

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.		[0]			
Project Name		Project No.		Quantity		set			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		160M		Rated Output		15 kW 20 HP			
Type		HLP-15/2		Number of Poles		2			
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 24.3 A 28.1 A 48.6 A			
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor**		880 % 880 % 880 %			
Temp. Rise at full load (by resistance method)				Efficiency					
at 1.0 S.F 80 °C				50% Load 90.5 %					
Motor Location ☒ Indoor ☐ Outdoor				75% Load 91.2 %					
Altitude Less than 1000m				100% Load 91.0 %					
Relative Humidity Less than 80 %				Power Factor(p.u)					
Ambient Temp. 40 °C MAX.				50% Load 0.820					
Duty Type Continuous(S1)				75% Load 0.872					
Service Factor 1.15				100% Load 0.890					
Mounting ☐ B3 ☒ B5 ☐ V1 ☐ B3/B5				Speed at Full Load 3535 r.p.m					
Bearing Type Anti-Friction				Torque					
DE/N-DE 6309ZZC3 / 6309ZZC3				Full Load 4.1 kg.m					
Lubricant Grease(Polyrex-EM)				Locked-rotor** 180 %					
External Thrust Not applicable				Breakdown** 250 %					
Coupling Method ☒ Direct ☐ V-Belt				Moment of Inertia (J)					
Shaft Extension ☒ Single ☐ Double				Load(Max.) 4.959547383 kg·m²					
Terminal Box Main ☐ Steel ☒ Cast Iron				Motor 0.049 kg·m²					
Aux. ☐ Yes ☒ No				Sound Pressure Level (No-load & mean value at 1m from motor)					
Location Refer to Outline Drawing				74 dB(A)					
Application				Vibration 2.2 mm/sec(r.m.s)					
Area classification Non-Hazardous				Permissible number of consecutive starts Cold 3 times					
Type of Ex-Protection Not applicable				Hot 2 times					
Applicable Standard KS, IEC, NEMA MG1 Part30(Vpeak)				Paint Munsell No. Panton279C					
ACCESSORIES				SUBMITTAL DRAWING					
				Outline Dimension Drawing \ Motor Weight(Approx.)					
				B3		kg			
				B5		LM-T111063B5PLV01 118 kg			
				V1		kg			
				B3/B5		kg			
				Main T-Box Ass'y 3M-145860					
				REMARK					
				*.Premium Efficiency(IE3)					
				*.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise					
SPARE PARTS									
				Date		DSND		CHKD	
				2018-11-23		R.G. KIM		---	

Note: Others not mentioned in this data sheet shall be in accordance with maker standard. Made in Vietnam

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.

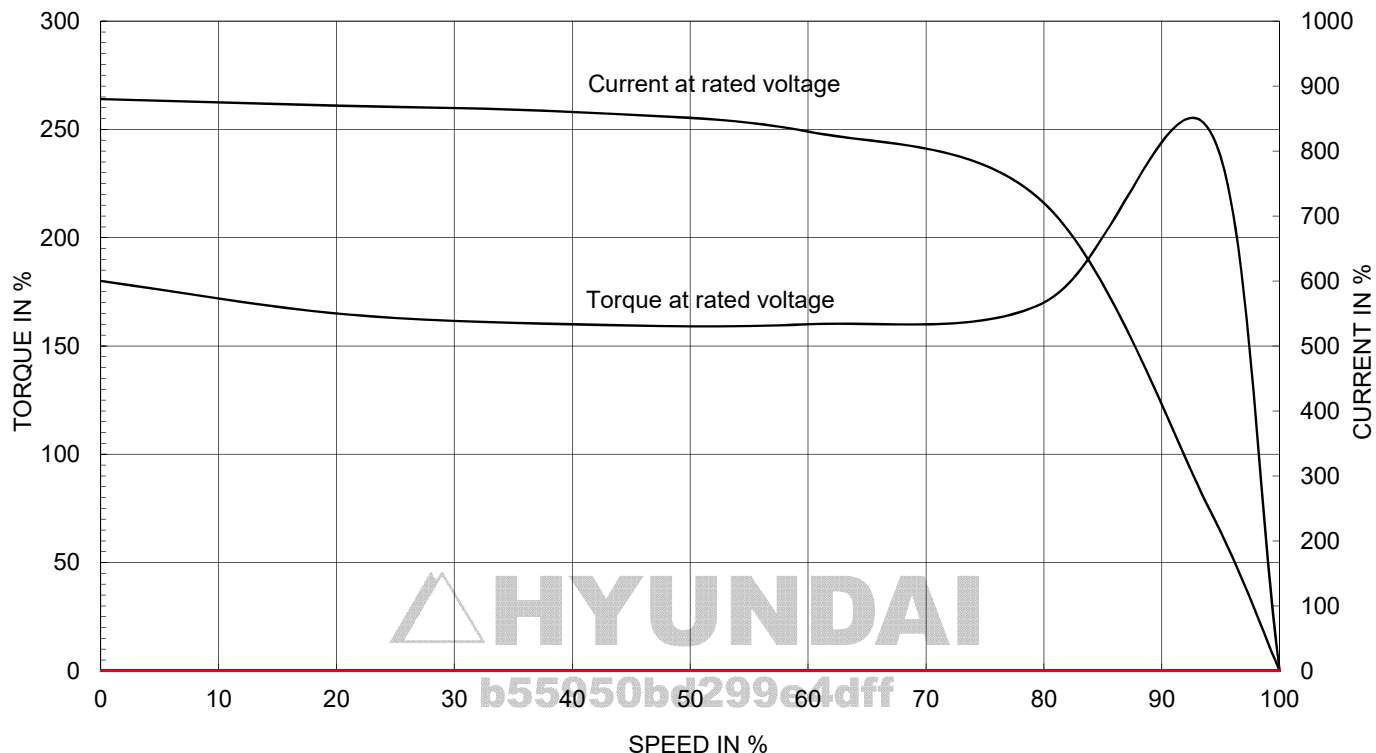
** The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

HEES 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)

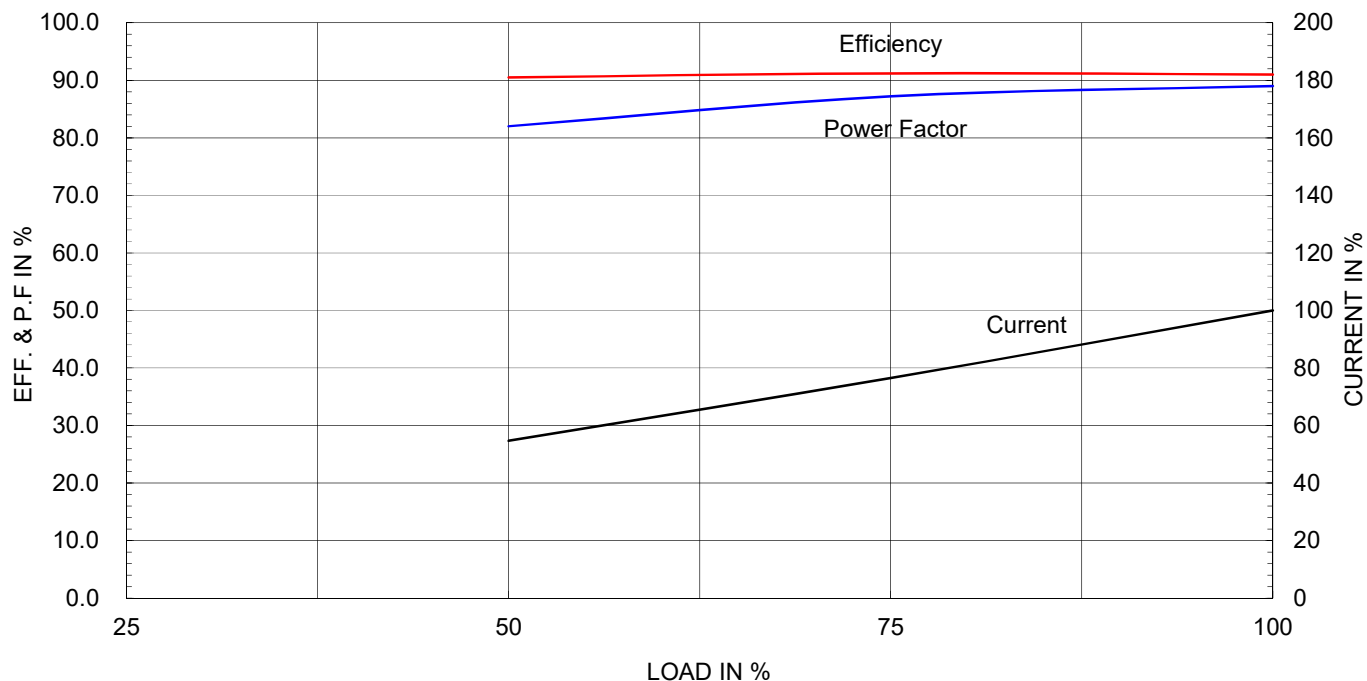
Type	:	HLP-15/2
Full Load Torque :	4.1	Kg-m
Load moment of Inertia (J) :	4.960	Kg-m ²
Motor moment of Inertia (J) :	0.049	Kg-m ²

15kW	20HP	2P	60 Hz
Speed at Full Load :			3535 RPM
Rated Voltage	440V	380V	220V
Full Load Current	24.3A	28.1A	48.6A

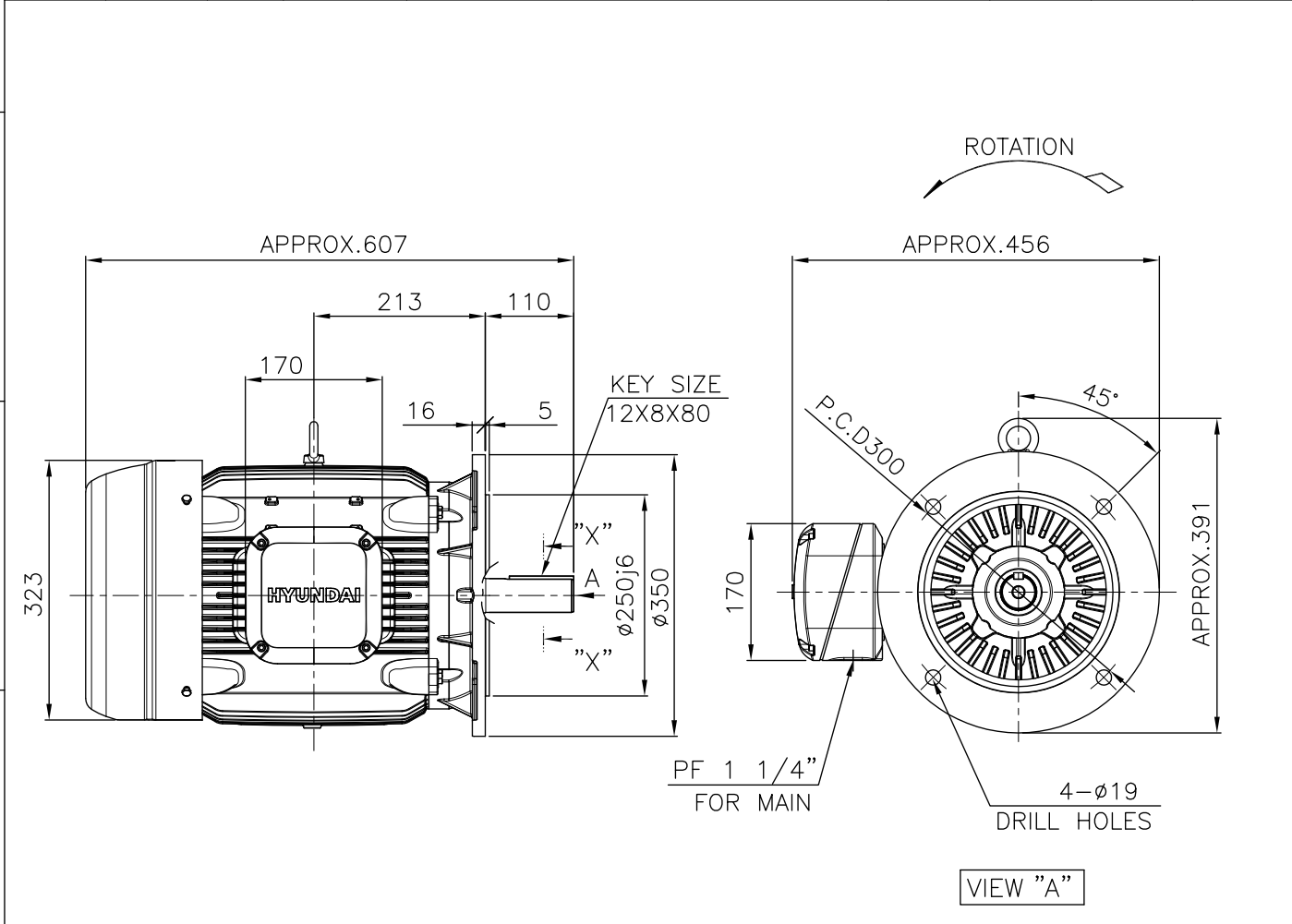
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



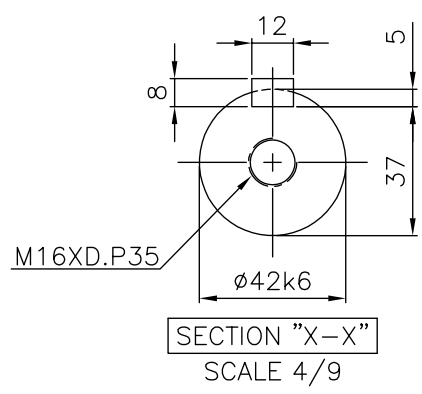
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



NOTE

1.TOLERANCE :

FLANGE HOLE	$\phi 19$	$+0.52$ 0
RABBET DIAMETER	$\phi 250$	$+0.016$ -0.013
SHAFT DIAMETER	$\phi 42$	$+0.018$ $+0.002$
KEYWAY WIDTH	12	0 -0.043
KEYWAY DEPTH	5	$+0.2$ 0
KEY WIDTH	12	0 -0.043
KEY HEIGHT	8	0 -0.090



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS Fr.160M	DWG SIZE	A4 (1:1)
CHKD BY	I.K.KIM	SCALE	1/9	TITLE	OUTLINE		
CHKD BY	S.H.LEE	PROJEC'N	3각법(3rd Angle)				
DSND BY	S.R.KIM	DATE	2020.06.19				
HYUNDAI ELECTRIC				REF. NO		Sheet No.	of
				DWG NO	LM-T1163B5PLV01	Revision No.	0

