

AC INDUCTION MOTOR DATA SHEET

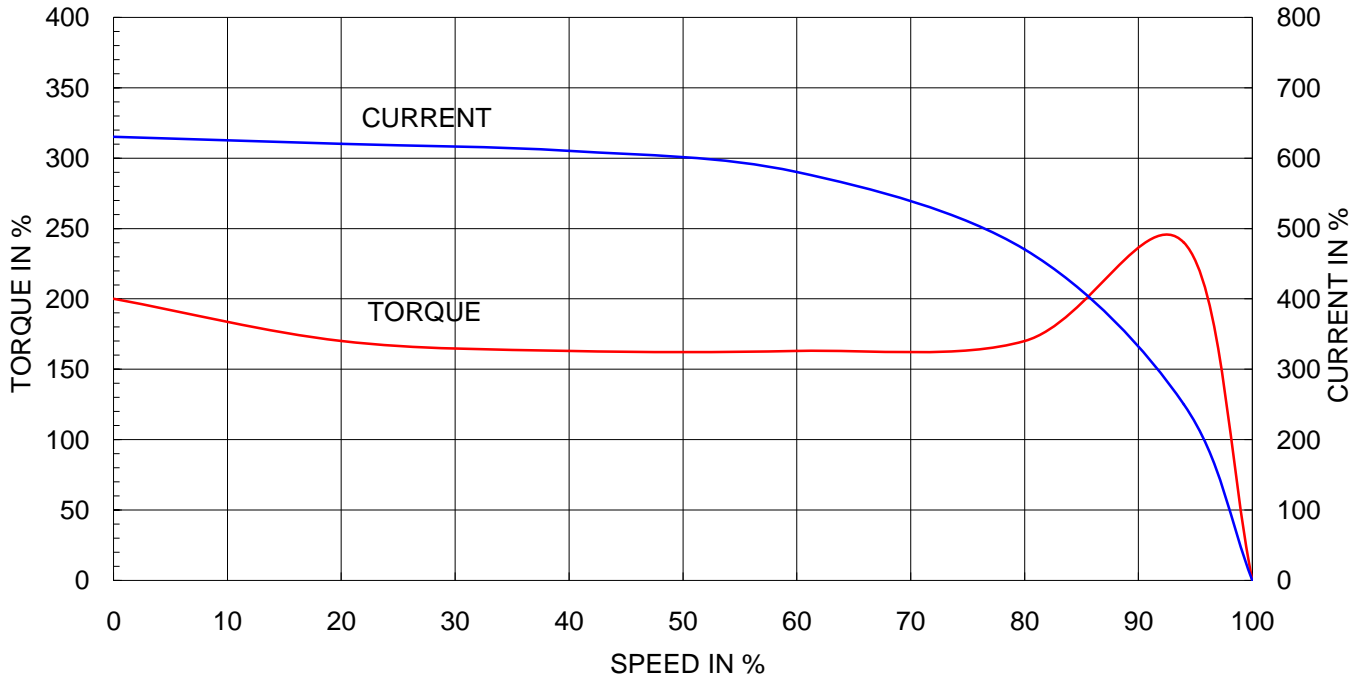
Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	160L		Rated Output	15 kW 20 HP			
Type	HL-XP		Number of Poles	4			
Enclosure(Protection)	Explosion Proof (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V		
Number of Phases	3		Current	Full Load	26.5 A 30.7 A 53.1 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	630 %	630 % 630 %		
Temp. Rise at full load (by resistance method) at 1.0 S.F	80 deg. C		Efficiency				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		50% Load	90.0 %			
Altitude	Less than 1000 meter		75% Load	91.2 %			
Relative Humidity	Less than 80 %		100% Load	91.0 %			
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)				
Duty Type	Continuos (S1)		50% Load	0.652			
Service Factor	1.00		75% Load	0.750			
Mounting	<input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		100% Load	0.815			
Bearing	Type	Anti-Friction		Speed at Full Load	1770 r.p.m		
	DE/N-DE	6309ZZC3 / 6309ZZC3		Torque			
	Lubricant	Grease(Polyrex-EM)		Full Load	8.3 kg·m		
External Thrust	Not applicable		Locked-rotor**	200 %			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Breakdown**	240 %			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Moment of Inertia (J)				
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Load(Max.)	12.750 kg·m ²		
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Motor	0.090 kg·m ²		
Location	Refer to Outline Drawing		Sound Pressure Level (No-load & mean value at 1m from motor)	74 dB(A)			
Application			Vibration	2.2 mm/sec (r.m.s)			
Area classification	Hazardous		Permissible number of consecutive starts	Cold	3 times		
Type of Ex-Protection	Ex d IIB T4		Hot	2 times			
Applicable Standard	KS,IEC		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		kg		
			B5	227B2022AA06	162 kg		
			V1		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.

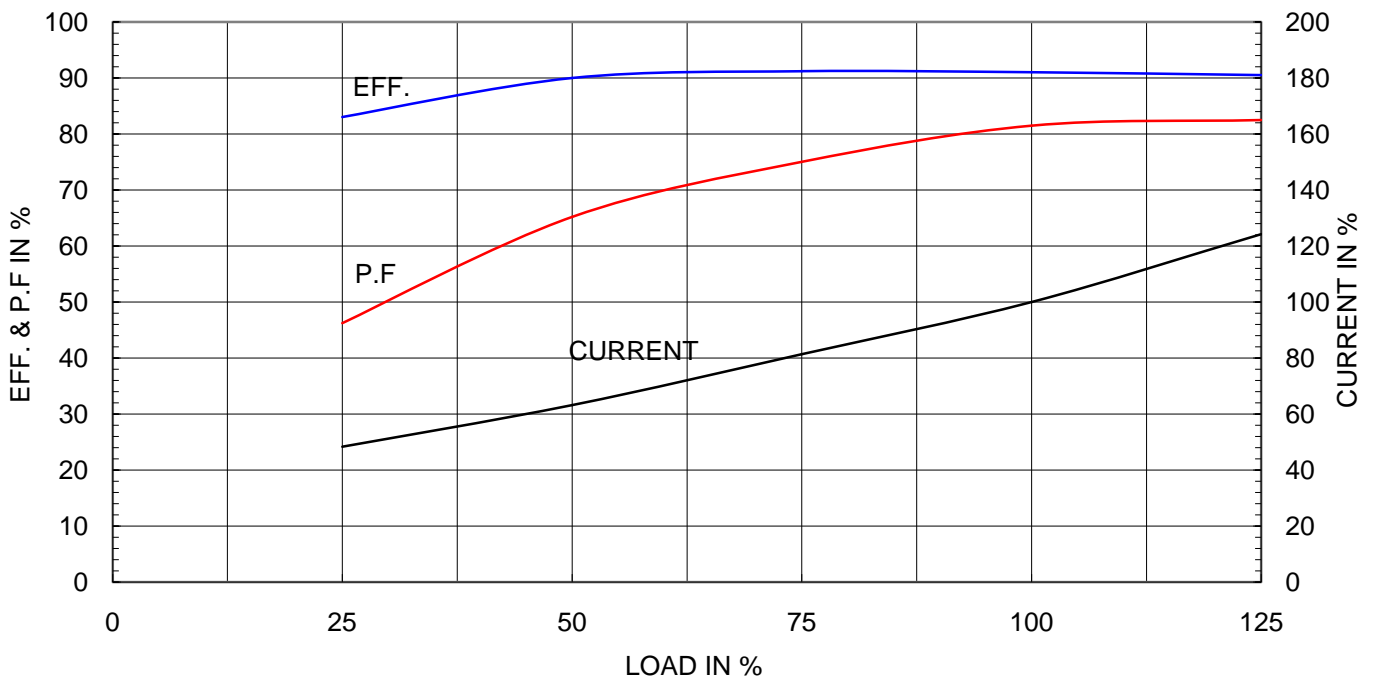
Type	:	HL-XP
Full Load Torque	:	8.3 Kg.m
Motor moment of Inertia (J)	:	0.090 Kg.m ²
Load moment of Inertia (J)	:	12.750 Kg.m ²

15 kW	4 P	60 Hz	
Speed at Full Load :		1770 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	26.5A	30.7A	53.1A

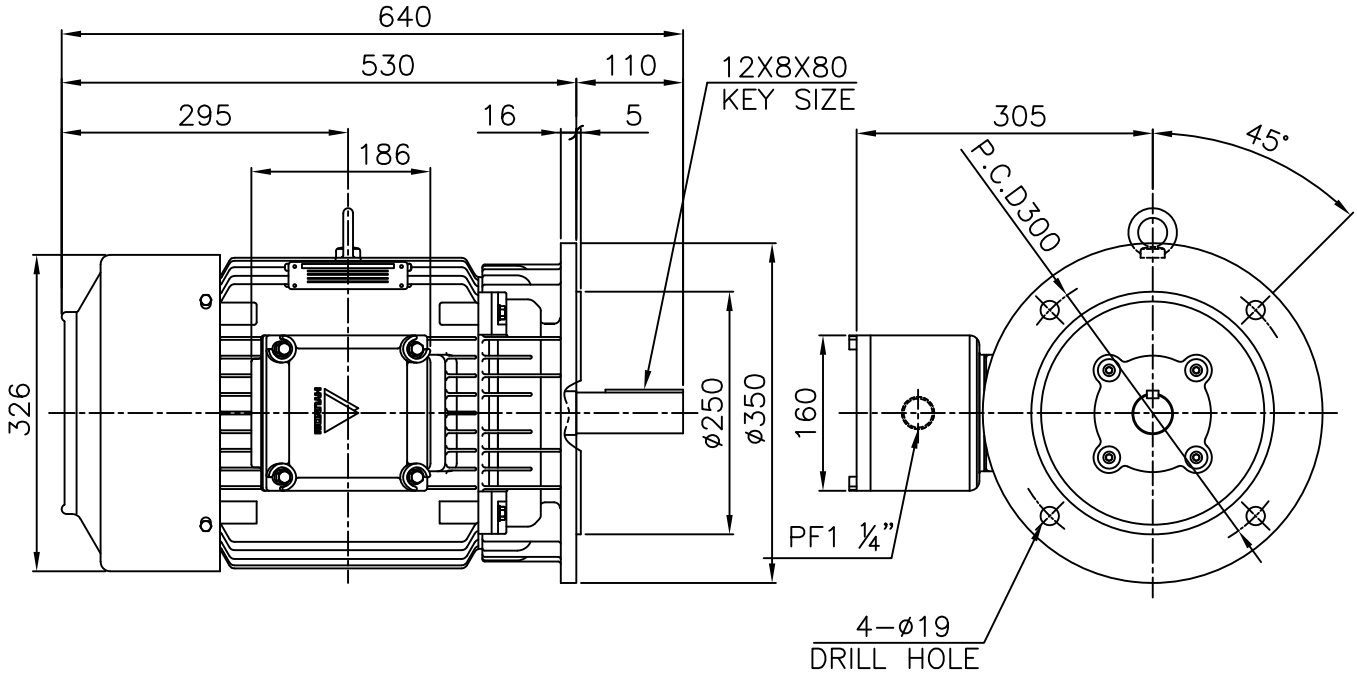
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



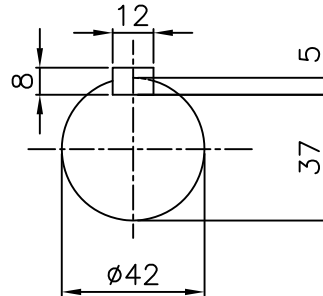
Exd II



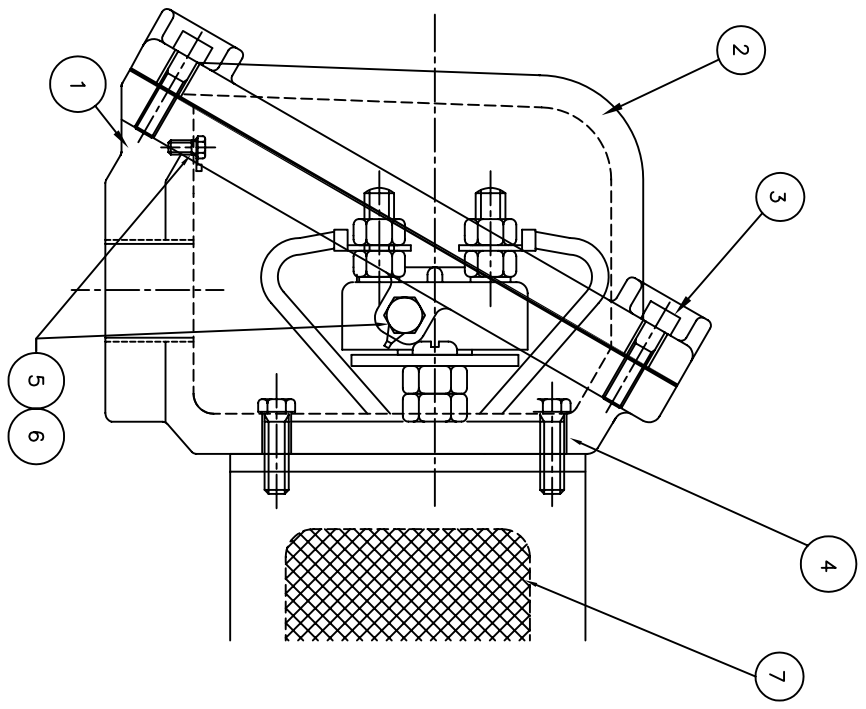
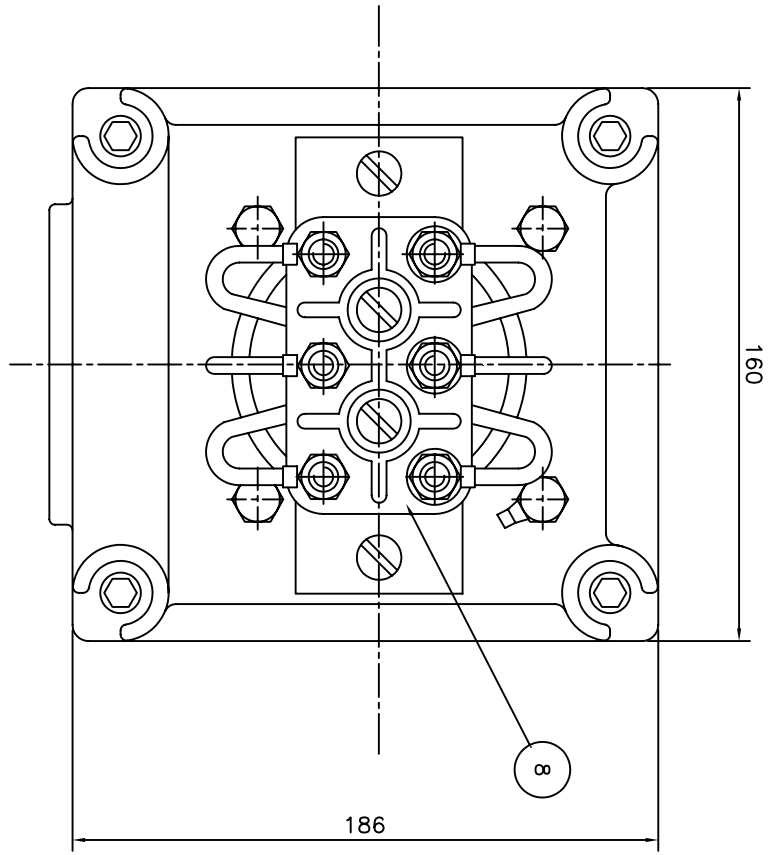
NOTE

1.TOLERANCE :

FLANGE HOLES	ø19	+0.43 0
RABBET DIAMETER	ø250	+0.016 -0.013
SHAFT DIAMETER	ø42	+0.018 +0.002
KEYWAY WIDTH	12	0 -0.043
KEYWAY DEPTH	5	+0.2 0



APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 160L	CAD PROJ \ FILE
CHKD BY	Y. S. KIM	SCALE	1/8			XSDNKS\B2022AA06
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	I. K. KIM	DATE	2008.10.22			
				REF. NO	B2022AA06	Sheet No. of
				DWG NO	0-1101403-2	Revision No. 0



Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
1	TERMINAL BLOCK	D4C29C					8
1	SEALING COMPOUND	CU					7
2	GRD TERMINAL LUG	S45C					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 ASSEMBLY	FC15					1

APPD BY	UNIT	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
CHKD BY	SCALE	N/S					
CHKD BY	PROJEC'N	3 * 4 (3rd Angle)					
DSND BY	DATE	99.2.2					

HYUNDAI		HEAVY INDUSTRIES CO. LTD.		ELECTRICAL ENGINEERING DIVISION		TITLE		REF. NO.	DWG NO.	Revision No.
						MAIN TERMINAL BOX		7B1470LB	227B1470LB	0

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						