

# 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	250S	Rated Output	75 kW	100 HP
Type	HLP-75/2	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	115.6 A    133.8 A    231.1 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H	Locked-rotor**	760 %	760 %    760 %
Temp. Rise at full load (by resistance method)		Efficiency		
at 1.0 S.F	80 deg. C	50% Load	92.0 %	
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load	94.1 %	
Altitude	Less than 1000 meter	100% Load	94.1 %	
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	0.905	
Mounting	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input checked="" type="checkbox"/> B3/B5	Speed at Full Load	3570 r.p.m	
Bearing	Type	Anti-Friction	Torque	
	DE/N-DE	6313C3 / 6313C3	Full Load	20.5 kg·m
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor**	130 %
External Thrust	Not applicable		Breakdown**	230 %
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.)	9.050 kg·m <sup>2</sup>	
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor	1.053 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		87 dB(A)	
Application		Vibration	2.2 mm/sec (r.m.s)	
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.	4.4PB5.5/5.6(VL-451)

ACCESSORIES	SUBMITTAL DRAWING			
	Outline Dimension Drawing	Motor Weight(Approx.)		
	B3	LM-T1251B3CL001	500	kg
	B5	LM-T1250B5CL001	540	kg
	V1	LM-T1250V1CL001	540	kg
	B3/B5	LM-T1251B4CL001	520	kg
	Main T-Box Ass'y	3M-016882		

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

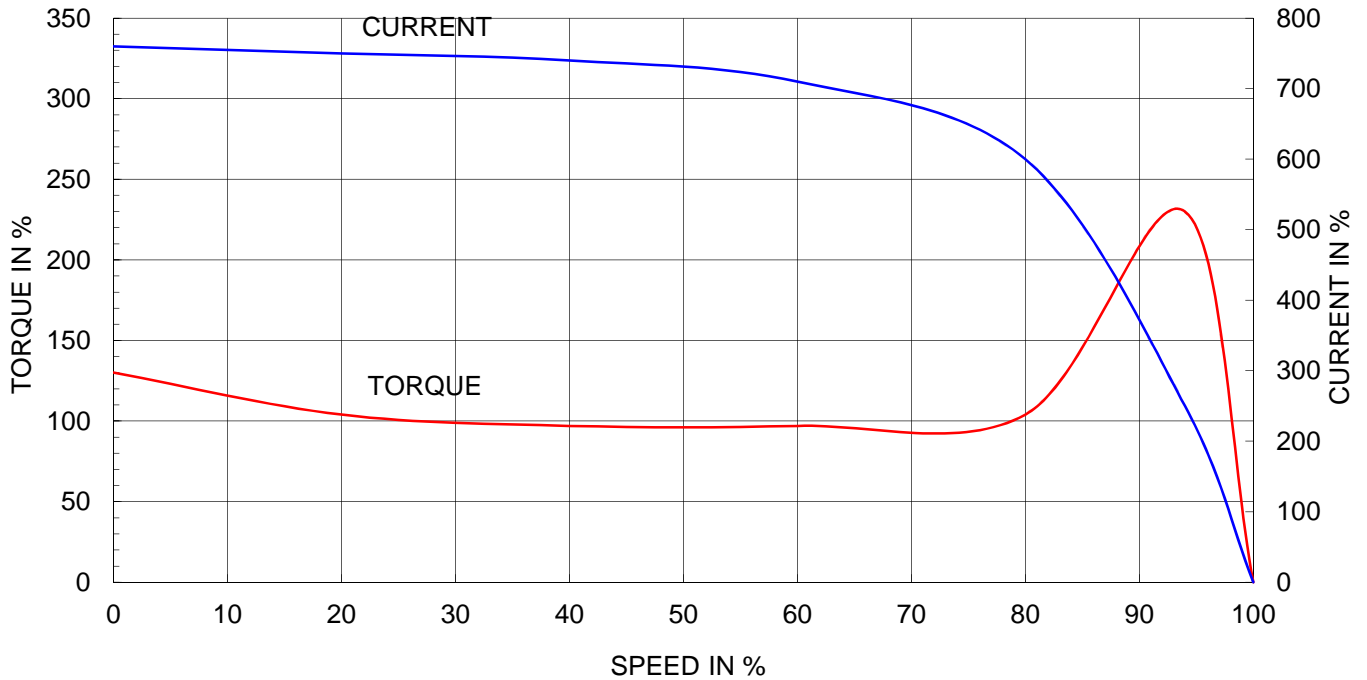
Date	DSND	CHKD	CHKD	APPD
2015-09-05	R.G. KIM	-	O.J. KIM	S.H. GO

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.

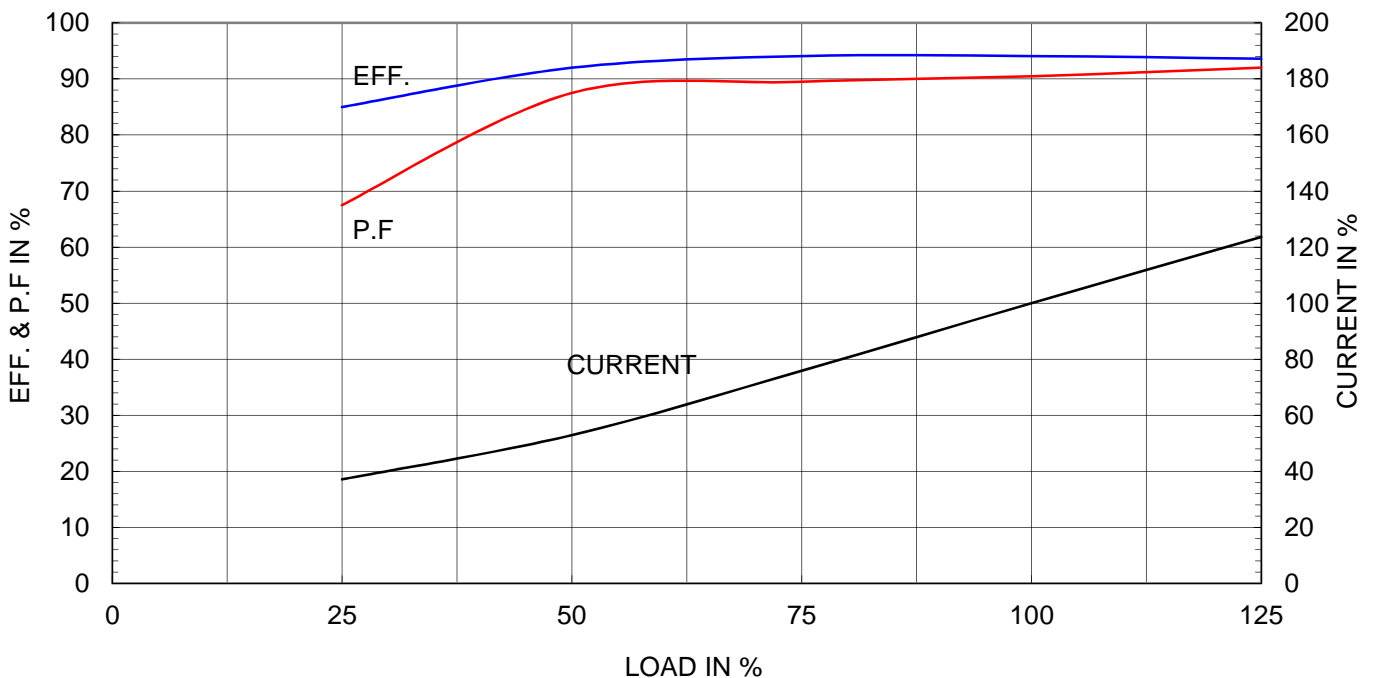
Type	:	HLP-75/2
Full Load Torque	:	20.5 Kg.m
Motor moment of Inertia (J)	:	1.053 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	9.050 Kg.m <sup>2</sup>

75 kW	2 P	60 Hz	
Speed at Full Load :			
3570 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	115.6A	133.8A	231.1A

SPEED VS TORQUE & CURRENT CURVE



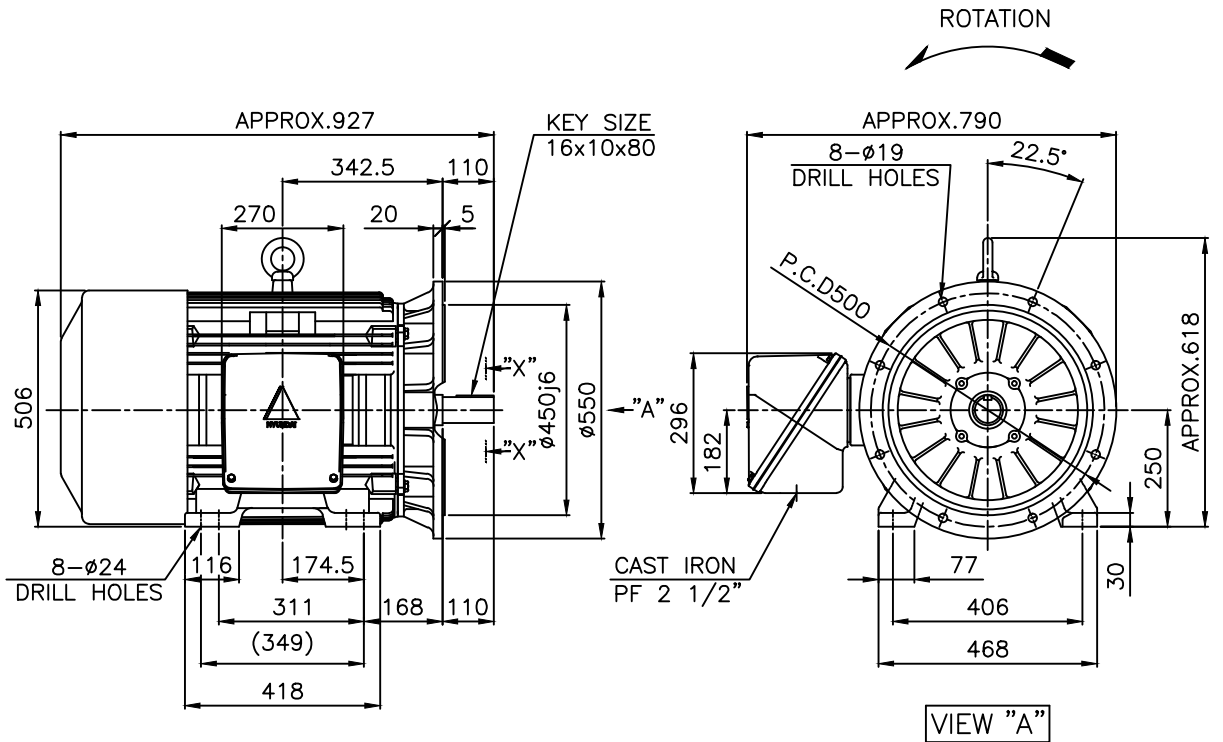
OUTPUT VS EFF., P.F & CURRENT CURVE



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

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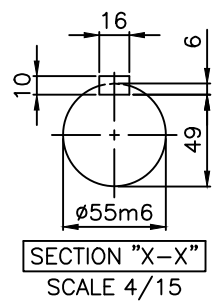
	1	2	3	4				
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



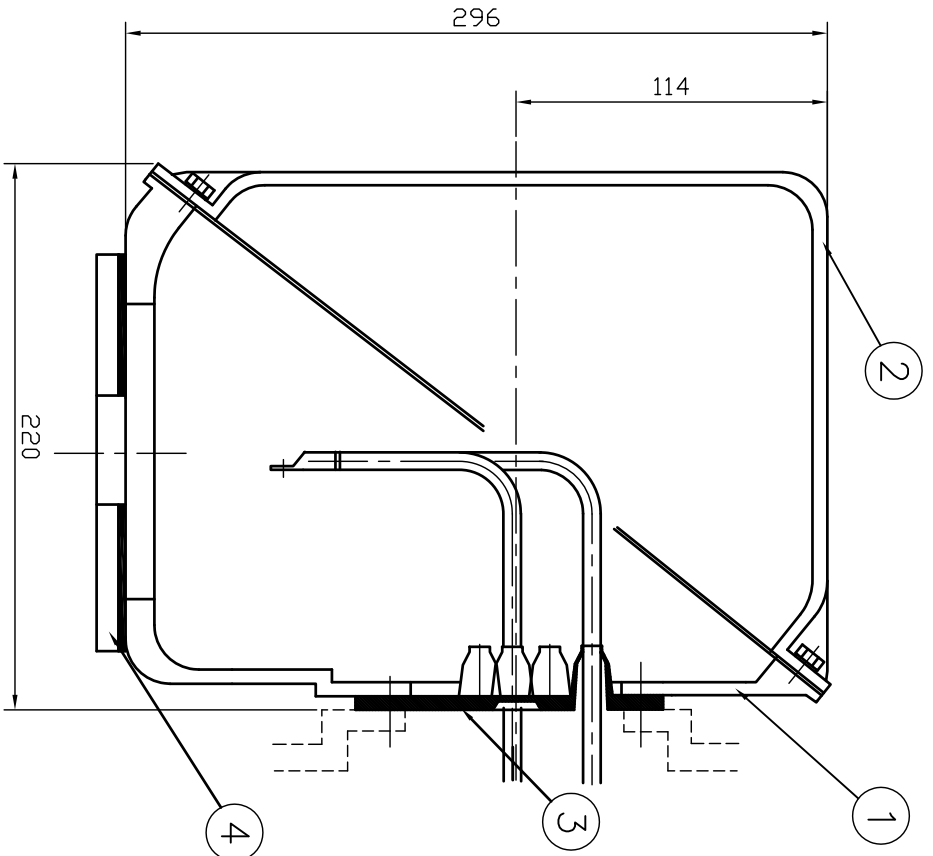
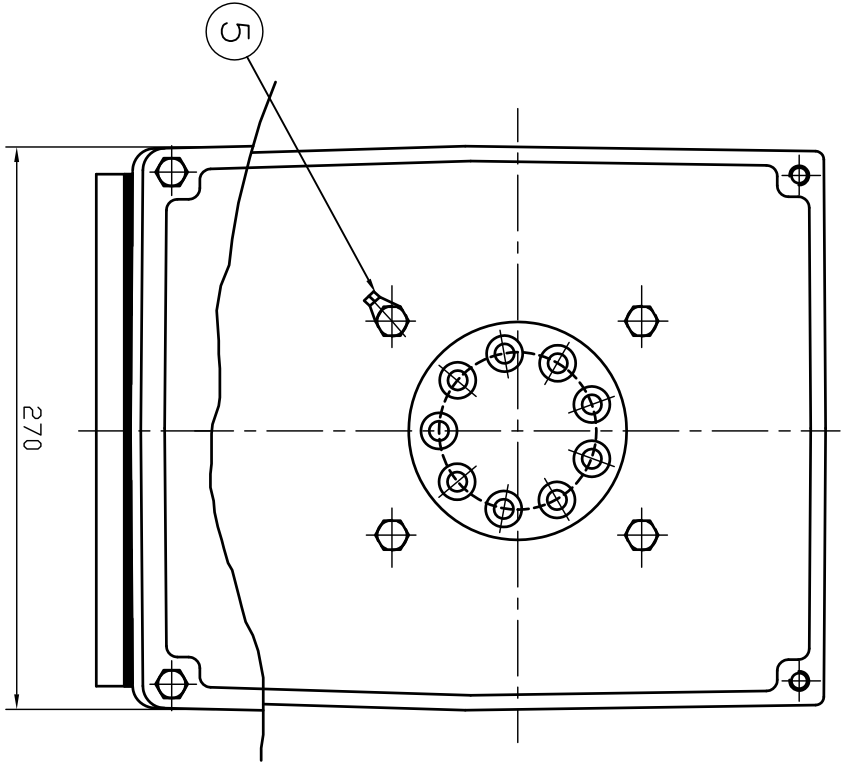
NOTE

1.TOLERANCE :

CENTER HEIGHT	250	0	-0.5
BASE HOLES	$\phi 24$	+0.52	0
FLANGE HOLES	$\phi 19$	+0.52	0
RABBET DIAMETER	$\phi 450$	$\pm 0.020$	
SHAFT DIAMETER	$\phi 55$	+0.030	+0.011
KEYWAY WIDTH	16	-0.018	-0.061
KEYWAY DEPTH	6	+0.2	0
KEY WIDTH	16	0	-0.043
KEY HEIGHT	10	0	-0.090



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.250S-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-T1251B4CL001	Revision No.	1



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

1	EARTH TERMINAL LUG											
1	CABLE ENTRY PLATE											
1	GASKET	NBR										
1	TERMINAL BOX COVER	CAST IRON										
1	TERMINAL BOX BODY	CAST IRON										
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.					
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									
SUBJECT		HLA6 - 250,280Fr.										
TITLE		(CAST IRON)										
TITLE		TERMINAL BOX ASS'Y										
REF. NO	DWG NO	3M-016882	Sheet No. of									
			Revision No.									



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