

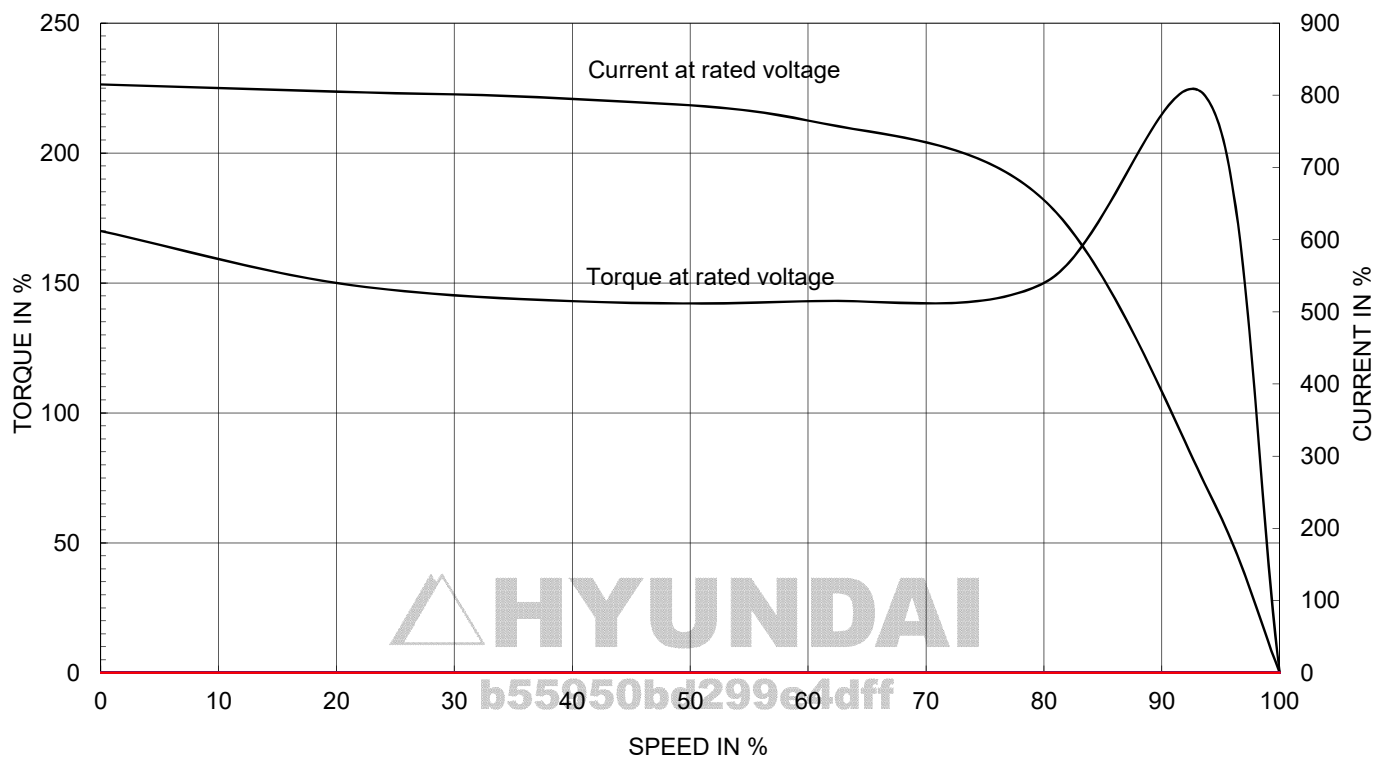
AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.		[0]			
Project Name		Project No.		Quantity		set			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		180M		Rated Output		18.5 kW 25 HP			
Type		HLP-18.5/4		Number of Poles		4			
Enclosure(Protection)		Totally Enclosed (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 31.6 A 36.6 A 63.3 A			
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**		815 % 815 % 815 %			
Temp. Rise at full load (by resistance method)		at 1.0 S.F 80 °C		Efficiency		50% Load 92.6 %			
Motor Location		<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor				75% Load 93.5 %			
Altitude		Less than 1000m				100% Load 93.6 %			
Relative Humidity		Less than 80 %		Power Factor(p.u)		50% Load 0.730			
Ambient Temp.		40 °C MAX.				75% Load 0.795			
Duty Type		Continuous(S1)				100% Load 0.820			
Service Factor		1.15		Speed at Full Load		1775 r.p.m			
Mounting		<input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Torque		Full Load 10.2 kg.m			
Bearing		Type Anti-Friction				Locked-rotor** 170 %			
		DE/N-DE 6310ZZC3 / 6310ZZC3				Breakdown** 220 %			
		Lubricant Grease(Polyrex-EM)		Moment of Inertia (J)		Load(Max.) 15.22732394 kg·m²			
External Thrust		Not applicable				Motor 0.166 kg·m²			
Coupling Method		<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Sound Pressure Level (No-load & mean value at 1m from motor)		66 dB(A)			
Shaft Extension		<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Vibration		2.2 mm/sec(r.m.s)			
Terminal Box		Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Permissible number of consecutive starts		Cold 3 times			
		Aux. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Hot 2 times			
		Location Refer to Outline Drawing		Paint		Munsell No. Panton279C			
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		LM-T1183B5PLV01		172 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		---	

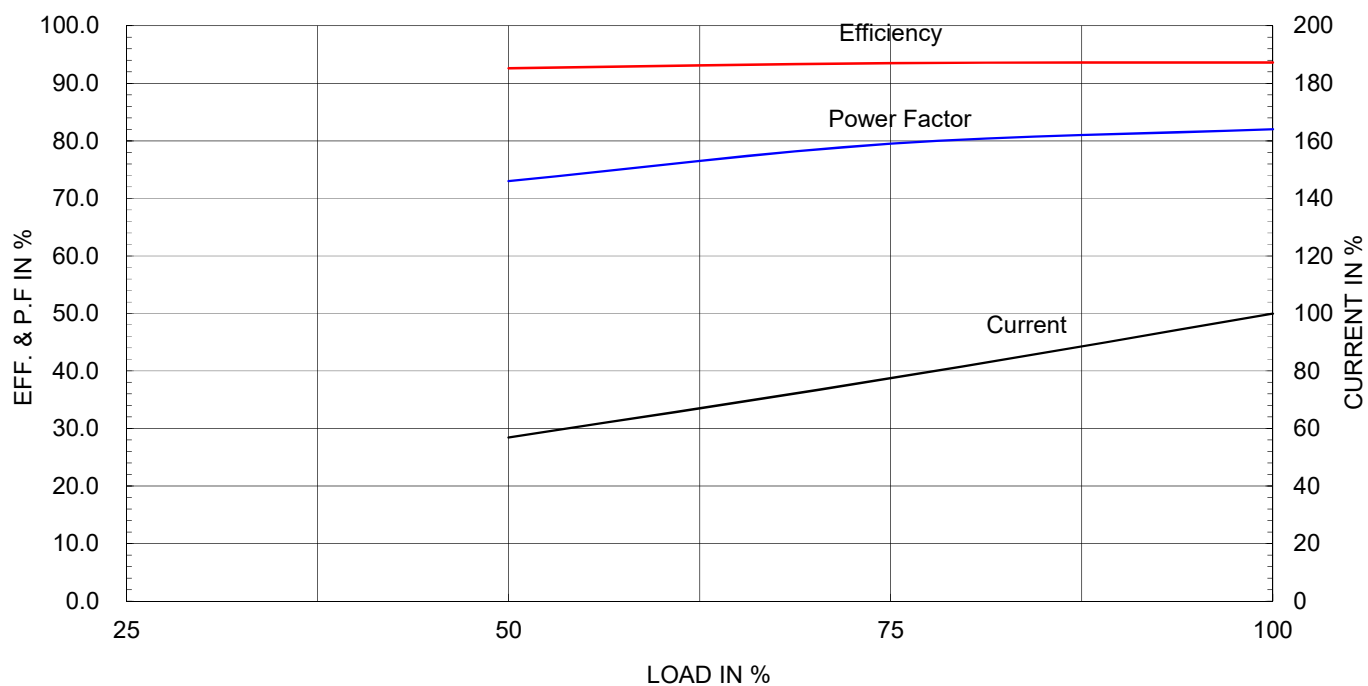
Type :	HLP-18.5/4
Full Load Torque :	10.2 Kg-m
Load moment of Inertia (J) :	15.227 Kg-m ²
Motor moment of Inertia (J) :	0.166 Kg-m ²

18.5kW	25HP	4P	60 Hz
Speed at Full Load : 1775 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	31.6A	36.6A	63.3A

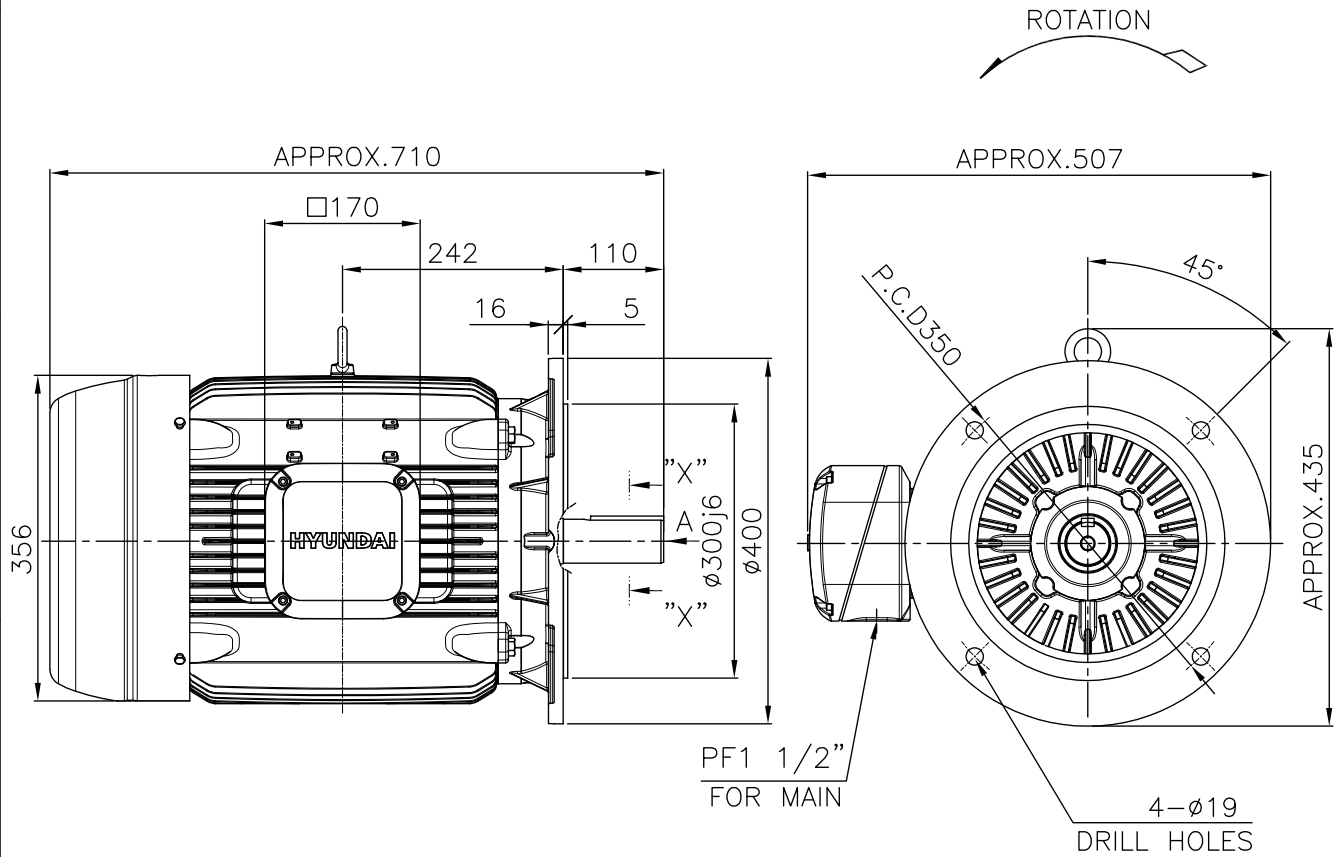
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



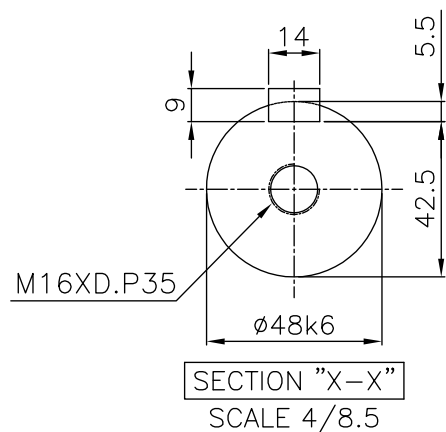
1		2		3		4	
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY
▽▽	12.5S						
▽▽▽	3.2S						
▽▽▽▽	0.4S						



NOTE

1.TOLERANCE :

FLANGE HOLE	$\phi 19 \begin{smallmatrix} +0.52 \\ 0 \end{smallmatrix}$
RABBET DIAMETER	$\phi 300 \pm 0.016$
SHAFT DIAMETER	$\phi 48 \begin{smallmatrix} +0.018 \\ +0.002 \end{smallmatrix}$
KEYWAY WIDTH	$14 \begin{smallmatrix} 0 \\ -0.043 \end{smallmatrix}$
KEYWAY DEPTH	$5.5 \begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEY WIDTH	$14 \begin{smallmatrix} 0 \\ -0.043 \end{smallmatrix}$
KEY HEIGHT	$9 \begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS Fr.180M	DWG SIZE	A4 1(8.5)
CHKD BY	I.K.KIM	SCALE	1/8.5	TITLE Outline			
CHKD BY	S.H.LEE	PROJEC'N	(3rd Angle)				
DSND BY	S.R.KIM	DATE	2020.06.19				
HYUNDAI ELECTRIC				REF. NO		Sheet No.	of
				DWG NO	LM-T1183B5PLV01	Revision No.	0

