

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	132M		Rated Output	5.5 kW 7.5 HP	
Type	HL-XP		Number of Poles	6	
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	11.1 A 12.9 A 22.2 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	89.0 %	
Motor Location	☒ Indoor ☐ Outdoor		75% Load	89.7 %	
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	0.544	
Duty Type	Continuos (S1)		75% Load	0.667	
Service Factor	1.00		100% Load	0.725	
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	4.6 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.)	13.000 kg·m²	
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor	0.052 kg·m²	
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)	62 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	Hazardous		Hot	2 times	
Type of Ex-Protection	Ex d IIB T4		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
Applicable Standard	KS,IEC		SUBMITTAL DRAWING		
ACCESSORIES			Outline Dimension Drawing \ Motor Weight(Approx.)		
			B3		kg
			B5	227B2022AA04	88 kg
			V1		kg
			B3/B5		0 kg
			Main T-Box Ass'y 227B1470LC		
SPARE PARTS			REMARK High Efficiency		
			Date	DSND	CHKD
			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.

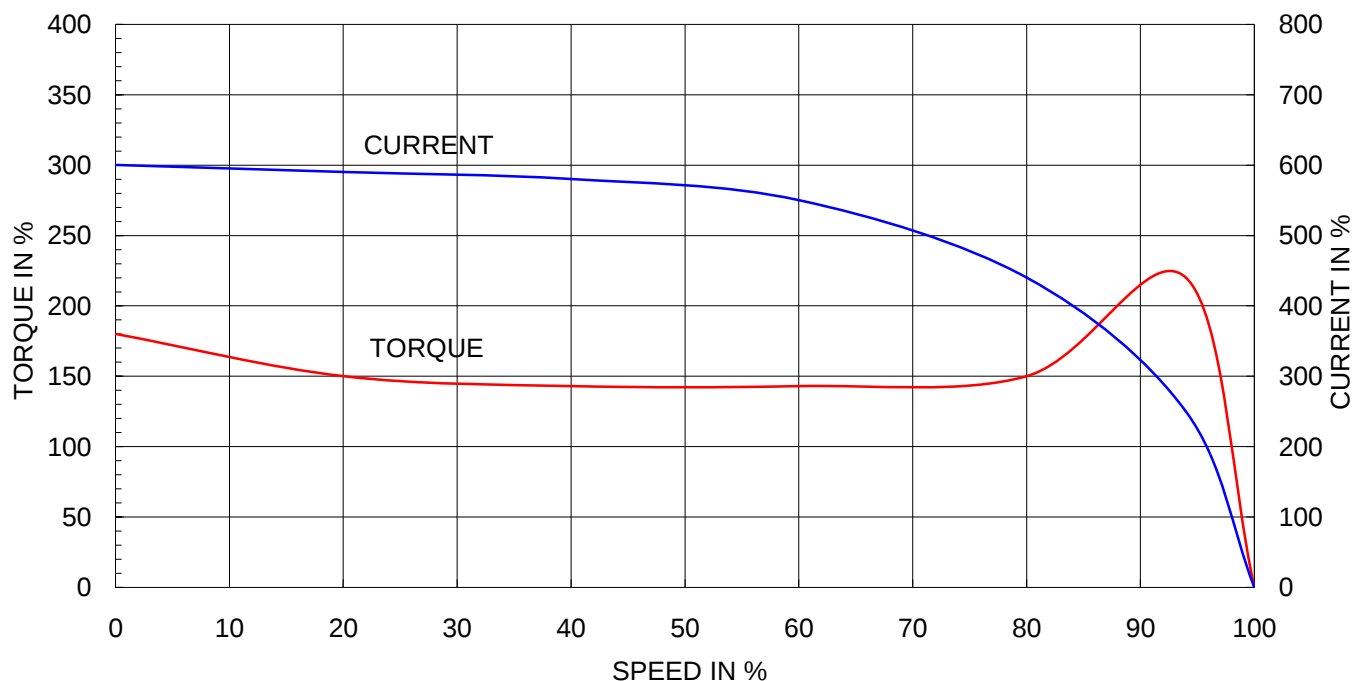
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

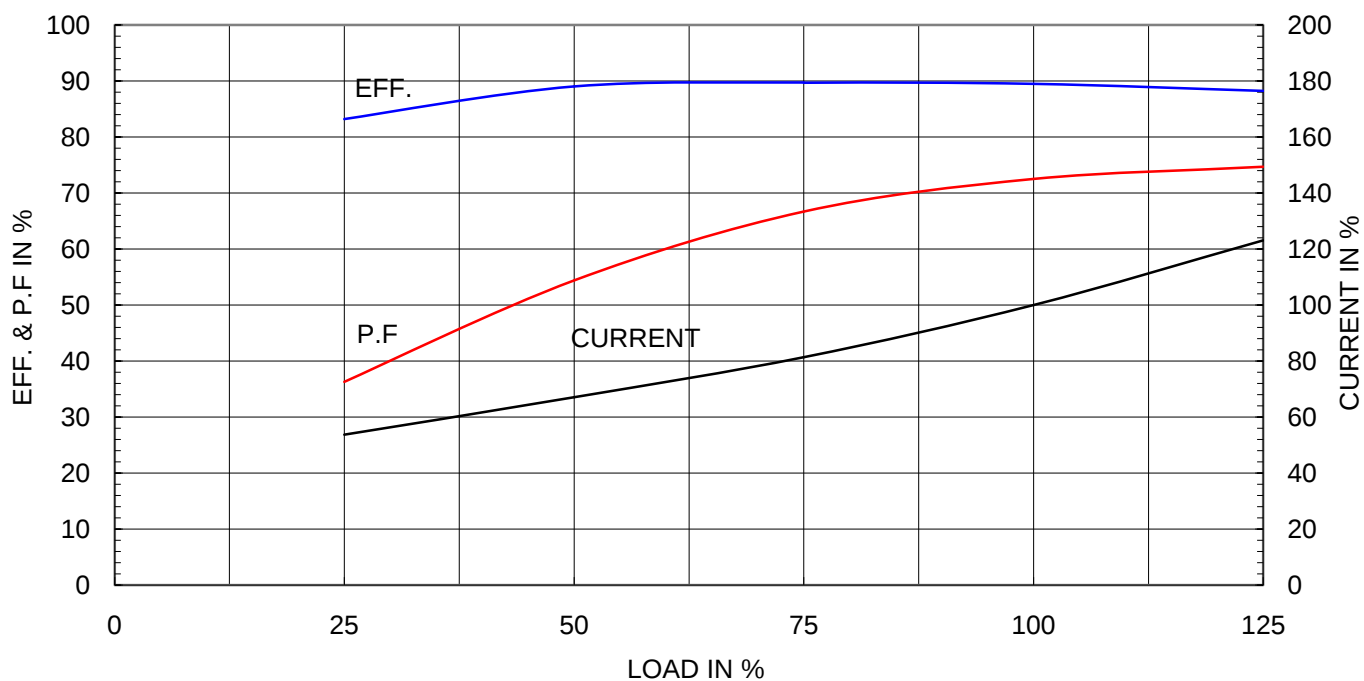
Type	:	HL-XP
Full Load Torque	:	4.6 Kg.m
Motor moment of Inertia (J)	:	0.052 Kg.m ²
Load moment of Inertia (J)	:	13.000 Kg.m ²

5.5 kW		6 P		60 Hz	
Speed at Full Load :				1165 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	11.1A	12.9A	22.2A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





HEAVY INDUSTRIES CO., LTD.

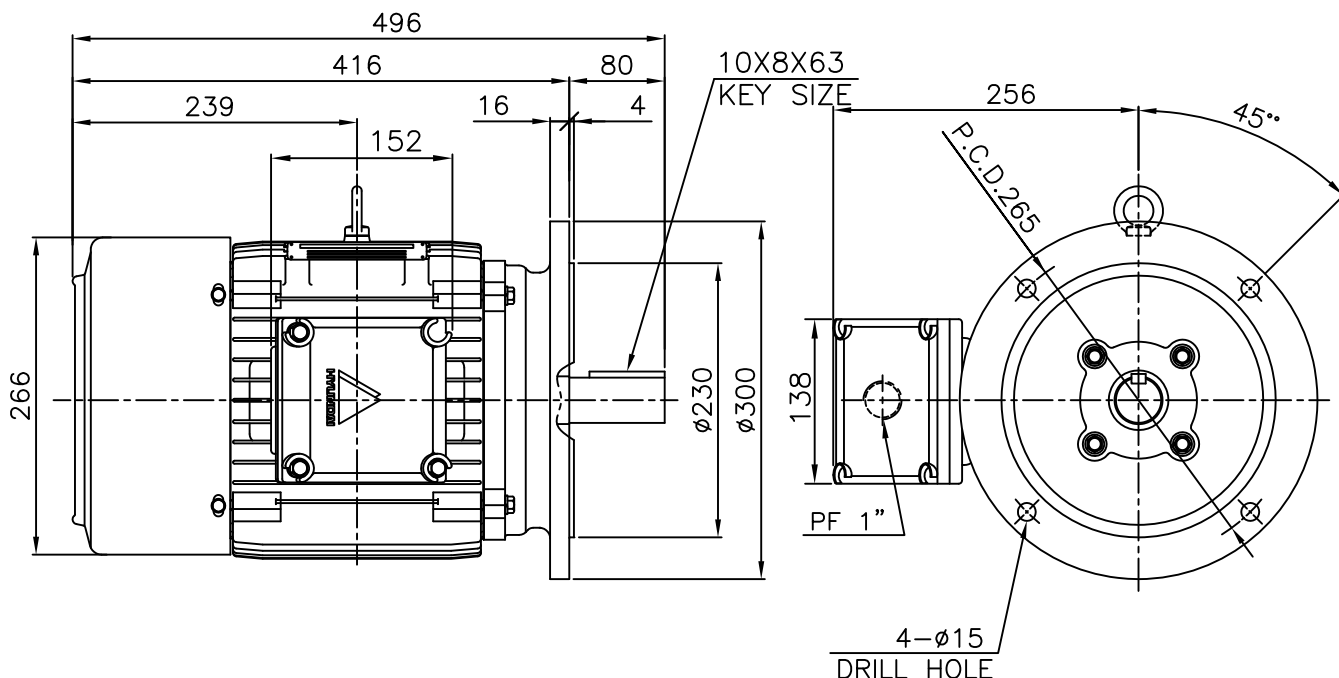
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

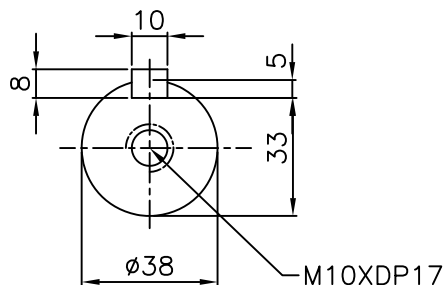
CAST IRON FRAME



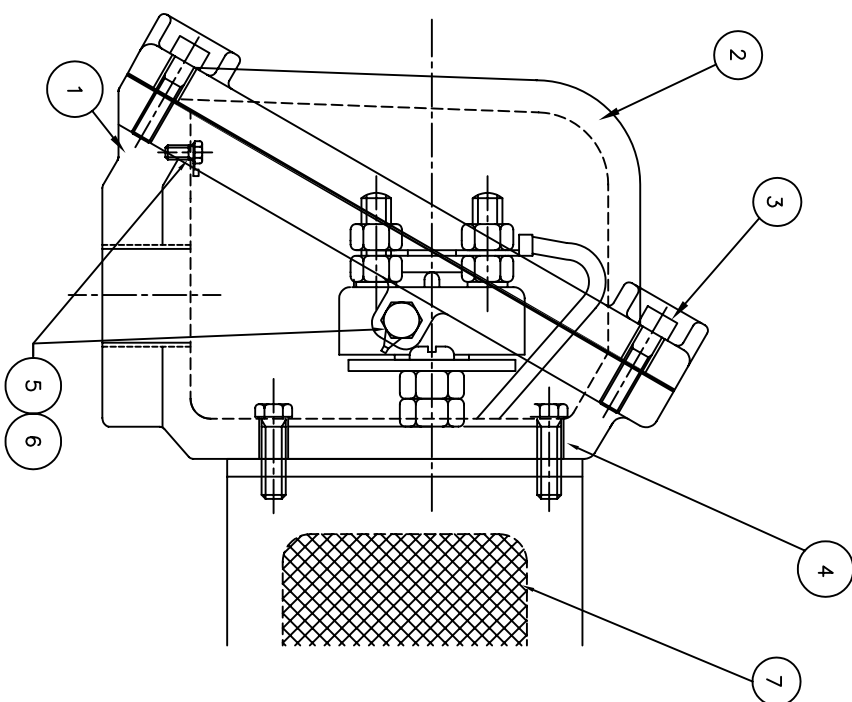
NOTE

1.TOLERANCE :

FLANGE HOLES	$\phi 15^{+0.43}_{-0}$
RABBET DIAMETER	$\phi 230^{+0.014}_{-0.011}$
SHAFT DIAMETER	$\phi 38^{+0.018}_{+0.002}$
KEYWAY WIDTH	$10^{+0}_{-0.036}$
KEYSEAT 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			XSDNKS\B2022AA04
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND BY	I. K. KIM	DATE	2002.12.07			
 HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	B2022AA04	Sheet No. of
				DWG NO	227B2022AA04	Revision No. 0

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