



# AC INDUCTION MOTOR DATA SHEET

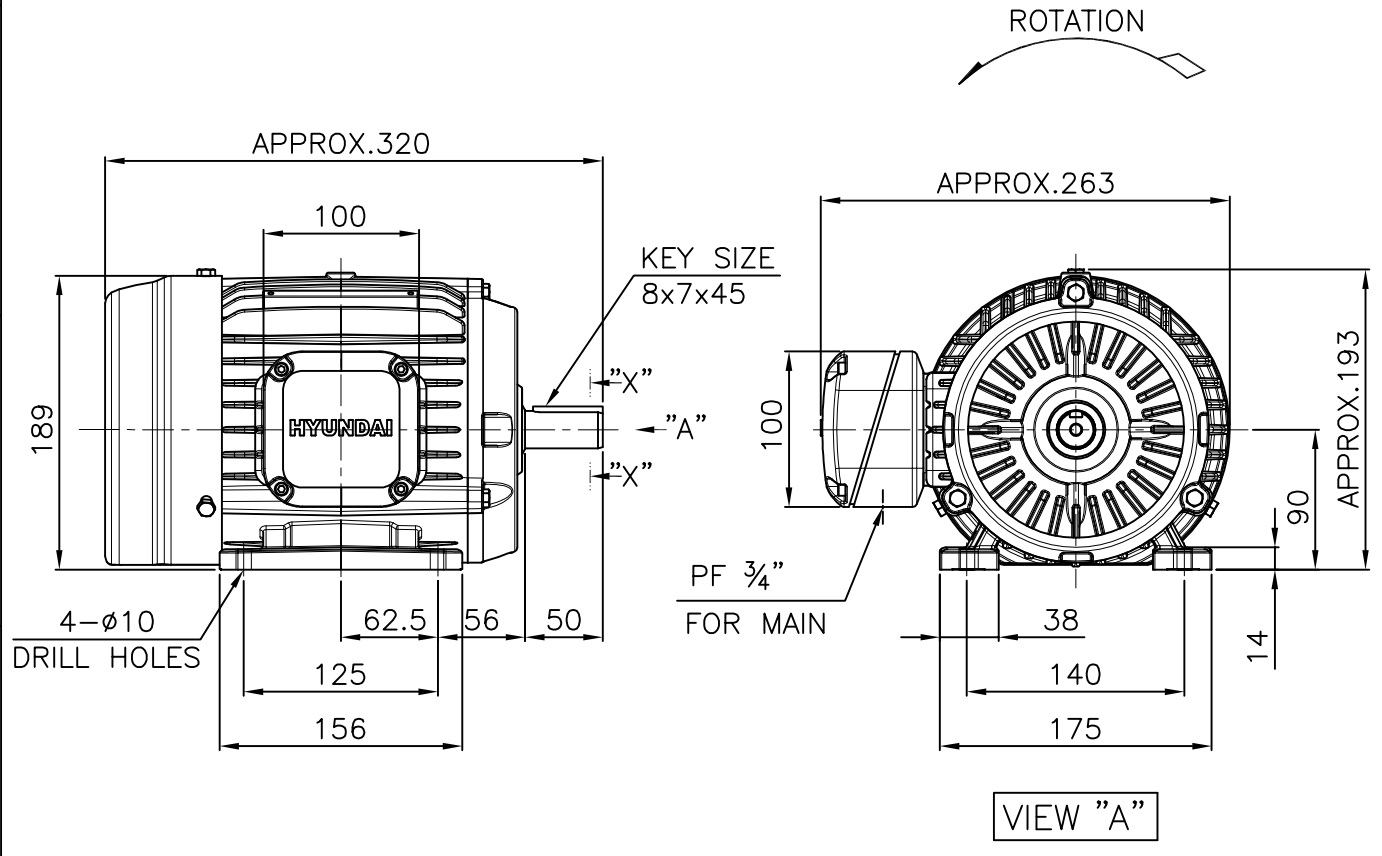
Model No.or RFQ No.		Item No.		Rev. No.		[ 0 ]							
Project Name		Project No.		Quantity		set							
<b>GENERAL SPECIFICATION</b>				<b>PERFORMANCE DATA</b>									
Frame Size		90L		Rated Output		1.5 kW      2 HP							
Type		HLP-1.5/2		Number of Poles		2							
Enclosure(Protection)		Totally Enclosed ( 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      2.7 A      3.1 A      5.4 A							
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**		890 %      890 %      890 %							
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 °C		50% Load		83.3 %							
Motor Location		<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load		85.5 %							
Altitude		Less than 1000m		100% Load		85.5 %							
Relative Humidity		Less than 80 %		Power Factor(p.u)									
Ambient Temp.		40 °C MAX.		50% Load		0.728							
Duty Type		Continuous(S1)		75% Load		0.818							
Service Factor		1.15		100% Load		0.860							
Mounting		<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load		3480 r.p.m							
Bearing	Type	Anti-Friction		Torque									
	DE/N-DE	6205ZZ / 6204ZZ		Full Load		0.4 kg.m							
	Lubricant	Grease(HIFLEX L-3)		Locked-rotor**		340 %							
External Thrust		Not applicable		Breakdown**		260 %							
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.)		0.503793103 kg·m <sup>2</sup>							
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor		0.002 kg·m <sup>2</sup>							
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sound Pressure Level (No-load & mean value at 1m from motor)									
	Location	Refer to Outline Drawing		58 dB(A)									
Application				Vibration									
Area classification		Non-Hazardous		1.6 mm/sec(r.m.s)									
Type of Ex-Protection		Not applicable		Permissible number of consecutive starts		Cold 3 times							
Applicable Standard		KS, IEC, NEMA MG1 Part30(Vpeak)		Hot		2 times							
				Paint		Munsell No. Panton279C							
<b>ACCESSORIES</b>				<b>SUBMITTAL DRAWING</b>									
				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							
<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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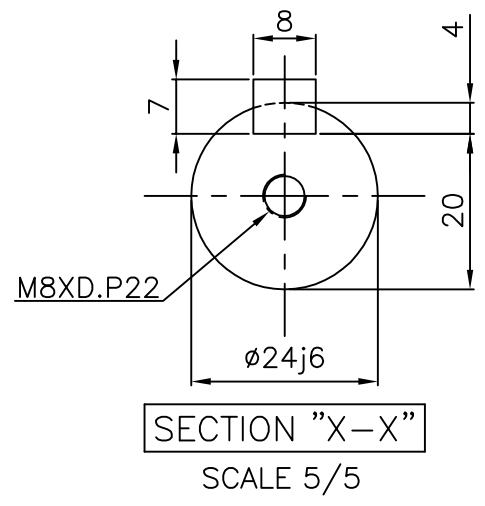
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



**NOTE**

1.TOLERANCE :

CENTER HEIGHT	90	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 10$	$\begin{matrix} +0.36 \\ 0 \end{matrix}$
SHAFT DIAMETER	$\phi 24$	$\begin{matrix} +0.009 \\ -0.004 \end{matrix}$
KEYWAY WIDTH	8	$\begin{matrix} 0 \\ -0.036 \end{matrix}$
KEYWAY DEPTH	4	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	8	$\begin{matrix} 0 \\ -0.036 \end{matrix}$
KEY HEIGHT	7	$\begin{matrix} 0 \\ -0.090 \end{matrix}$



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.90L	DWG SIZE	A4 ( 1/6 )
CHKD BY	S.Y.KIM	SCALE	1/6			TITLE	OUTLINE
CHKD BY	I.K.KIM	PROJEC'N	3각법(3rd Angle)	REF. NO		Sheet No.	of
DSND BY	S.H.LEE	DATE	2019.06.18	DWG NO	LM-T1095B3PLV01	Revision No.	0

