

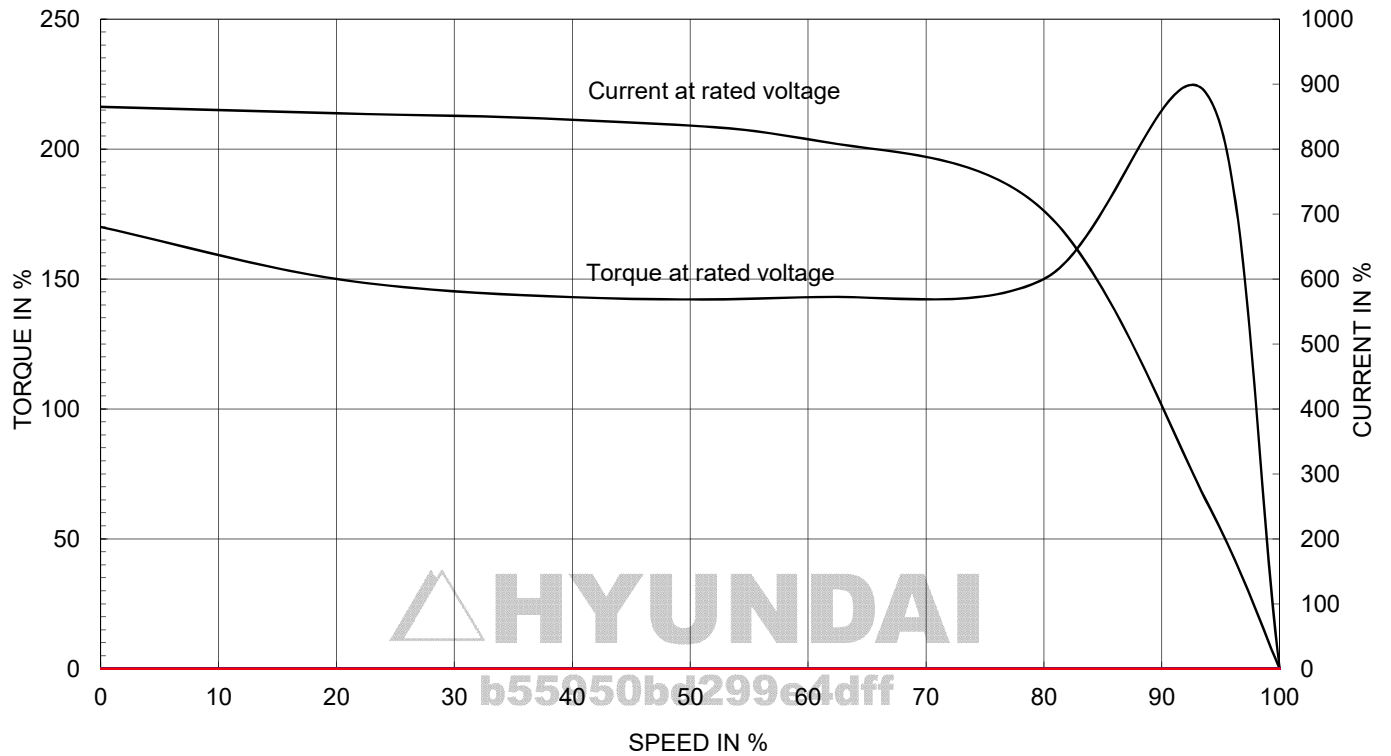
# AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.		[ 0 ]			
Project Name		Project No.		Quantity		set			
<b>GENERAL SPECIFICATION</b>				<b>PERFORMANCE DATA</b>					
Frame Size		180M		Rated Output		22 kW 30 HP			
Type		HLP-22/4		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 37.7 A 43.7 A 75.4 A			
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**		865 % 865 % 865 %			
Temp. Rise at full load (by resistance method)				Efficiency					
at 1.0 S.F 80 °C				50% Load 92.4 %					
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor				75% Load 93.4 %					
Altitude Less than 1000m				100% Load 93.6 %					
Relative Humidity Less than 80 %				Power Factor(p.u)					
Ambient Temp. 40 °C MAX.				50% Load 0.641					
Duty Type Continuous(S1)				75% Load 0.759					
Service Factor 1.15				100% Load 0.818					
Mounting <input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5				Speed at Full Load 1775 r.p.m					
Bearing Type Anti-Friction				Torque					
DE/N-DE 6310ZZC3 / 6310ZZC3				Full Load 12.1 kg.m					
Lubricant Grease(Polyrex-EM)				Locked-rotor** 170 %					
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.) 18.10816901 kg·m²					
Terminal Box Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron				Motor 0.235 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					
<b>ACCESSORIES</b>				<b>SUBMITTAL DRAWING</b>					
				Outline Dimension Drawing \ Motor Weight(Approx.)					
				B3				kg	
				B5		LM-T1183B5PLV01		177 kg	
				V1				kg	
				B3/B5				kg	
				Main T-Box Ass'y 3M-145860					
				<b>REMARK</b>					
				*.Premium Efficiency(IE3)					
				*.For use on PWM VFD 10:1VT,3:1CT@ 1.0S.F&F Temp.rise					
<b>SPARE PARTS</b>									
				Date		DSND		CHKD	
				2018-11-23		R.G. KIM		---	

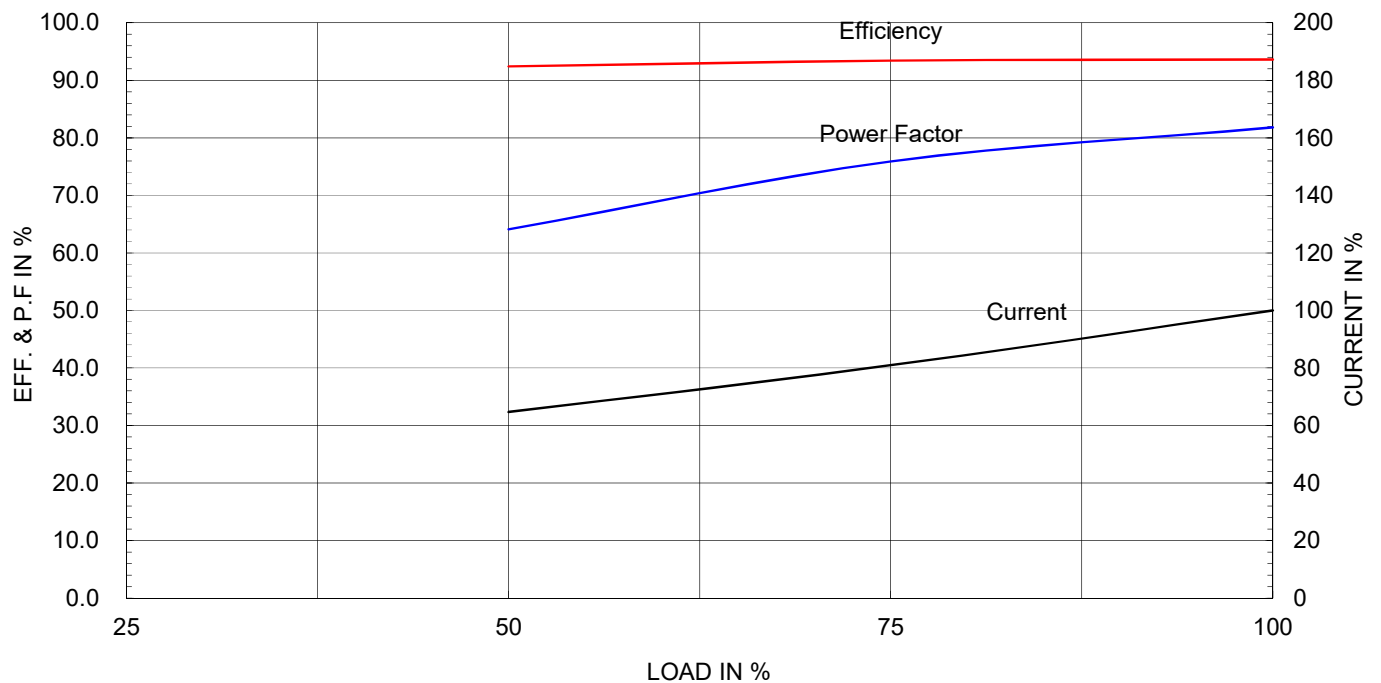
Type	:	HLP-22/4
Full Load Torque :	12.1	Kg-m
Load moment of Inertia (J) :	18.108	Kg-m <sup>2</sup>
Motor moment of Inertia (J) :	0.235	Kg-m <sup>2</sup>

22kW	30HP	4P	60 Hz
Speed at Full Load : 1775 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	37.7A	43.7A	75.4A

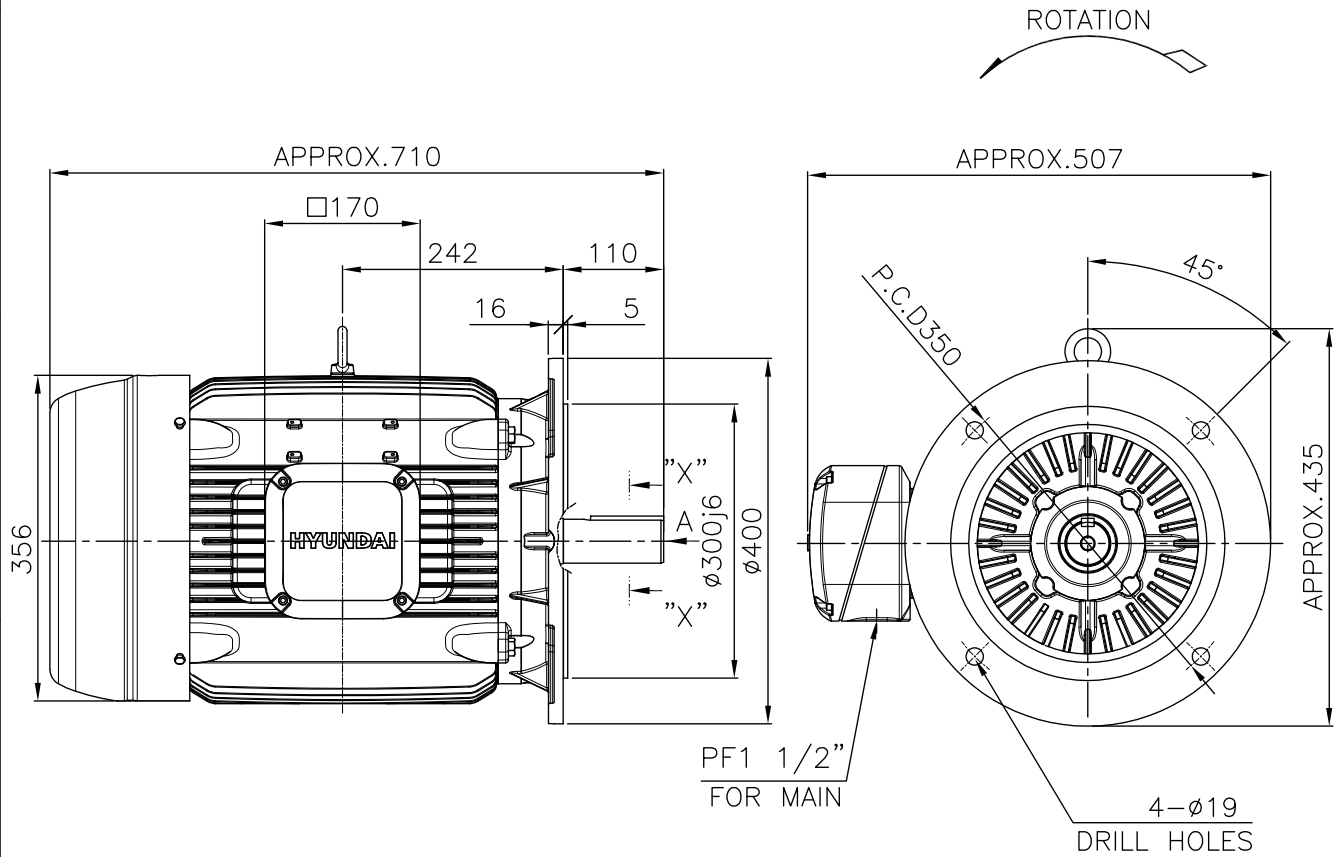
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



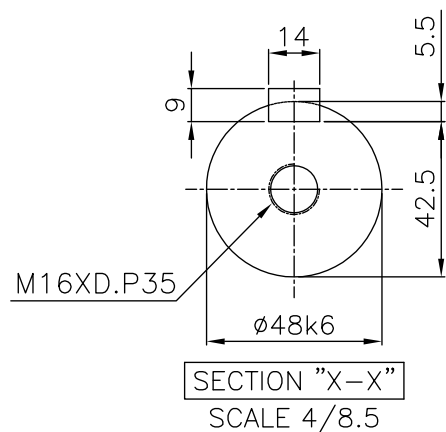
1		2		3		4	
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY
▽▽	12.5S						
▽▽▽	3.2S						
▽▽▽▽	0.4S						



## 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			
CHKD BY	S.H.LEE	PROJEC'N	(3rd Angle)				
DSND BY	S.R.KIM	DATE	2020.06.19	Outline			
				REF. NO		Sheet No.	of
				DWG NO	LM-T1183B5PLV01	Revision No.	0

