



AC INDUCTION MOTOR DATA SHEET

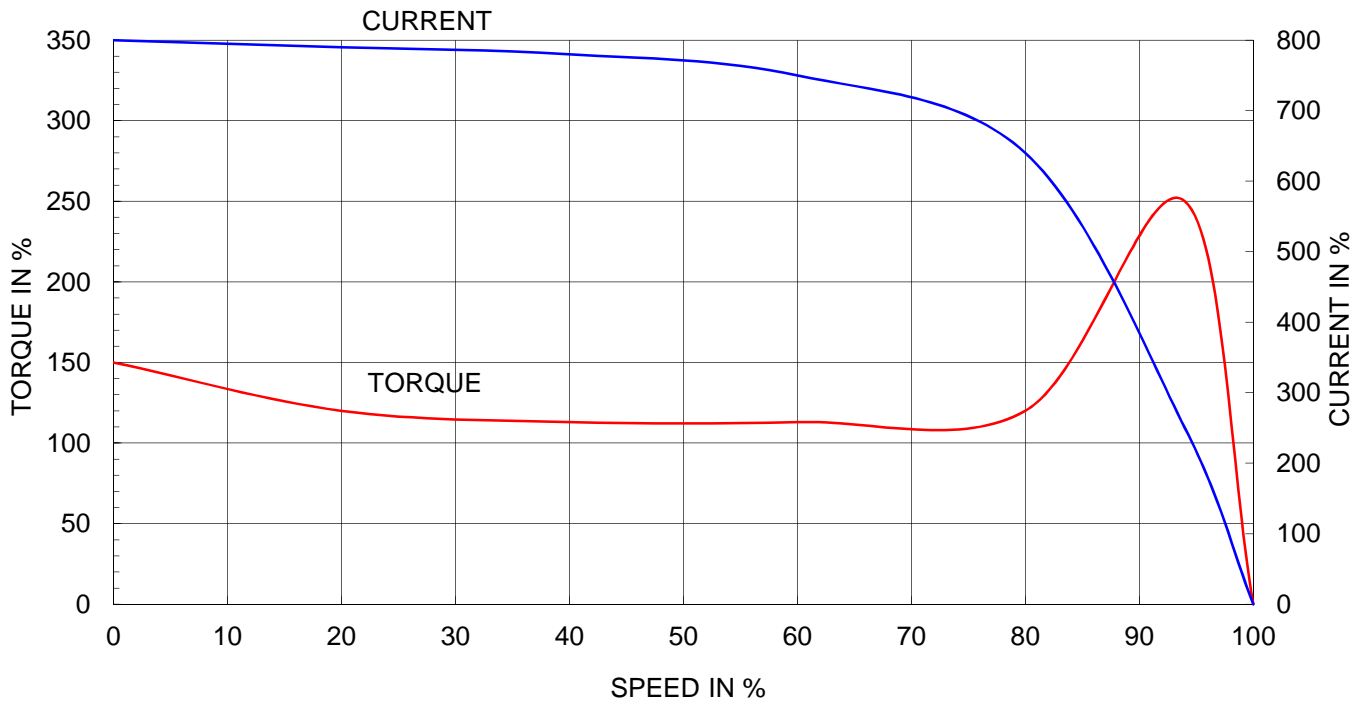
Model No.or RFQ No.		Item No.		Rev. No. [0]	
Project Name		Project No.		Quantity sets	
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	225S		Rated Output	55 kW 75 HP	
Type	HLP-55/2		Number of Poles	2	
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage	
Method of Cooling	IC411(FC)		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	84.3 A 97.6 A 168.5 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H			Locked-rotor**	800 % 800 % 800 %
Temp. Rise at full load (by resistance method) at 1.0 S.F			Efficiency		
80 deg. C			50% Load 92.1 %		
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load 93.6 %		
Altitude	Less than 1000 meter		100% Load 93.6 %		
Relative Humidity	Less than 80 %		Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)		50% Load 0.853		
Duty Type	Continuous (S1)		75% Load 0.899		
Service Factor	1.15		100% Load 0.915		
Mounting	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Speed at Full Load 3570 r.p.m		
Bearing	Type	Anti-Friction		Torque	
	DE/N-DE	6213C3 / 6213C3		Full Load 15.0 kg·m	
	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor** 150 %	
External Thrust	Not applicable		Breakdown** 250 %		
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.) 5.750 kg·m ²		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor 0.628 kg·m ²	
	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		
Application			Vibration 2.2 mm/sec (r.m.s)		
Area classification			Non-Hazardous		
Type of Ex-Protection			Not applicable		
Applicable Standard			KS,IEC, NEMA MG1 Part30(Vpeak)		
Paint			Munsell No. 4.4PB5.5/5.6(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING		
			Outline Dimension Drawing \ Motor Weight(Approx.)		
			B3	LM-T1221B3CL001	350 kg
			B5	LM-T1225B5CL001	390 kg
			V1	LM-T1225V1CL001	390 kg
			B3/B5	LM-T1221B4CL001	375 kg
			Main T-Box Ass'y		
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.

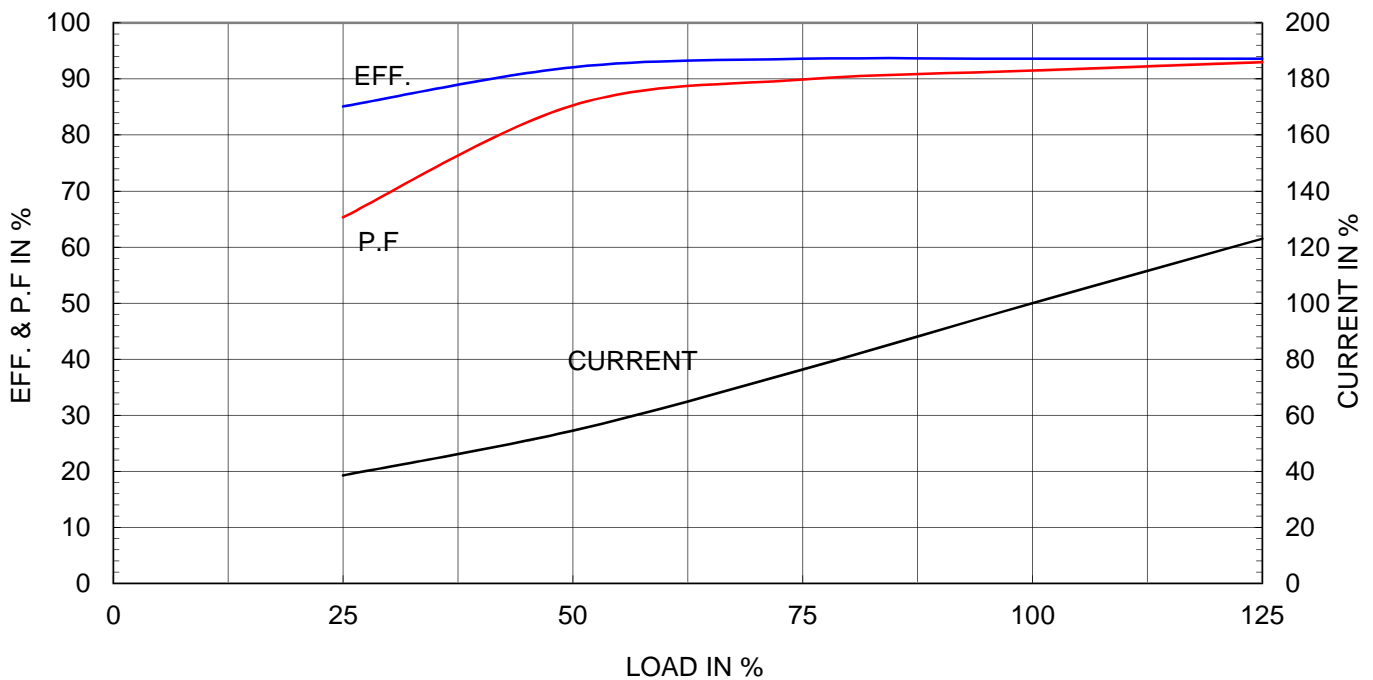
Type	:	HLP-55/2
Full Load Torque	:	15.0 Kg.m
Motor moment of Inertia (J)	:	0.628 Kg.m ²
Load moment of Inertia (J)	:	5.750 Kg.m ²

55 kW	2 P	60 Hz	
Speed at Full Load :			
3570 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	84.3A	97.6A	168.5A

SPEED VS TORQUE & CURRENT CURVE



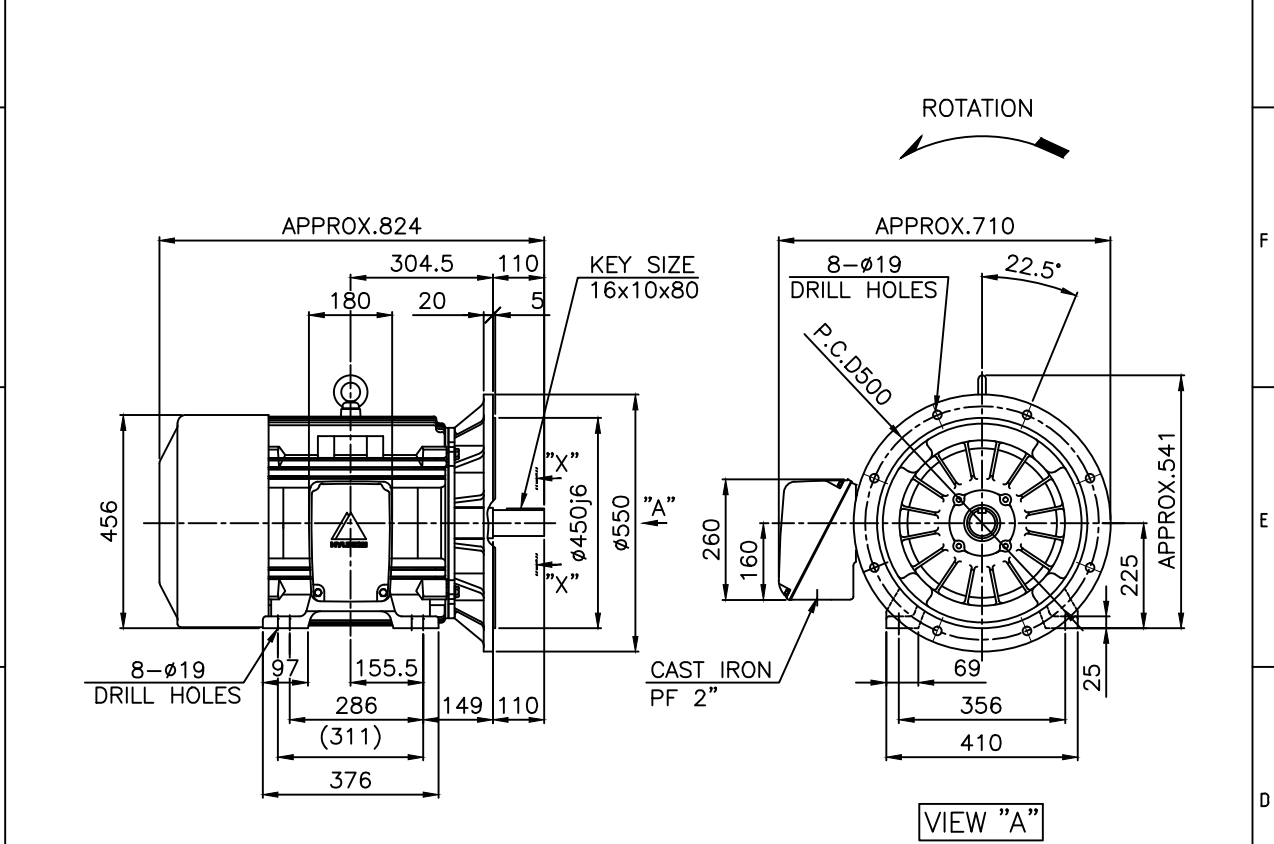
OUTPUT VS EFF., P.F & CURRENT CURVE



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

THIS DRAWING IS PROPRIETARY TO HYUNDAI ELECTRIC. NO PART OF THIS DRAWING
MAY BE REPRODUCED WITHOUT THE PERMISSION OF HYUNDAI ELECTRIC.

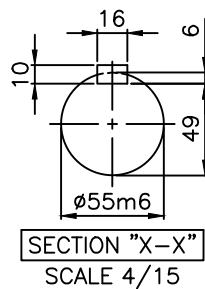
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



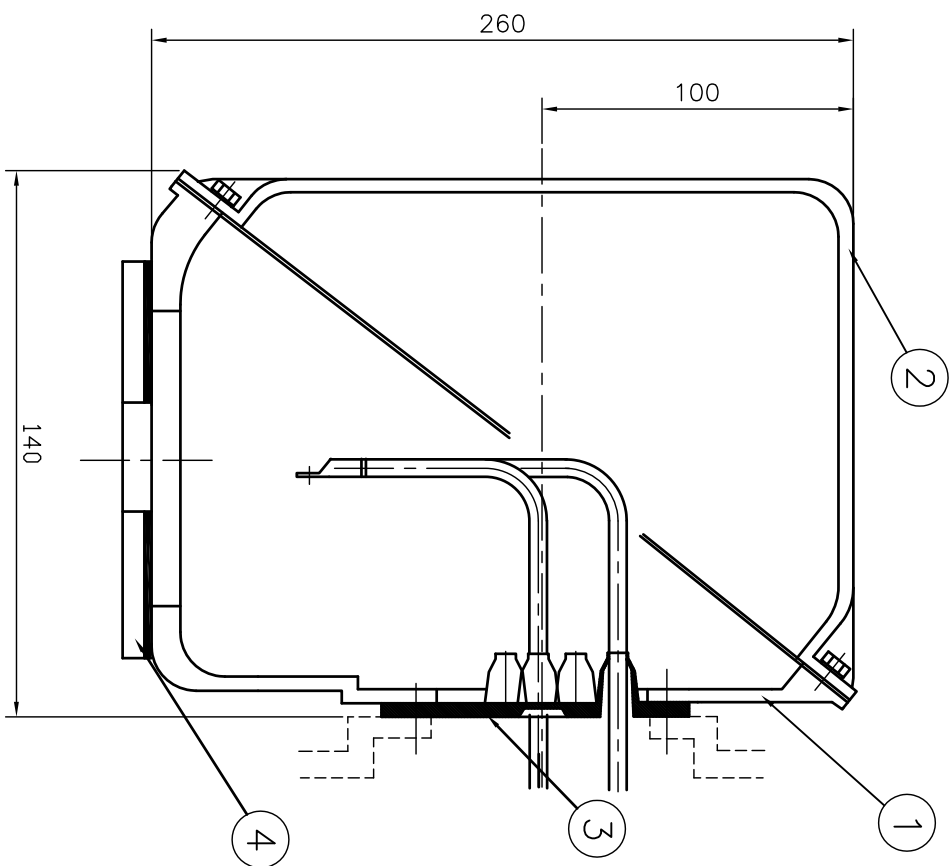
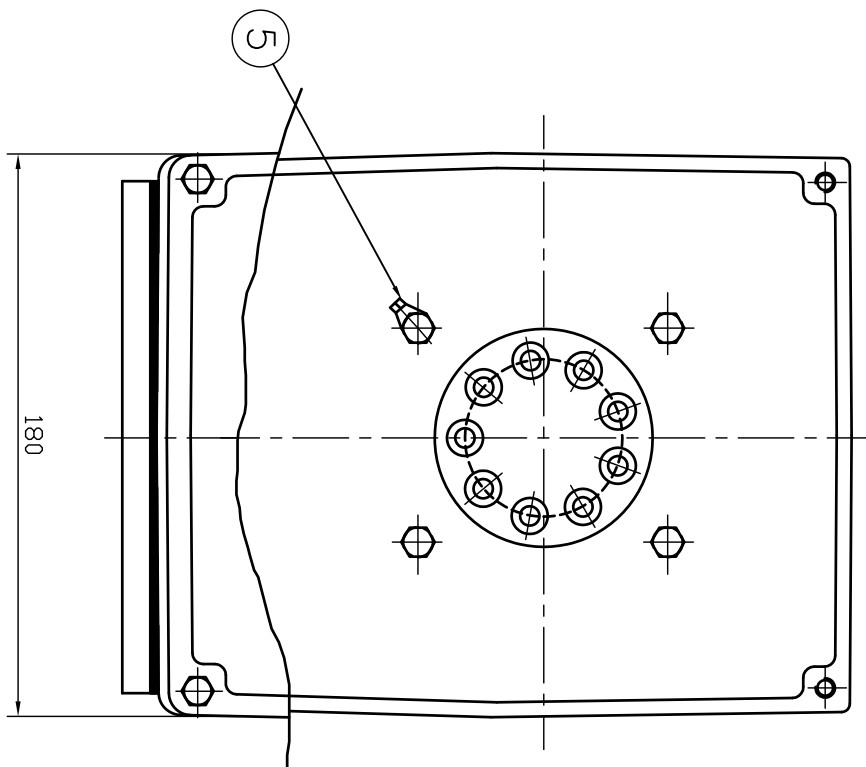
NOTE

1.TOLERANCE :

CENTER HEIGHT	225	$\begin{matrix} 0 \\ -0.5 \end{matrix}$
BASE HOLES	$\phi 19$	$\begin{matrix} +0.52 \\ 0 \end{matrix}$
FLANGE HOLES	$\phi 19$	$\begin{matrix} +0.52 \\ 0 \end{matrix}$
RABBET DIAMETER	$\phi 450$	± 0.020
SHAFT DIAMETER	$\phi 55$	$\begin{matrix} +0.030 \\ +0.011 \end{matrix}$
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.225S-2P	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/15			A4 (1:15)
CHKD BY	R.G.KIM	PROJEC'N	3각법 (3rd Angle)	TITLE OUTLINE		
DSND BY	S.H.YUN	DATE	2018-08-14			
				REF. NO		Sheet No. of
				DWG NO	LM-T1221B4CL001	Revision No. 1



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

QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
1	EARTH TERMINAL LUG					
1	CABLE ENTRY PLATE					
1	GASKET	NBR				
1	TERMINAL BOX COVER	CAST IRON				
1	TERMINAL BOX BODY	CAST IRON				

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

REF. NO	DWG NO	Sheet No. of
	3M-016881	Revision No. 0

SUBJECT		HLA6 - 200, 225Fr.
TITLE		(CAST IRON) TERMINAL BOX ASS'Y

