

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		160L		Rated Output		18.5 kW 25 HP							
Type		HLP-18.5/2		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 29.7 A 34.4 A 59.5 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 89.0 %									
Motor Location ☒ Indoor ☐ Outdoor				75% Load 91.7 %									
Altitude Less than 1000m				100% Load 91.7 %									
Relative Humidity Less than 80 %				Power Factor(p.u)									
Ambient Temp. 40 °C MAX.				50% Load 0.815									
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 5.1 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.) 6.116775106 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-T1165B5PLV01		123 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		CHKD		APPD	
				2018-11-23		R.G. KIM		---		O.J. KIM		S.K.HAN	

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.

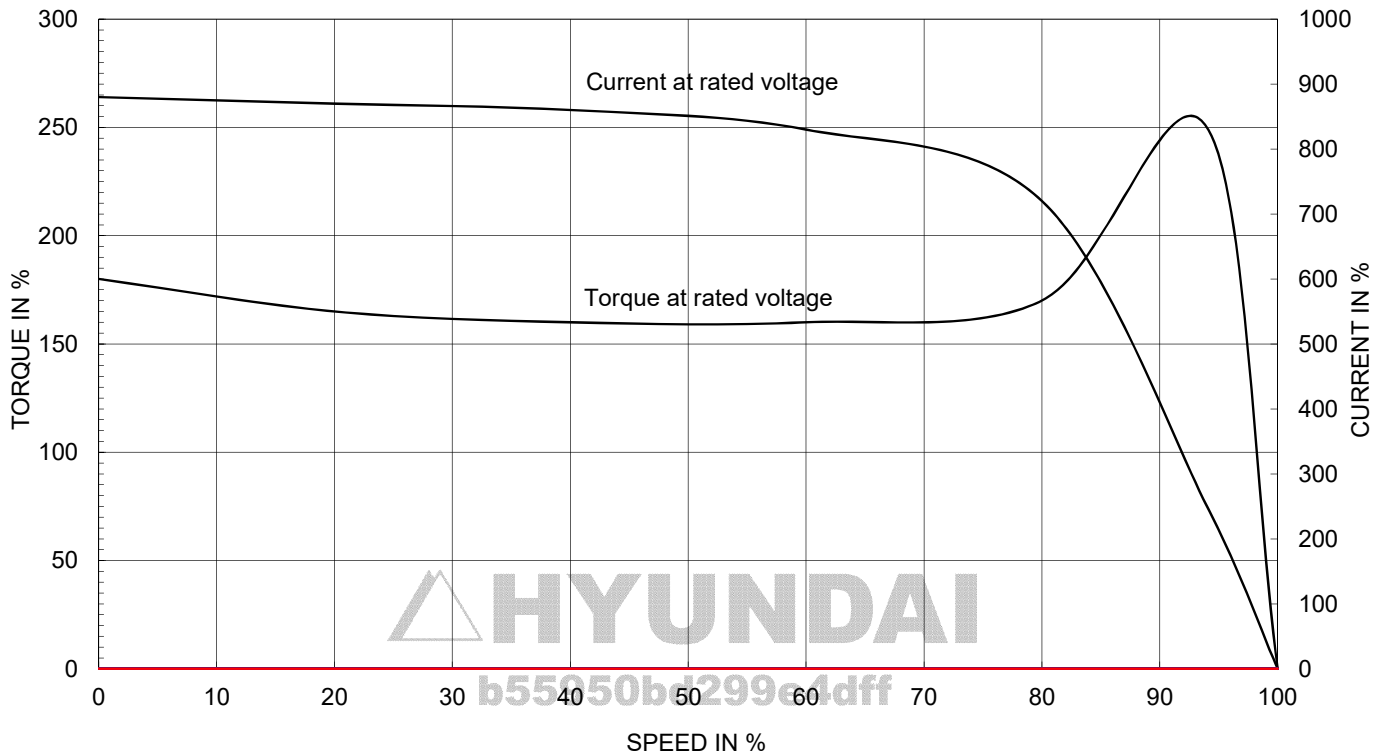
** The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

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)

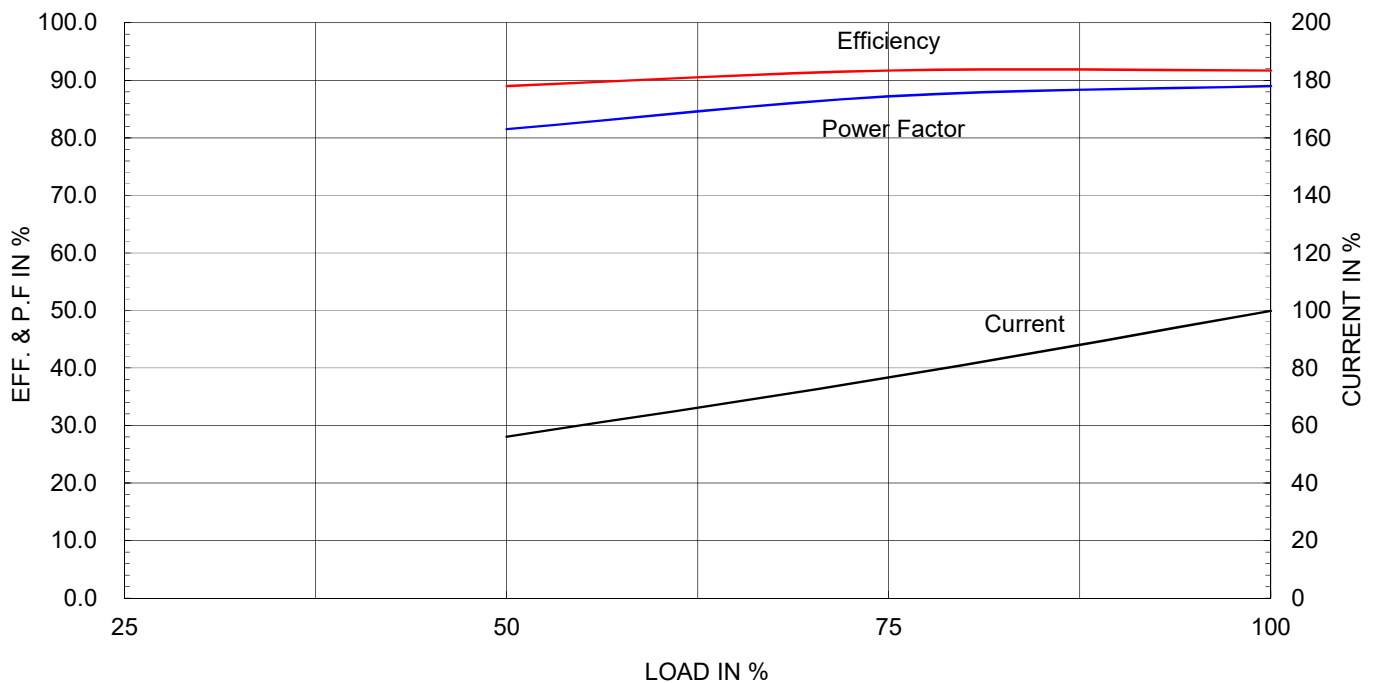
Type :	HLP-18.5/2
Full Load Torque :	5.1 Kg-m
Load moment of Inertia (J) :	6.117 Kg-m ²
Motor moment of Inertia (J) :	0.049 Kg-m ²

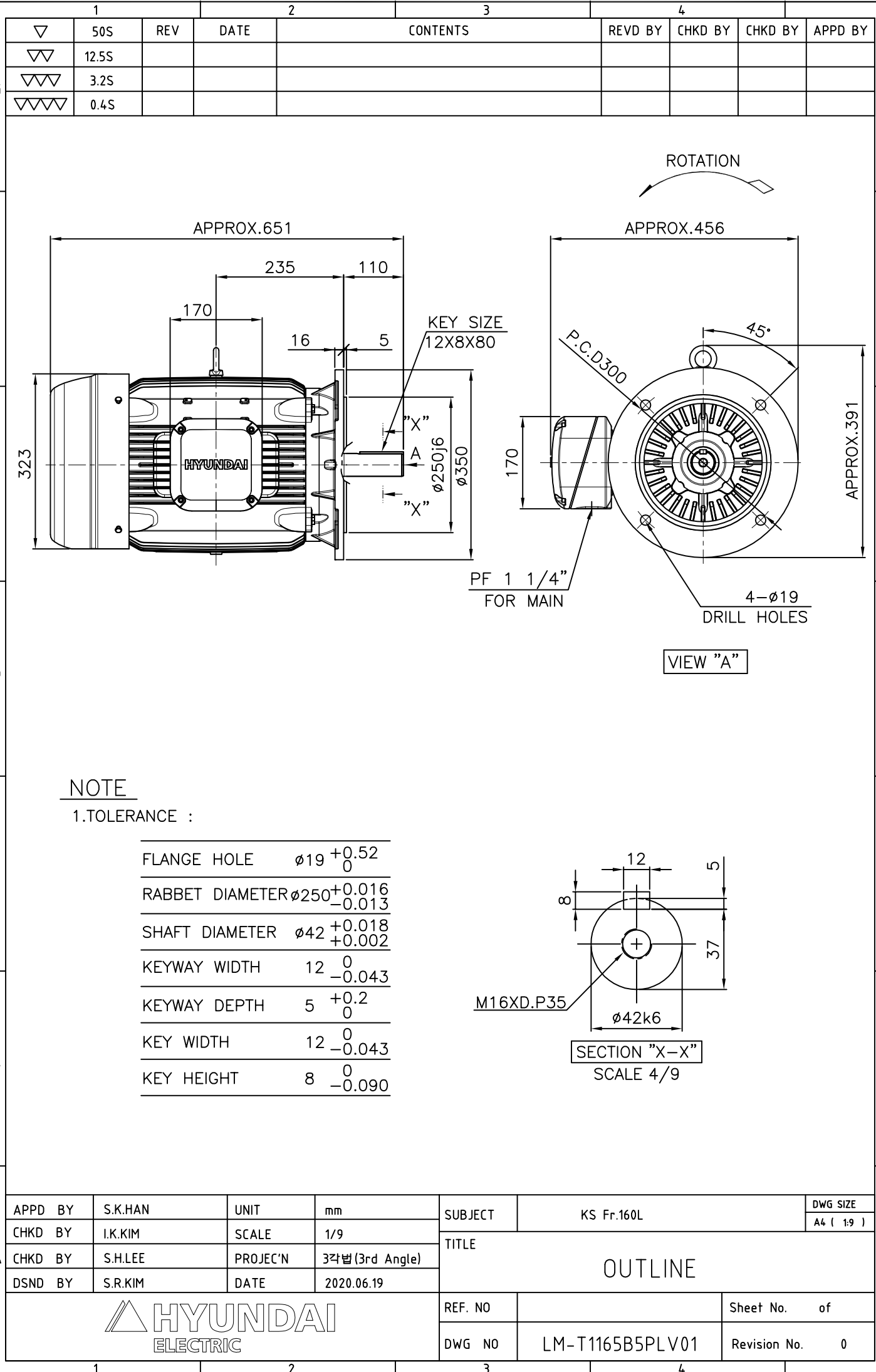
18.5kW	25HP	2P	60 Hz
Speed at Full Load : 3535 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	29.7A	34.4A	59.5A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS Fr.160L	DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/9	TITLE	OUTLINE	A4 (1:9)
CHKD BY	S.H.LEE	PROJEC'N	3각법(3rd Angle)			
DSND BY	S.R.KIM	DATE	2020.06.19			
				REF. NO		Sheet No. of
				DWG NO	LM-T1165B5PLV01	Revision No. 0

1

2

3

4

