

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	90L		Rated Output	1.5 kW 2 HP	
Type	HK-XP		Number of Poles	2	
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	2.7 A 3.1 A 5.4 A
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	780 %	780 % 780 %
Temp. Rise at full load (by resistance method)			Efficiency		
at 1.0 S.F 80 deg. C			50% Load	81.0 %	
Motor Location	☒ Indoor ☐ Outdoor		75% Load	83.5 %	
Altitude	Less than 1000 meter		100% Load	84.0 %	
Relative Humidity	Less than 80 %		Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)		50% Load	0.760	
Duty Type	Continuos (S1)		75% Load	0.830	
Service Factor	1.00		100% Load	0.868	
Mounting	☐ B3 ☐ B5 ☐ V1 ☒ B3/B5		Speed at Full Load	3500 r.p.m	
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6205ZZ / 6204ZZ	Full Load	0.4 kg·m	
	Lubricant	Grease(SML4)	Locked-rotor**	300 %	
External Thrust	Not applicable		Breakdown**	320 %	
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)		
Shaft Extension	☒ Single ☐ Double		Load(Max.)	0.250 kg·m²	
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor	0.0017 kg·m²	
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)	74 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		kg
			V1		kg
			B3/B5	227B5024AD03	30 kg
			Main T-Box Ass'y	227B1536AA	
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.

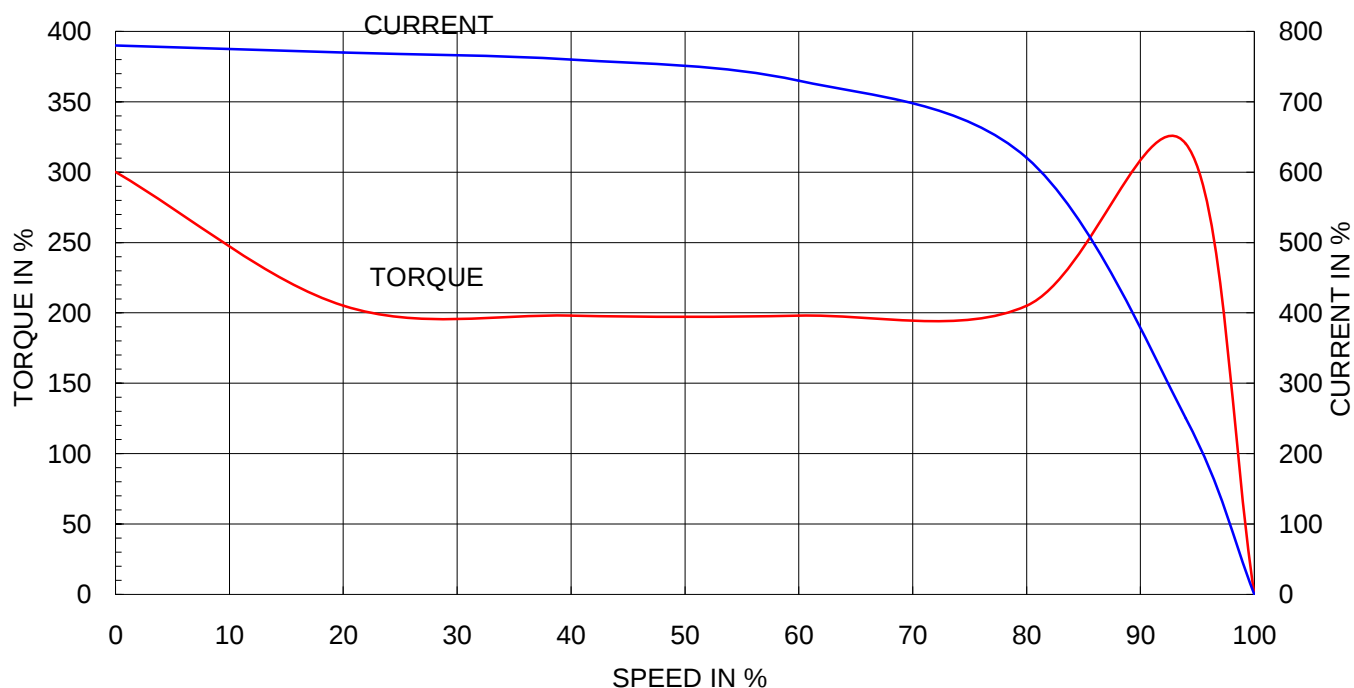
** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

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)

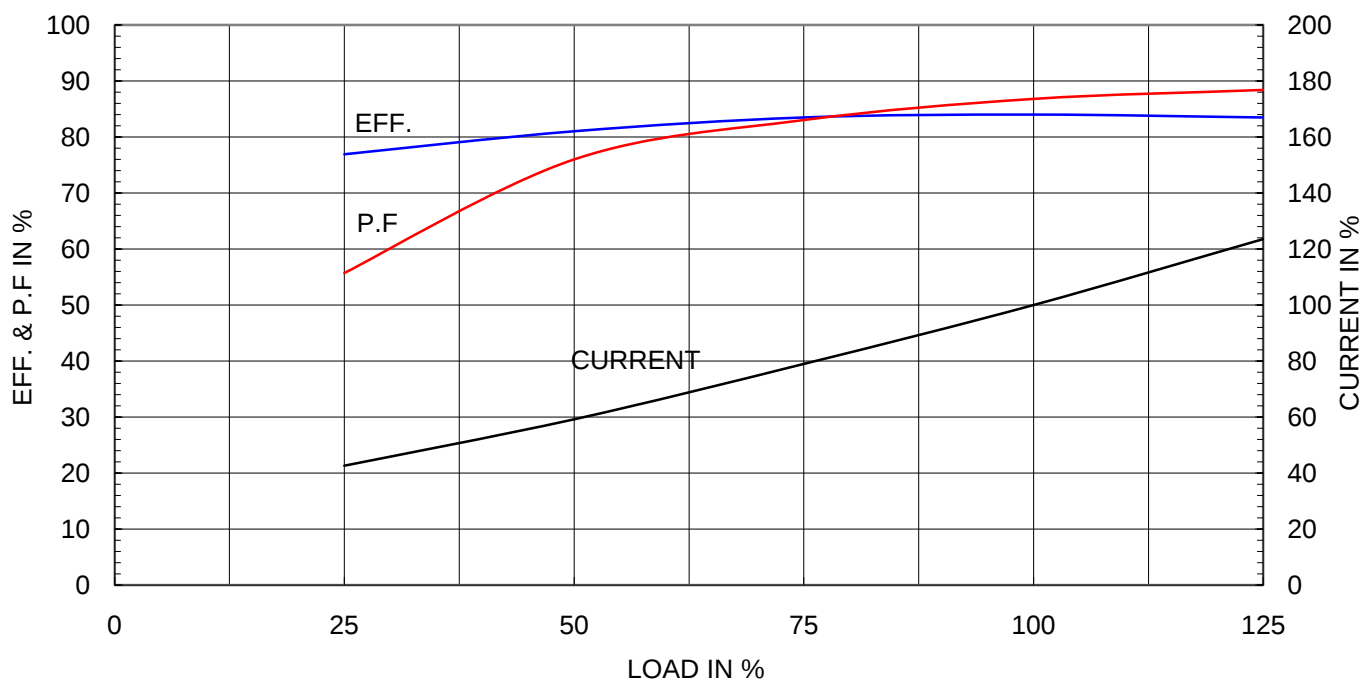
Type	:	HL-XP
Full Load Torque	:	0.4 Kg.m
Motor moment of Inertia (J)	:	0.002 Kg.m ²
Load moment of Inertia (J)	:	0.250 Kg.m ²

1.5 kW		2 P		60 Hz	
Speed at Full Load :				3500 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	2.7A	3.1A	5.4A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





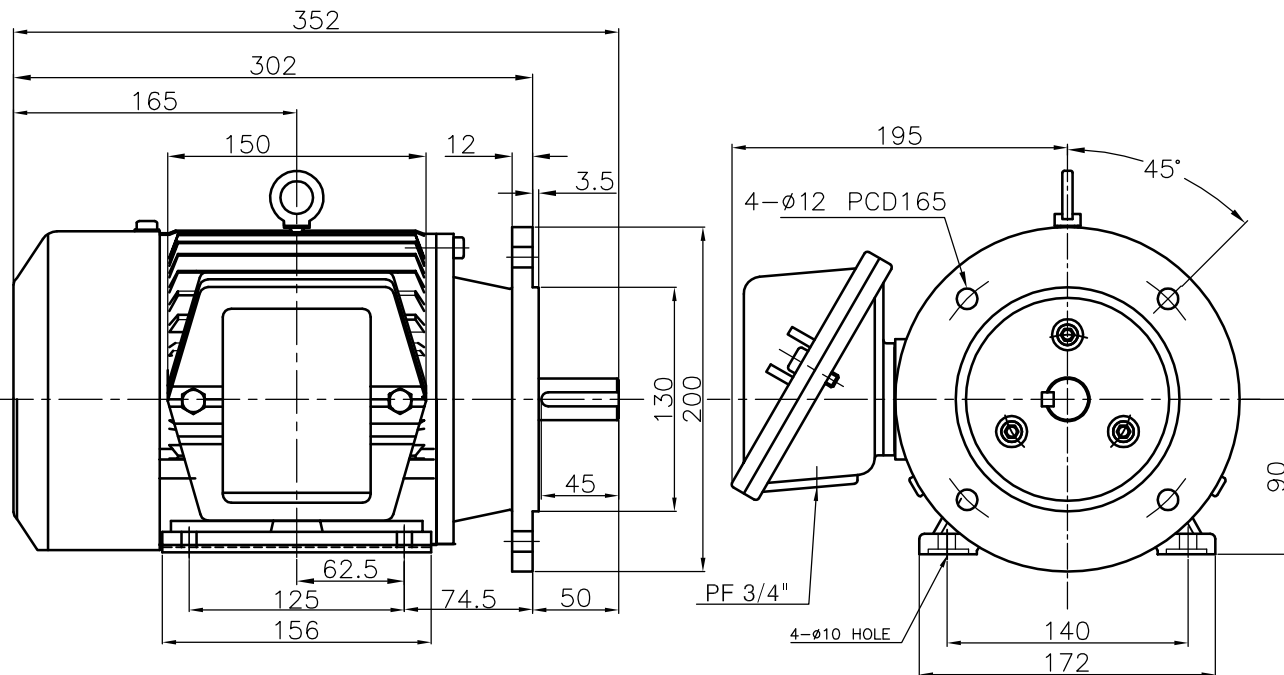
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

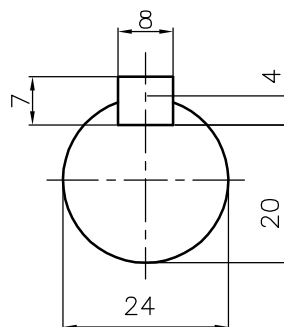
CI FRAME



NOTE

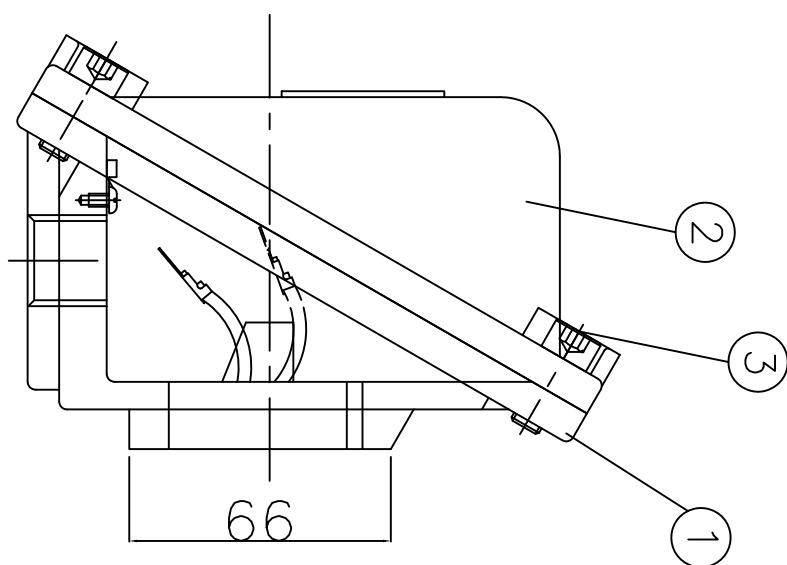
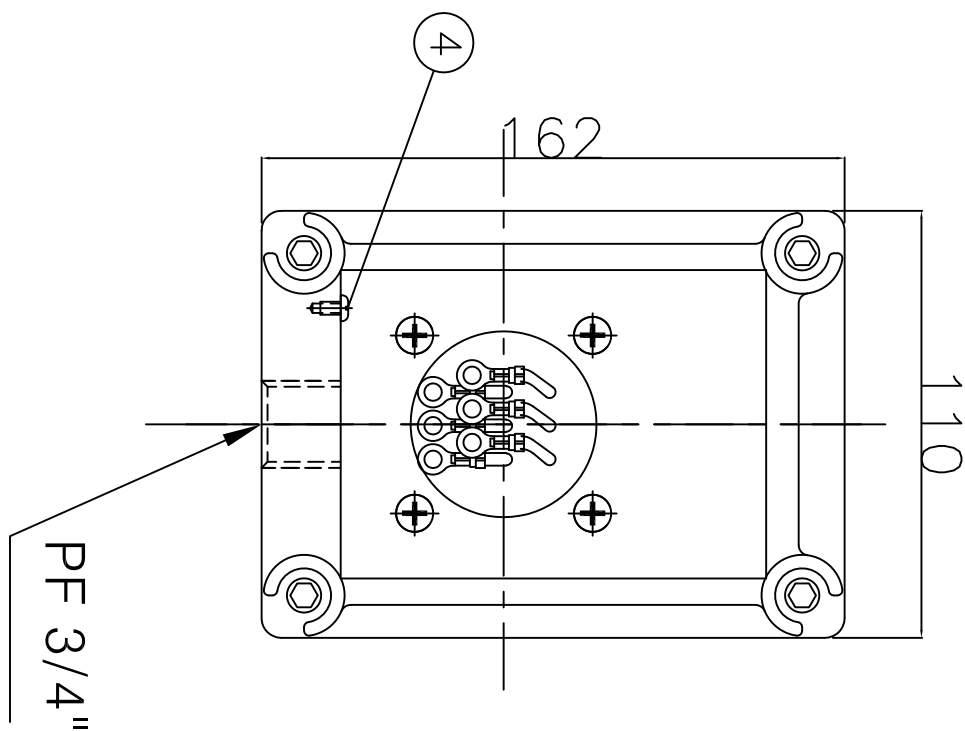
1.TOLERANCE :

FLANGE HOLES	$\phi 12 \begin{smallmatrix} +0.43 \\ -0. \end{smallmatrix}$
RABBET DIAMETER	$\phi 130 \begin{smallmatrix} +0.014 \\ -0.011 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 24 \begin{smallmatrix} +0.009 \\ -0.004 \end{smallmatrix}$
KEYWAY WIDTH	$8 \begin{smallmatrix} +0 \\ -0.036 \end{smallmatrix}$
KEYWAY DEPTH	$20 \begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$
KEY SIZE	8*7*45



* CAST IRON CONDUIT BOX

APPD BY	B.M.YOO	UNIT	mm	SUBJECT	FF165, IEC 90	CAD PROJ \ FILE
CHKD BY	S.W.SEO	SCALE	1/0.34			B3/B5 D2G4
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle	OUTLINE		
DSND BY	C.S.KO	DATE	2008.01.12			
 HEAVY INDUSTRIES CO., LTD. Electro-Electric System Division				REF. NO	091\091ASD2G4	Sheet No. of
				DWG NO	227B5024AD03	Revision No. 0



							6
							5
1	GROUND TERMINAL LUG	S45C	2-5				4
4	SCREW	S45C	M8*25				3
1	C/B COVER	GC15					2
1	CONDUIT BOX	GC15					1
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.

APPD BY	B.M.YOO	UNIT	MM	SUBJECT	CB ASM	CAD PROJ	FILE
CHKD BY	S.W.SEO	SCALE	1/0.48			D2D4	
CHKD BY	J.S.JEONG	PROJEC'N	3rd Angle	TITLE	CONDUIT BOX ASSEMBLY	6-LEADS	
DSMD BY	C.S.KO	DATE	2008.01.12				
 HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				REF. NO	227B1536AA1	Sheet No.	of
				DWG NO	227B1536AA1	Revision No.	0