



AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.	Rev. No.	[0]
Project Name		Project No.	Quantity	sets

GENERAL SPECIFICATION		PERFORMANCE DATA			
Frame Size	250M	Rated Output	90 kW	120 HP	
Type	HLP-90/2	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	137.4 A	159.0 A 274.7 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H	Locked-rotor**	770 %	770 %	770 %
Temp. Rise at full load (by resistance method)		Efficiency			
at 1.0 S.F		80 deg. C			
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	50% Load		93.5 %	
Altitude	Less than 1000 meter	75% Load		95.0 %	
Relative Humidity	Less than 80 %	100% Load		95.0 %	
Ambient Temp.	40 deg. C (Max.)	Power Factor(p.u)			
Duty Type	Continuous (S1)	50% Load		0.875	
Service Factor	1.15	75% Load		0.895	
Mounting	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input checked="" type="checkbox"/> B3/B5	100% Load		0.905	
Bearing	Type	Anti-Friction			
	DE/N-DE	6313C3 / 6313C3			
	Lubricant	Grease(Gadus S2 V 100 2)			
External Thrust	Not applicable				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Speed at Full Load			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	3570 r.p.m			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Torque		
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Full Load		
Location	Refer to Outline Drawing		24.6 kg·m		
Application		Locked-rotor**			130 %
Area classification	Non-Hazardous	Breakdown**			230 %
Type of Ex-Protection	Not applicable	Moment of Inertia (J)			
Applicable Standard	KS,IEC, NEMA MG1 Part30(Vpeak)	Load(Max.)		10.050 kg·m ²	
		Motor		1.143 kg·m ²	
		Sound Pressure Level (No-load & mean value at 1m from motor)			
		88 dB(A)			
		Vibration			
		2.2 mm/sec (r.m.s)			
		Permissible number of consecutive starts		Cold 3 times	
				Hot 2 times	
		Paint	Munsell No.	4.4PB5.5/5.6(VL-451)	

ACCESSORIES	SUBMITTAL DRAWING
	Outline Dimension Drawing \ Motor Weight(Approx.)
	B3 LM-T1253B3CL001 530 kg
	B5 LM-T1250B5CL001 570 kg
	V1 LM-T1250V1CL001 570 kg
	B3/B5 LM-T1253B4CL001 550 kg
	Main T-Box Ass'y 3M-016882

SPARE PARTS	REMARK
	Premium Efficiency
	*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise

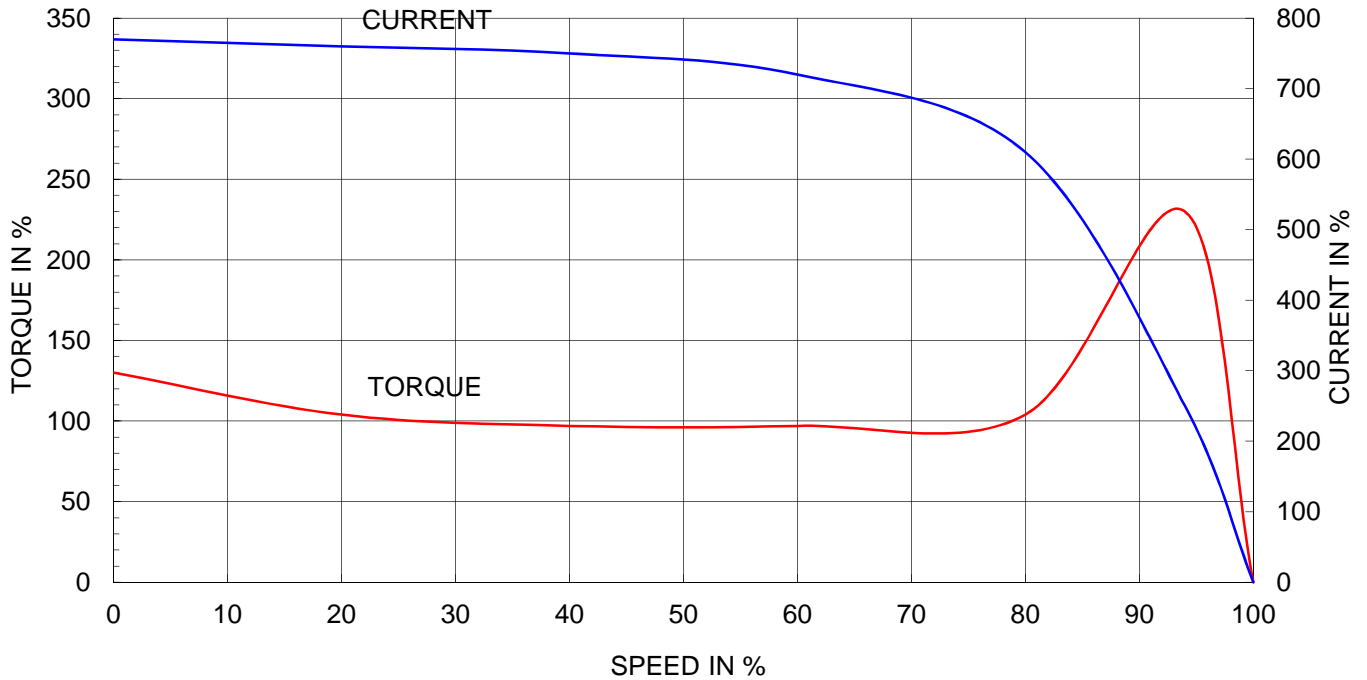
Date	DSND	CHKD	CHKD	APPD
2015-09-05	R.G. KIM	-	O.J. KIM	S.H. GO

Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 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.
 ** Data is based on when the motor is supplied at rated voltage & frequency, and the data is expressed as a percentage of full-load value.

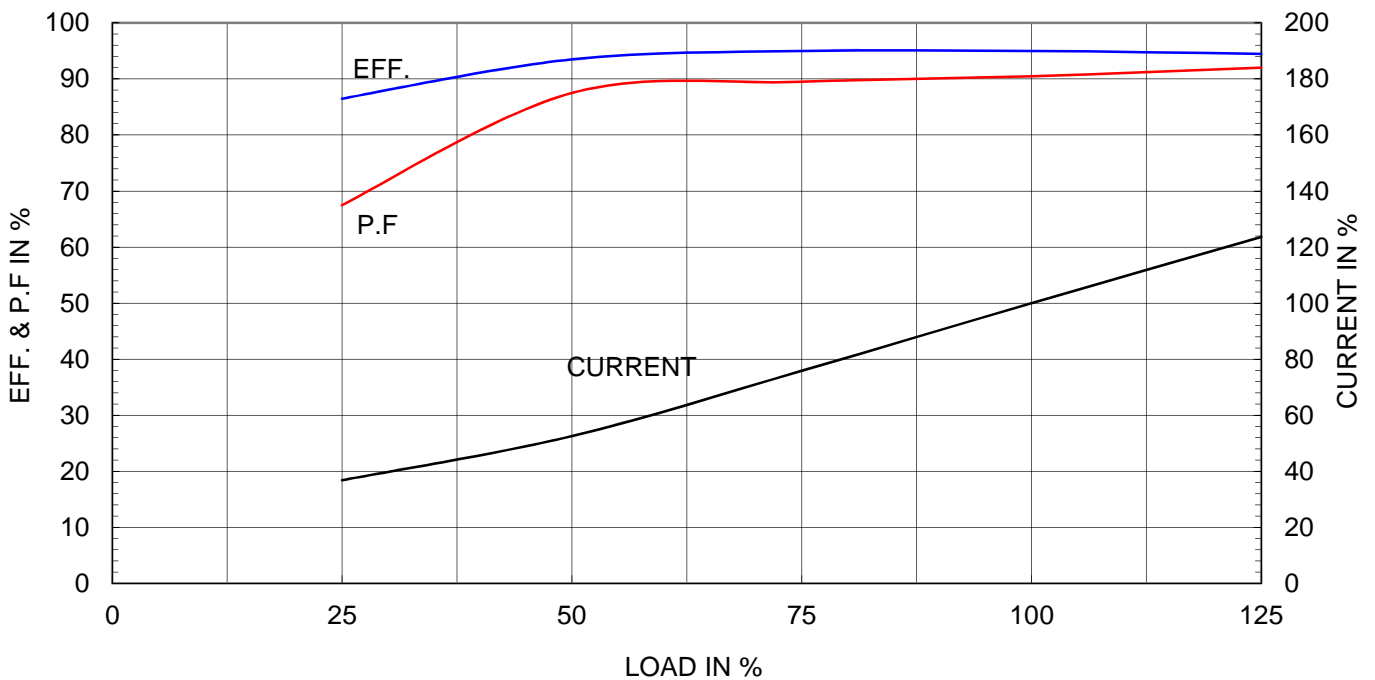
Type	:	HLP-90/2
Full Load Torque	:	24.6 Kg.m
Motor moment of Inertia (J)	:	1.143 Kg.m ²
Load moment of Inertia (J)	:	10.050 Kg.m ²

90 kW	2 P	60 Hz	
Speed at Full Load :			
3570 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	137.4A	159.0A	274.7A

SPEED VS TORQUE & CURRENT CURVE



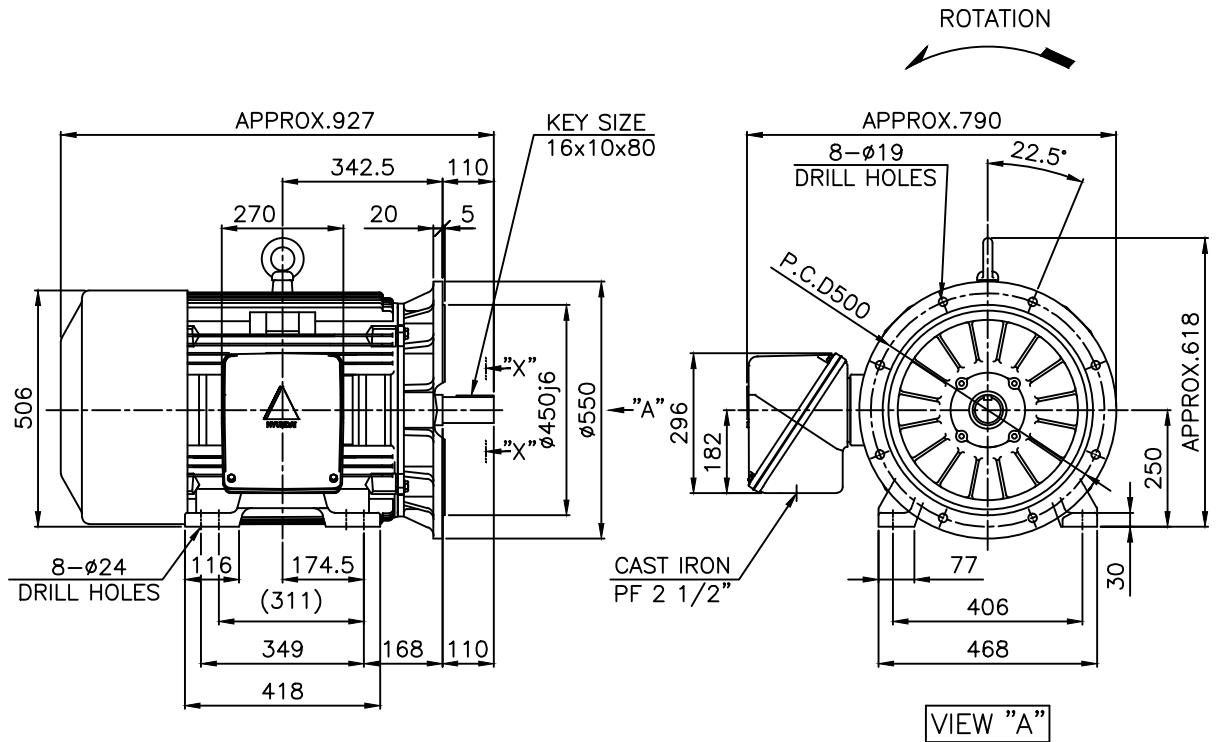
OUTPUT VS EFF., P.F & CURRENT CURVE



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

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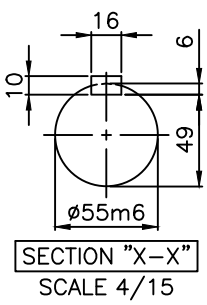
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



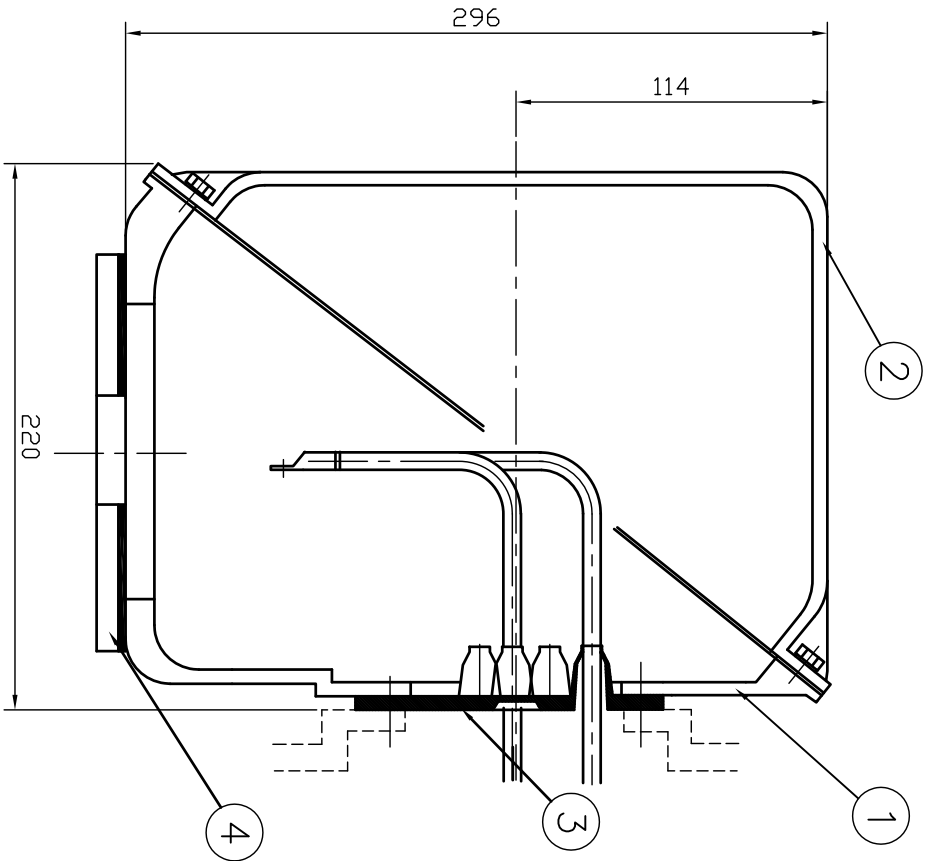
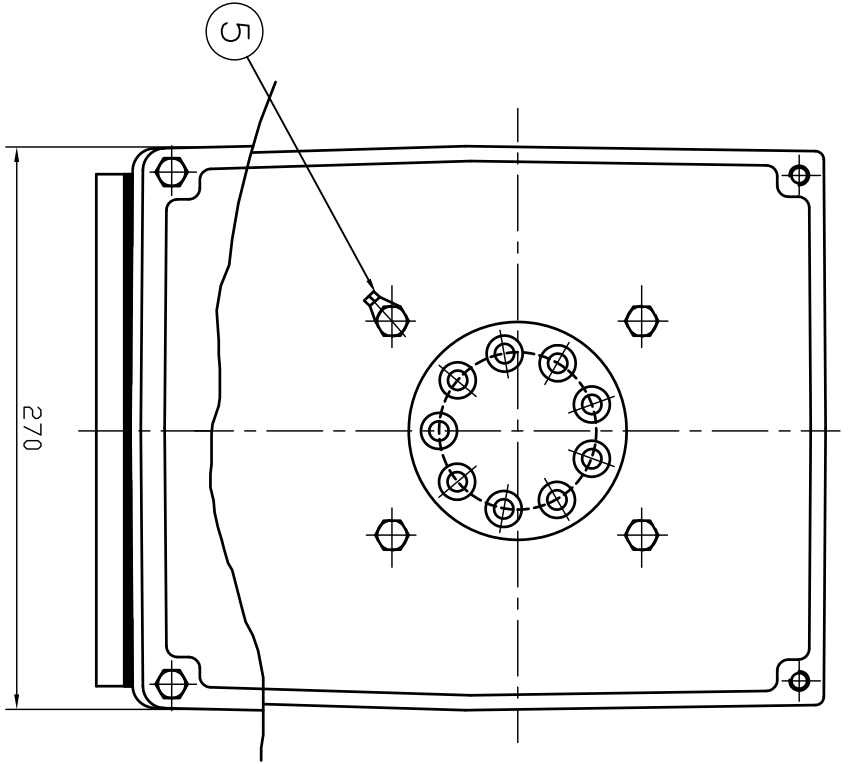
NOTE

1.TOLERANCE :

CENTER HEIGHT	250	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	ø24	$\begin{matrix} +0.52 \\ 0 \end{matrix}$
FLANGE HOLES	ø19	$\begin{matrix} +0.52 \\ 0 \end{matrix}$
RABBET DIAMETER	ø450	± 0.020
SHAFT DIAMETER	ø55	$\begin{matrix} +0.030 \\ +0.011 \end{matrix}$
KEYWAY WIDTH	16	$\begin{matrix} -0.018 \\ -0.061 \end{matrix}$
KEYWAY DEPTH	6	$\begin{matrix} +0.2 \\ 0 \end{matrix}$
KEY WIDTH	16	$\begin{matrix} 0 \\ -0.043 \end{matrix}$
KEY HEIGHT	10	$\begin{matrix} 0 \\ -0.090 \end{matrix}$



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.250M-2P	DWG SIZE	A4 (1:15)
CHKD BY	S.Y.KIM	SCALE	1/15	TITLE	OUTLINE		
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	REF. NO		Sheet No.	of
DSND BY	S.H.YUN	DATE	2018-08-28	DWG NO	LM-T1253B4CL001	Revision No.	1



REV	DATE	CONTENTS	REV'D BY	CHK'D BY	Q.P. CHK	APP'D BY
1						

1	EARTH TERMINAL LUG					5
1	CABLE ENTRY PLATE					4
1	GASKET	NBR				3
1	TERMINAL BOX COVER	CAST IRON				2
1	TERMINAL BOX BODY	CAST IRON				1

APP'D BY	권진오	UNIT	MM
Q.P. CHK	주영철	SCALE	NONE
CHK'D BY	권오철	PROJEC'N	3 권(3rd Angle)
DSND BY	김헌태	DATE	92.06.05

TITLE	TERMINAL BOX ASS'Y
SUBJECT	HLA6 - 250,280Fr.
REMARK	CAD PROJ. \ FILE T-BOX-M \ 38016882

REF. NO	DWG NO	3M-016882	Sheet No. of
			Revision No.

