

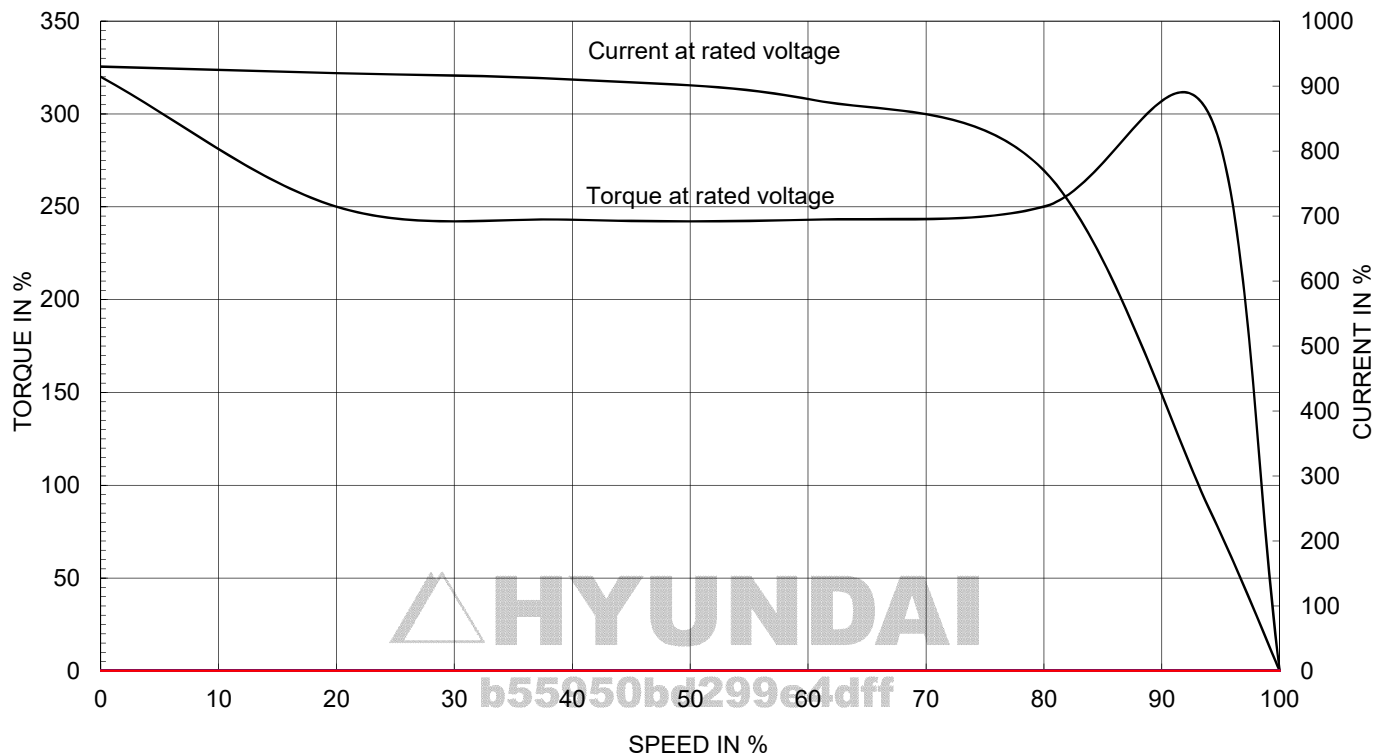
AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.		[0]			
Project Name		Project No.		Quantity		set			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		90L		Rated Output		1.5 kW 2 HP			
Type		HLP-1.5/4		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 2.8 A 3.3 A 5.6 A			
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**		930 % 930 % 930 %			
Temp. Rise at full load (by resistance method)				Efficiency					
at 1.0 S.F 80 °C				50% Load 81.0 %					
Motor Location <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor				75% Load 86.7 %					
Altitude Less than 1000m				100% Load 86.5 %					
Relative Humidity Less than 80 %				Power Factor(p.u)					
Ambient Temp. 40 °C MAX.				50% Load 0.567					
Duty Type Continuous(S1)				75% Load 0.707					
Service Factor 1.15				100% Load 0.810					
Mounting <input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5				Speed at Full Load 1745 r.p.m					
Bearing Type Anti-Friction				Torque					
DE/N-DE 6205ZZ / 6204ZZ				Full Load 0.8 kg.m					
Lubricant Grease(HIFLEX L-3)				Locked-rotor** 320 %					
External Thrust Not applicable				Breakdown** 300 %					
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.) 1.255873926 kg·m²					
Terminal Box Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron				Motor 0.003 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				56 dB(A)					
Application				Vibration 1.6 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. Pantan279C					
ACCESSORIES				SUBMITTAL DRAWING					
				Outline Dimension Drawing \ Motor Weight(Approx.)					
				B3			kg		
				B5		LM-T1095B5PLV01	30 kg		
				V1			kg		
				B3/B5			kg		
Main T-Box Ass'y				3M-148548					
				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		---	

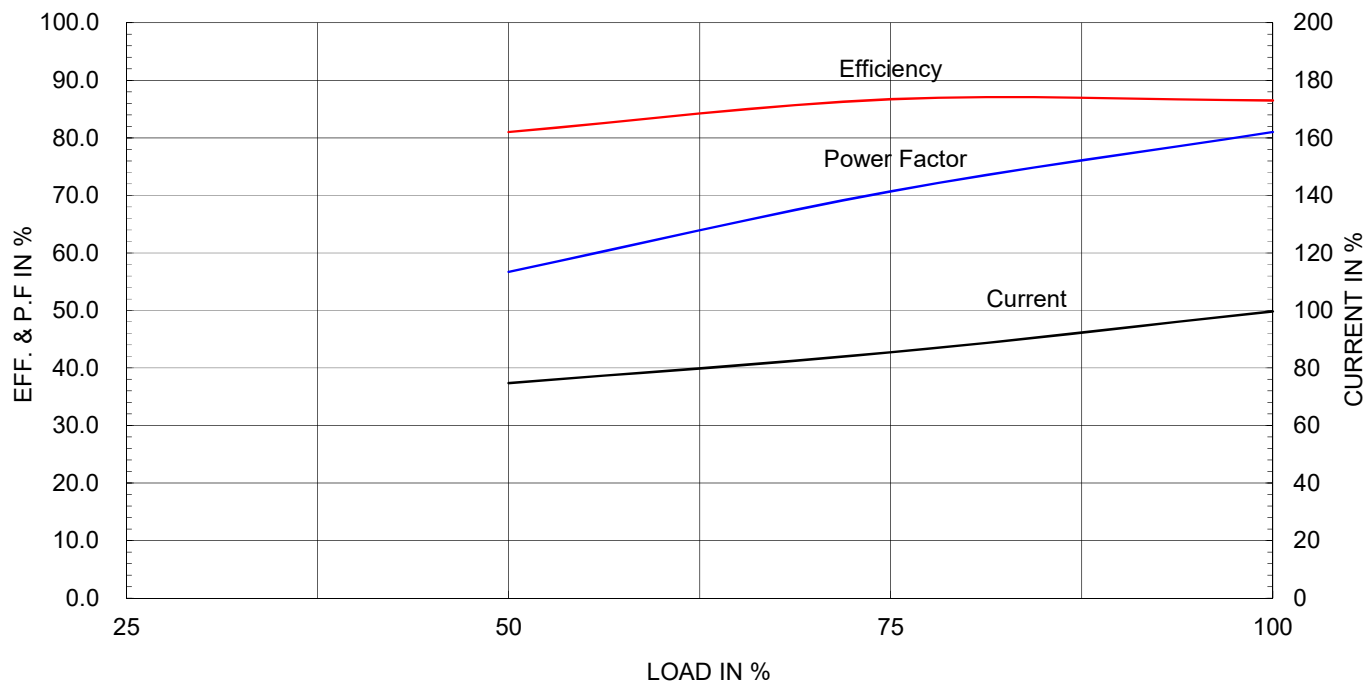
Type	:	HLP-1.5/4
Full Load Torque :	0.8	Kg-m
Load moment of Inertia (J) :	1.256	Kg-m ²
Motor moment of Inertia (J) :	0.003	Kg-m ²

1.5kW	2HP	4P	60 Hz
Speed at Full Load : 1745 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	2.8A	3.3A	5.6A

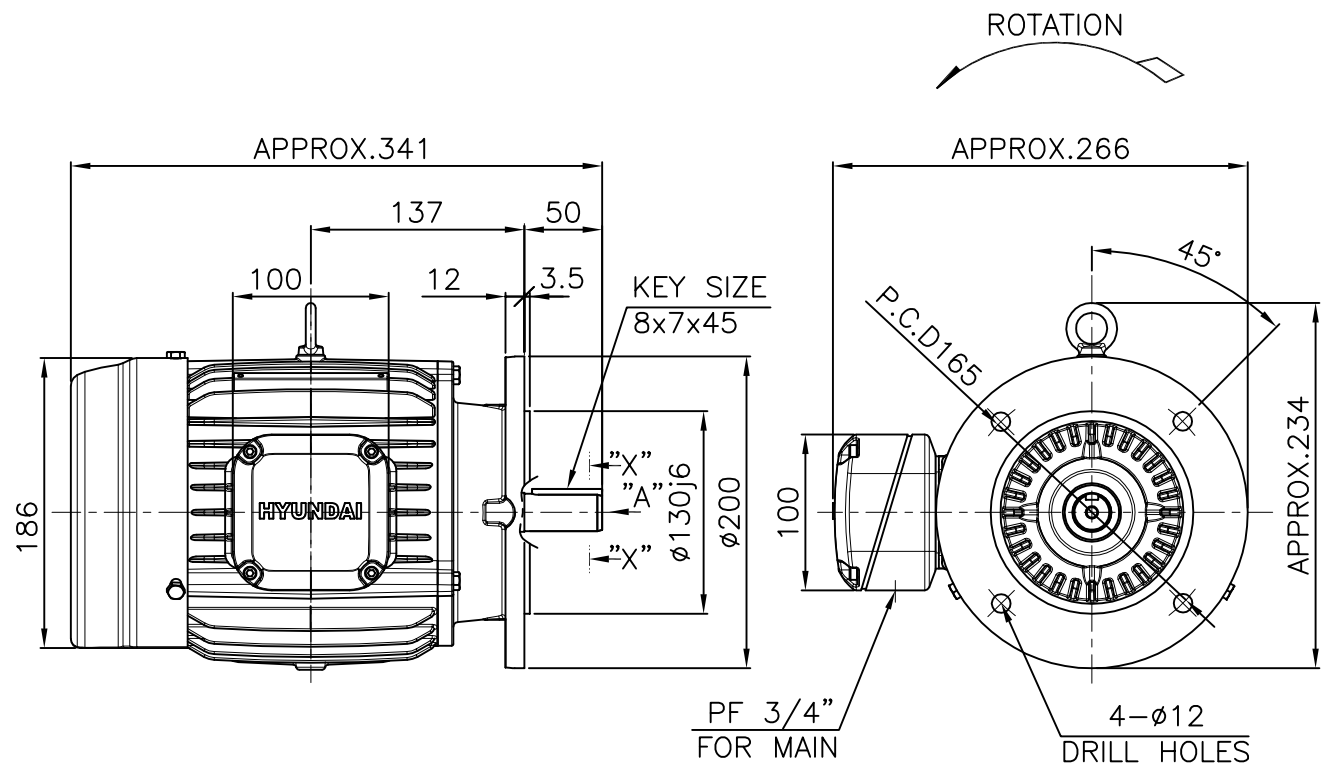
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



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

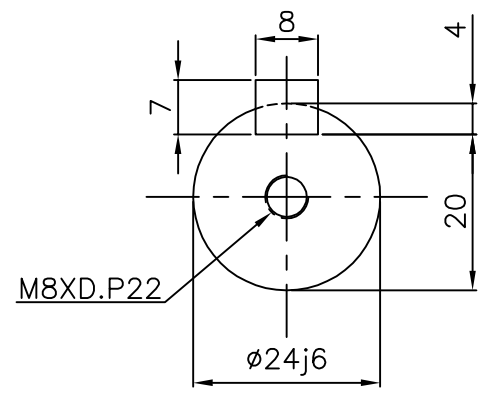


VIEW "A"

NOTE

1.TOLERANCE :





FLANGE HOLES	ø12	+0.43 0
RABBET DIAMETER	ø130	+0.014 -0.011
SHAFT DIAMETER	ø24	+0.009 -0.004
KEYWAY WIDTH	8	0 -0.036
KEYWAY DEPTH	4	+0.2 0
KEY WIDTH	8	0 -0.036
KEY HEIGHT	7	0 -0.090

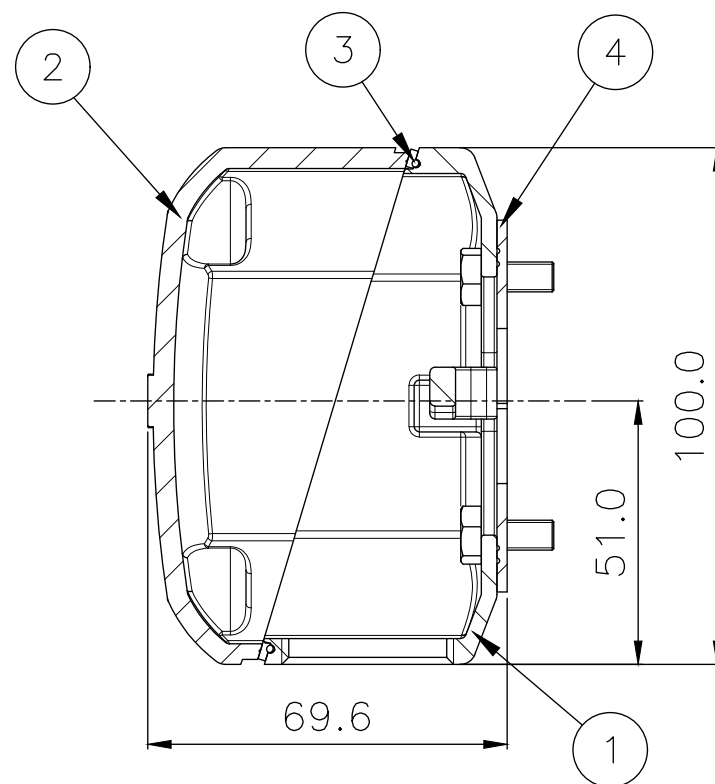
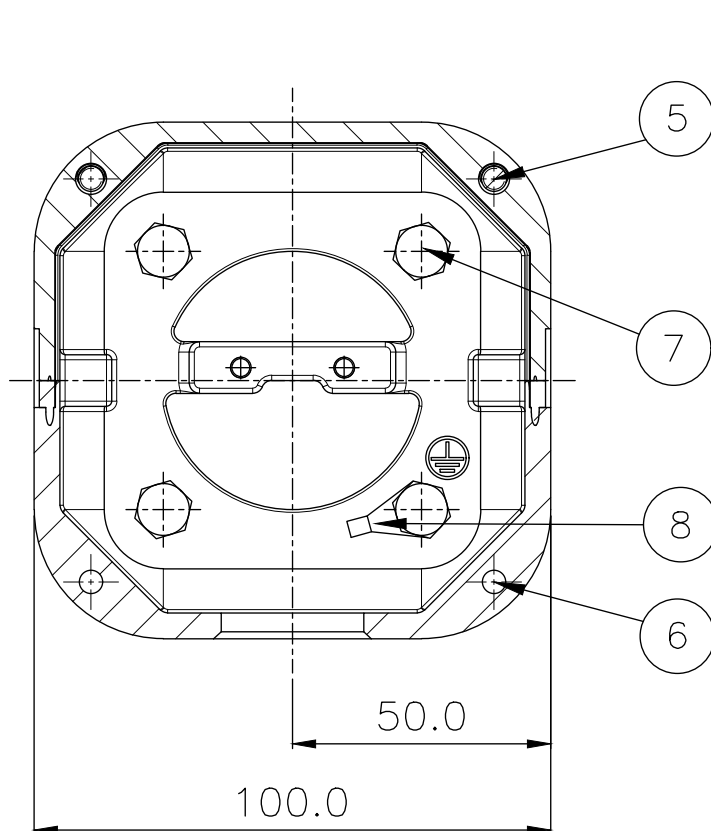



SECTION "X-X"

SCALE 5/6

APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS Fr.90L	DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/6	TITLE		A4 (16)
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-T1095B5PLV01	Revision No. 0

	50S
	12.5S
	3.2S
	0.4S

[illegible]

1	GROUND TERMINAL LUG	CU	--					8
4	BOX+FRAME HEX BOLT	S45C	M6 X L15					7
2	COVER+BOX HEX BOLT	S45C	M5 X L20					6
2	COVER+BOX HEX BOLT	S45C	M5 X L40					5
1	BOX GASKET	NBR	--					4
1	COVER GASKET	NBR	--					3
1	CONDUIT BOX COVER	AL	--					2
1	CONDUIT BOX	AL	--					1
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.	
APPD BY	S.K.HAN	UNIT	mm	SUBJECT	SSEN SERIES 90FR.			DWG SIZE A3 (1:1)
CHKD BY	I.K.KIM	SCALE	1/1	TITLE TERMINAL BOX ASS'Y				
CHKD BY	-	PROJEC'TN	3rd Angle					
DSND BY	S.H.LEE	DATE	2020-06-19					
				REF. NO				Sheet No. of
				DWG NO				Revision No. 0