

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	90 kW 120 HP	
Type	HLP-90/6		Number of Poles	6	
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 146.2 A 169.3 A 292.5 A	
Insulation Class	☒ F ☐ B ☐ 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 94.9 %		
Motor Location	☒ Indoor ☐ Outdoor		75% Load 95.2 %		
Altitude	Less than 1000 meter		100% Load 95.0 %		
Relative Humidity	Less than 80 %		Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)		50% Load 0.726		
Duty Type	Continuous (S1)		75% Load 0.814		
Service Factor	1.15		100% Load 0.850		
Mounting	☐ B3 ☐ B5 ☐ V1 ☒ B3/B5		Speed at Full Load 1185 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6318C3 / 6316C3	Full Load 74.0 kg·m		
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 150 %		
External Thrust	Not applicable		Breakdown** 250 %		
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)		
Shaft Extension	☒ Single ☐ Double		Load(Max.) 130.230 kg·m²		
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 4.135 kg·m²		
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)		
	Location	Refer to Outline Drawing	77 dB(A)		
Application			Vibration 2.2 mm/sec (r.m.s)		
Area classification	Non-Hazardous		Permissible number of		
Type of Ex-Protection	Not applicable		consecutive starts 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-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
			2015-09-05	R.G. KIM	-
				O.J. KIM	S.H. GO

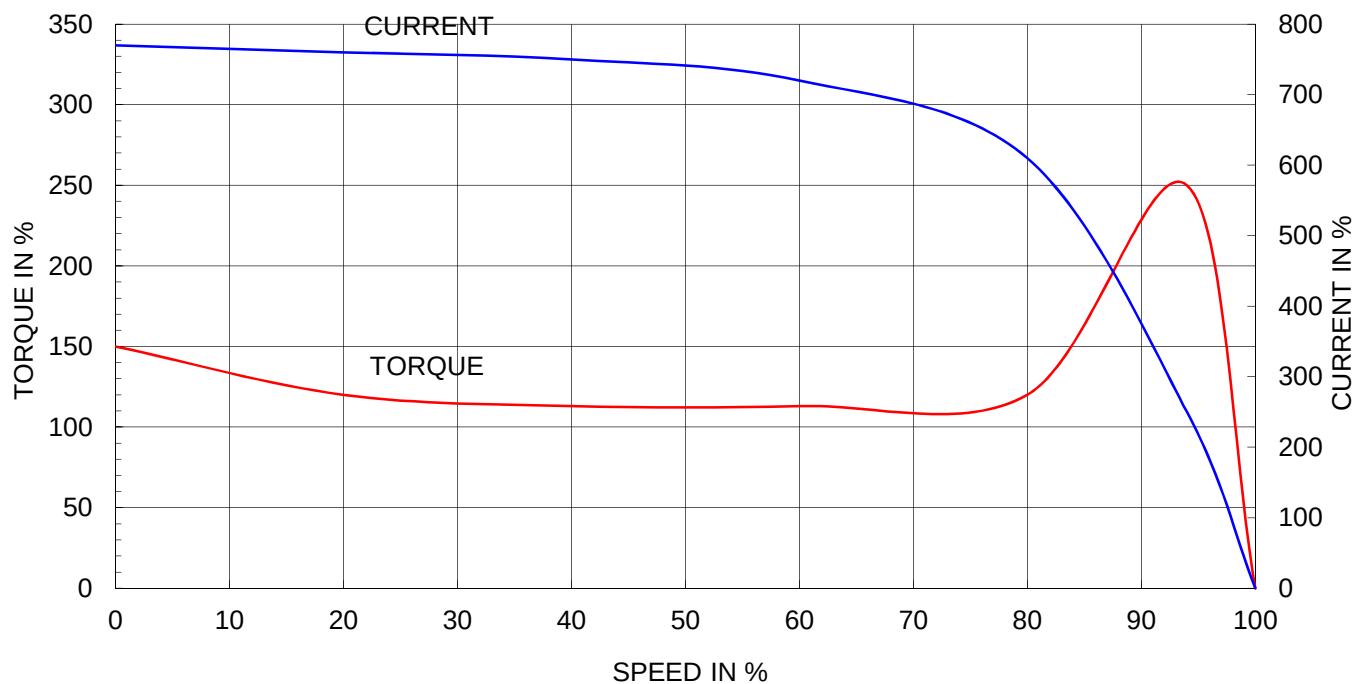
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed 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.

HHI W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

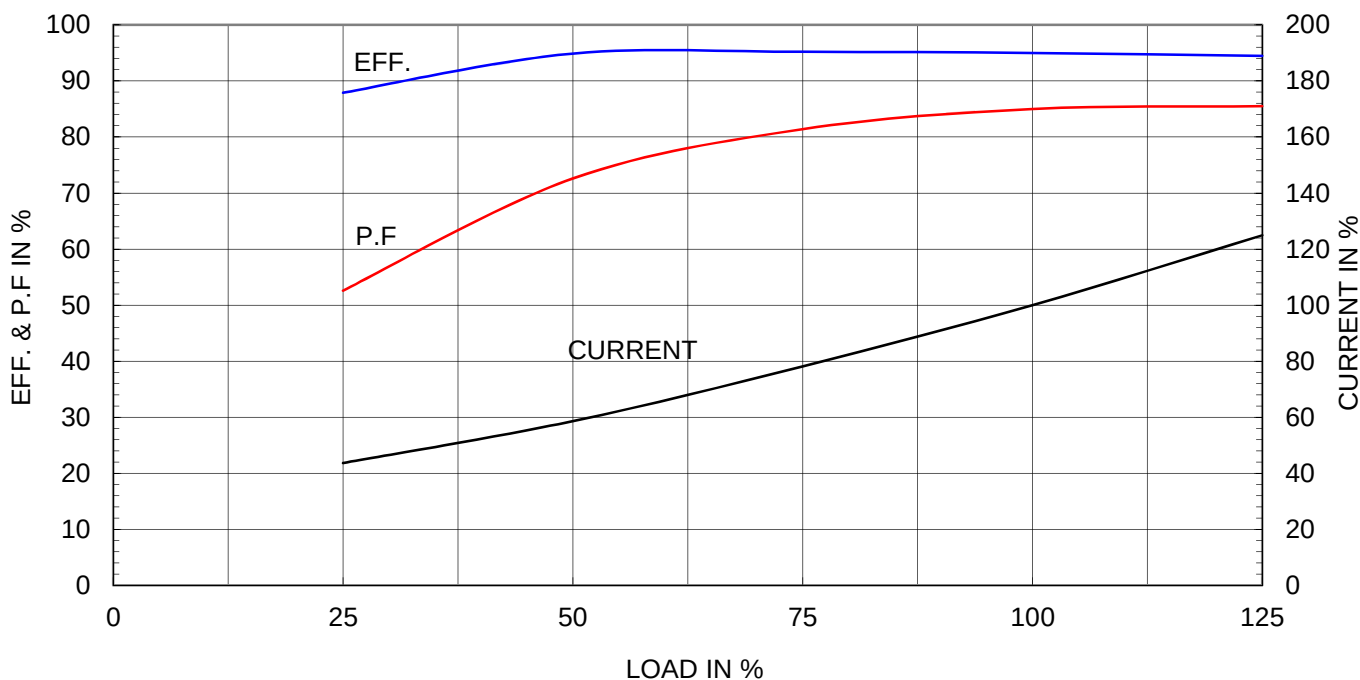
Type	:	HLP-90/6
Full Load Torque	:	74.0 Kg.m
Motor moment of Inertia (J)	:	4.135 Kg.m ²
Load moment of Inertia (J)	:	130.230 Kg.m ²

90 kW		6 P		60 Hz	
Speed at Full Load :				1185 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	146.2A	169.3A	292.5A		

SPEED VS TORQUE & CURRENT CURVE



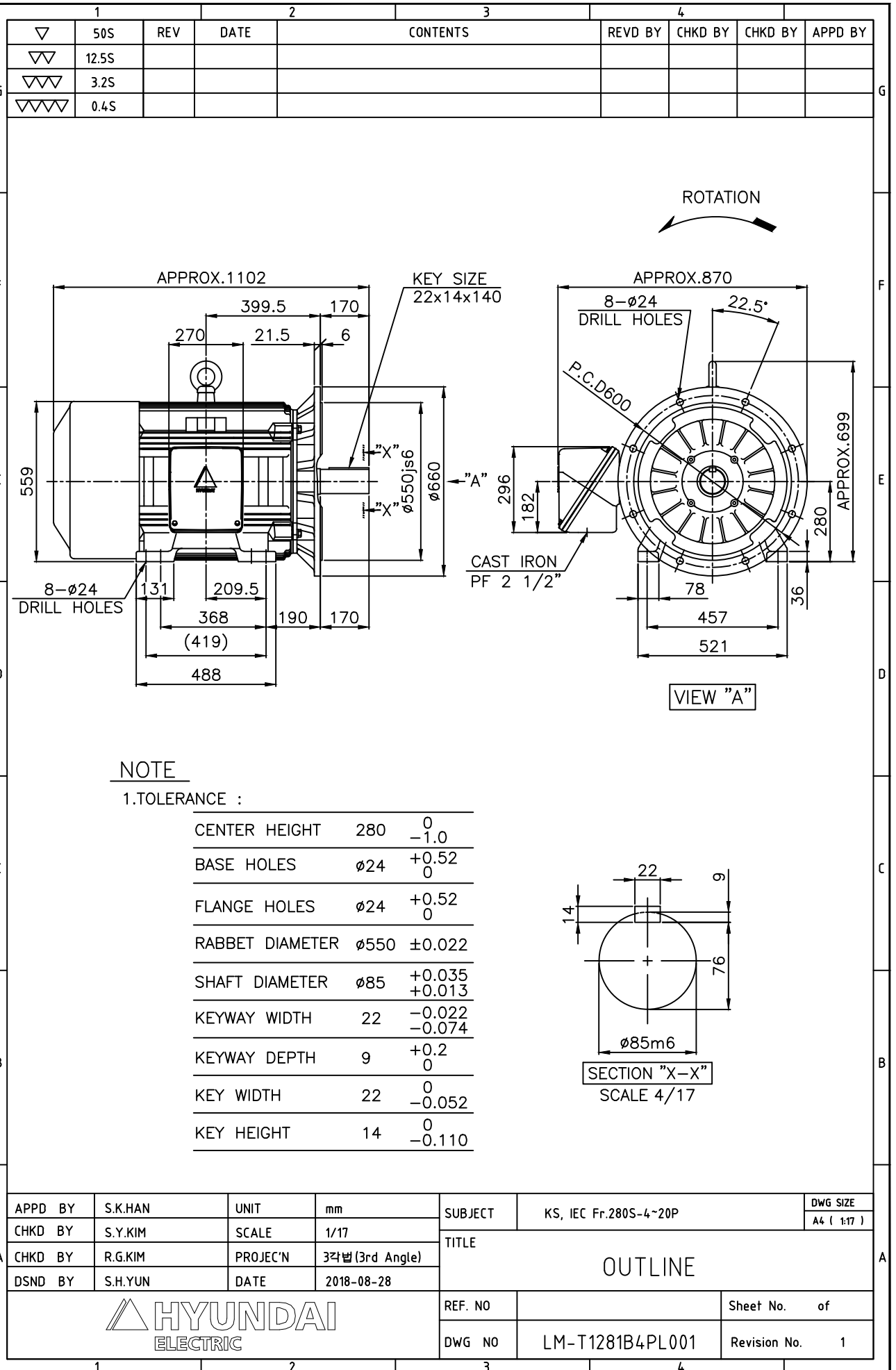
OUTPUT VS EFF., P.F & CURRENT CURVE

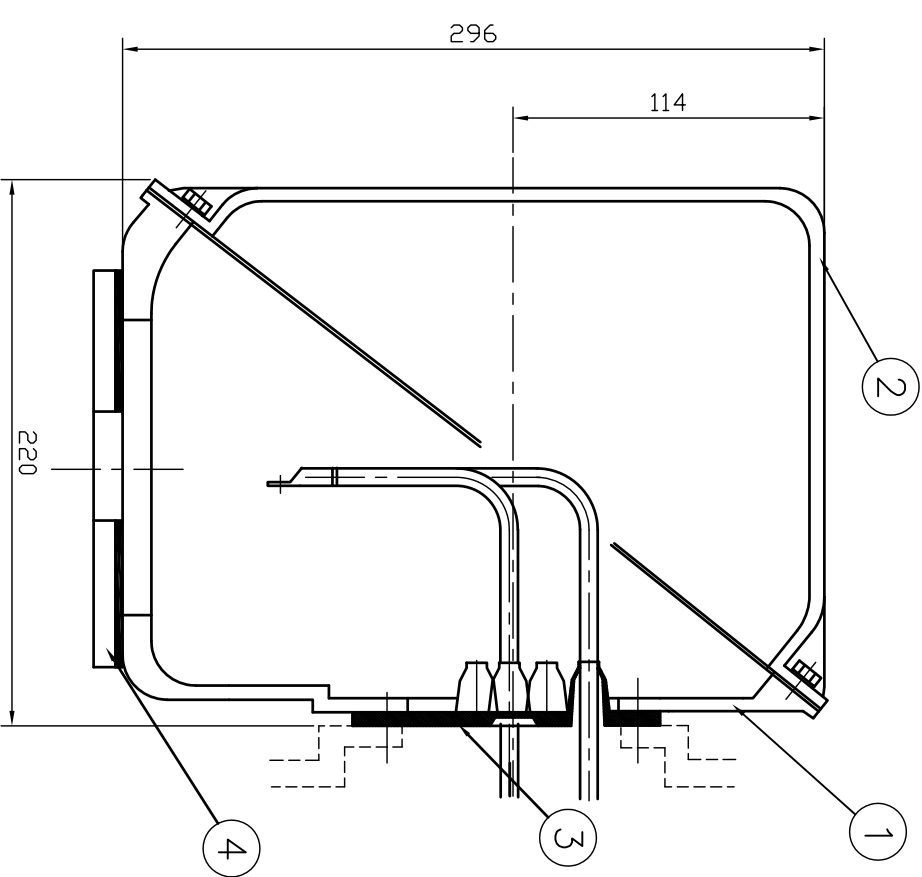
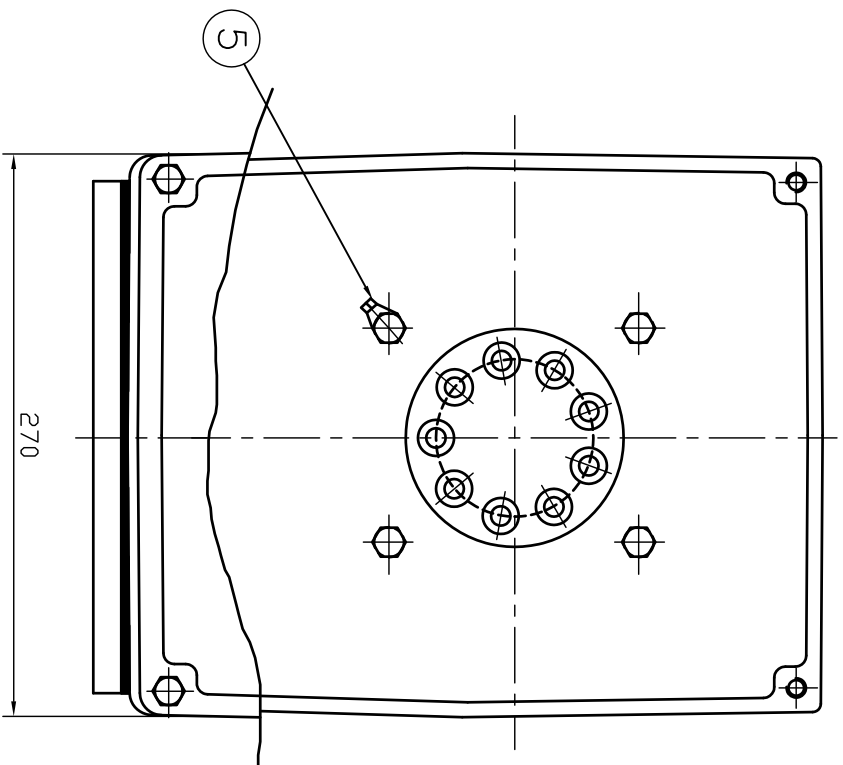


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허가없이 복사할 수 없음 (취급주의)

HYUNDAI
ELECTRIC





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			
Q.P. CHK	주영걸	SCALE	NONE			
CHK'D BY	권오철	PROJEC'T	3번(3rd Angle)			
DSND BY	김헌태	DATE	92.06.05			
				SUBJECT	HLA6 - 250,280Fr.	CAD PROJ. & FILE
				TITLE	(CAST IRON)	T-BOX-M \ 35016882
				REF. NO	3M-016882	Sheet No. of
				DWG NO	3M-016882	Revision No.

