

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	11 kW 15 HP			
Type	HS		Number of Poles	6			
Enclosure(Protection)	Totally Enclosed (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	21.1 A 24.4 A 42.1 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	650 %	650 % 650 %		
Temp. Rise at full load (by resistance method)	at 1.0 S.F 80 deg. C		Efficiency	50% Load 89.5 % 75% Load 90.7 % 100% Load 90.2 %			
Motor Location	☒ Indoor ☐ Outdoor		Power Factor(p.u)	50% Load 0.600 75% Load 0.702 100% Load 0.760			
Altitude	Less than 1000 meter		Speed at Full Load	1170 r.p.m			
Relative Humidity	Less than 80 %		Torque	Full Load 9.2 kg·m Locked-rotor** 170 % Breakdown** 250 %			
Ambient Temp.	40 deg. C (Max.)		Moment of Inertia (J)	Load(Max.) 20.250 kg·m² Motor 0.130 kg·m²			
Duty Type	Continuos (S1)		Sound Pressure Level (No-load & mean value at 1m from motor)	66 dB(A)			
Service Factor	1.15		Vibration	2.2 mm/sec (r.m.s)			
Mounting	☐ B3 ☐ B5 ☐ V1 ☒ B3/B5		Permissible number of consecutive starts	Cold 3 times Hot 2 times			
Bearing	Type	Anti-Friction	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
	DE/N-DE	6309ZZC3 / 6309ZZC3					
	Lubricant	Grease(Polyrex-EM)					
External Thrust	Not applicable						
Coupling Method	☒ Direct ☐ V-Belt						
Shaft Extension	☒ Single ☐ Double						
Terminal	Main	☐ Steel ☒ Cast Iron					
Box	Aux.	☐ Yes ☒ No					
	Location	Refer to Outline Drawing					
Application							
Area classification	Non-Hazardous						
Type of Ex-Protection	Not applicable						
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)						
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		kg		
			B5		kg		
			V1		kg		
			B3/B5	227B2040AB06	140 kg		
			Main T-Box Ass'y	227B8008LA1			
SPARE PARTS			REMARK				
			High Efficiency				
			* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
			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.

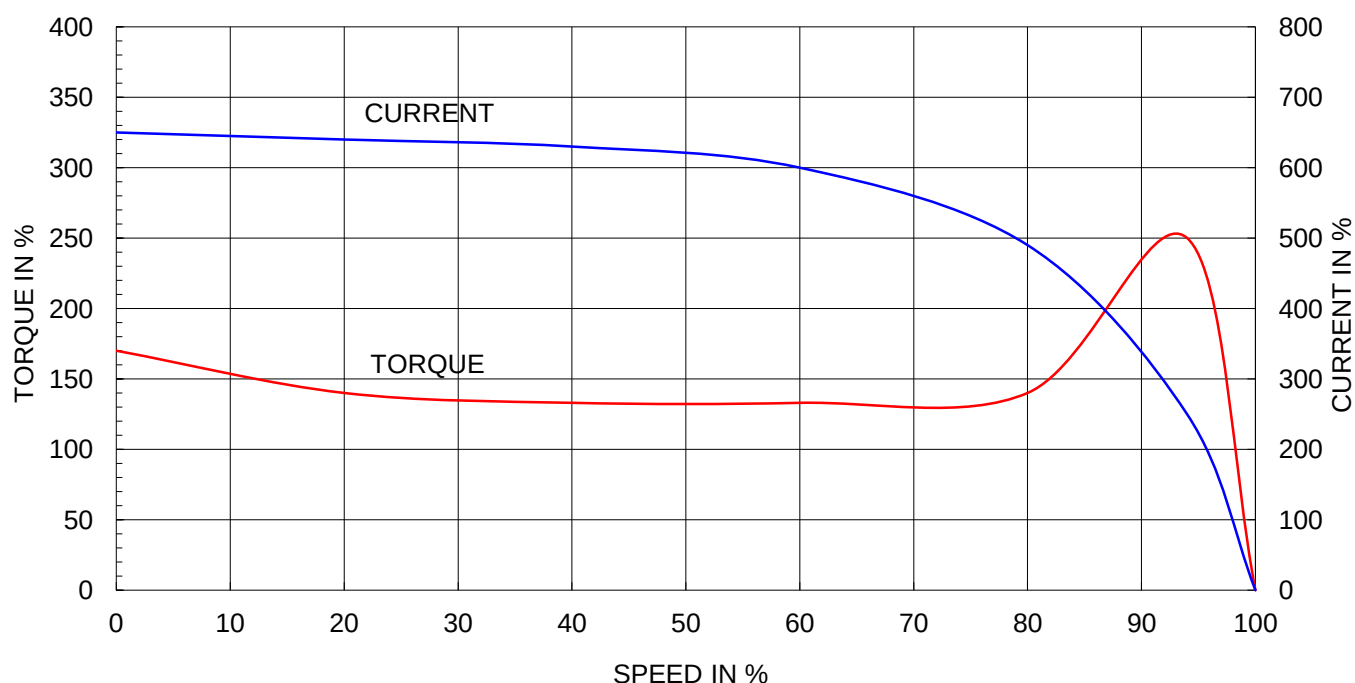
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

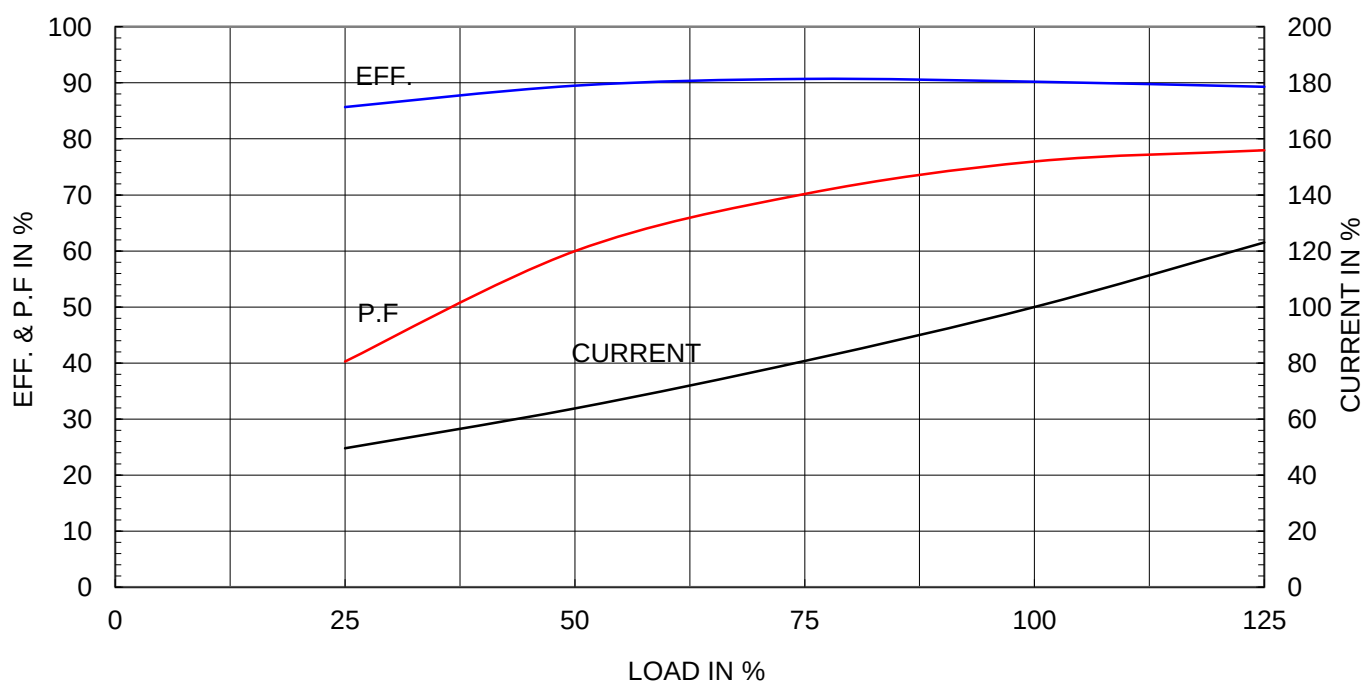
Type	:	HS
Full Load Torque	:	9.2 Kg.m
Motor moment of Inertia (J)	:	0.130 Kg.m ²
Load moment of Inertia (J)	:	20.250 Kg.m ²

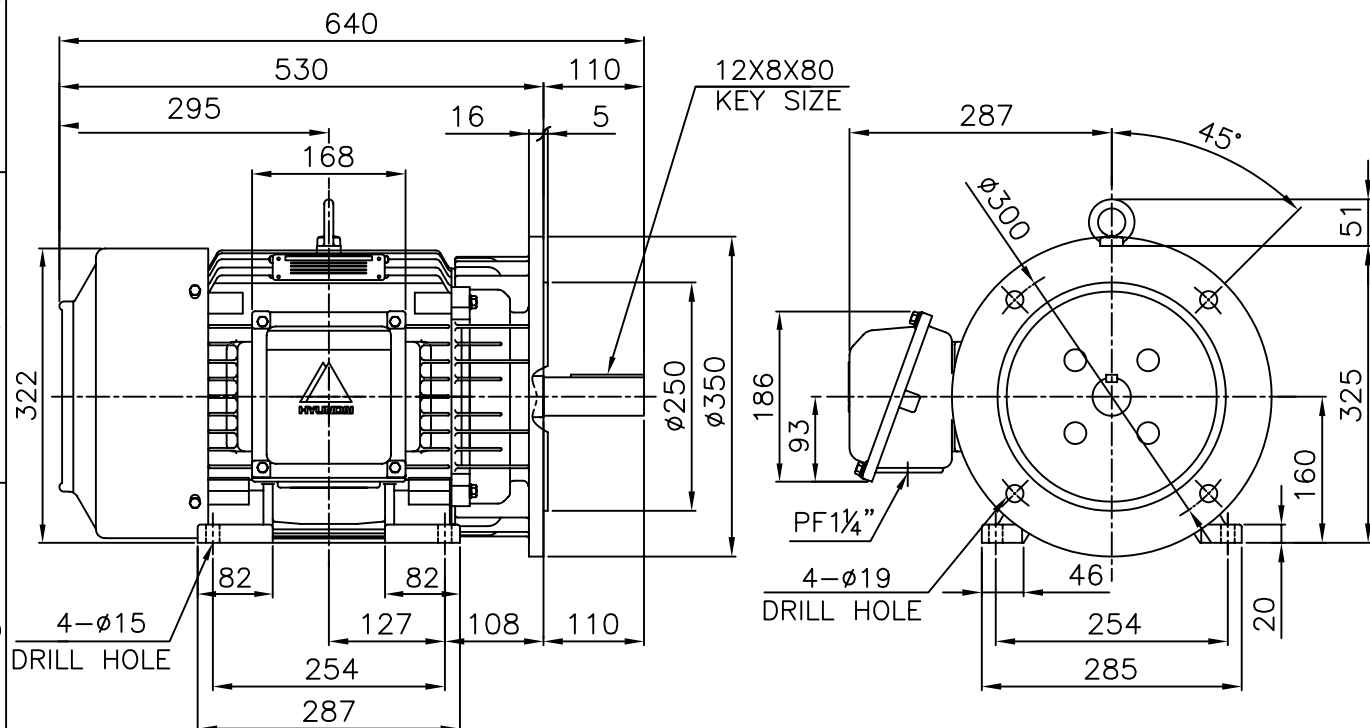
11 kW		6 P		60 Hz	
Speed at Full Load :				1170 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	21.1A	24.4A	42.1A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

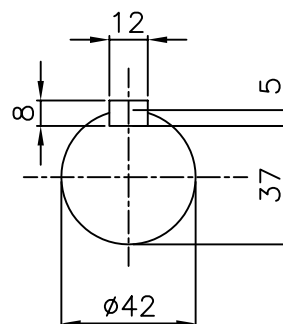




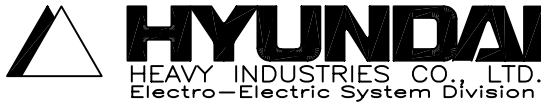
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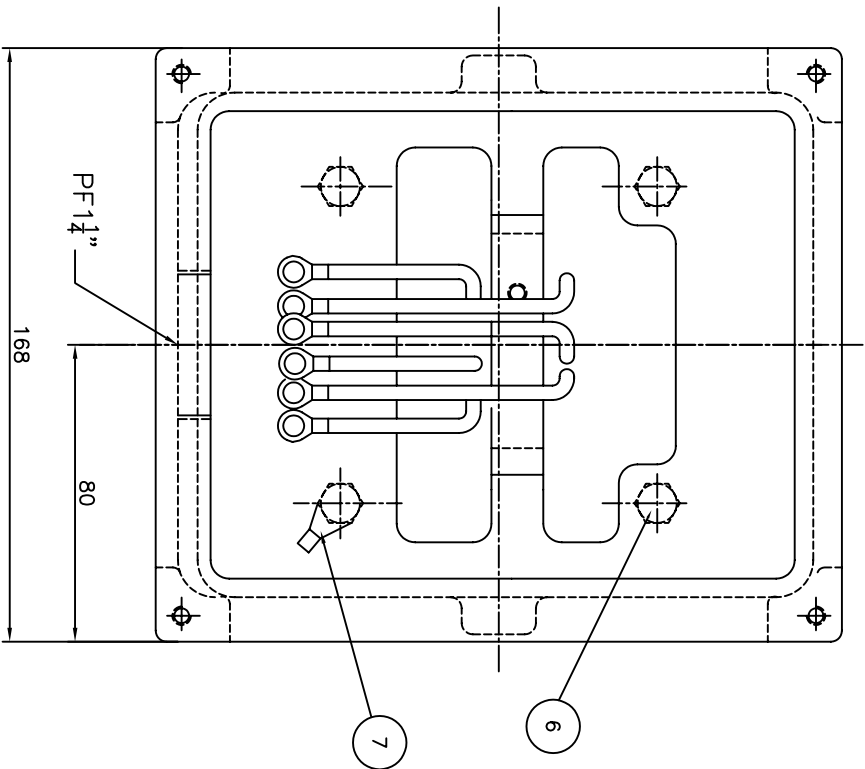
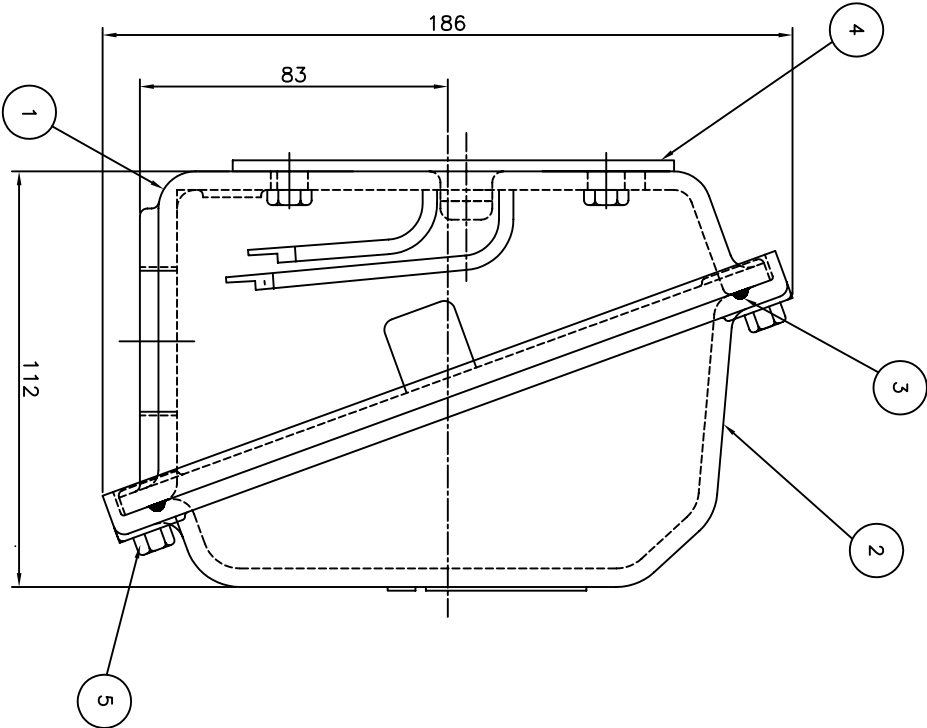
1.TOLERANCE :

CENTER HEIGHT	160	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 15$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
FLANGE HOLES	$\phi 19$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
RABBET DIAMETER	$\phi 250$	$\begin{matrix} +0.016 \\ -0.013 \end{matrix}$
SHAFT DIAMETER	$\phi 42$	$\begin{matrix} +0.018 \\ +0.002 \end{matrix}$
KEYWAY WIDTH	12	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEYWAY DEPTH	5	$\begin{matrix} +0.2 \\ 0 \end{matrix}$



*CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 160L	CAD PROJ \ FILE
CHKD BY	Y. S. KIM	SCALE	1/8			XSDNKS\B2040AB06
CHKD BY	S. H. KO	PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND BY	I. K. KIM	DATE	2002.10.29			
				REF. NO	B2040AB06	Sheet No. of
				DWG NO	227B2040AB06	Revision No. 0



PT	DESCRIPTION	MATERIAL	DIMENSION	Q'TY
1	CONDUIT BOX	FC15	---	1
2	CONDUIT BOX COVER	FC15	---	1
3	O-RING / COVER	EPDM	φ4	1
4	BOX GASKET	NBR	---	1
5	COVER+BOX HEX BOLT	S45C	M6 X L20	4
6	BOX+FRAME HEX BOLT	S45C	M8 X L20	4
7	GROUND TERMINAL LUG	CU	---	1

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

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APP'D BY	KIM.Y.S	UNIT	MM				
CHK'D BY	KO.S.H	SCALE	1:1				
CHK'D BY	---	PROJEC'N	3-4# (3rd Angle)				
DSND BY	Y.J.HWANG	DATE	2005.02.16				
TITLE				REF. NO.	227B8008LA1	Sheet No. of	
TERMINAL BOX ASSEMBLY				DWG NO.	227B8008LA1	Revision No.	0