



# AC INDUCTION MOTOR DATA SHEET

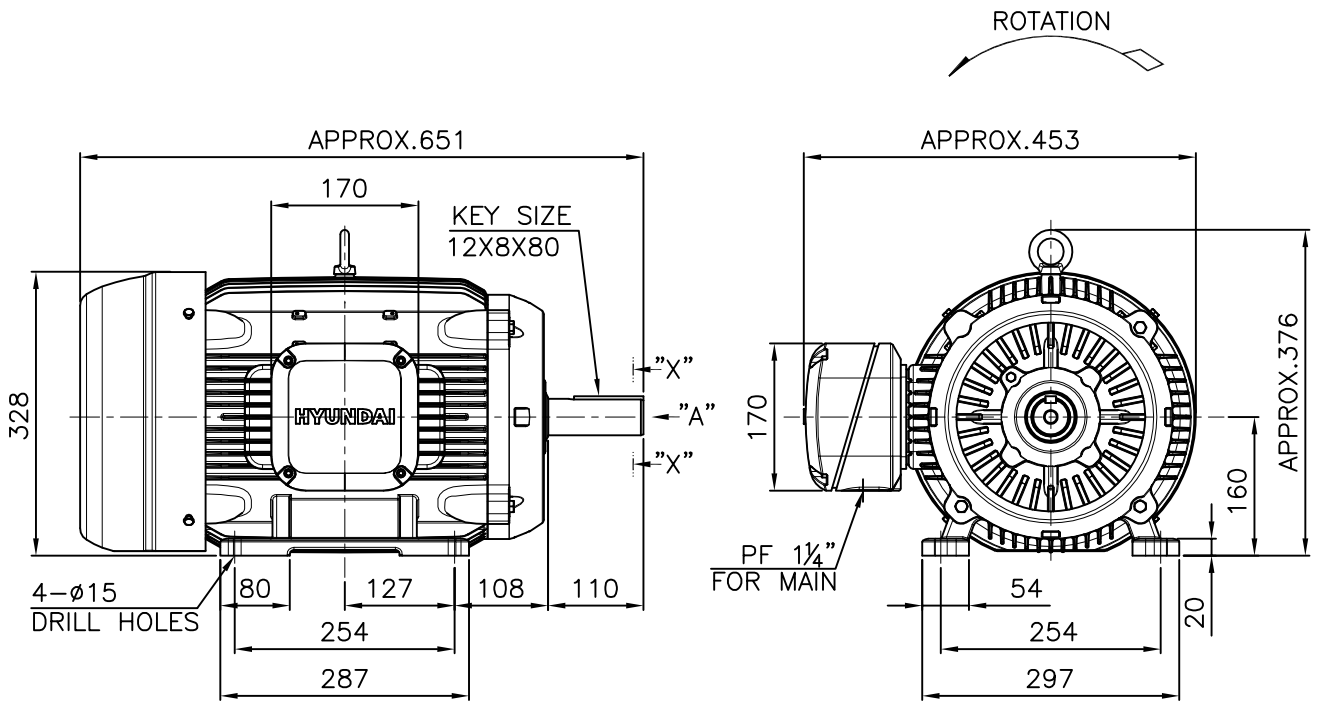
Model No.or RFQ No.		Item No.		Rev. No.		[ 0 ]							
Project Name		Project No.		Quantity		set							
<b>GENERAL SPECIFICATION</b>				<b>PERFORMANCE DATA</b>									
Frame Size		180M		Rated Output		22 kW      30 HP							
Type		HLP-22/4		Number of Poles		4							
Enclosure(Protection)		Totally Enclosed ( 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      37.7 A      43.7 A      75.4 A							
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**		865 %      865 %      865 %							
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 °C		50% Load		92.4 %							
Motor Location		<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load		93.4 %							
Altitude		Less than 1000m		100% Load		93.6 %							
Relative Humidity		Less than 80 %		Power Factor(p.u)									
Ambient Temp.		40 °C MAX.		50% Load		0.641							
Duty Type		Continuous(S1)		75% Load		0.759							
Service Factor		1.15		100% Load		0.818							
Mounting		<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load		1775 r.p.m							
Bearing		Type		Torque									
		DE/N-DE		Full Load		12.1 kg.m							
		Lubricant		Locked-rotor**		170 %							
External Thrust		Not applicable		Breakdown**		220 %							
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.)		18.10816901 kg·m <sup>2</sup>							
Terminal Box		Main		Motor		0.235 kg·m <sup>2</sup>							
		Aux.		Sound Pressure Level (No-load & mean value at 1m from motor)									
		Location		<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		66 dB(A)							
Application				Vibration									
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							
<b>ACCESSORIES</b>				<b>SUBMITTAL DRAWING</b>									
				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									
<b>REMARK</b>				*.Premium Efficiency(IE3) *.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise									
<b>SPARE PARTS</b>				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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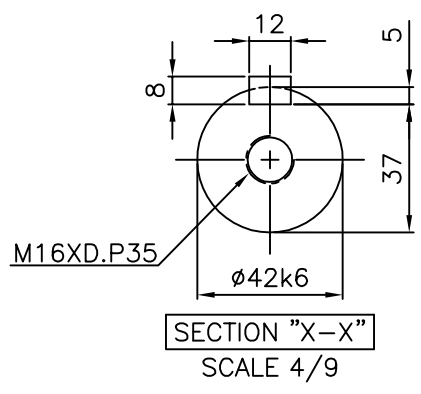
1		2		3		4			
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



**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 ( 1:1 )
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