



AC INDUCTION MOTOR DATA SHEET

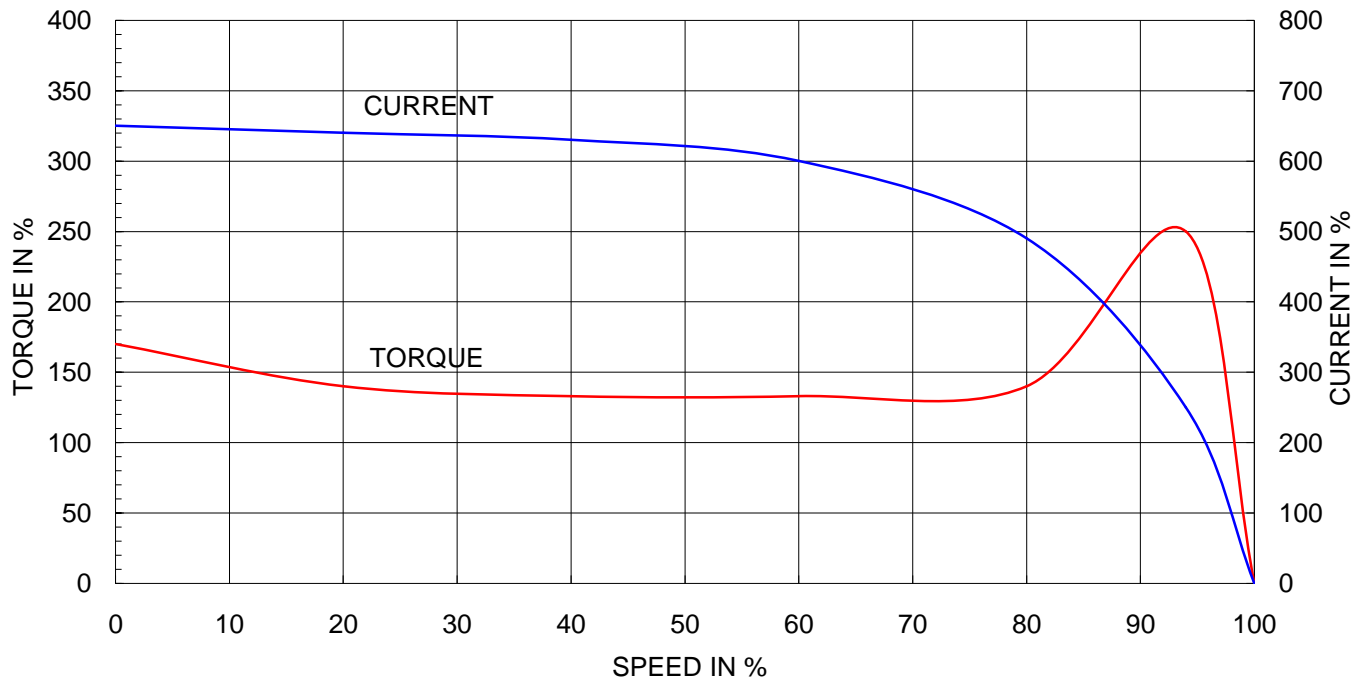
Model No.or RFQ No.		Item No.		Rev. No. [0]	
Project Name		Project No.		Quantity sets	
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	160M		Rated Output	7.5 kW 10 HP	
Type	HL-XP		Number of Poles	6	
Enclosure(Protection)	Explosion Proof (IP55)		Rotor Type	Squirrel Cage	
Method of Cooling	IC411(FC)		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	14.5 A 16.8 A 28.9 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> 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 88.7 %		
Motor Location	<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor		75% Load 90.0 %		
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 0.580		
Duty Type	Continuos (S1)		75% Load 0.706		
Service Factor	1.00		100% Load 0.760		
Mounting	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input checked="" type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load 1170 r.p.m		
Bearing	Type	Anti-Friction		Torque	
	DE/N-DE	6309ZZC3 / 6309ZZC3		Full Load 6.2 kg·m	
	Lubricant	Grease(Polyrex-EM)		Locked-rotor** 170 %	
External Thrust	Not applicable		Breakdown** 250 %		
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)		
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.) 15.000 kg·m ²		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor 0.090 kg·m ²	
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sound Pressure Level (No-load & mean value at 1m from motor)	
	Location	Refer to Outline Drawing		64 dB(A)	
Application			Vibration 2.2 mm/sec (r.m.s)		
Area classification	Hazardous		Permissible number of consecutive starts		
Type of Ex-Protection	Ex d IIB T4		Cold 3 times		
Applicable Standard	KS,IEC		Hot 2 times		
ACCESSORIES			Paint Munsell No. 4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING		
			Outline Dimension Drawing \ Motor Weight(Approx.)		
			B3		kg
			B5		kg
			V1	227B2062AA05	145 kg
			B3/B5		0 kg
			Main T-Box Ass'y 227B1470LB		
SPARE PARTS			REMARK High Efficiency		
			Date	DSND	CHKD
			2011-04-14	W.H.BACK	S. J. RA
			CHKD	APPD	
			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.

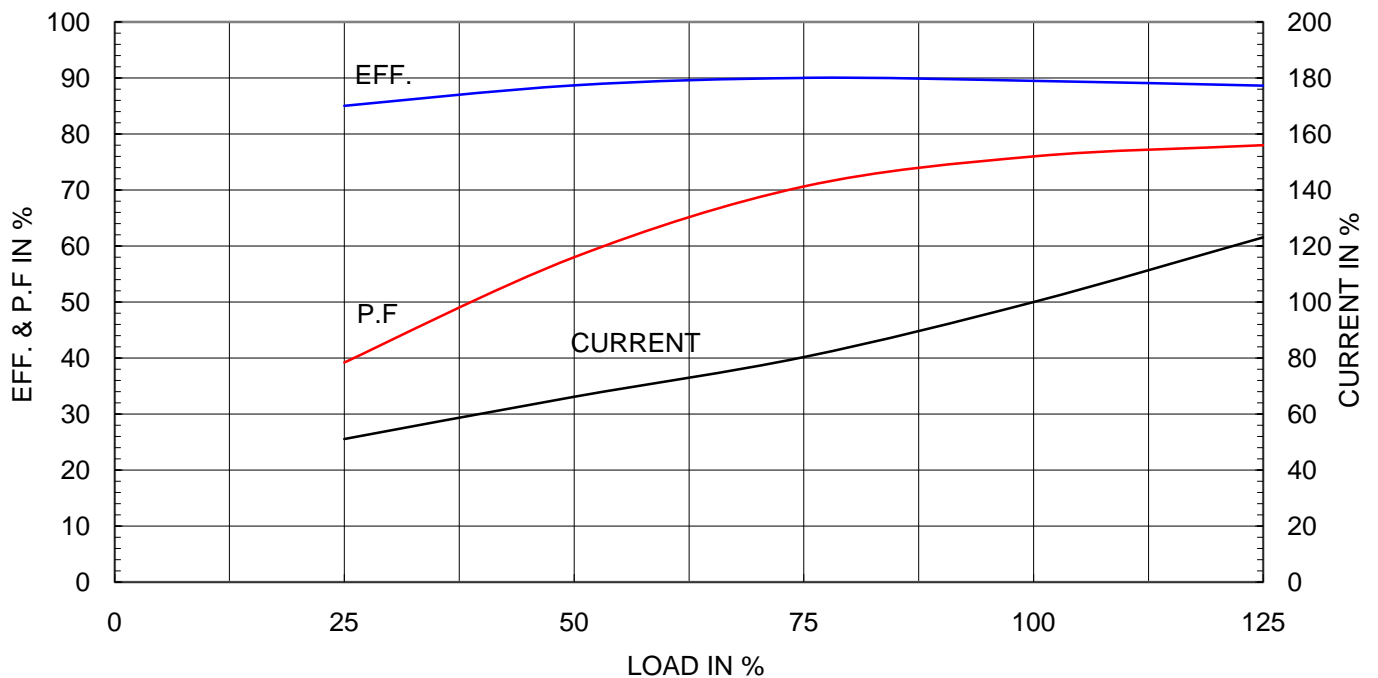
Type	:	HL-XP
Full Load Torque	:	6.2 Kg.m
Motor moment of Inertia (J)	:	0.090 Kg.m ²
Load moment of Inertia (J)	:	15.000 Kg.m ²

7.5 kW	6 P	60 Hz	
Speed at Full Load :		1170 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	14.5A	16.8A	28.9A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





TEFC

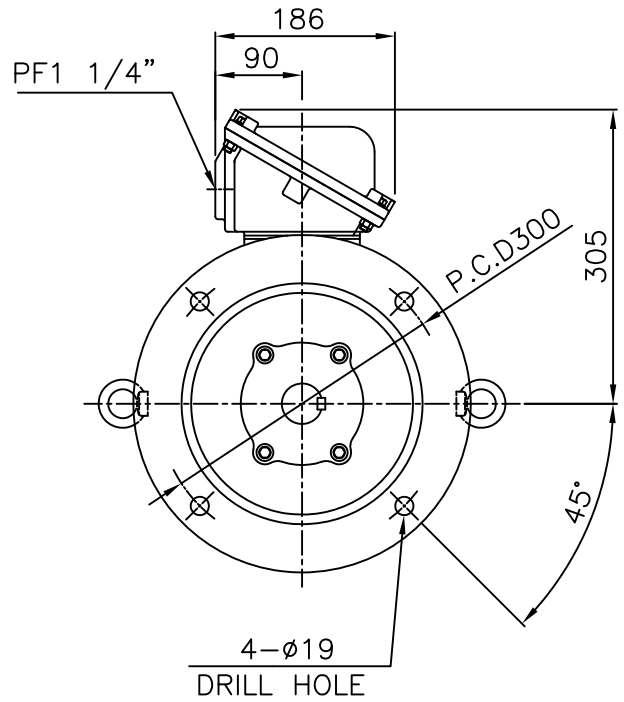
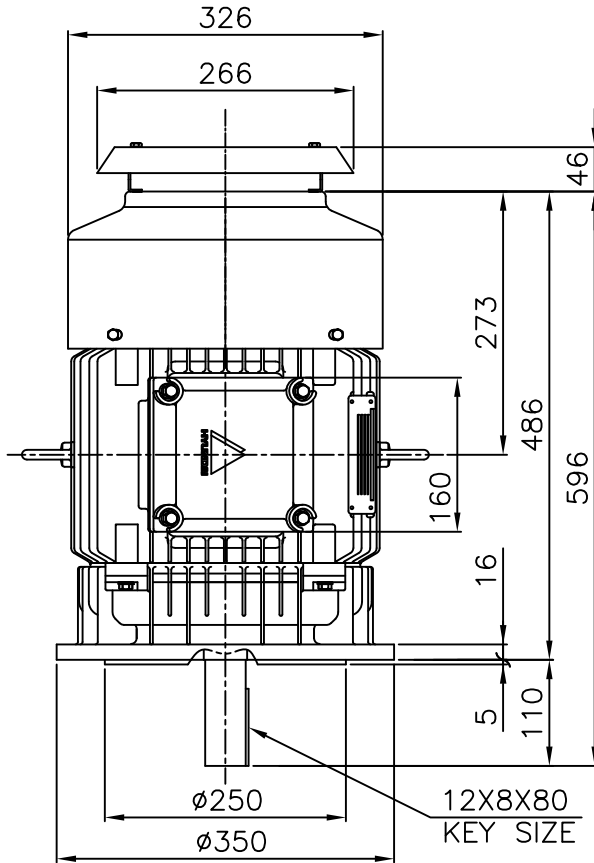
THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

CAST IRON FRAME

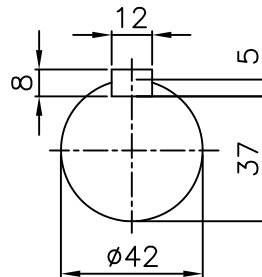
Exd II



NOTE

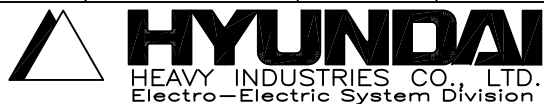
1.TOLERANCE :

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

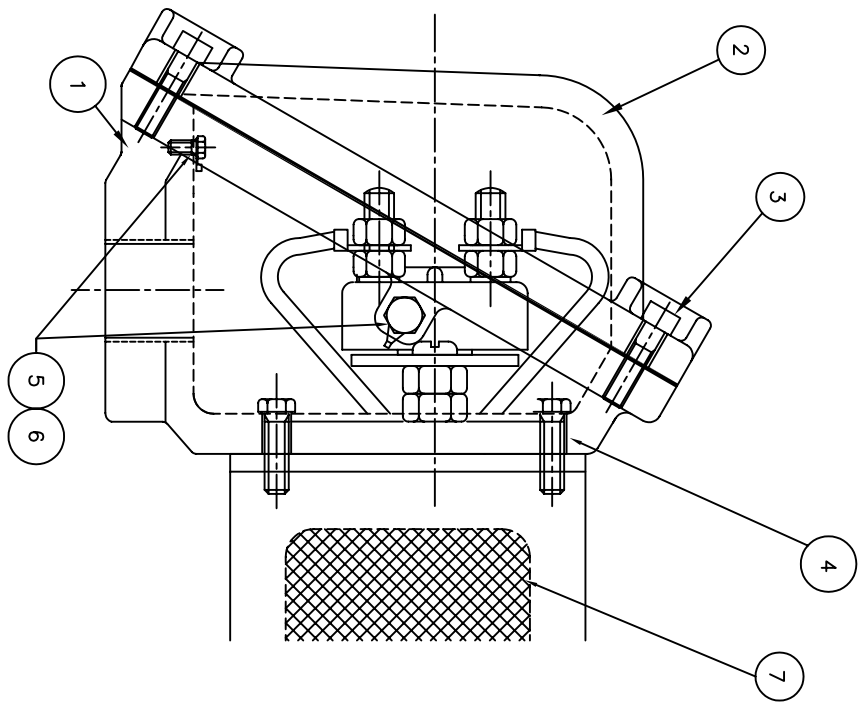
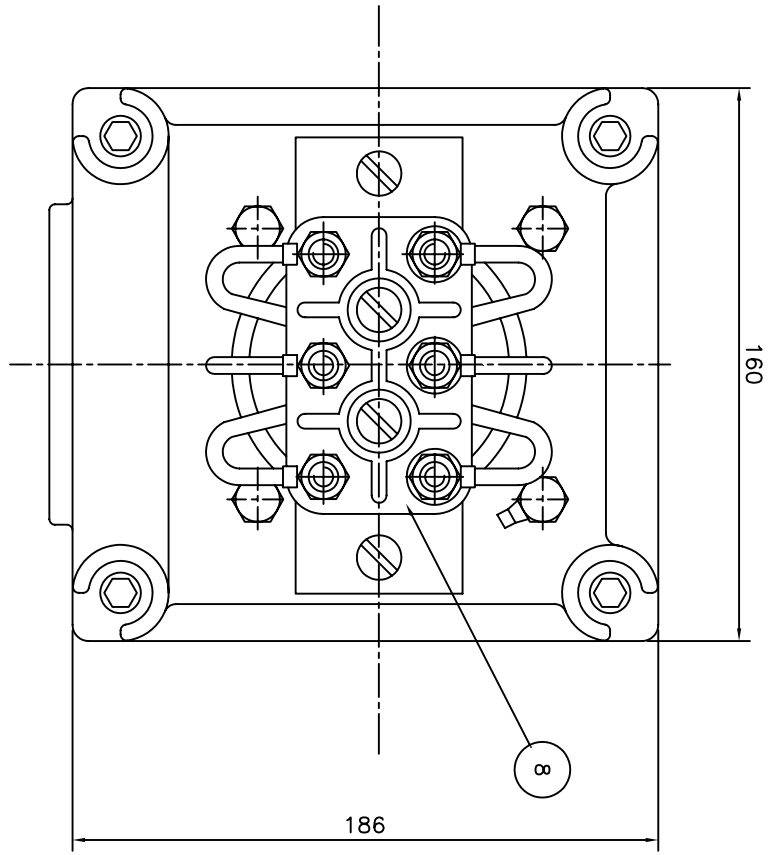


APPD BY	Y. S. KIM	UNIT	mm
CHKD BY	K. S. LEE	SCALE	1/8
CHKD BY	-----	PROJEC'N	3rd Angle
DSND BY	I. K. KIM	DATE	2008.10.22

SUBJECT	KS 160M	CAD PROJ \ FILE	XSDNKS\B2062AA05
TITLE	OUTLINE		



REF. NO	B2062AA05	Sheet No.	of
DWG NO	227B2062AA05	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					
DSND BY	LEE E.J.						
TITLE		MAIN TERMINAL BOX					
REF. NO	7B1470LB		SHEET NO.		0		
DWG NO	227B1470LB		Revision No.		0		

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

HYUNDAI
HEAVY INDUSTRIES CO. LTD.
ELECTRICAL ENGINEERING DIVISION