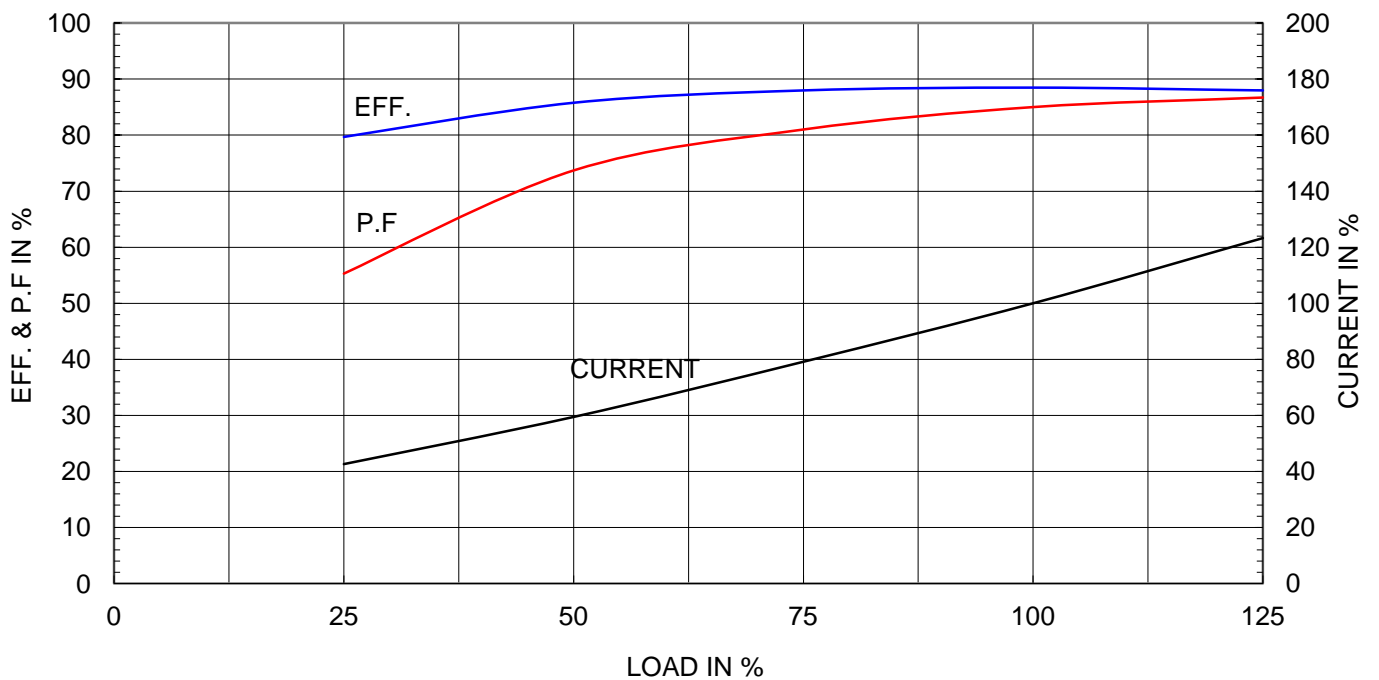
Type :	HS
Full Load Torque :	1.5 Kg.m
Motor moment of Inertia (J) :	0.014 Kg.m ²
Load moment of Inertia (J) :	1.250 Kg.m ²

5.5 kW	2 P	60 Hz	
Speed at Full Load :		3530 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	9.6A	11.1A	19.2A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





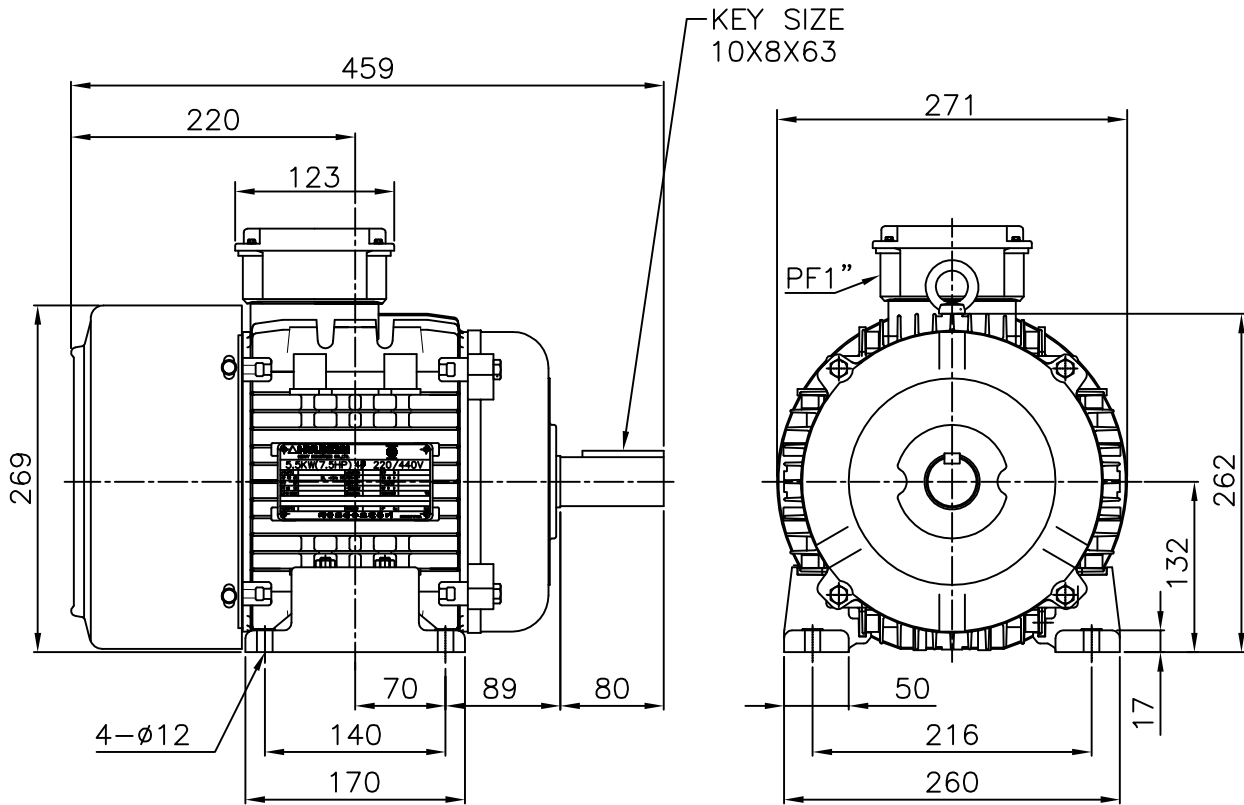
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

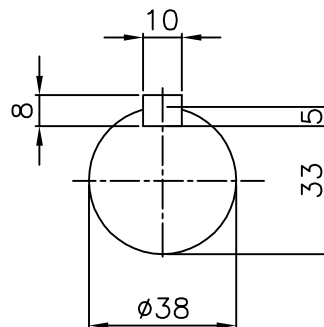
Aluminium FRAME



NOTE

1.TOLERANCE :

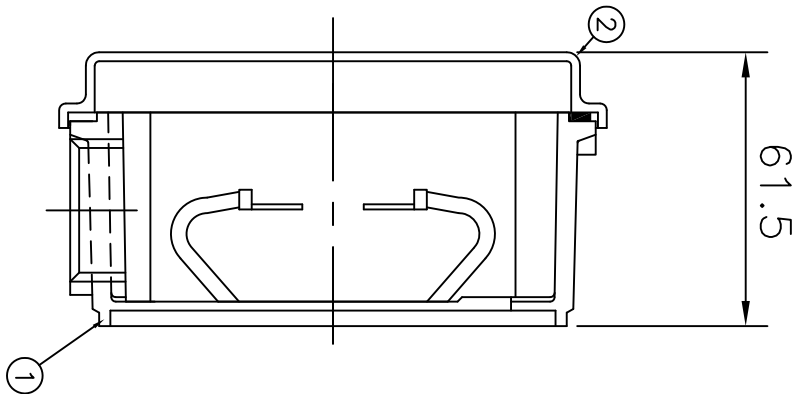
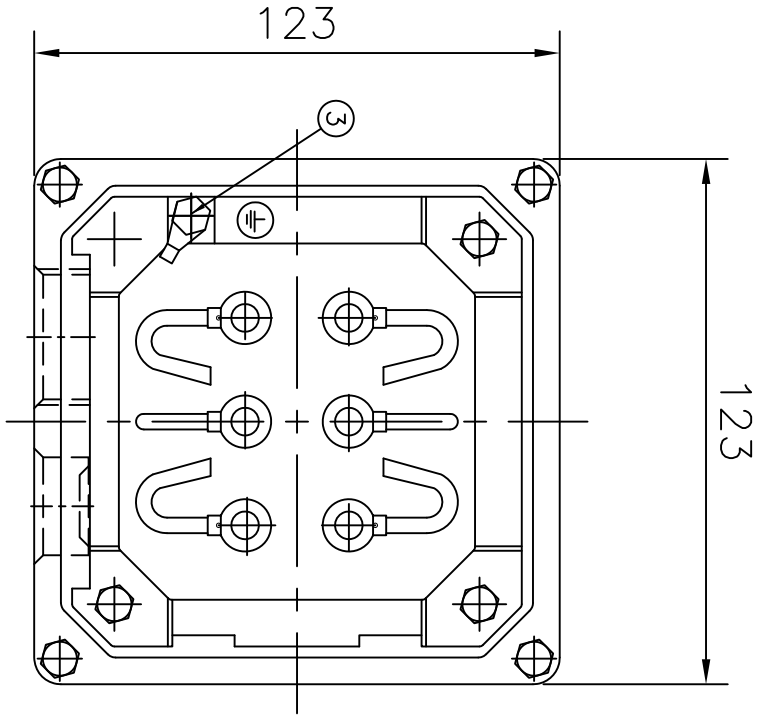
CENTER HEIGHT	132	⁺⁰ / _{-0.5}
BASE HOLES	ø12	^{+0.43} / ₋₀
SHAFT DIAMETER	ø38	^{+0.018} / _{+0.002}
KEYWAY WIDTH	10	⁺⁰ / _{-0.036}
KEYWAY DEPTH	5	^{+0.2} / ₋₀



Aluminium CONDUIT BOX

APPD BY		UNIT	mm	SUBJECT	KS 132S	CAD PROJ \ FILE		
CHKD BY		SCALE	1/6	TITLE	OUTLINE	XSDNKS\B2000AC03		
CHKD BY	S. W. SEO	PROJEC'N	3rd Angle	REF. NO		B2000AB03	Sheet No.	of
DSND BY	J. S. JEONG	DATE	2009.8.11	DWG NO		227B2003AB03	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	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	UNIT	mm					
CHKD BY	SCALE	N/S					
CHKD BY	PROJEC'N	3 (3rd Angle)					
DSND BY	DATE	2008.3.5					
DESCRIPTION		TITLE		CONDUIT BOX ASS'Y			
REF. NO.	227B9003CB2	SHEET NO.	0	of			
DWG NO.	227B9003CB2	Revision No.	0				



HEAVY INDUSTRIES CO. LTD.
INDUSTRIAL & POWER SYSTEMS