

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	280S		Rated Output	110 kW 150 HP	
Type	HLP-110/4		Number of Poles	4	
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage	
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y- Δ	
Rated Frequency	60 Hz		Rated Voltage	440 V 380 V 220 V	
Number of Phases	3		Current	Full Load 171.2 A 198.2 A 342.4 A	
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	780 % 780 % 780 %	
Temp. Rise at full load (by resistance method)			Efficiency		
at 1.0 S.F 80 deg. C			50% Load 95.0 %		
Motor Location	☒ Indoor ☐ Outdoor		75% Load 95.9 %		
Altitude	Less than 1000 meter		100% Load 95.8 %		
Relative Humidity	Less than 80 %		Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)		50% Load 0.806		
Duty Type	Continuous (S1)		75% Load 0.862		
Service Factor	1.15		100% Load 0.880		
Mounting	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1785 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6318C3 / 6316C3	Full Load 60.0 kg·m		
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 150 %		
External Thrust	Not applicable		Breakdown** 230 %		
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)		
Shaft Extension	☒ Single ☐ Double		Load(Max.) 78.200 kg·m²		
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 3.023 kg·m²		
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)		
	Location	Refer to Outline Drawing	84 dB(A)		
Application			Vibration 2.2 mm/sec (r.m.s)		
Area classification	Non-Hazardous		Permissible number of		
Type of Ex-Protection	Not applicable		Cold 3 times		
Applicable Standard	KS,IEC, NEMA MG1 Part30(Vpeak)		Hot 2 times		
ACCESSORIES			Paint	Munsell No.	4.4PB5.5/5.6(VL-451)
	SUBMITTAL DRAWING				
	Outline Dimension Drawing \ Motor Weight(Approx.)				
	B3	LM-T1281B3PL001	690	kg	
	B5	LM-T1280B5PL001	760	kg	
	V1	LM-T1280V1PL001	760	kg	
	B3/B5	LM-T1281B4PL001	725	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.

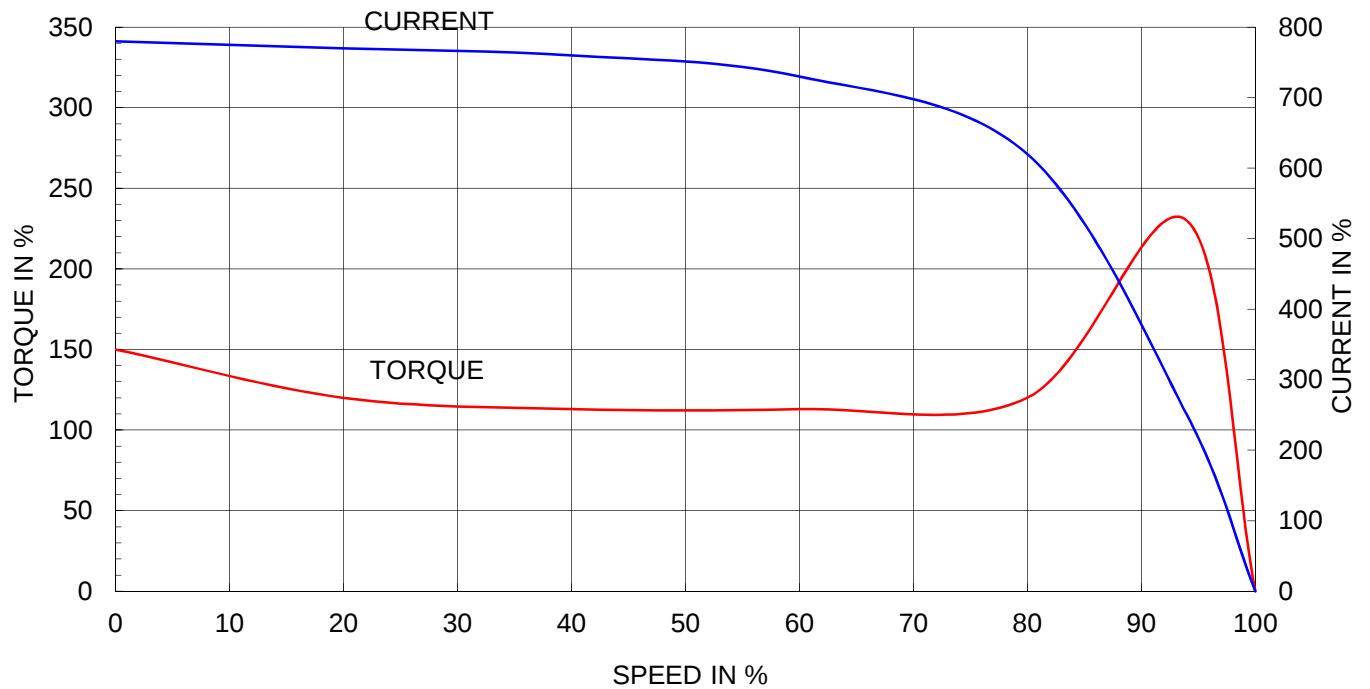
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

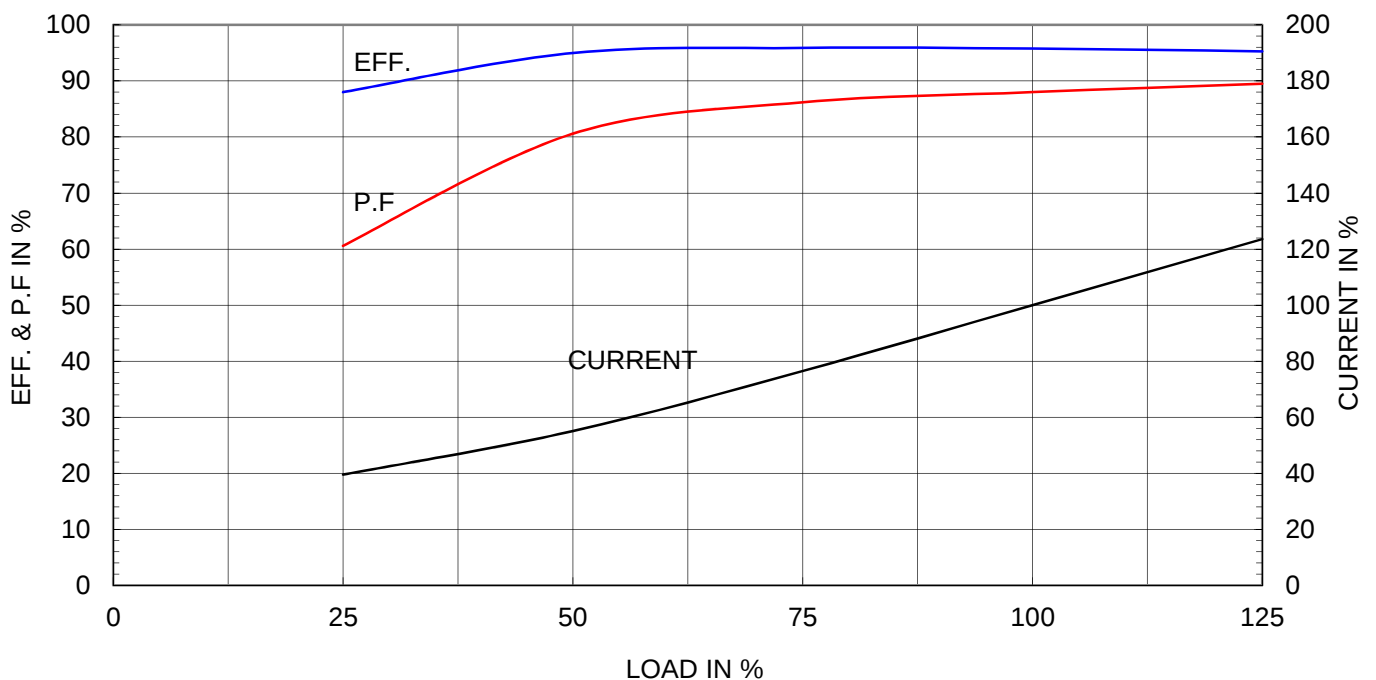
Type	:	HLP-110/4
Full Load Torque	:	60.0 Kg.m
Motor moment of Inertia (J)	:	3.023 Kg.m ²
Load moment of Inertia (J)	:	78.200 Kg.m ²

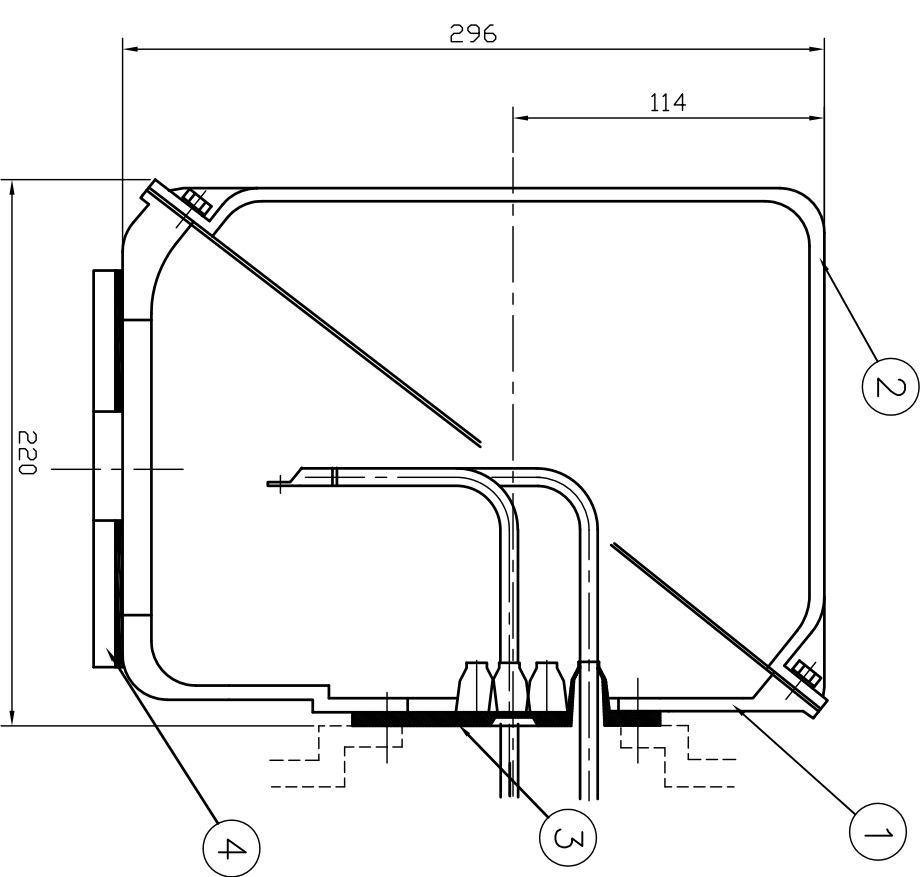
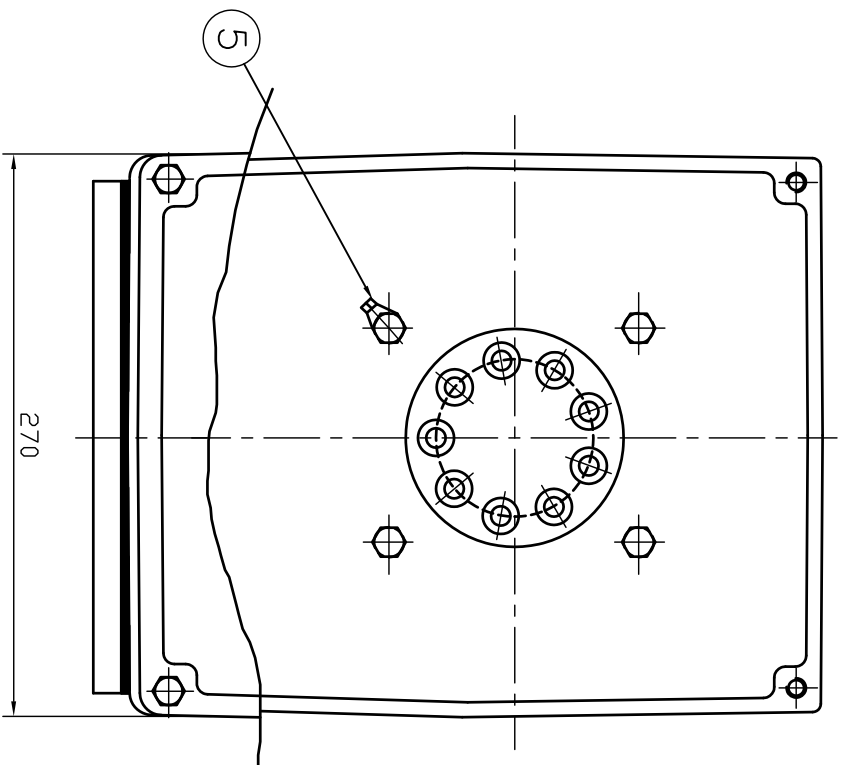
110 kW		4 P		60 Hz	
Speed at Full Load :				1785 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	171.2A	198.2A	342.4A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





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
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
APP'D BY	김진오	UNIT	MM			CAD PROJ. & FILE
Q.P. CHK	주영걸	SCALE	NONE			T-BOX-M \ 38016882
CHK'D BY	권오철	PROJEC'T	3 권(3rd Angle)			
DSND BY	김헌태	DATE	92.06.05			
				SUBJECT	HLA6 - 250,280Fr.	
				TITLE	(CAST IRON)	
				TERMINAL BOX ASS'Y		
				REF. NO		Sheet No. of
				DWG NO	3M-016882	Revision No.

