

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	180M		Rated Output	18.5 kW 25 HP			
Type	HL-XP		Number of Poles	4			
Enclosure(Protection)	Explosion Proof (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 31.7 A	36.7 A 63.3 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	650 %	650 % 650 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load	91.7 %			
Motor Location	☐ Indoor ☒ Outdoor		75% Load	92.6 %			
Altitude	Less than 1000 meter		100% Load	92.4 %			
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load	0.722			
Duty Type	Continuos (S1)		75% Load	0.770			
Service Factor	1.00		100% Load	0.830			
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load	1775 r.p.m			
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6310ZZC3 / 6310ZZC3	Full Load	10.2 kg·m			
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**	160 %			
External Thrust	Not applicable		Breakdown**	240 %			
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.)	13.750 kg·m²			
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor	0.166 kg·m²			
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)	77 dB(A)			
	Location	Refer to Outline Drawing	Vibration	2.2 mm/sec (r.m.s)			
Application			Permissible number of consecutive starts	Cold 3 times	Hot 2 times		
Area classification	Hazardous		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
Type of Ex-Protection	Ex d IIB T4		SUBMITTAL DRAWING				
Applicable Standard	KS,IEC		Outline Dimension Drawing \ Motor Weight(Approx.)				
ACCESSORIES			B3		kg		
			B5		kg		
			V1	227B2062AA07	211 kg		
			B3/B5		0 kg		
			Main T-Box Ass'y	227B1470LB			
SPARE PARTS			REMARK				
			High Efficiency				
			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.

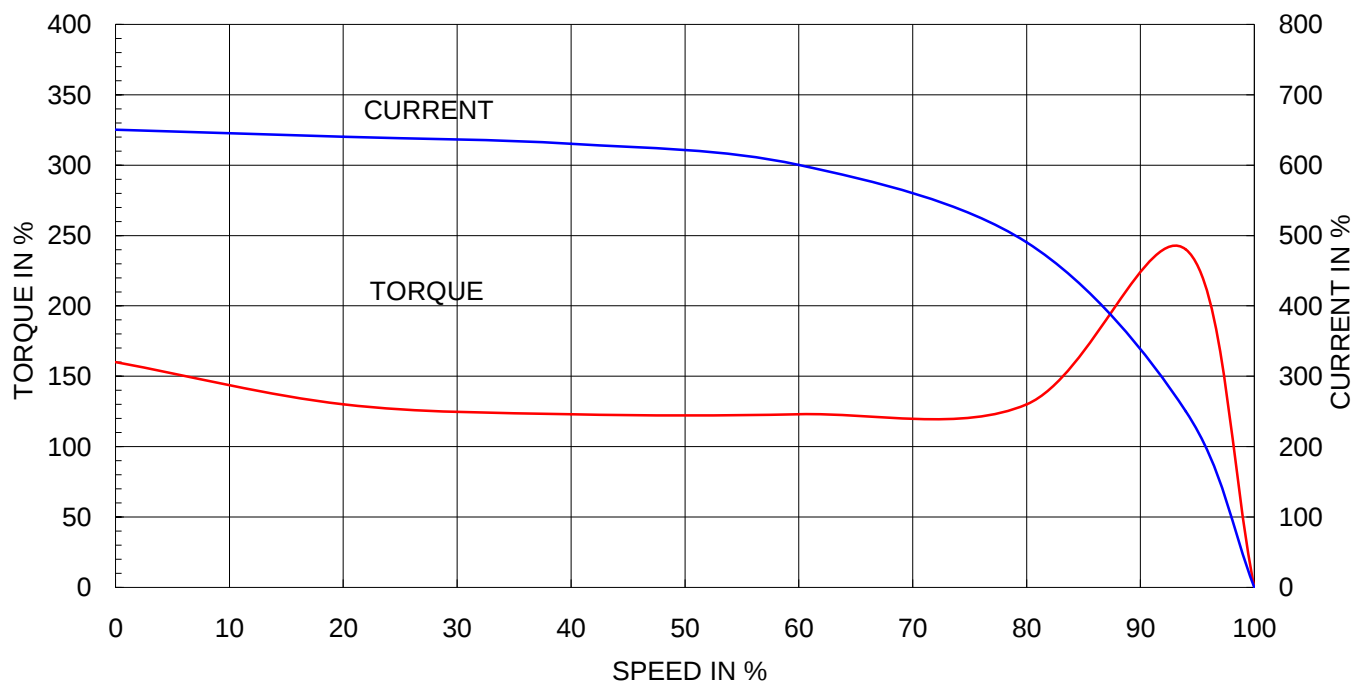
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

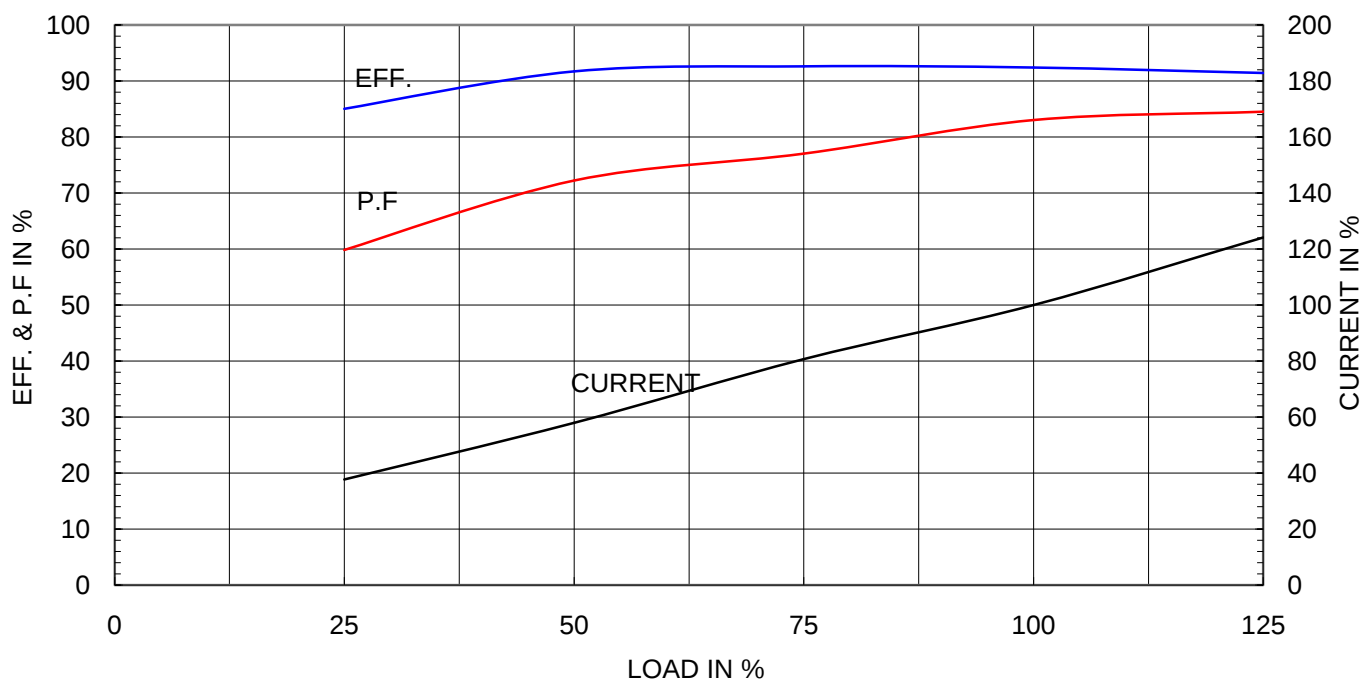
Type	:	HL-XP
Full Load Torque	:	10.2 Kg.m
Motor moment of Inertia (J)	:	0.166 Kg.m ²
Load moment of Inertia (J)	:	13.750 Kg.m ²

18.5 kW		4 P		60 Hz	
Speed at Full Load :				1775 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	31.7A	36.7A	63.3A		

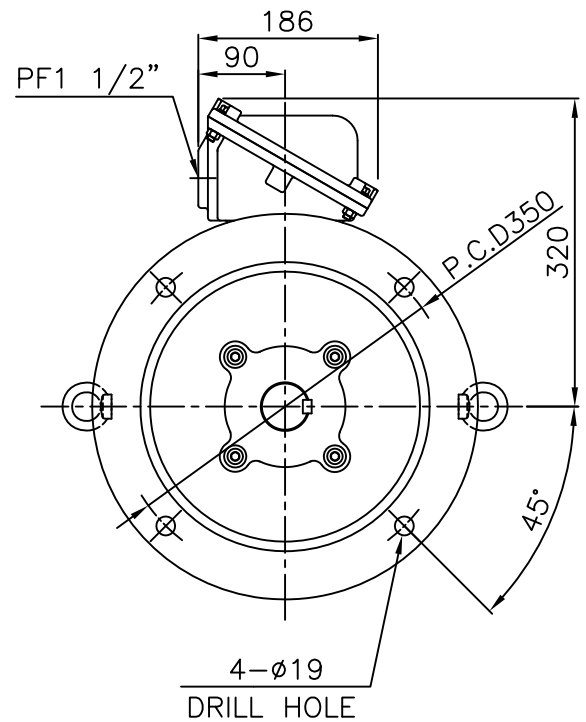
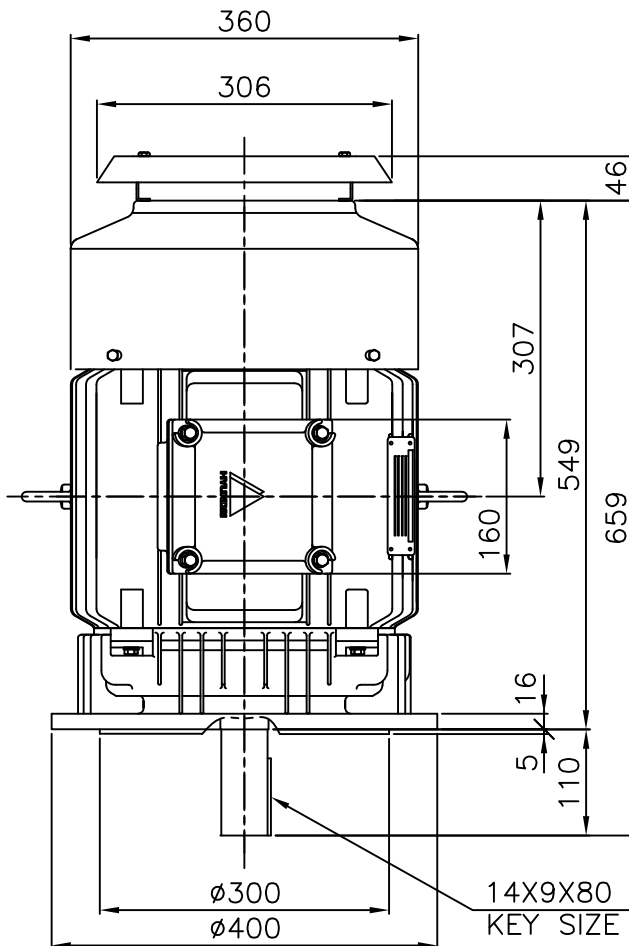
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



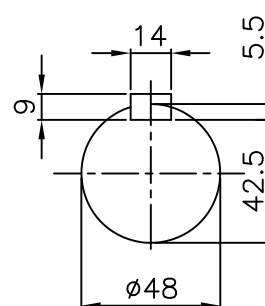
Exd II



NOTE

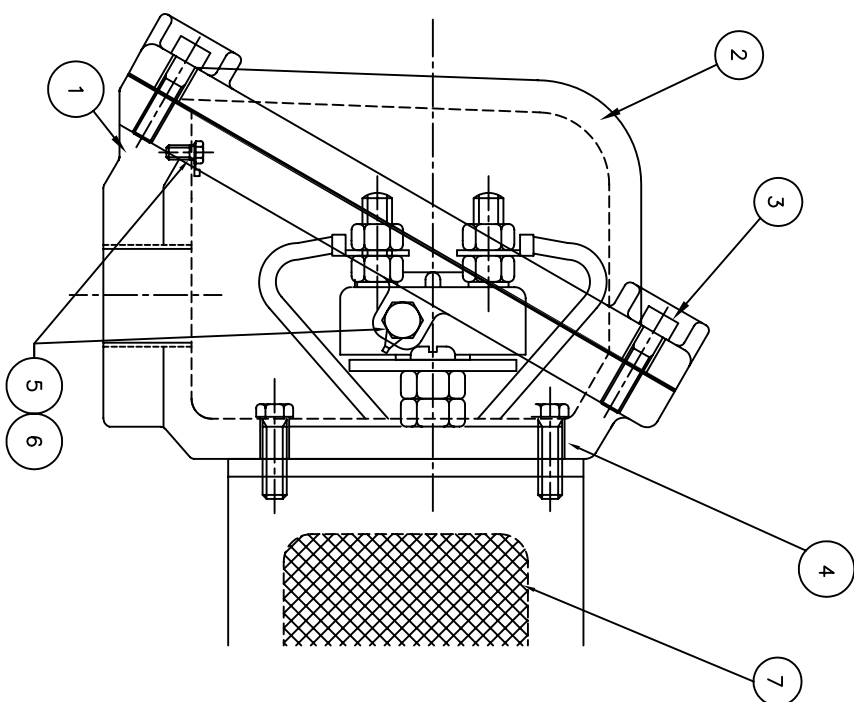
1.TOLERANCE :

FLANGE HOLES	Ø19	+0.43 0
RABBET DIAMETER	Ø300	+0.016 -0.013
SHAFT DIAMETER	Ø48	+0.018 +0.002
KEYWAY WIDTH	14	0 -0.043
KEYWAY DEPTH	5.5	+0.2 0



APPD BY	Y. S. KIM	UNIT	mm
CHKD BY	K. S. LEE	SCALE	1/8
CHKD BY	-----	PROJEC'N	3rd Angle
DSND BY	I. K. KIM	DATE	2008.10.22

SUBJECT	KS 180M	CAD PROJ \ FILE
		XSDNKS\B2062AA07
TITLE	OUTLINE	
REF. NO	B2062AA07	Sheet No. of
DWG NO	227B2062AA07	Revision No. 0

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