



# AC INDUCTION MOTOR DATA SHEET

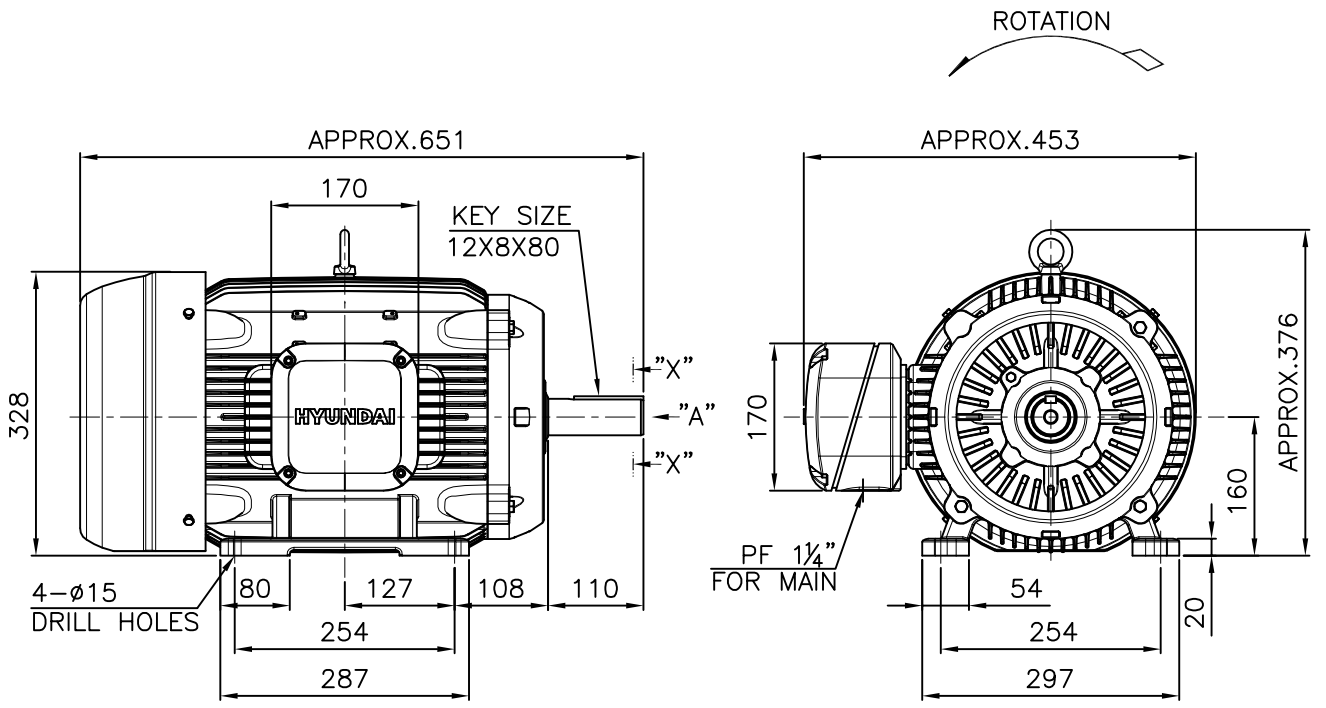
Model No.or RFQ No.		Item No.		Rev. No.		[ 0 ]			
Project Name		Project No.		Quantity		set			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		180M		Rated Output		22 kW      30 HP			
Type		HLP-22/2		Number of Poles		2			
Enclosure(Protection)		Totally Enclosed ( IP55 )		Rotor Type		Squirrel 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      35.4 A      41.0 A      70.7 A			
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**		950 %      950 %      950 %			
Temp. Rise at full load (by resistance method)		at 1.0 S.F      80 °C		Efficiency		50% Load      90.6 %			
Motor Location		<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor				75% Load      91.9 %			
Altitude		Less than 1000m				100% Load      91.7 %			
Relative Humidity		Less than 80 %		Power Factor(p.u)		50% Load      0.845			
Ambient Temp.		40 °C MAX.				75% Load      0.878			
Duty Type		Continuous(S1)				100% Load      0.890			
Service Factor		1.15		Speed at Full Load		3560 r.p.m			
Mounting		<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Torque		Full Load      6.0 kg.m			
Bearing		Type      Anti-Friction DE/N-DE      6312ZZC3 / 6310ZZC3 Lubricant      Grease(Polyrex-EM)				Locked-rotor**      160 %			
External Thrust		Not applicable				Breakdown**      230 %			
Coupling Method		<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)		Load(Max.)      7.222921348 kg·m <sup>2</sup>			
Shaft Extension		<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double				Motor      0.088 kg·m <sup>2</sup>			
Terminal Box		Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron Aux. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Location      Refer to Outline Drawing		Sound Pressure Level (No-load & mean value at 1m from motor)		79 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			
ACCESSORIES				SUBMITTAL DRAWING					
				Outline Dimension Drawing		Motor Weight(Approx.)			
				B3		LM-T1183B3PLV01	177 kg		
				B5			kg		
				V1			kg		
				B3/B5			kg		
				Main T-Box Ass'y		3M-145860			
SPARE PARTS				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.

본 도면은 현대일렉트릭(주) 재산이므로  
허가없이 복사할 수 없음 (취급유의)

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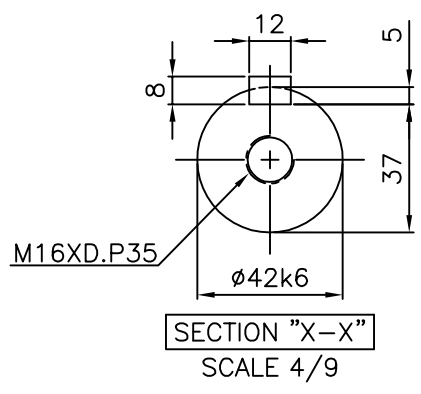
1		2		3		4			
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



**NOTE**

1. TOLERANCE :

CENTER HEIGHT	160	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 15$	$\begin{matrix} +0.43 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 42$	$\begin{matrix} +0.018 \\ +0.002 \end{matrix}$
KEYWAY WIDTH	12	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEYWAY DEPTH	5	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	12	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEY HEIGHT	8	$\begin{matrix} 0 \\ -0.090 \end{matrix}$



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.160L	DWG SIZE	A4 ( 1:9 )
CHKD BY	S.Y.KIM	SCALE	1/9	TITLE	OUTLINE		
CHKD BY	I.K.KIM	PROJEC'N	3각법(3rd Angle)				
DSND BY	S.H.LEE	DATE	2019.06.17				
				REF. NO		Sheet No.	of
				DWG NO	LM-T1165B3PLV01	Revision No.	0