

# AC INDUCTION MOTOR DATA SHEET

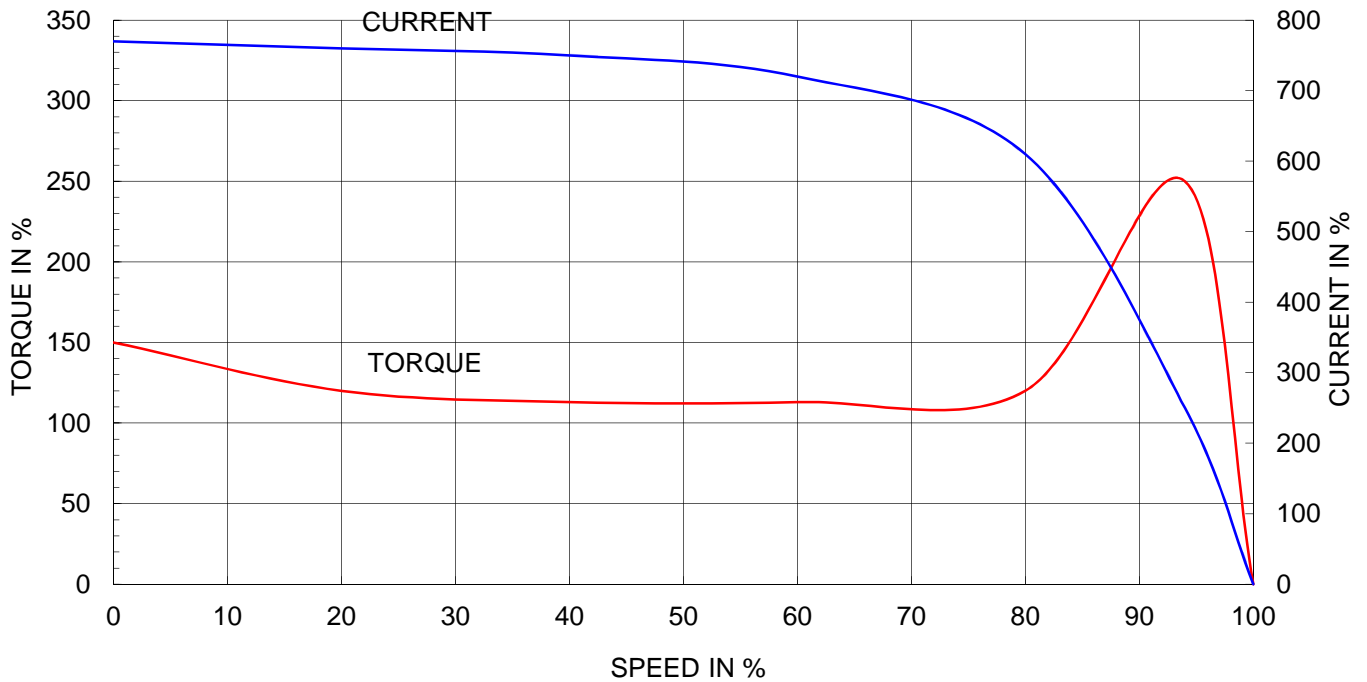
Model No. or RFQ No.		Item No.		Rev. No. [ 0 ]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	280M		Rated Output	132 kW    175 HP			
Type	HLP-132/2		Number of Poles	2			
Enclosure(Protection)	Totally Enclosed ( IP55 )		Rotor Type	Squirrel Cage			
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	198.4 A    229.8 A    396.8 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			50% Load    93.9 %				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load    95.4 %				
Altitude	Less than 1000 meter		100% Load    95.4 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load    0.875				
Duty Type	Continuous ( S1 )		75% Load    0.895				
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    6314C3 / 6314C3		Full Load    36.0 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.)    14.380 kg·m²				
Terminal Box	Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Motor    2.400 kg·m²				
	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			92 dB(A)				
Application			Vibration    2.2 mm/sec (r.m.s)				
Area classification    Non-Hazardous			Permissible number of consecutive starts				
Type of Ex-Protection    Not applicable			Cold    3 times				
Applicable Standard    KS,IEC, NEMA MG1 Part30(Vpeak)			Hot    2 times				
			Paint    Munsell No.    4.4PB5.5/5.6(VL-451)				
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		LM-T1283B3CL001	800 kg	
			B5		LM-T1280B5CL001	870 kg	
			V1		LM-T1280V1CL001	870 kg	
			B3/B5		LM-T1283B4CL001	835 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.

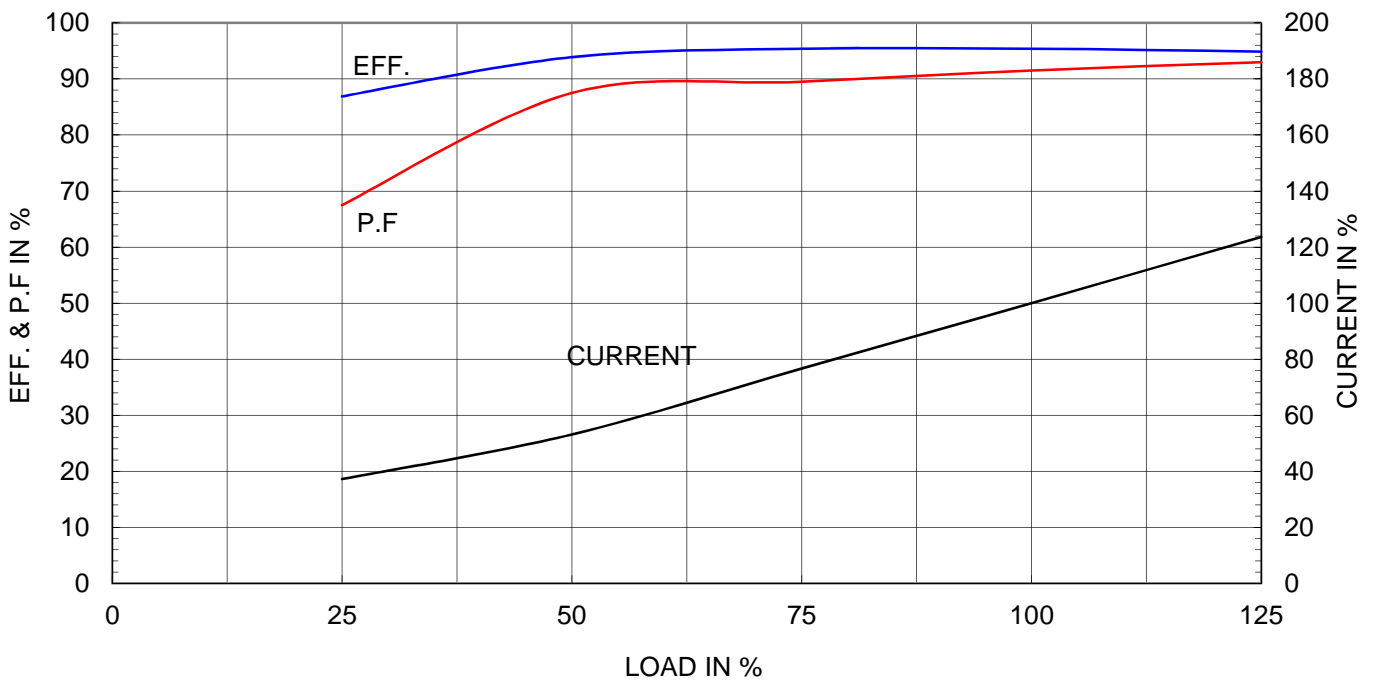
Type	:	HLP-132/2
Full Load Torque	:	36.0 Kg.m
Motor moment of Inertia (J)	:	2.400 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	14.380 Kg.m <sup>2</sup>

132 kW	2 P	60 Hz	
Speed at Full Load :			
3570 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	198.4A	229.8A	396.8A

SPEED VS TORQUE & CURRENT CURVE



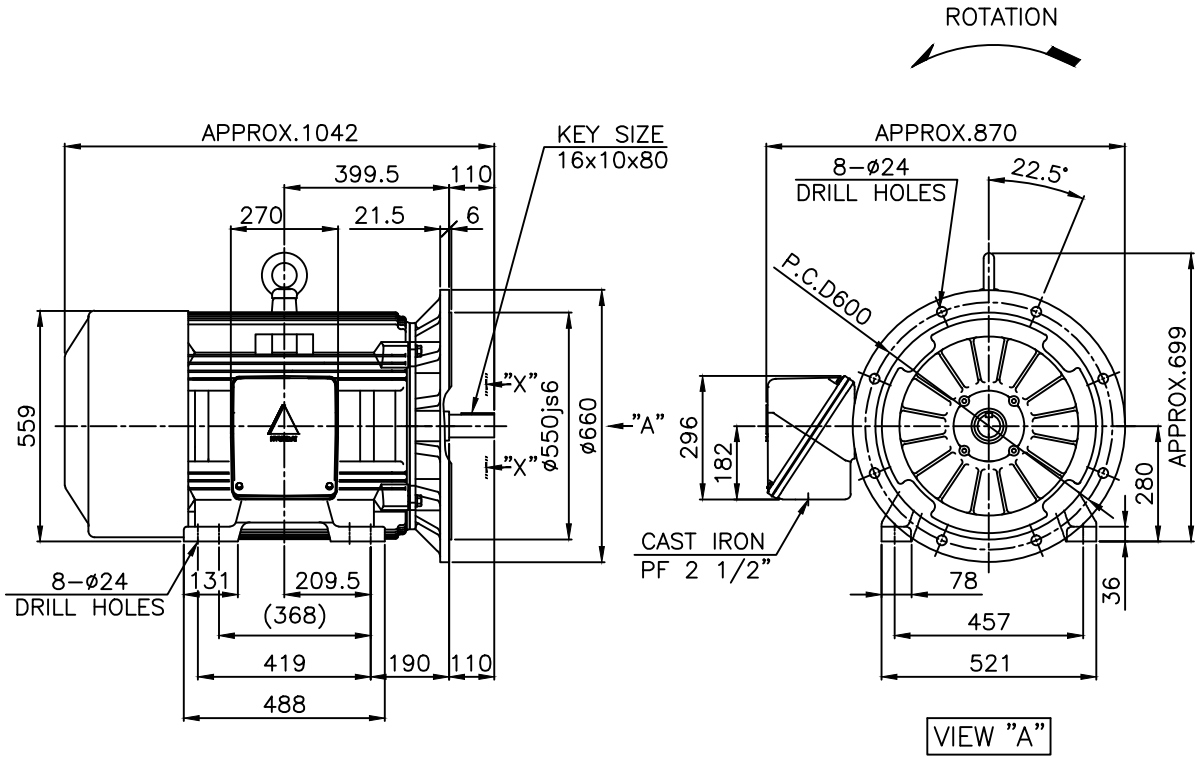
OUTPUT VS EFF., P.F & CURRENT CURVE



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

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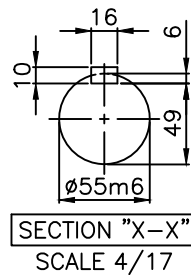
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		
		CONTENTS	REVD BY
			CHKD BY
			CHKD BY
			APPD BY



NOTE

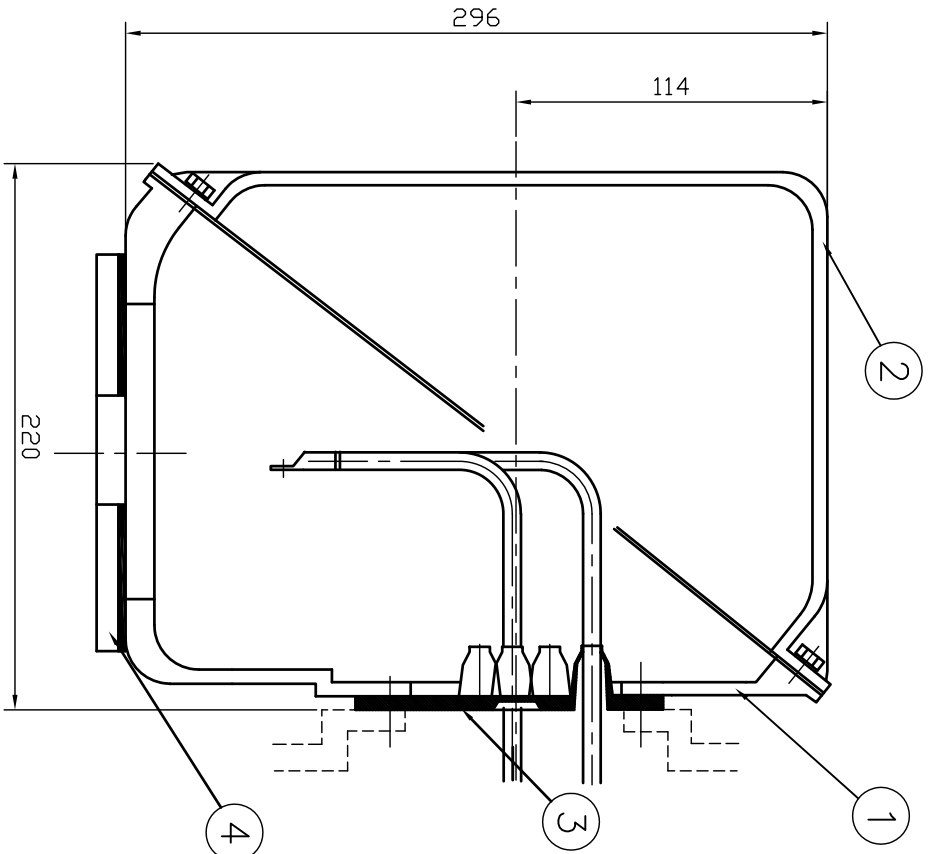
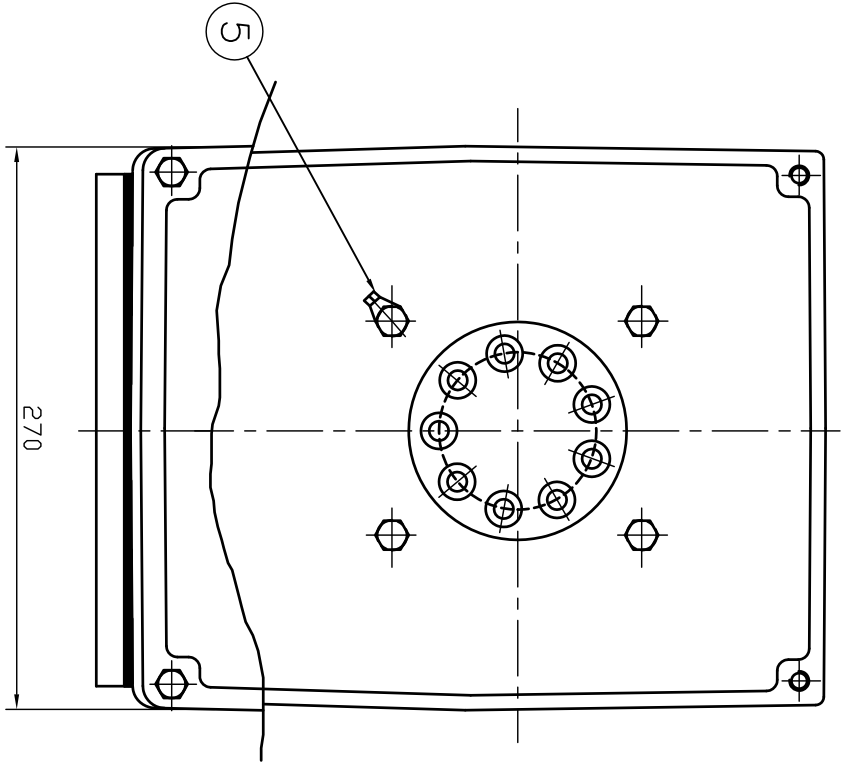
1. TOLERANCE :

CENTER HEIGHT	280	$\begin{matrix} 0 \\ -1.0 \end{matrix}$
BASE HOLES	$\phi 24$	$\begin{matrix} +0.52 \\ 0 \end{matrix}$
FLANGE HOLES	$\phi 24$	$\begin{matrix} +0.52 \\ 0 \end{matrix}$
RABBET DIAMETER	$\phi 550$	$\pm 0.022$
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.280M-2P	DWG SIZE	A4 ( 1:17 )
CHKD BY	S.Y.KIM	SCALE	1/17	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-T1283B4CL001	Revision No.	1

본 도면은 현대중전기(주) 재산이므로 허가없이  
복사할 수 없음 (도면취급 시 유의하시기 바람.)



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														
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.																	
APPD BY	권진오	UNIT	MM																					
Q.P CHK	주영철	SCALE	NONE																					
CHKD BY	권오철	PROJEC'N	3 레벨(3rd Angle)																					
DSND BY	김헌태	DATE	92.06.05																					
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