

# 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	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	10.1 A	11.7 A      20.3 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	89.0 %		
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load	89.8 %		
Altitude	Less than 1000 meter	100% Load	89.5 %		
Relative Humidity	Less than 80 %	Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)	50% Load	0.663		
Duty Type	Continuous ( S1 )	75% Load	0.750		
Service Factor	1.15	100% Load	0.795		
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	1760 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6208ZZC3 / 6208ZZC3	Full Load	3.0 kg-m	
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**	190 %	
External Thrust	Not applicable	Breakdown**	230 %		
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.)	5.500 kg-m <sup>2</sup>		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Aluminium	Motor	0.024 kg-m <sup>2</sup>	
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)	69 dB(A)	
Location	Refer to Outline Drawing	Vibration	1.6 mm/sec (r.m.s)		
Application		Permissible number of consecutive starts	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)				

ACCESSORIES	SUBMITTAL DRAWING
	Outline Dimension Drawing \ Motor Weight(Approx.)
	B3      227B2003AB03      51 kg
	Main T-Box Ass'y      227B9003CB

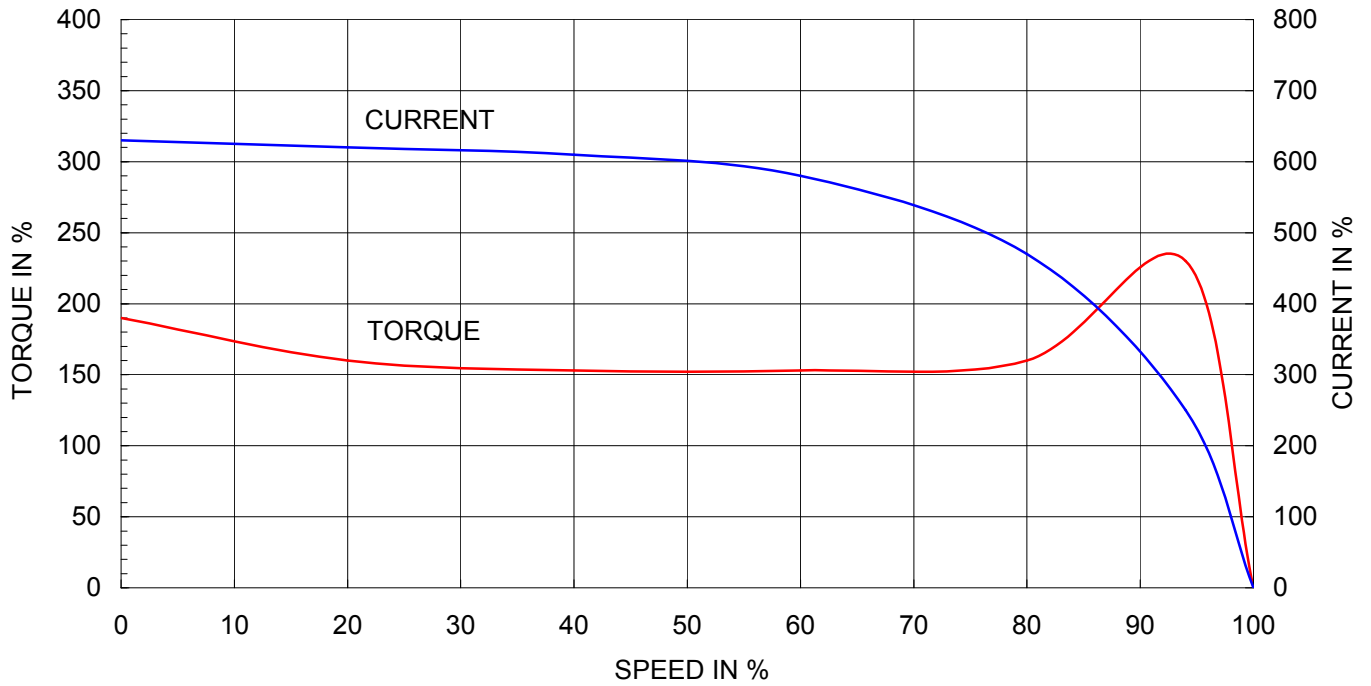
SPARE PARTS	REMARK										
	<b>High Efficiency</b>										
	* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Date</td> <td>DSND</td> <td>CHKD</td> <td>CHKD</td> <td>APPD</td> </tr> <tr> <td>2011-04-14</td> <td>W.H.BACK</td> <td>S. J. RA</td> <td>O. J. KIM</td> <td>J. H. KIM</td> </tr> </table>	Date	DSND	CHKD	CHKD	APPD	2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM
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.

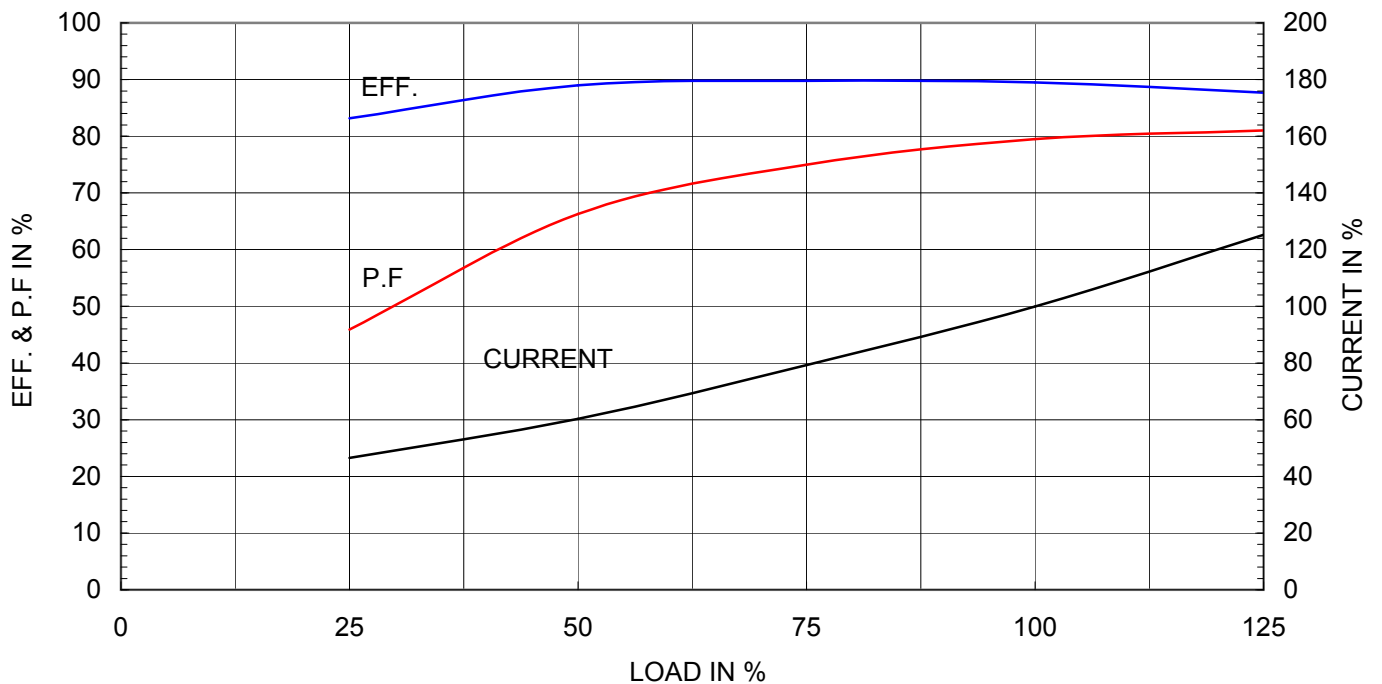
Type	:	HS
Full Load Torque	:	3.0 Kg.m
Motor moment of Inertia (J)	:	0.024 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	5.500 Kg.m <sup>2</sup>

5.5 kW	4 P	60 Hz	
Speed at Full Load :		1760 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	10.1A	11.7A	20.3A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





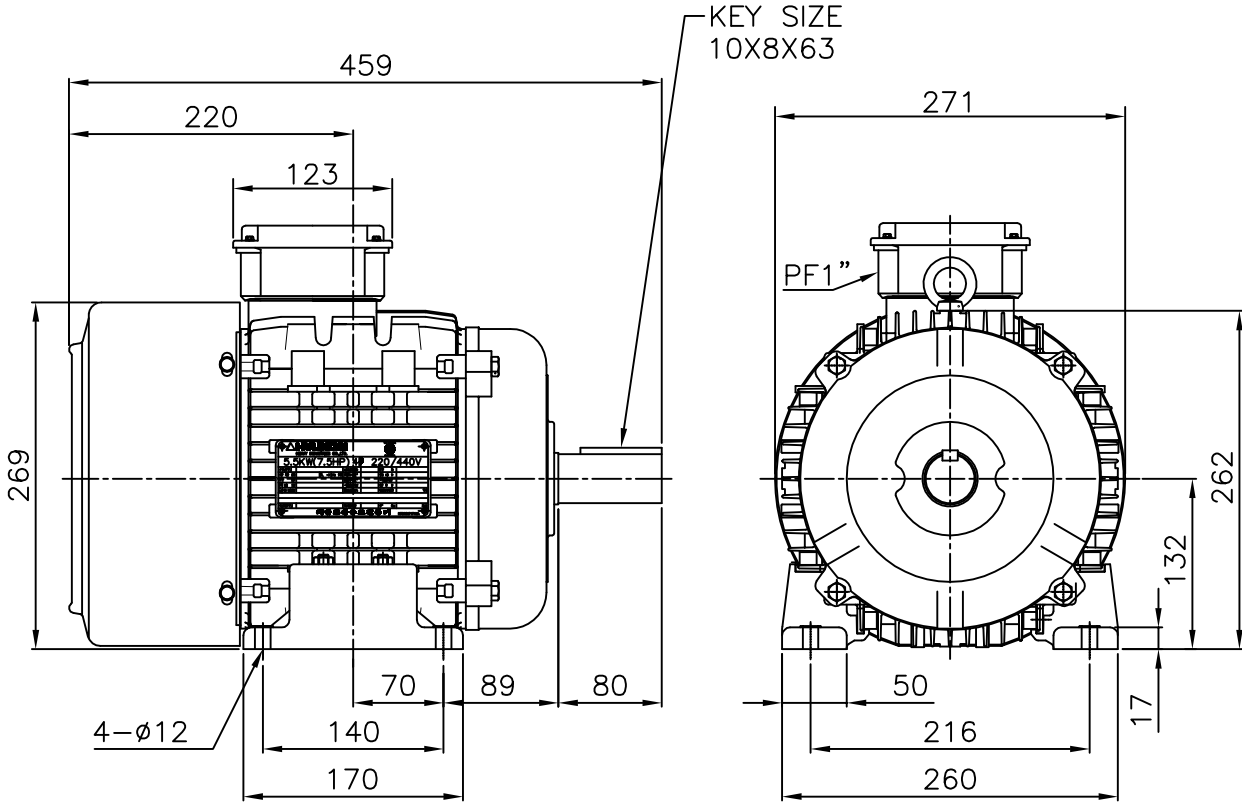
# TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

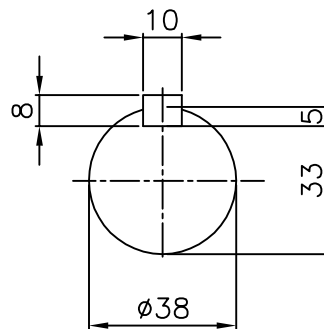
ALUMINIUM FRAME



NOTE

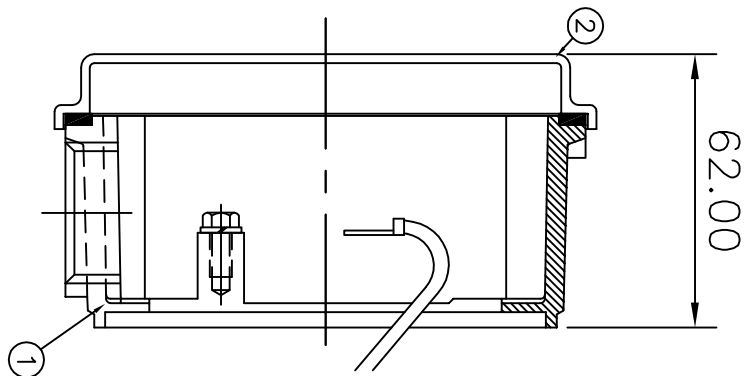
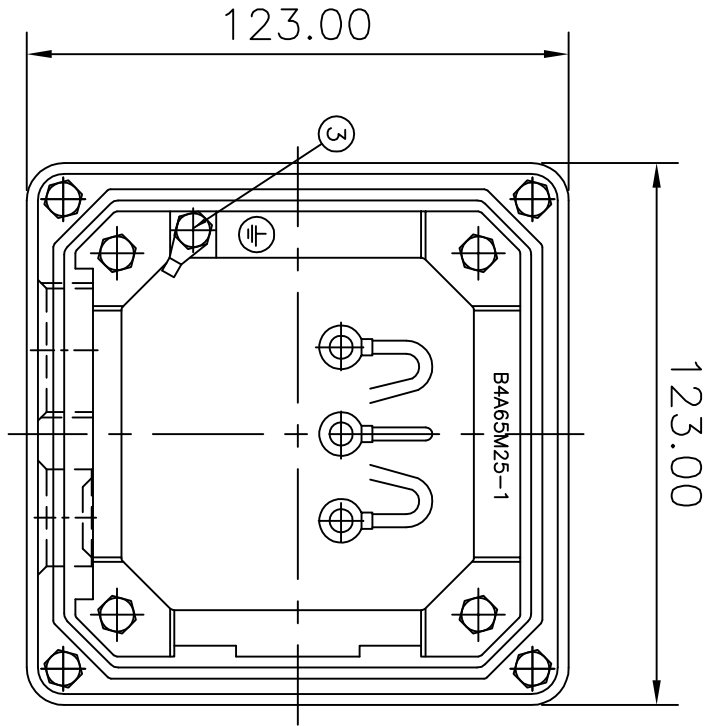
1.TOLERANCE :

CENTER HEIGHT	132	<sup>+0</sup> <sub>-0.5</sub>
BASE HOLES	ø12	<sup>+0.43</sup> <sub>-0</sub>
SHAFT DIAMETER	ø38	<sup>+0.018</sup> <sub>+0.002</sub>
KEYWAY WIDTH	10	<sup>+0</sup> <sub>-0.036</sub>
KEYWAY DEPTH	5	<sup>+0.2</sup> <sub>-0</sub>



APPD BY		UNIT	mm	SUBJECT	KS 132S	CAD PROJ \ FILE	
CHKD BY		SCALE	1/6	TITLE	OUTLINE		
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	DESCRIPTION	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	BY	APP'D BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APP'D BY	UNIT	MM	SUBJECT	IEC 132FR			
CHK'D BY	SCALE	N/S	TITLE				
DSND BY	PROJEC'N	3 [Z]r[lg]rL(3rd Angle)					
JEONG JIN SEON	DATE	2006.02.16.					
REF. NO.	227B9003GB2						
DWG NO.	227B9003GB2						
SHEET NO.	227B9003GB2						
Revision No.	0						



CONDUIT BOX ASS'Y