

# 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	200LL	Rated Output	37 kW      50 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	62.1 A	72.0 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H	Locked-rotor**	670 %	670 %	670 %
Temp. Rise at full load (by resistance method)		Efficiency			
at 1.0 S.F      80 deg. C		50% Load      92.5 %			
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load      93.2 %			
Altitude	Less than 1000 meter	100% Load     93.0 %			
Relative Humidity	Less than 80 %	Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)	50% Load      0.730			
Duty Type	Continuos ( S1 )	75% Load      0.795			
Service Factor	1.00	100% Load     0.840			
Mounting	<input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	1780 r.p.m		
Bearing	Type	Anti-Friction			
	DE/N-DE	6313ZC3 / 6211ZC3			
	Lubricant	Grease(Gadus S2 V100 2)			
External Thrust	Not applicable				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Torque			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	Full Load      20.2 kg·m			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Location	Refer to Outline Drawing				
Application		Breakdown**    220 %			
Area classification	Hazardous	Moment of Inertia (J)			
Type of Ex-Protection	Ex d IIB T4	Load(Max.)     24.000 kg·m <sup>2</sup>			
Applicable Standard	KS,IEC	Motor            0.280 kg·m <sup>2</sup>			
ACCESSORIES		Sound Pressure Level (No-load & mean value at 1m from motor)			
		77 dB(A)			
		Vibration            2.2 mm/sec (r.m.s)			
		Permissible number of consecutive starts			
		Cold            3 times			
		Hot              2 times			
		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	

ACCESSORIES		SUBMITTAL DRAWING			
		Outline Dimension Drawing \ Motor Weight(Approx.)			
		B3			kg
		B5	227B1626XI10	400	kg
		V1			kg
		B3/B5	0	0	kg
		Main T-Box Ass'y      227B1470LA			

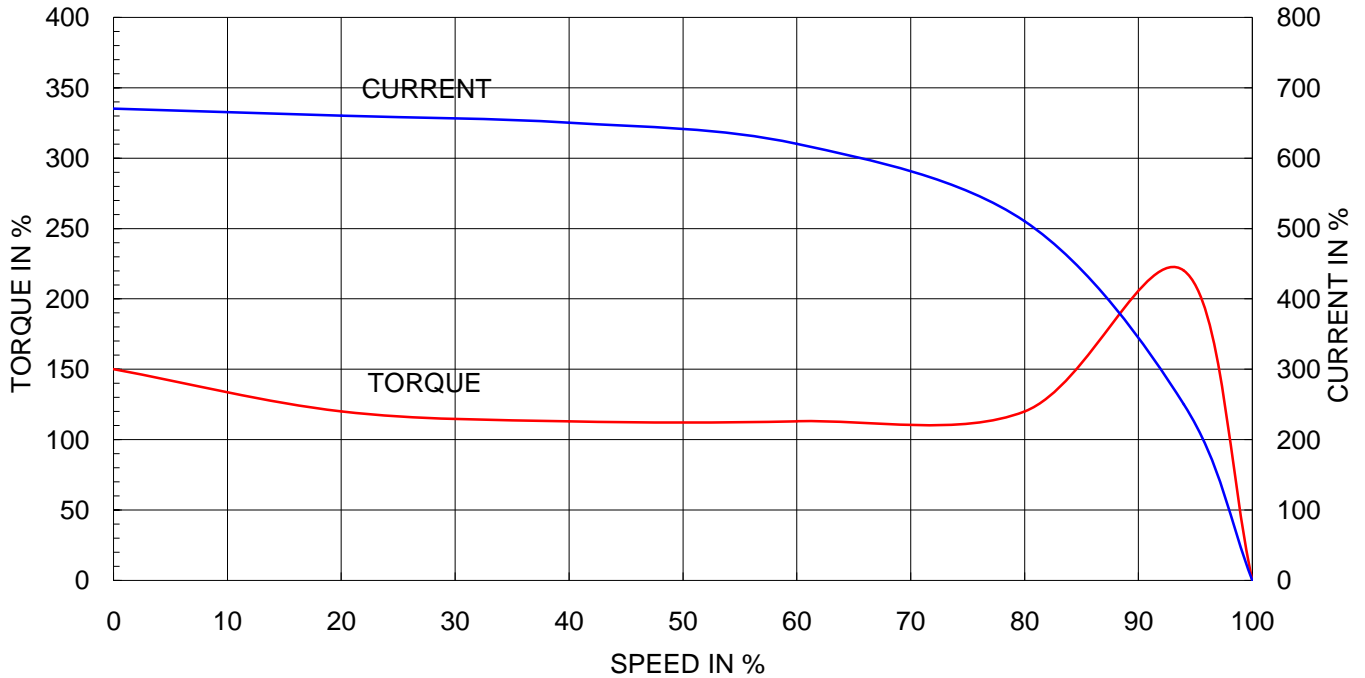
SPARE PARTS		REMARK				
		High Efficiency				
		Date	DSND	CHKD	CHKD	APPD
		2011-04-14	W.H.BACK	S. J. RA	O. J. KIM	J. H. KIM

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 shal

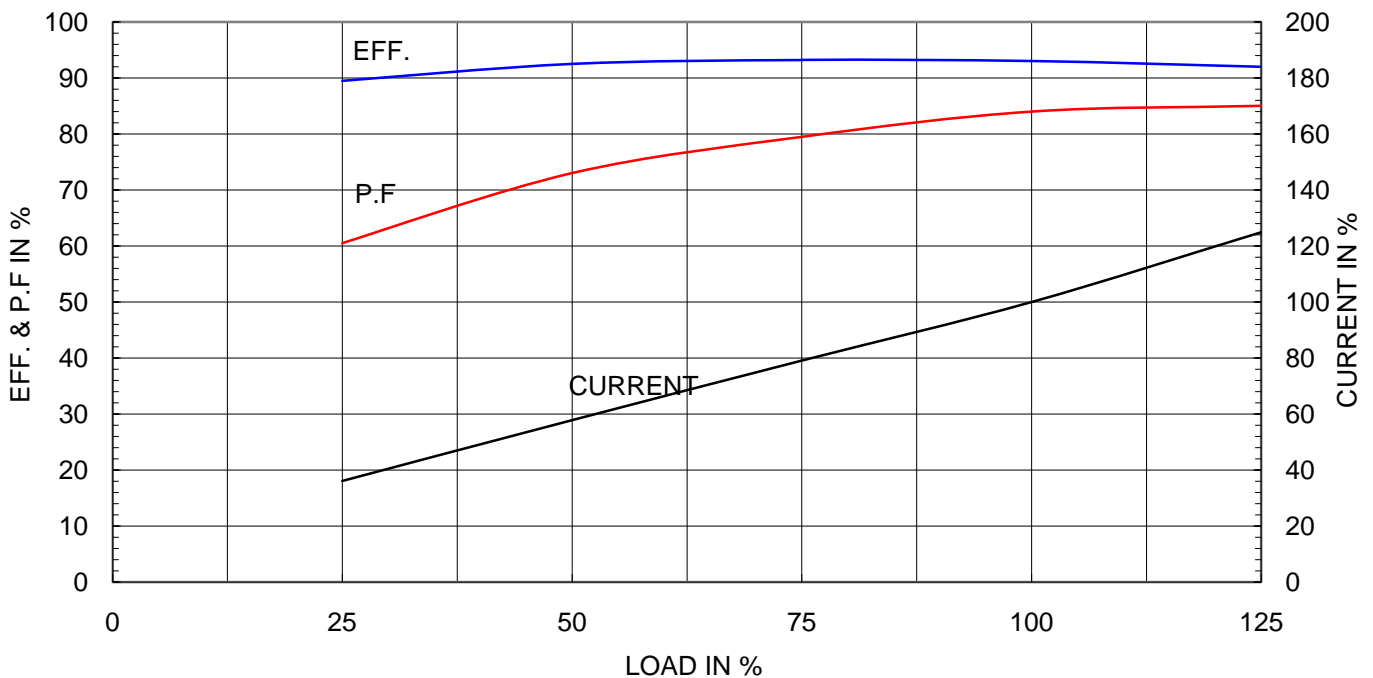
Type	:	HL-XP
Full Load Torque	:	20.2 Kg.m
Motor moment of Inertia (J)	:	0.280 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	24.000 Kg.m <sup>2</sup>

37 kW	4 P	60 Hz	
Speed at Full Load :		1780 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	62.1A	72.0A	124.3A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



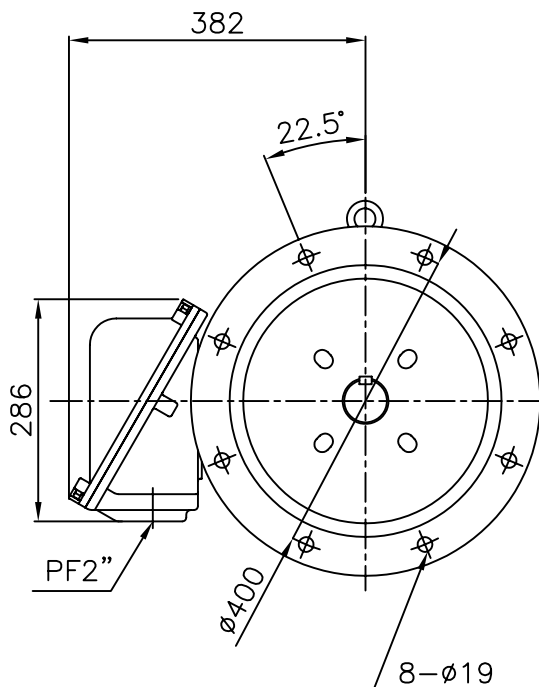
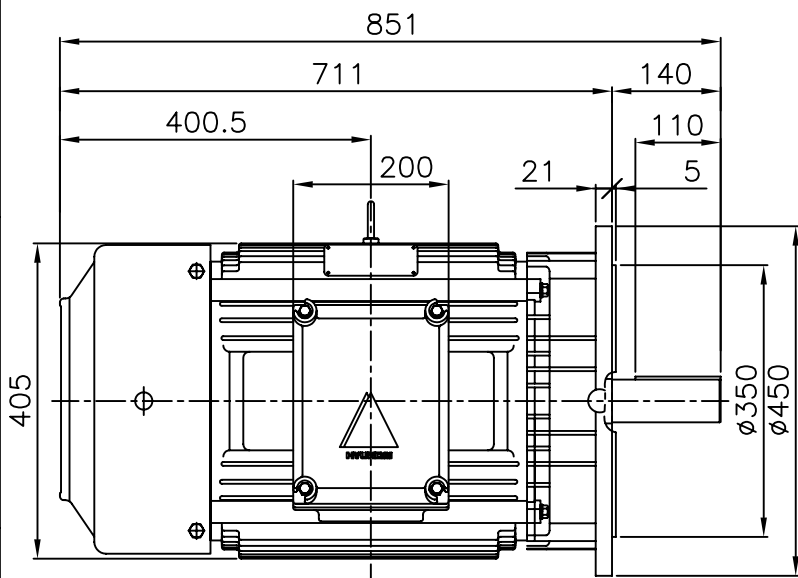


# TEFC

## THREE PHASE INDUCTION MOTOR

**TYPE**

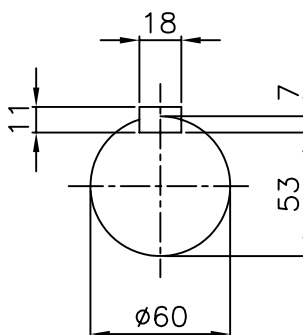
HKS , HK  
CAST IRON FRAME



**NOTE**

1.TOLERANCE :

FLANGE HOLES	$\phi 19 \begin{matrix} +0.43 \\ -0. \end{matrix}$
RABBET DIAMETER	$\phi 350 \begin{matrix} +0.018 \\ -0.018 \end{matrix}$
SHAFT DIAMETER	$\phi 60 \begin{matrix} +0.030 \\ +0.011 \end{matrix}$
KEYWAY WIDTH	$18 \begin{matrix} +0 \\ -0.043 \end{matrix}$
KEYWAY DEPTH	$53 \begin{matrix} +0 \\ -0.2 \end{matrix}$

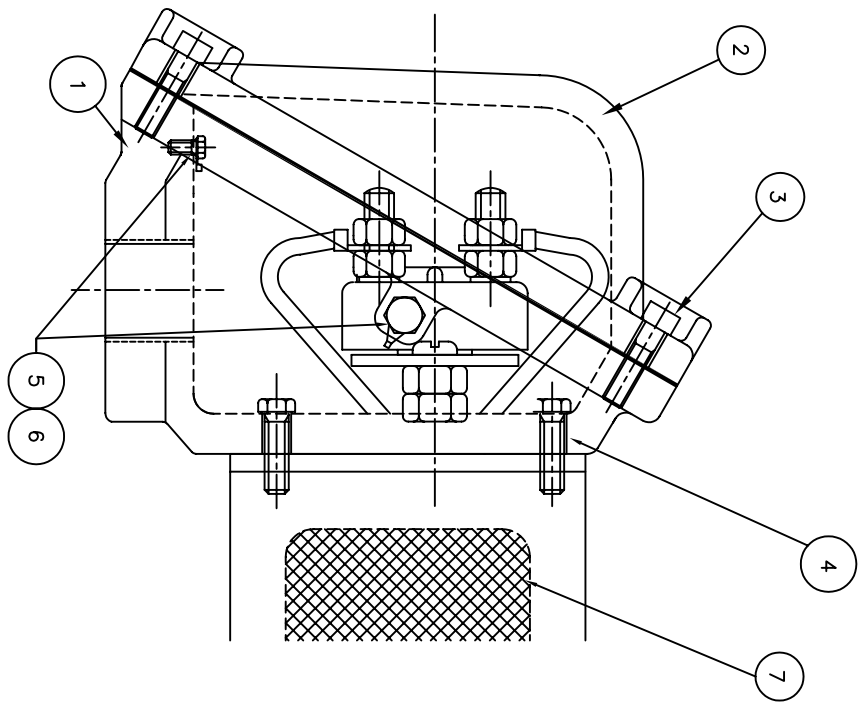
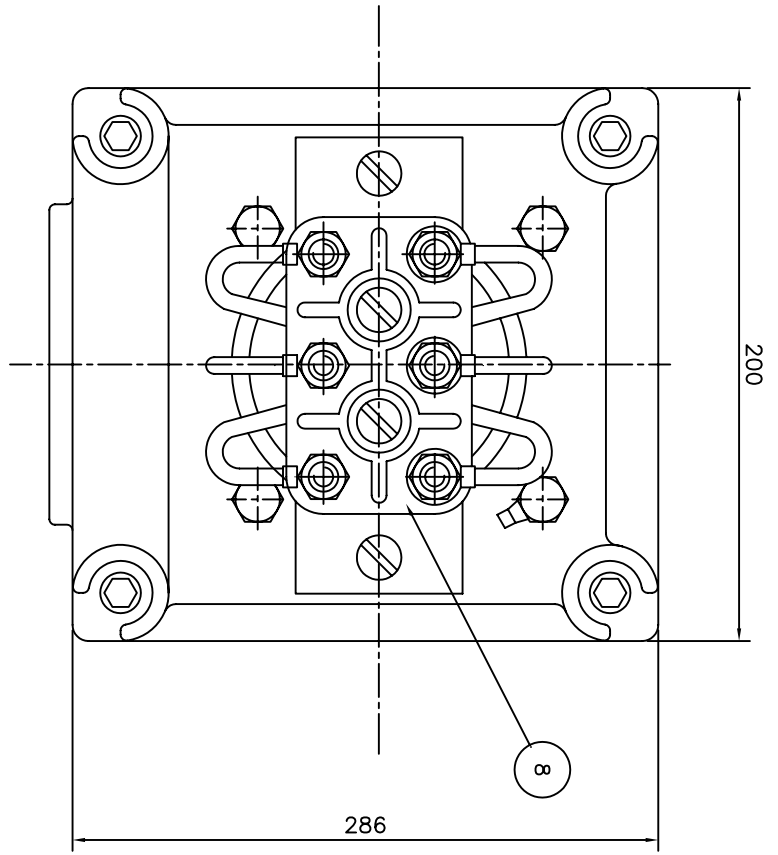


APPD BY	KIM.Y.S	UNIT	mm
CHKD BY	---	SCALE	1/10
CHKD BY	KO.S.H	PROJEC'N	3rd Angle
DSND BY	LEE KWANG SOO	DATE	2001. 3. 9

SUBJECT	XSD KS 200LL 4,6P	CAD PROJ \ FILE	
		XSDNKS\227B1626X110	
TITLE	OUTLINE		



REF. NO	227B1626X110	Sheet No.	of
DWG NO	227B1626X110	Revision No.	0



1	TERMINAL BLOCK	D4C29C							
2	SEALING COMPOUND	CU							
2	GRD. TERMINAL LUG	S45C							
2	GRD. BOLT	S45C							
4	T/B + FRAME BOLT	S45C							
4	T/B + COVER BOLT	S45C							
1	TERMINAL BOX COVER	FC15							
1	TERMINAL BOX ASSEMBLY	FC15							

QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
	APPD BY	UNIT	MM				
	CHKD BY	SCALE	N/S				
	CHKD BY	PROJEC'N	3.4#(3rd Angle)				
	DSND BY	DATE	99.2.2				
	DESIGNER		LEE E.J.				
	SUBJECT		IEC200FR 42G4				
	TITLE		MAIN TERMINAL BOX				
	REF. NO	7B1470LA					
	DWG NO	227B1470LA					
	Sheet No.	of					
	Revision No.	0					

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	APP'D BY
1					
2					
3					
4					