

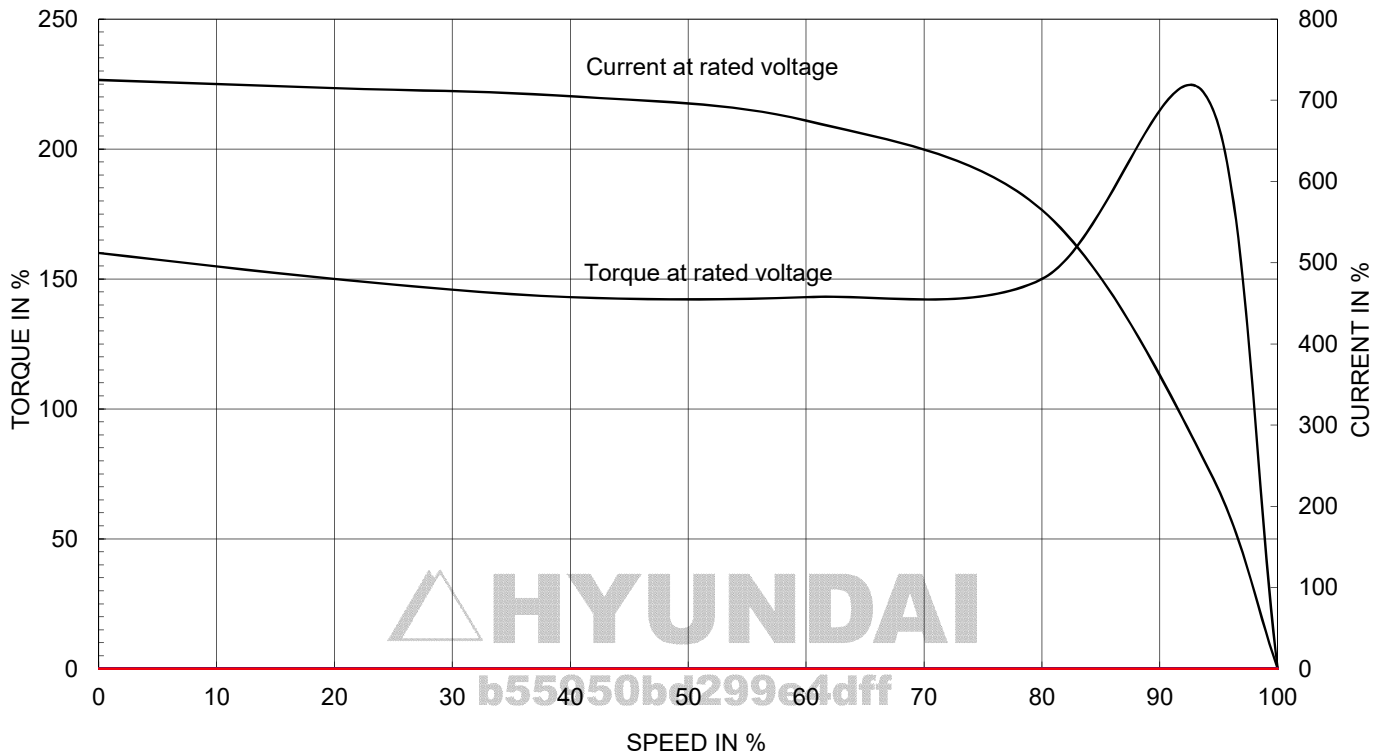
AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.		[0]			
Project Name		Project No.		Quantity		set			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		180L		Rated Output		30 kW 40 HP			
Type		HLP-30/4		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 51.0 A 59.1 A 102.0 A			
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**		725 % 725 % 725 %			
Temp. Rise at full load (by resistance method)				Efficiency					
at 1.0 S.F		80 °C		50% Load		93.8 %			
Motor Location		<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load		94.3 %			
Altitude		Less than 1000m		100% Load		94.1 %			
Relative Humidity		Less than 80 %		Power Factor(p.u)					
Ambient Temp.		40 °C MAX.		50% Load		0.735			
Duty Type		Continuous(S1)		75% Load		0.790			
Service Factor		1.15		100% Load		0.820			
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		Torque					
		DE/N-DE 6312ZZC3 / 6310ZZC3		Full Load		16.4 kg.m			
		Lubricant Grease(Polyrex-EM)		Locked-rotor**		160 %			
External Thrust		Not applicable		Breakdown**		220 %			
Coupling Method		<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)					
Shaft Extension		<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.)		24.62359551 kg.m²			
Terminal Box		Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor		0.19 kg.m²			
		Aux. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sound Pressure Level (No-load & mean value at 1m from motor)					
		Location Refer to Outline Drawing				66 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-T1185B5PLV01	186 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		---	

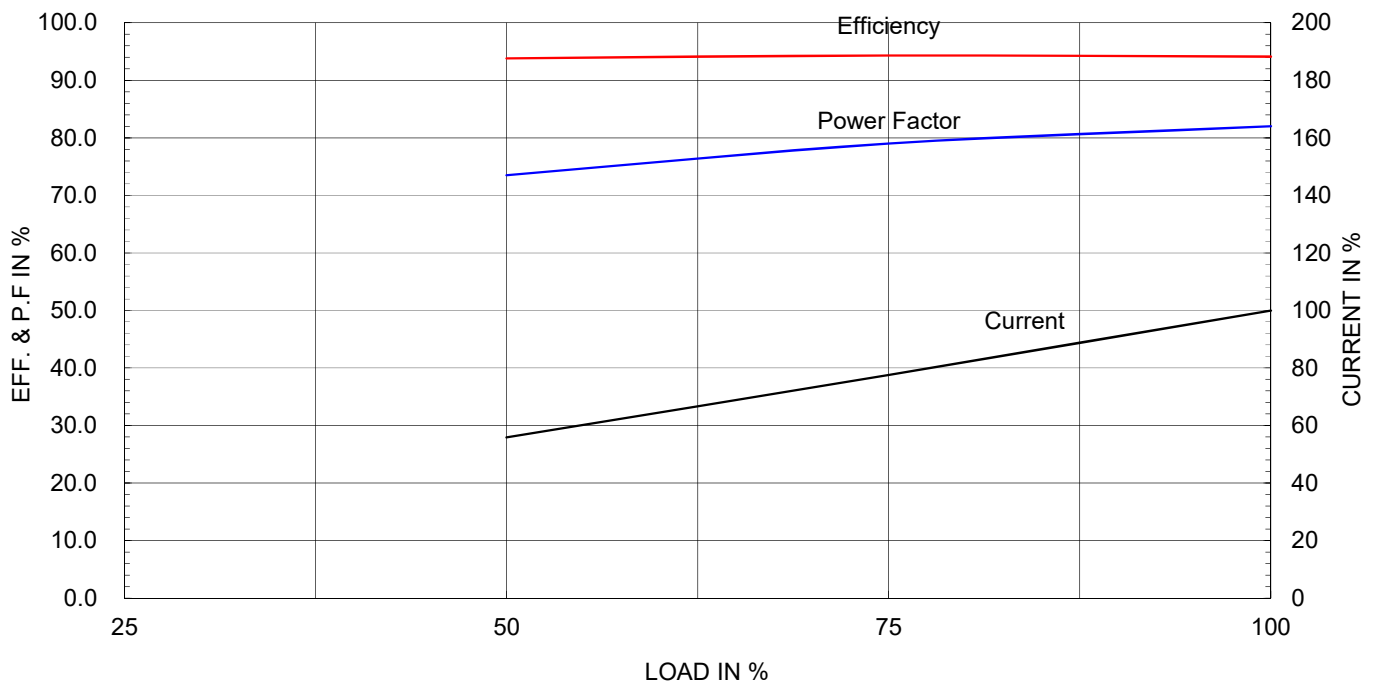
Type :	HLP-30/4
Full Load Torque :	16.4 Kg-m
Load moment of Inertia (J) :	24.624 Kg-m ²
Motor moment of Inertia (J) :	0.190 Kg-m ²

30kW	40HP	4P	60 Hz
Speed at Full Load : 1780 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	51.0A	59.1A	102.0A

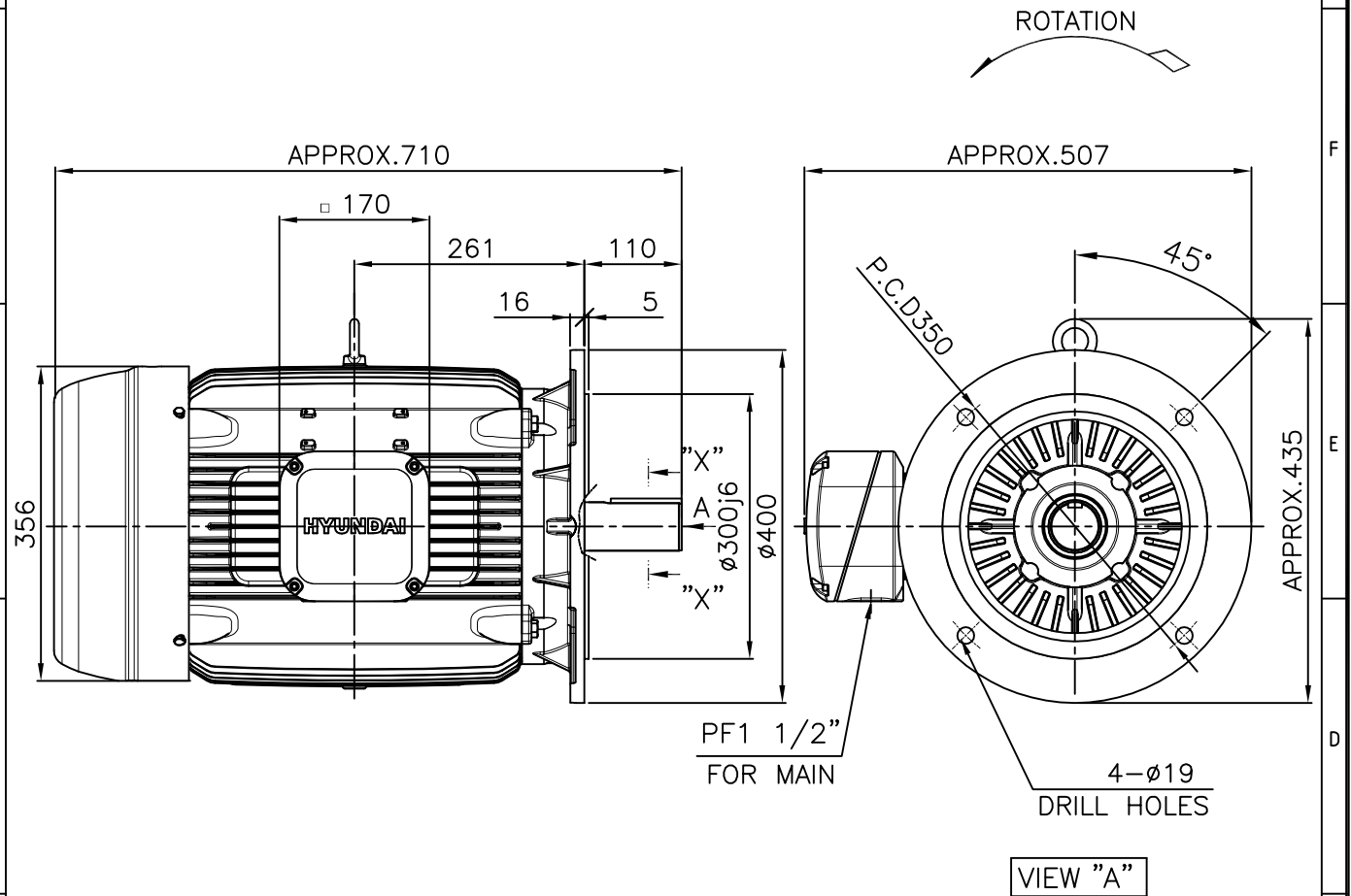
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



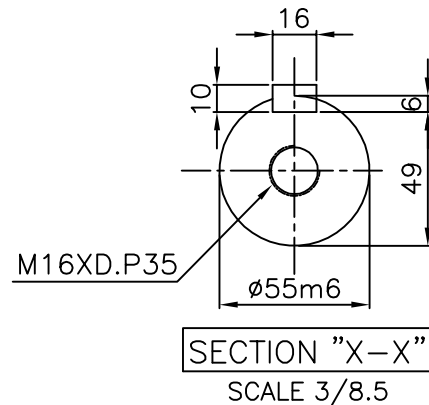
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							




NOTE

1.TOLERANCE :

FLANGE HOLE	ø19	$+0.52$ 0
RABBET DIAMETER	ø300	± 0.016
SHAFT DIAMETER	ø55	$+0.030$ $+0.011$
KEYWAY WIDTH	16	-0.043 0
KEYWAY DEPTH	6	$+0.2$ 0
KEY WIDTH	16	-0.043 0
KEY DEPTH	10	-0.090 0



APPD	BY	S.K.HAN	UNIT	mm	SUBJECT	KS Fr.180L	DWG SIZE	
CHKD	BY	I.K.KIM	SCALE	1/8.5	TITLE Outline			A4 (8.5)
CHKD	BY	S.H.LEE	PROJEC'N	(3rd Angle)				
DSND	BY	S.R.KIM	DATE	2020.06.19				
					REF. NO		Sheet No.	of
					DWG NO	LM-T1185B5PLV01	Revision No.	0

