

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	3.7 kW 5 HP			
Type	HS		Number of Poles	6			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y- Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V		
Number of Phases	3		Current	Full Load	7.5 A 8.7 A 15.1 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	600 %	600 % 600 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 86.8 %				
Motor Location	☒ Indoor ☐ Outdoor		75% Load 87.9 %				
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 0.551				
Duty Type	Continuos (S1)		75% Load 0.676				
Service Factor	1.15		100% Load 0.735				
Mounting	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1165 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6208ZZC3 / 6208ZZC3	Full Load 3.1 kg·m				
	Lubricant	Grease(Polyrex-EM)	Locked-rotor** 180 %				
External Thrust	Not applicable		Breakdown** 220 %				
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.) 7.750 kg·m²				
Terminal	Main	☐ Steel ☒ Cast Iron	Motor 0.040 kg·m²				
Box	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	62 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				
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B2003AB03	67 kg		
			B5	227B2020AB03	69 kg		
			V1	227B2060AB03	69 kg		
			B3/B5	227B2040AB03	69 kg		
			Main T-Box Ass'y	227B9003CB2			
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.

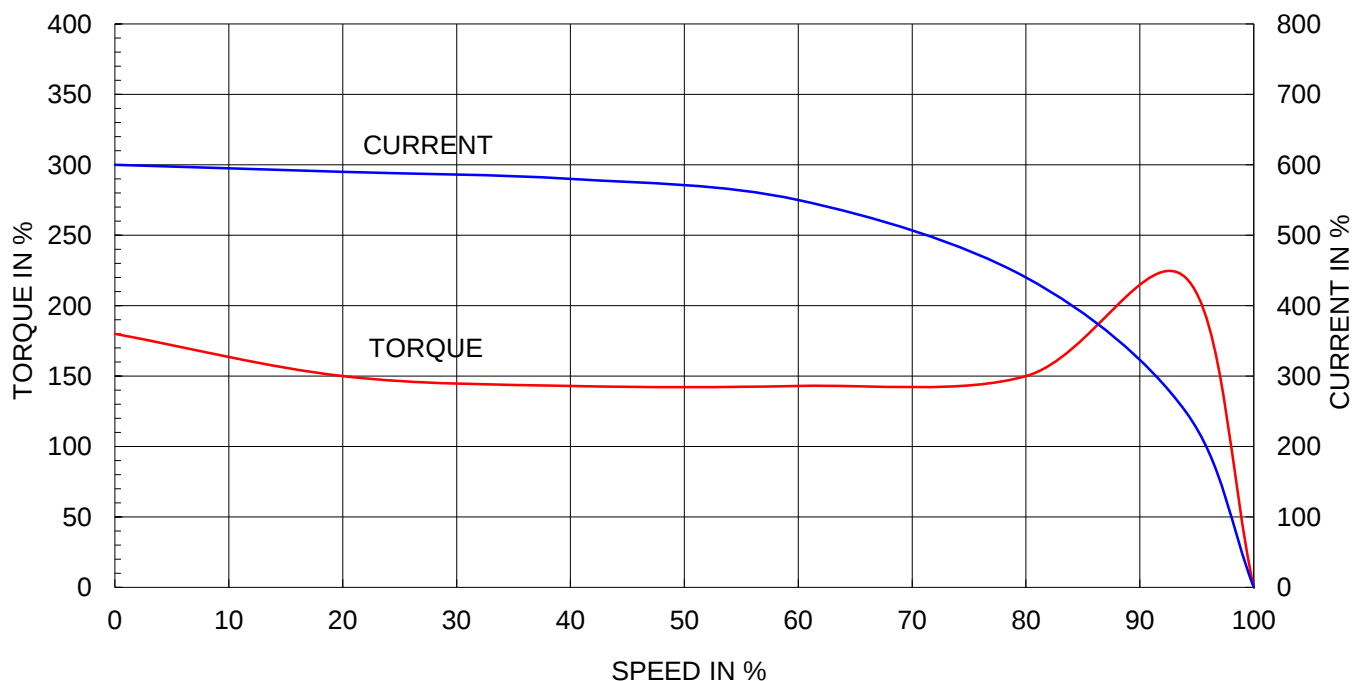
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

HHI W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

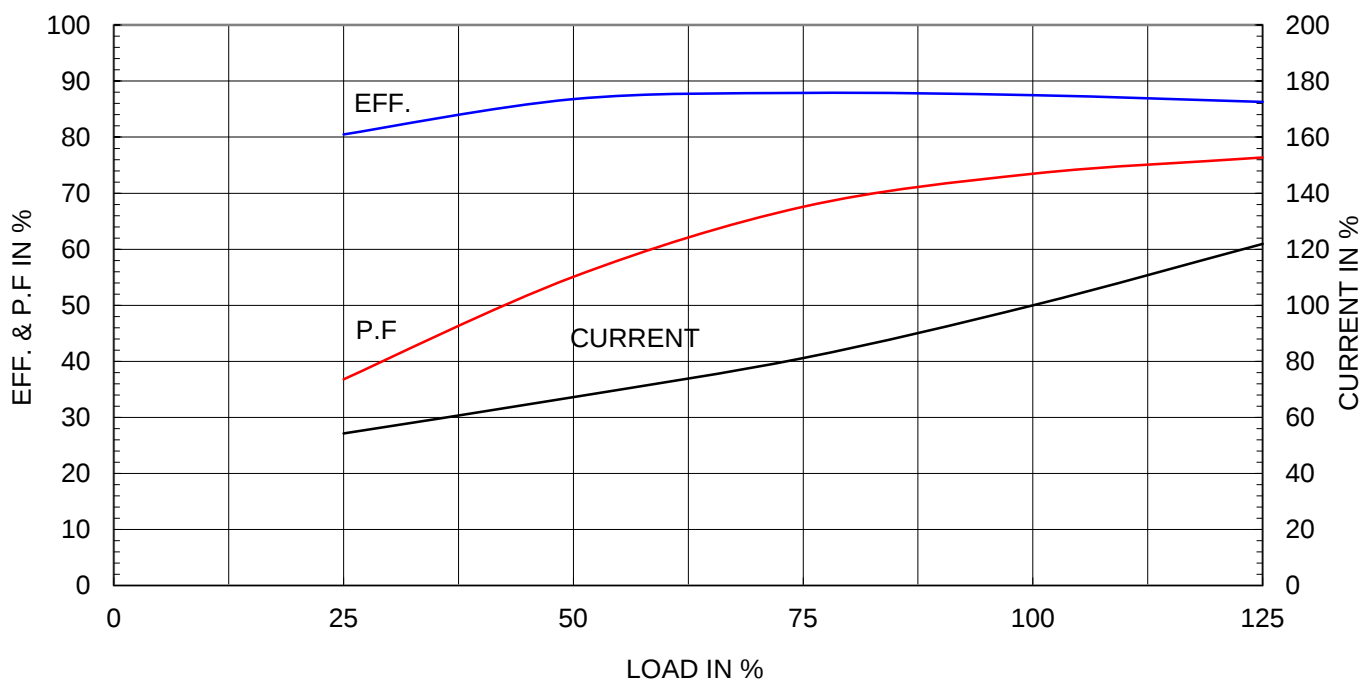
Type	:	HS
Full Load Torque	:	3.1 Kg.m
Motor moment of Inertia (J)	:	0.040 Kg.m ²
Load moment of Inertia (J)	:	7.750 Kg.m ²

3.7 kW		6 P		60 Hz	
Speed at Full Load :				1165 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	7.5A	8.7A	15.1A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





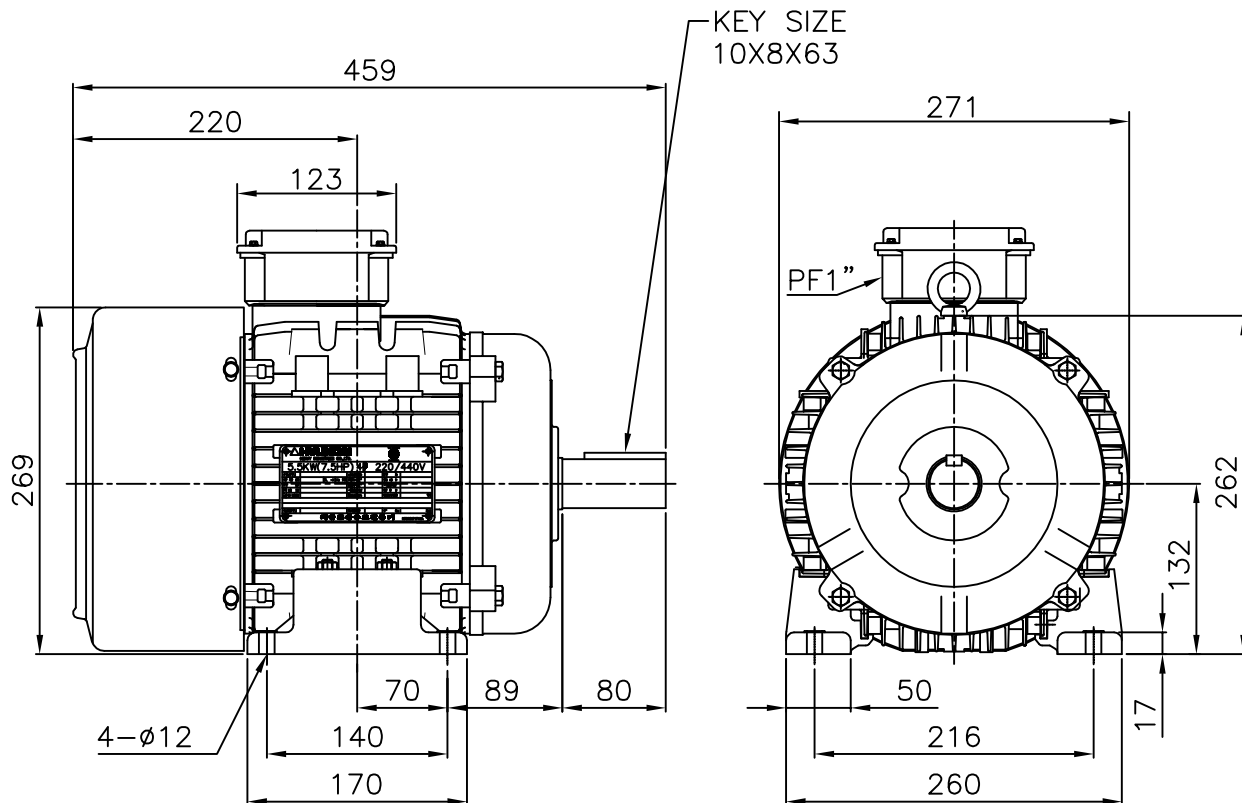
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

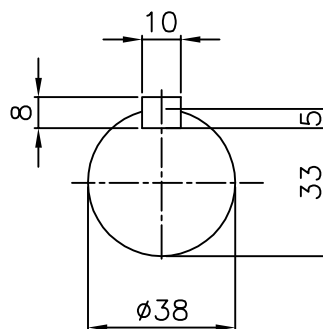
CAST IRON FRAME



NOTE

1.TOLERANCE :

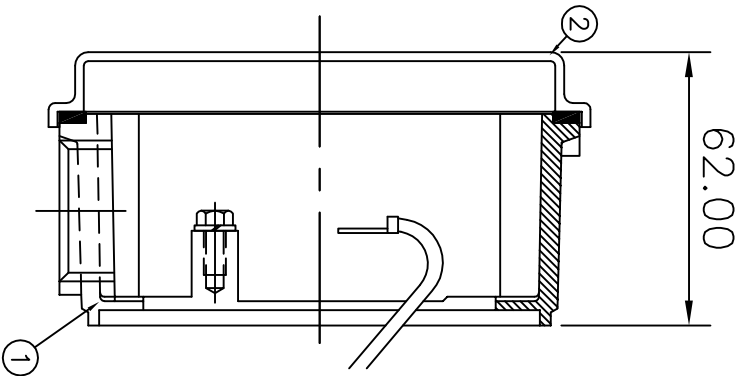
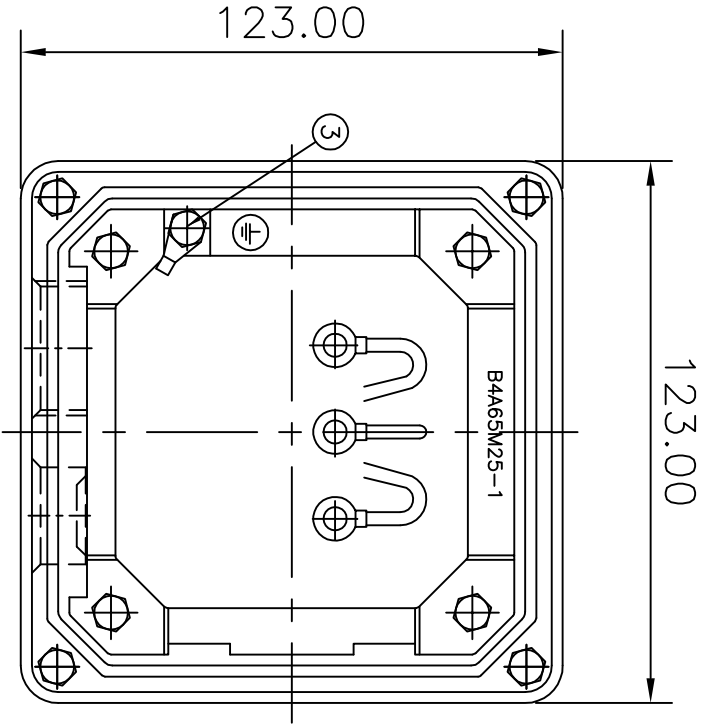
CENTER HEIGHT	132 ⁺⁰ _{-0.5}
BASE HOLES	ø12 ^{+0.43} ₋₀
SHAFT DIAMETER	ø38 ^{+0.018} _{+0.002}
KEYWAY WIDTH	10 ⁺⁰ _{-0.036}
KEYWAY DEPTH	5 ^{+0.2} ₋₀



CAST IRON CONDUIT BOX

APPD BY		UNIT	mm	SUBJECT	KS 132S	CAD PROJ \ FILE	
CHKD BY		SCALE	1/6			XSDNKS\B2000AC03	
CHKD BY	S. W. SEO	PROJEC'N	3rd Angle	TITLE OUTLINE			
DSND BY	J. S. JEONG	DATE	2009.8.11				
 HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	B2000AB03	Sheet No.	of
				DWG NO	227B2003AB03	Revision No.	0

PT	DESCRIPTION	MATERIAL	Q'TY
1	CONDUIT BOX	ALDCS8	1
2	CONDUIT BOX COVER	ALDCS8	1
3	GROUND TERMINAL BOLT & LUG	CU	1



Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	UNIT	MM	SUBJECT	IEC 132FR		CAD PROJ	FILE
CHKD BY	SCALE	N/S					
CHKD BY	PROJEC'N	3 [Z]21g/2L(3rd Angle)	TITLE				
DSND BY	JEONG JIN SEON DATE	2006.02.16.	CONDUIT BOX ASS'Y				
REF. NO	227B9003GB2	Sheet No.	of				
DWG NO	227B9003GB2	Revision No.	0				

