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		160M
Type		HLP-7.5/6
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	6309ZZC3 / 6309ZZC3
	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		7.5 kW		10 HP
Number of Poles		6		
Rotor Type		Squirrel Cage		
Starting Method*		■ D.O.L	☐ Y-△	
Rated Voltage		440 V	380 V	220 V
Current	Full Load	15.0 A	17.4 A	30.0 A
	Locked-rotor**	825 %	825 %	825 %
Efficiency				
	50% Load	89.1 %		
	75% Load	90.7 %		
	100% Load	91.0 %		
Power Factor(p.u)				
	50% Load	0.508		
	75% Load	0.640		
	100% Load	0.720		
Speed at Full Load		1175 r.p.m		
Torque				
	Full Load	6.2 kg.m		
	Locked-rotor**	170 %		
	Breakdown**	250 %		
Moment of Inertia (J)				
	Load(Max.)	15.54255319 kg·m²		
	Motor	0.13 kg·m²		
Sound Pressure Level (No-load & mean value at 1m from motor)				
		56 dB(A)		
Vibration		2.2 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-T1163B3PLV01	118 kg
	B5		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

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

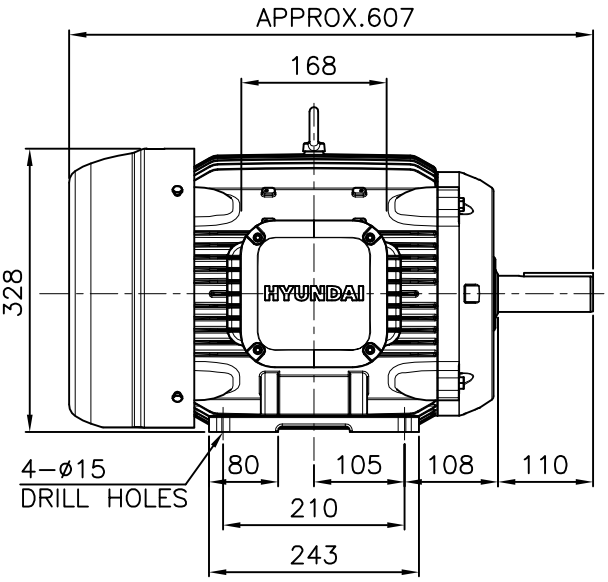
Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.

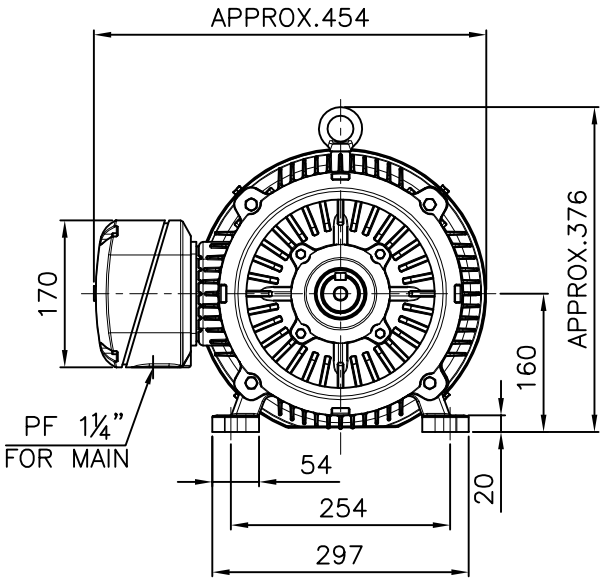
Inspection and performance test shall be maker standard, if not mentioned.

* 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							

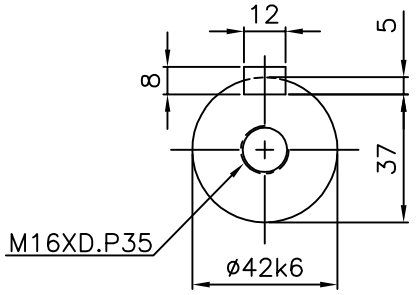




NOTE

1.TOLERANCE :

CENTER HEIGHT	160	$^{0}_{-0.5}$
BASE HOLES	ø15	$^{+0.43}_{0}$
SHAFT DIAMETER	ø42	$^{+0.018}_{+0.002}$
KEYWAY WIDTH	12	$^{0}_{-0.043}$
KEYWAY DEPTH	5	$^{+0.2}_{0}$
KEY WIDTH	12	$^{0}_{-0.043}$
KEY HEIGHT	8	$^{0}_{-0.090}$



SECTION "X–X"
SCALE 4/9

APPD BY	S.K.HAN	UNIT	mm
CHKD BY	S.Y.KIM	SCALE	1/9
CHKD BY	I.K.KIM	PROJEC'N	3각법(3rd Angle)
DSND BY	S.H.LEE	DATE	2019.06.17

HYUNDAI ELECTRIC

SUBJECT	KS, IEC Fr.160M		DWG SIZE A4 (1:9)
TITLE	OUTLINE		
REF. NO		Sheet No.	of
DWG NO	LM-T1163B3PLV01	Revision No.	0