

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	HL-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 9.6 A	11.1 A 19.2 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	700 %	700 % 700 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load	85.8 %			
Motor Location	☒ Indoor ☐ Outdoor		75% Load	88.0 %			
Altitude	Less than 1000 meter		100% Load	88.5 %			
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load	0.737			
Duty Type	Continuos (S1)		75% Load	0.810			
Service Factor	1.00		100% Load	0.850			
Mounting	☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load	3530 r.p.m			
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6208ZZC3 / 6208ZZC3	Full Load	1.5 kg·m			
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**	190 %			
External Thrust	Not applicable		Breakdown**	300 %			
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.)	1.250 kg·m²			
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor	0.014 kg·m²			
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)	76 dB(A)			
	Location	Refer to Outline Drawing	Vibration	1.6 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	227B2022AA03	81 kg		
			V1		kg		
			B3/B5		0 kg		
			Main T-Box Ass'y	227B1470LC			
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

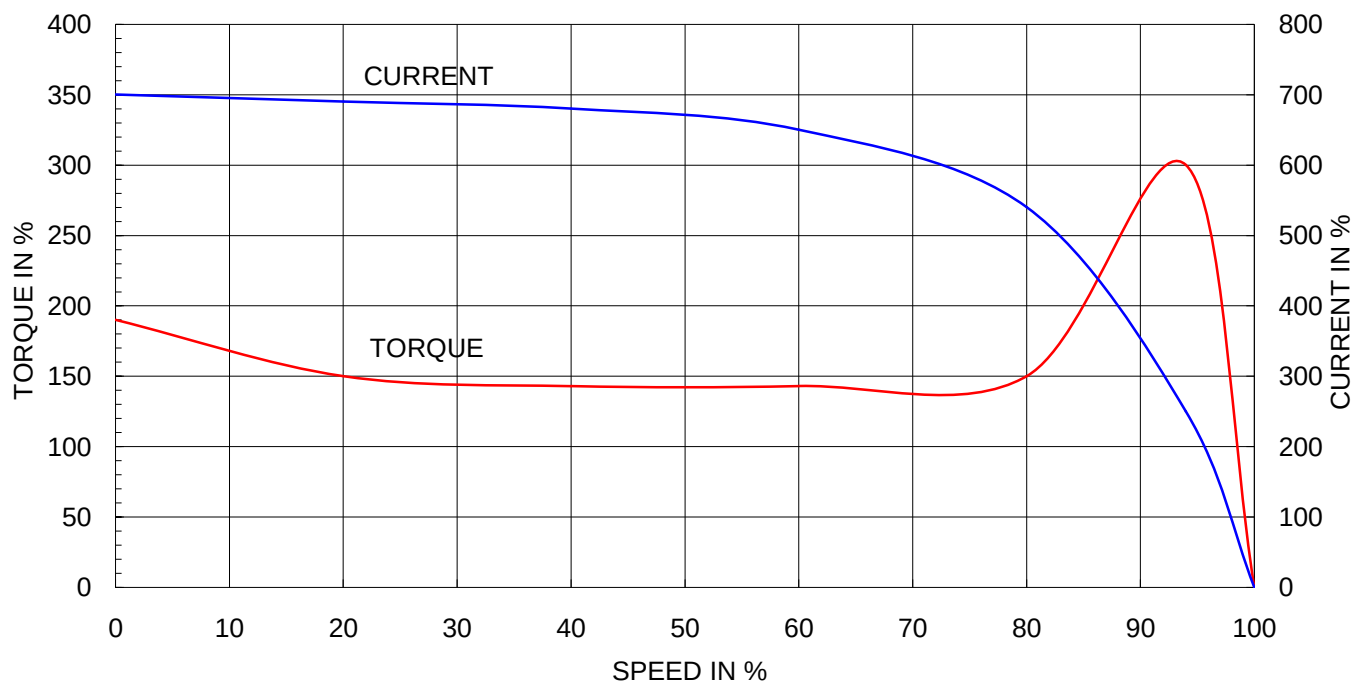
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed 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)

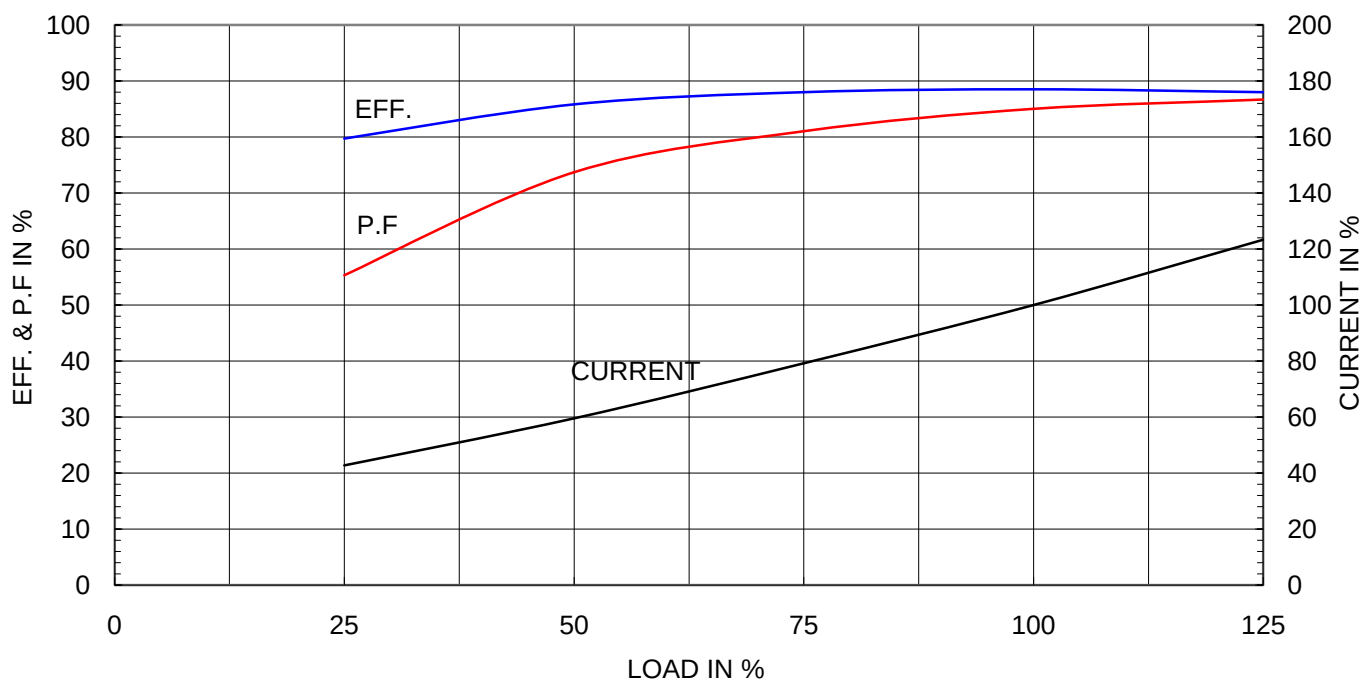
Type	:	HL-XP
Full Load Torque	:	1.5 Kg.m
Motor moment of Inertia (J)	:	0.014 Kg.m ²
Load moment of Inertia (J)	:	1.250 Kg.m ²

5.5 kW		2 P		60 Hz	
Speed at Full Load :				3530 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	9.6A	11.1A	19.2A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





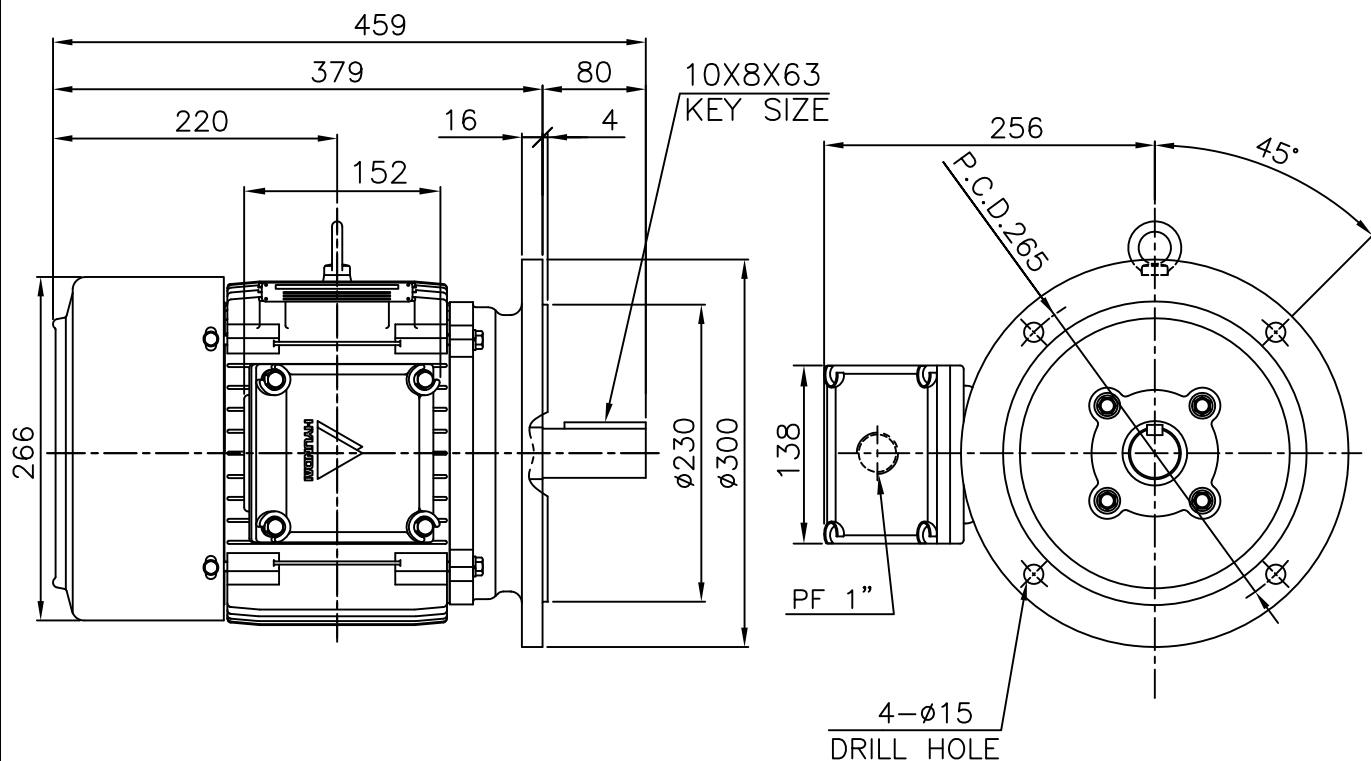
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL , HLS

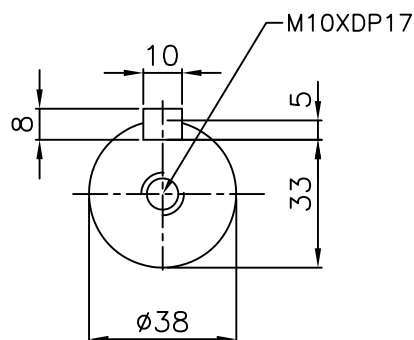
CAST IRON FRAME



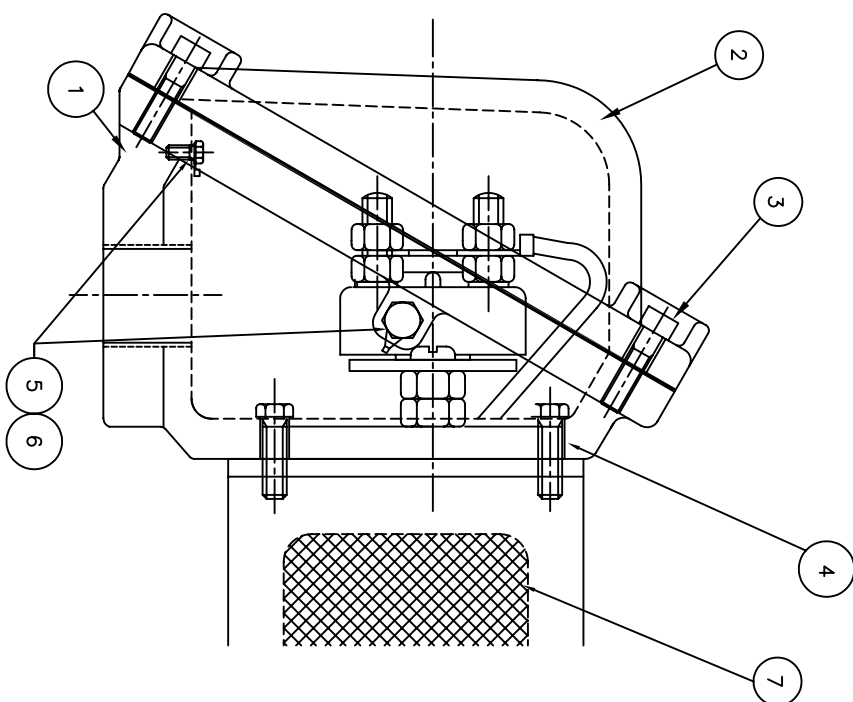
NOTE

1.TOLERANCE :

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	$5^{+0.2}_{-0}$



APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 132S	CAD PROJ \ FILE
CHKD BY	Y. S. KIM	SCALE	1/6			XSDNKS\B2022AA03
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	B2022AA03	Sheet No. of
				DWG NO	227B2022AA03	Revision No. 0



1	TERMINAL BLOCK								8
.	SEALING COMPOUND		D4C29C						7
2	GRD TERMINAL LUG		CU						6
2	GRD. BOLT		S45C						5
4	T/B + FRAME BOLT		S45C						4
4	T/B + COVER BOLT		S45C						3
1	TERMINAL BOX COVER		FC15						2
1	TERMINAL BOX		FC15						1
	ASSEMBLY								
Q'TY	DESCRIPTION	MATERIAL		DIMENSION	WEIGHT	PART NO.	REMARK	NO.	
APPD BY	UNIT	MM		SUBJECT					
CHKD BY	SCALE	N/S							
CHKD BY	PROJEC'N	3 45°(3rd Angle)							
DSND BY	DATE	99.2.2							
	LEE E.J.								
 HYUNDAI HEAVY INDUSTRIES CO., LTD. ELECTRICAL ENGINEERING DIVISION				TITLE MAIN TERMINAL BOX					
REF. NO		7B1469LC		REF. NO		Sheet No. of			
DWG NO		227B1469LC		Revision No.		0			