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		90L
Type		HLP-1.5/4
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	6205ZZ / 6204ZZ
	Lubricant	Grease(HIFLEX L-3)
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		1.5 kW		2 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	2.8 A	3.3 A	5.6 A
	Locked-rotor**	930 %	930 %	930 %
Efficiency				
	50% Load	81.0 %		
	75% Load	86.7 %		
	100% Load	86.5 %		
Power Factor(p.u)				
	50% Load	0.567		
	75% Load	0.707		
	100% Load	0.810		
Speed at Full Load		1745 r.p.m		
Torque				
	Full Load	0.8 kg.m		
	Locked-rotor**	320 %		
	Breakdown**	300 %		
Moment of Inertia (J)				
	Load(Max.)	1.255873926 kg·m²		
	Motor	0.003 kg·m²		
Sound Pressure Level (No-load & mean value at 1m from motor)				
		56 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	LM-T1095B3PLV01	30 kg
	B5		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

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

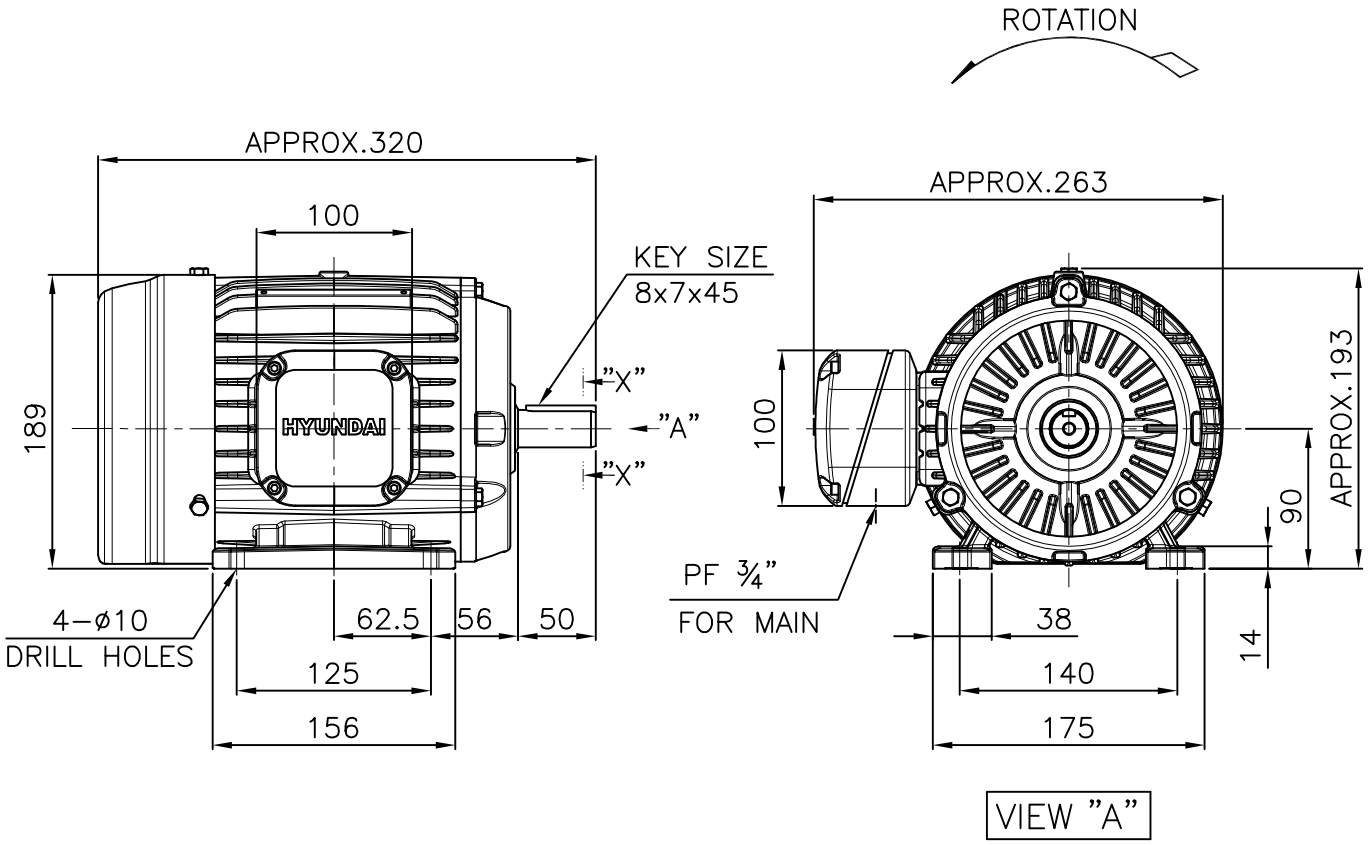
Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.

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.

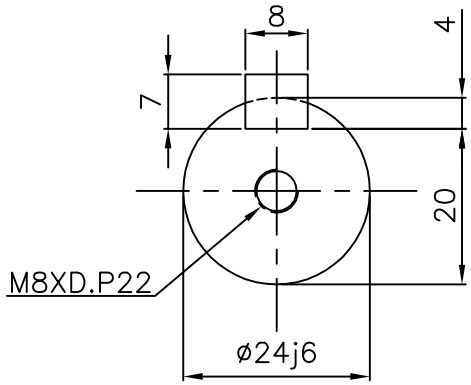
	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽	50S							
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



NOTE

1.TOLERANCE :

CENTER HEIGHT	90	$^{0}_{-0.5}$
BASE HOLES	ø10	$^{+0.36}_{0}$
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 5/5

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	2019.06.18

SUBJECT	KS, IEC Fr.90L		DWG SIZE A4 (1:6)
TITLE	OUTLINE		
REF. NO		Sheet No.	of
DWG NO	LM-T1095B3PLV01	Revision No.	0

HYUNDAI ELECTRIC