HYUNDAI ELECTRIC

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.	[0]
Project Name		Project No.		Quantity	set

GENERAL SPECIFICATION

Frame Size		100L
Type		HLP-2.2/4
Enclosure(Protection)		Totally Enclosed (IP55)
Method of Cooling		IC411(FC)
Rated Frequency		60 Hz
Number of Phases		3
Insulation Class		■ F ☐ B ☐ H
Temp. Rise at full load (by resistance method)		
	at 1.0 S.F	80 ℃
Motor Location		■ Indoor ☐ Outdoor
Altitude		Less than 1000m
Relative Humidity		Less than 80 %
Ambient Temp.		40 ℃ MAX.
Duty Type		Continuous(S1)
Service Factor		1.15
Mounting		☐ B3 ■ B5 ☐ V1 ☐ B3/B5
Bearing	Type	Anti-Friction
	DE/N-DE	6206ZZC3 / 6206ZZC3
	Lubricant	Grease(Polyrex-EM)
External Thrust		Not applicable
Coupling Method		■ Direct ☐ V-Belt
Shaft Extension		■ Single ☐ Double
Terminal Box	Main	☐ Steel ■ Cast Iron
	Aux.	☐ Yes ■ No
	Location	Refer to Outline Drawing
Application		
Area classification		Non-Hazardous
Type of Ex-Protection		Not applicable
Applicable Standard		KS, IEC, NEMA MG1 Part30(Vpeak)

PERFORMANCE DATA

Rated Output		2.2 kW		3 HP
Number of Poles		4		
Rotor Type		Squirrel Cage		
Starting Method*		■ D.O.L	☐ Y-△	
Rated Voltage		440 V	380 V	220 V
Current	Full Load	4.2 A	4.9 A	8.4 A
	Locked-rotor**	835 %	835 %	835 %
Efficiency				
	50% Load	88.0 %		
	75% Load	89.4 %		
	100% Load	89.5 %		
Power Factor(p.u)				
	50% Load	0.508		
	75% Load	0.688		
	100% Load	0.764		
Speed at Full Load		1760 r.p.m		
Torque				
	Full Load	1.2 kg.m		
	Locked-rotor**	200 %		
	Breakdown**	250 %		
Moment of Inertia (J)				
	Load(Max.)	1.82625 kg·m²		
	Motor	0.008 kg·m²		
Sound Pressure Level (No-load & mean value at 1m from motor)		57 dB(A)		
Vibration		1.6 mm/sec(r.m.s)		
Permissible number of consecutive starts	Cold	3 times		
	Hot	2 times		
Paint	Munsell No.	Panton279C		

ACCESSORIES

SPARE PARTS

SUBMITTAL DRAWING

Outline Dimension Drawing	\	Motor Weight(Approx.)
B3		kg
B5	LM-T1105B5PLV01	41 kg
V1		kg
B3/B5		kg
Main T-Box Ass'y	3M-148549	

REMARK

*.Premium Efficiency(IE3)

*.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise

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.

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PERFORMANCE CURVE

CURVE NO.

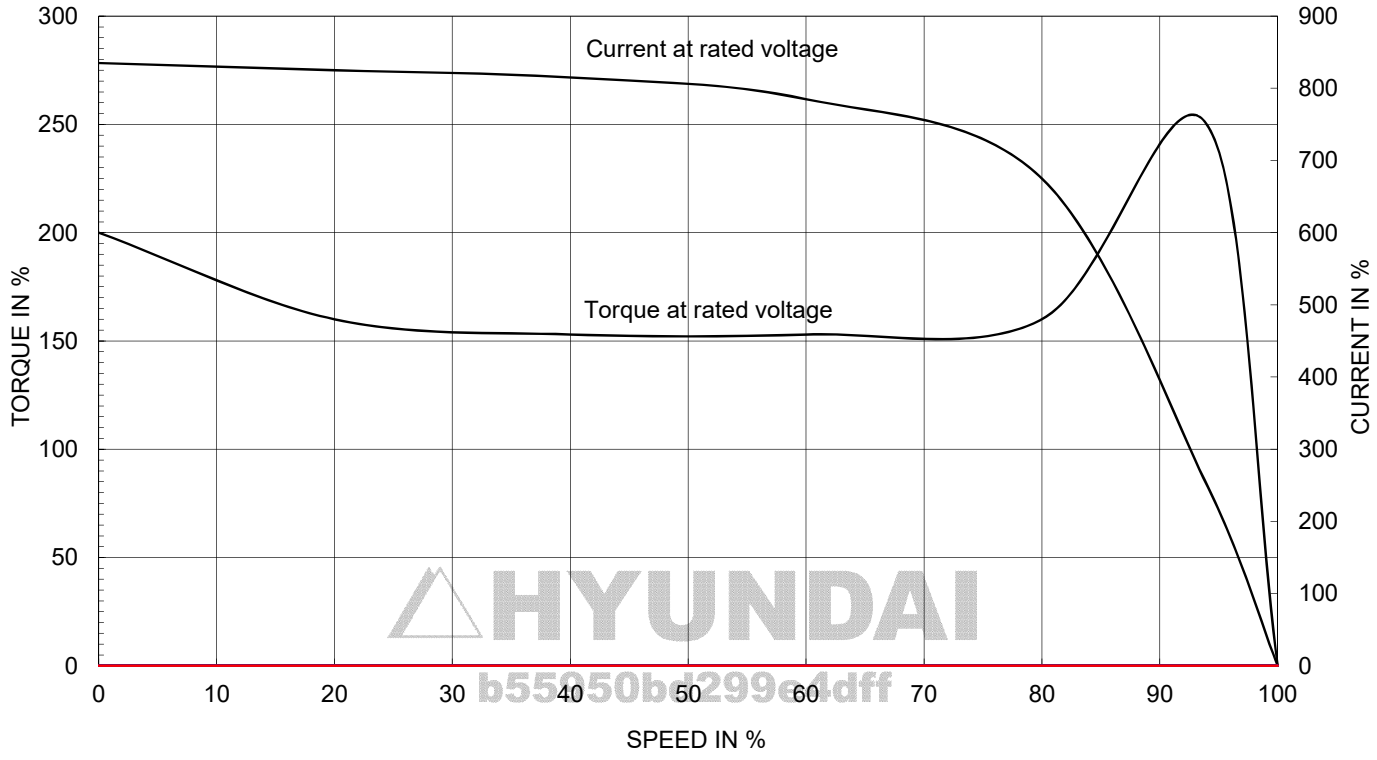
PI-HLP-2.2/4

Type	:	HLP-2.2/4	
Full Load Torque :		1.2	Kg-m
Load moment of Inertia (J) :		1.826	Kg-m²
Motor moment of Inertia (J) :		0.008	Kg-m²

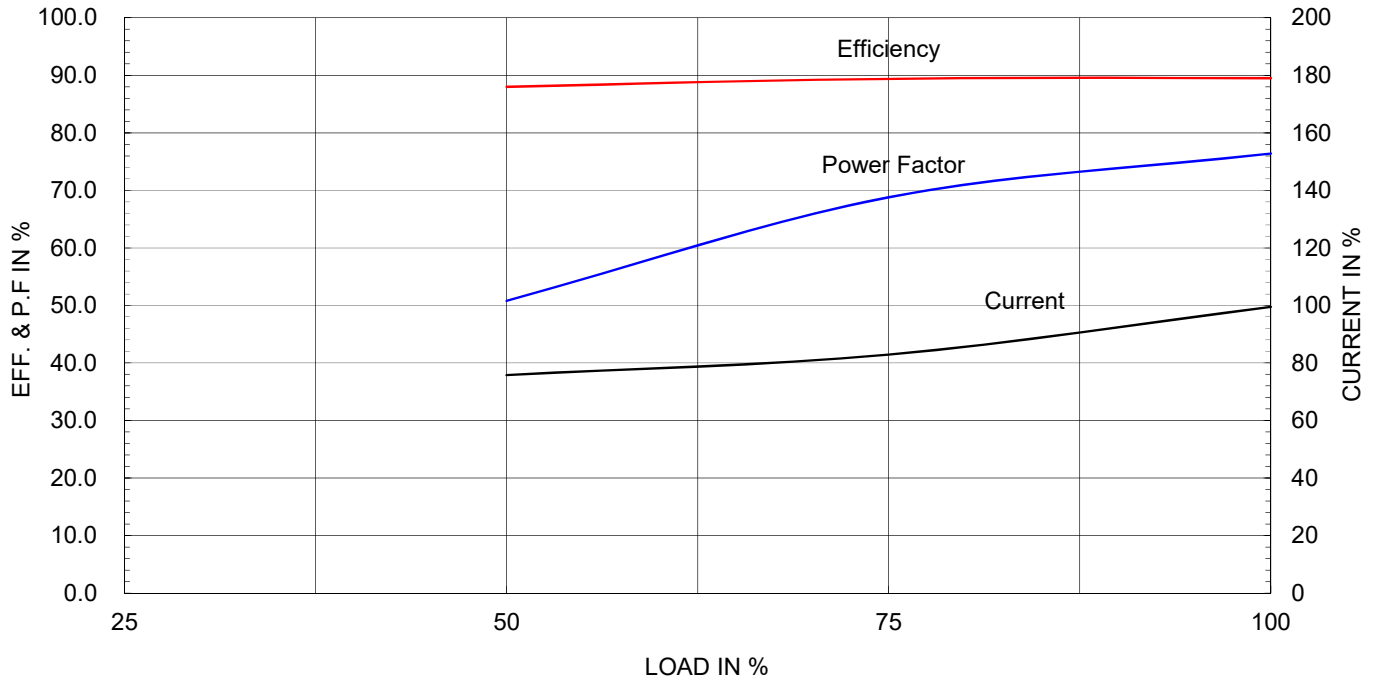
2.2kW	3HP	4P	60 Hz
Speed at Full Load :			1760 RPM

Rated Voltage	440V	380V	220V
Full Load Current	4.2A	4.9A	8.4A

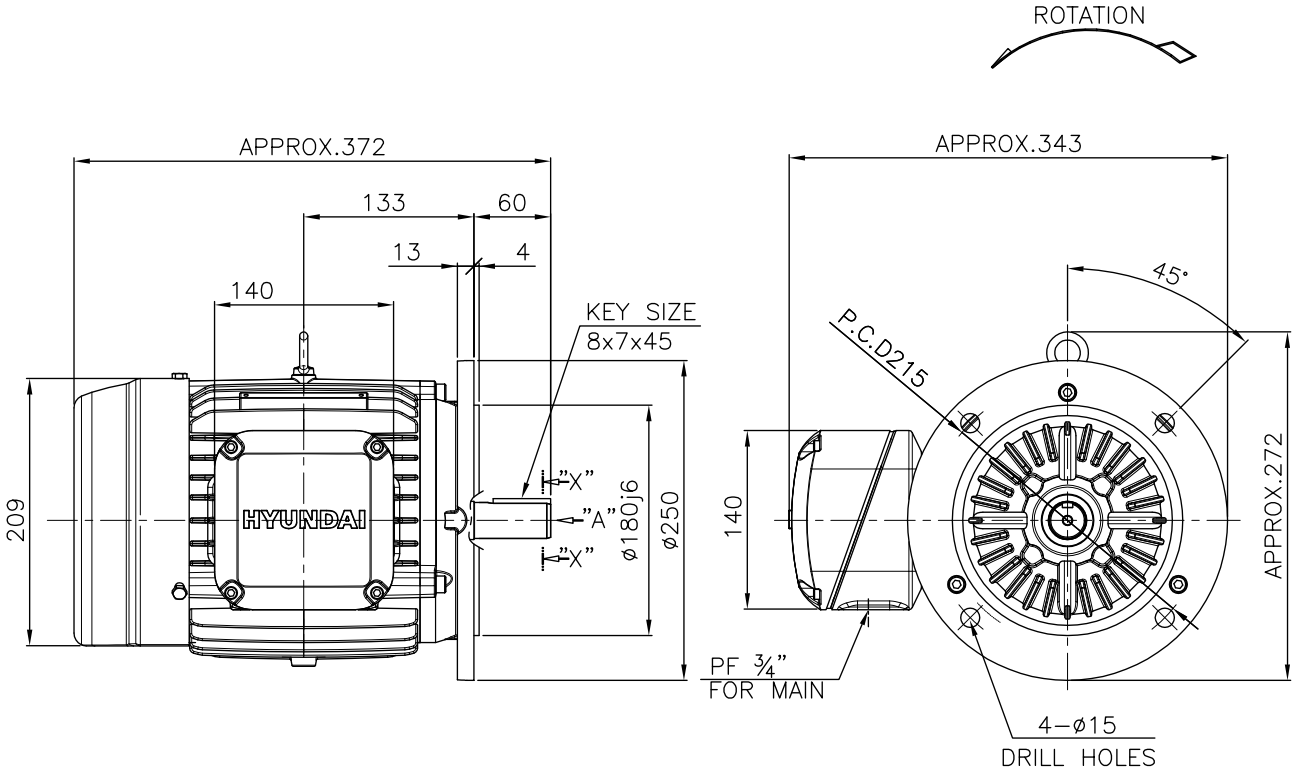
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



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

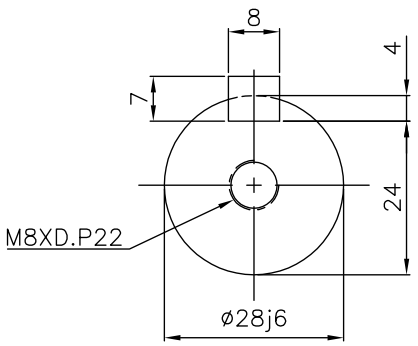


VIEW "A"

NOTE

1.TOLERANCE :

FLANGE HOLE	ø15	+0.43 0
RABBET DIAMETER	ø180	+0.014 −0.011
SHAFT DIAMETER	ø28	+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
CHKD BY	S.Y.KIM	SCALE	1/6
CHKD BY	I.K.KIM	PROJEC'N	3각법(3rd Angle)
DSND BY	S.H.LEE	DATE	2020.06.19

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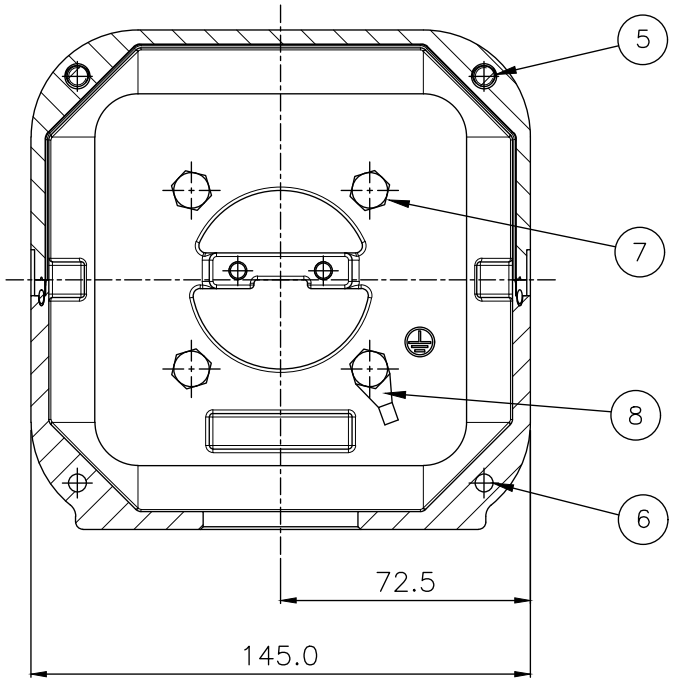
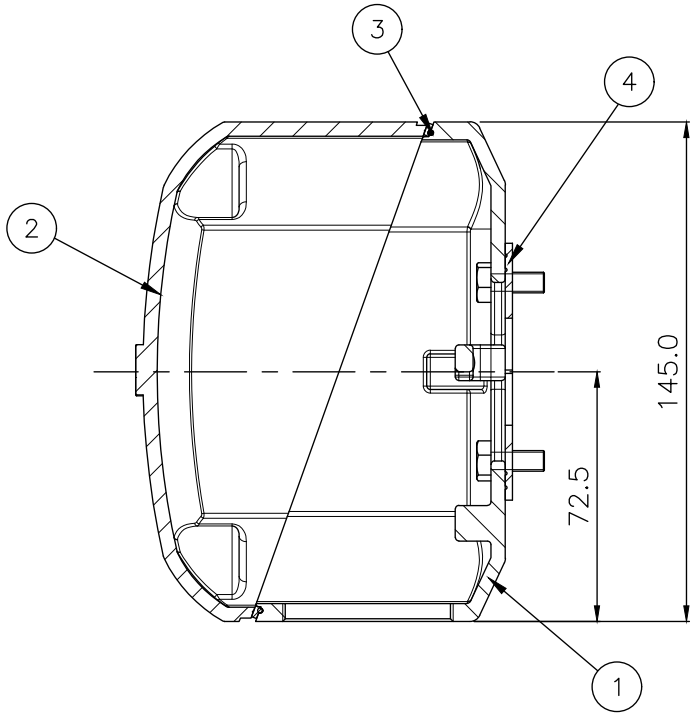
SUBJECT	KS Fr.100L	DWG SIZE A4 (1:6)
TITLE	OUTLINE	
REF. NO		Sheet No. of
DWG NO	LM-T1105B5PLV01	Revision No. 0





Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
1	GROUND TERMINAL LUG	CU	--				8
4	BOX+FRAME HEX BOLT	S45C	M6 X L15				7
2	COVER+BOX HEX BOLT	S45C	M6 X L25				6
2	COVER+BOX HEX BOLT	S45C	M6 X L65				5
1	BOX GASKET	NBR	--				4
1	COVER GASKET	NBR	--				3
1	CONDUIT BOX COVER	AL	--				2
1	CONDUIT BOX	AL	--				1

APPD BY	S.K.HAN	UNIT	mm
CHKD BY	I.K.KIM	SCALE	1/1.5
CHKD BY	-	PROJEC'N	3rd Angle
DSND BY	이승호	DATE	2020-06-19

SUBJECT: SSEN SERIES 100-132FR | DWG SIZE: A3 (1:1.5)

TITLE: TERMINAL BOX ASS'Y

REF. NO | Sheet No. of

DWG NO: 3M-234756 | Revision No. 0

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▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
	.					

일반가공공차		일반제관공차	
1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0