

Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



0		For Bidding			
No.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

www.hd-hyundaielectric.com



AC INDUCTION MOTOR DATA SHEET

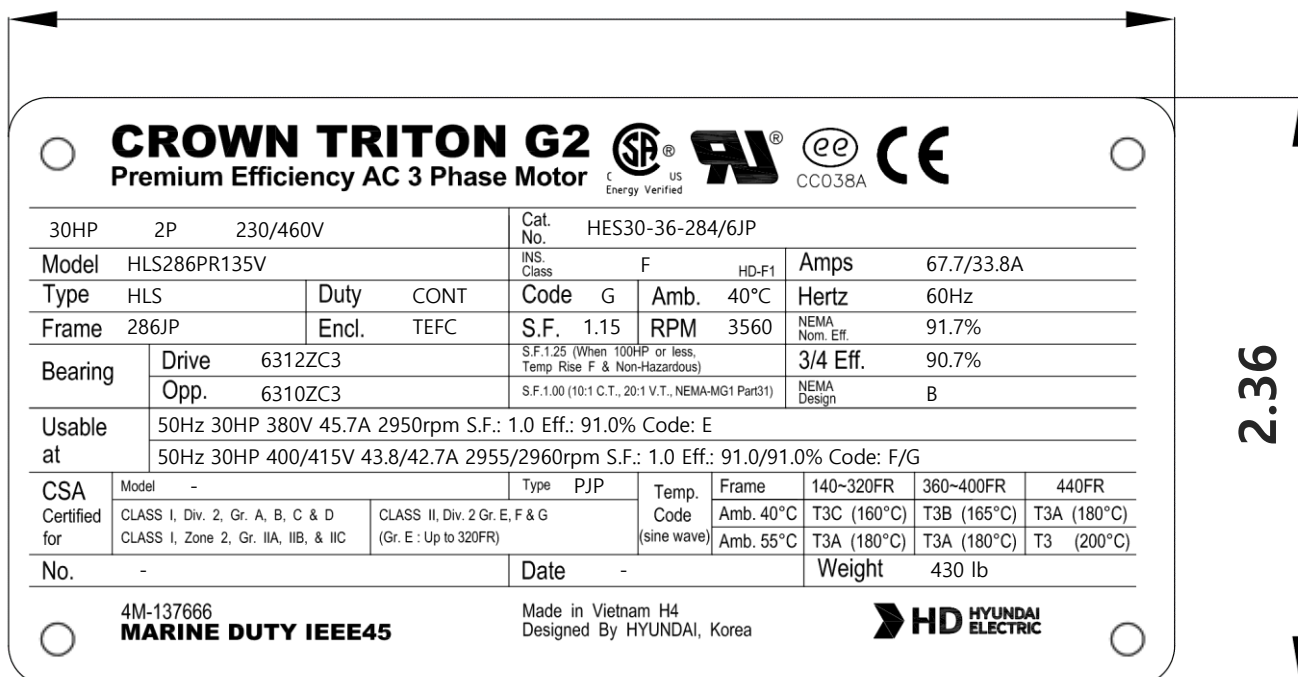
Catalog No.	HES30-36-284/6JP	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	286JP	Rated Output	22 kW 30 HP		
Type	PJP	Number of Poles	2		
Enclosure(Protection)	Totally Enclosed / IP55	Rotor Type	Squirrel Cage		
Method of Cooling	IC411(FC)	Starting Method*	D.O.L		
Rated Frequency	60 Hz	Rated Voltage	575 V	460 V	230 V
Number of Phases	3	Current	Full Load	27.1 A	33.8 A 67.7 A
Insulation Class	F		Locked-rotor**	685 %	685 % 685 %
Temp. Rise at full load (by resistance method)		Efficiency			
at 1.0 S.F	80 deg. C	50% Load 88.7 %			
Motor Location	☐ Indoor ☐ Outdoor	75% Load 90.7 %			
Altitude	Less than 1,000 meter	100% Load 91.7 %			
Relative Humidity	Less than 80 %	Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)	50% Load 0.740			
Duty Type	Continuous (S1)	75% Load 0.840			
Service Factor	1.15	100% Load 0.890			
Mounting	B35	Speed at Full Load		3560 r.p.m	
Bearing	Type	Anti-Friction		Torque	
	DE/N-DE	6312ZC3 / 6310ZC3		Full Load 43.54 lb.ft	
	Lubricant	Grease(Polyrex-EM)		Locked-rotor** 160 %	
External Thrust	Not applicable		Breakdown** 230 %		
Coupling Method	☒ Direct ☐ V-belt	Moment of Inertia (J)			
Shaft Extension	Single	Load(Max.) 28.400 lb.ft2			
Terminal	Main	Motor 2.089 lb.ft2			
Box	Aux.	Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing			
Application		Vibration 3.8 mm/s (peak)			
Area classification	Hazardous	Permissible number of Cold 3 times			
Type of Ex-Protection	Class I&II, Division 2	consecutive starts Hot 2 times			
Applicable Standard	NEMA MG1, CSA C390	Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	
ACCESSORIES		SUBMITTAL DRAWING			
		Outline Dimension Drawing \ Motor Weight(Approx.)			
		B35	LM-T2286C4JLV25	430 lb.	
SPARE PARTS		REMARK			
		1. Premium efficiency according to NEMA MG1			
		2. Inverter Duty @ 1.0 Service Factor & F Temperature rise			
		-. 10:1 VT (20:1 VT at 50% load)			
		-. 10:1 CT (1 hour duty, 4:1 continuous)			
		-. CHP up to 1.5 times base speed, NEMA MG1 Part31			
		3. CSA Certification			
		-. Class I, Division 2, Group A, B, C & D			
		-. Class II, Division 2 Group E, F & G (Group E : up to 320Fr.)			
		4. Service Factor 1.15 and Temperature rise B are applicable under the condition of sine wave power.			
		5. Service Factor 1.25 is applicable to motors of 100HP or less with temperature rise F & Non-Hazardous.			
		6. Temp. code : T3C(160°C) at sine wave			
		Date	DSND	CHKD	CHKD APPD
		2025-09-19	S.H. LEE	I.K. KIM	R.G. KIM S.W. KIM

[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 done according to maker standard, if not mentioned.
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.
** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.

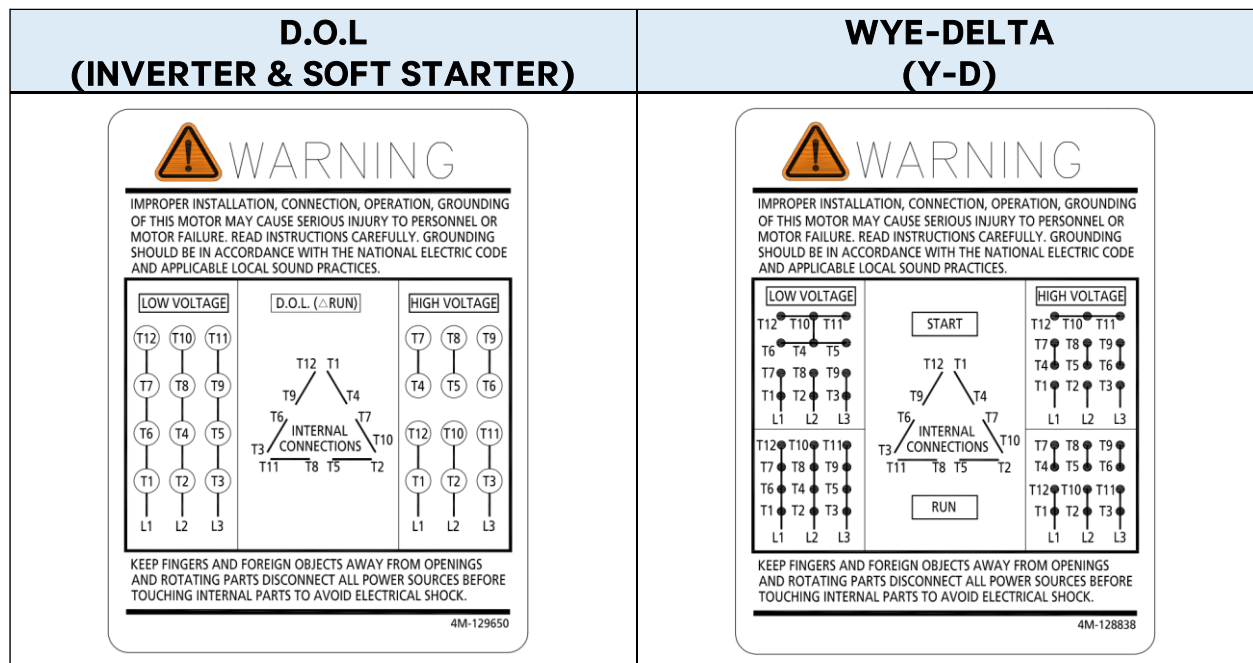
2		3		4		
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

■ MAIN NAMEPLATE

4.72



■ WIRING DIAGRAM

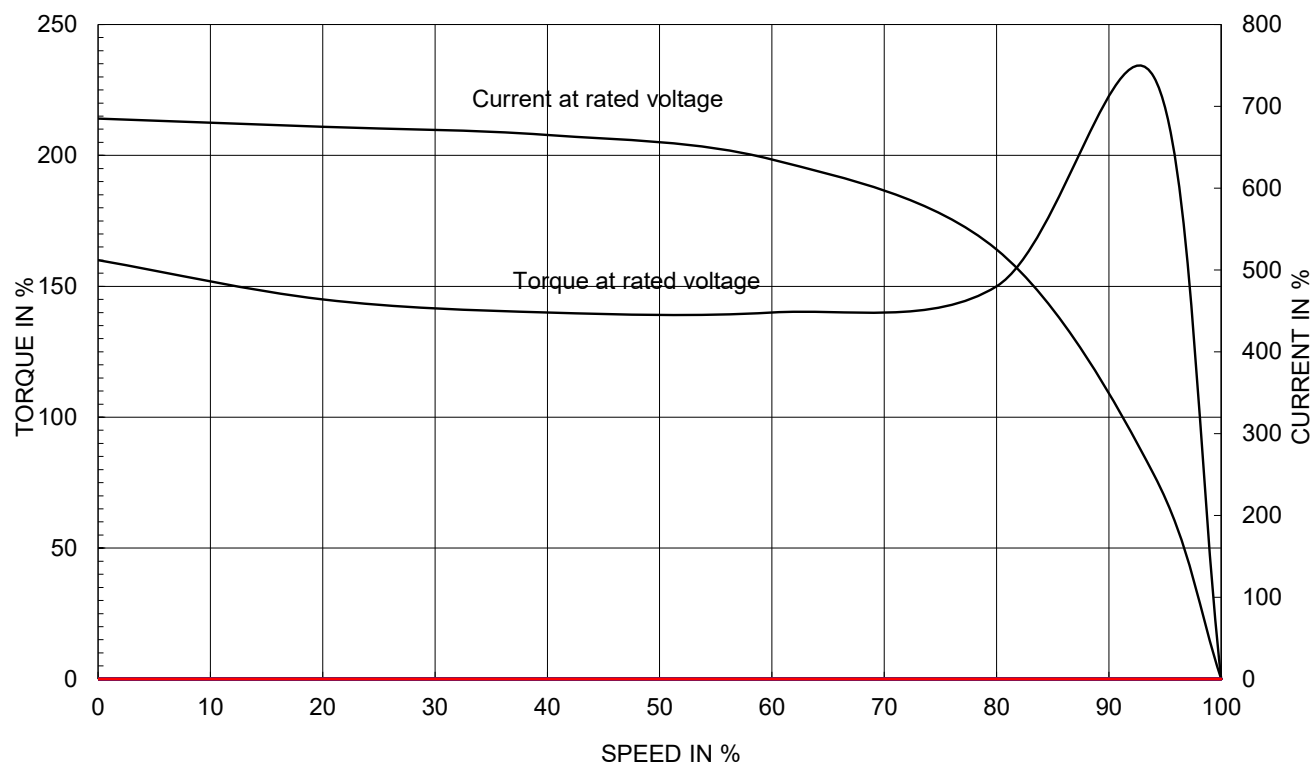


APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, JM/JP, 254-326)	DWG SIZE	
CHKD BY	I.K.KIM	SCALE	NONE			A4 (1:1)	
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			TITLE NAMEPLATE DRAWING	
DSND BY	S.H.LEE	DATE	2024.06.07				
				REF. NO	4M-137666 / 4M-129650	Sheet No.	of
				DWG NO	NP-HES30-36-284/6JP	Revision No.	0

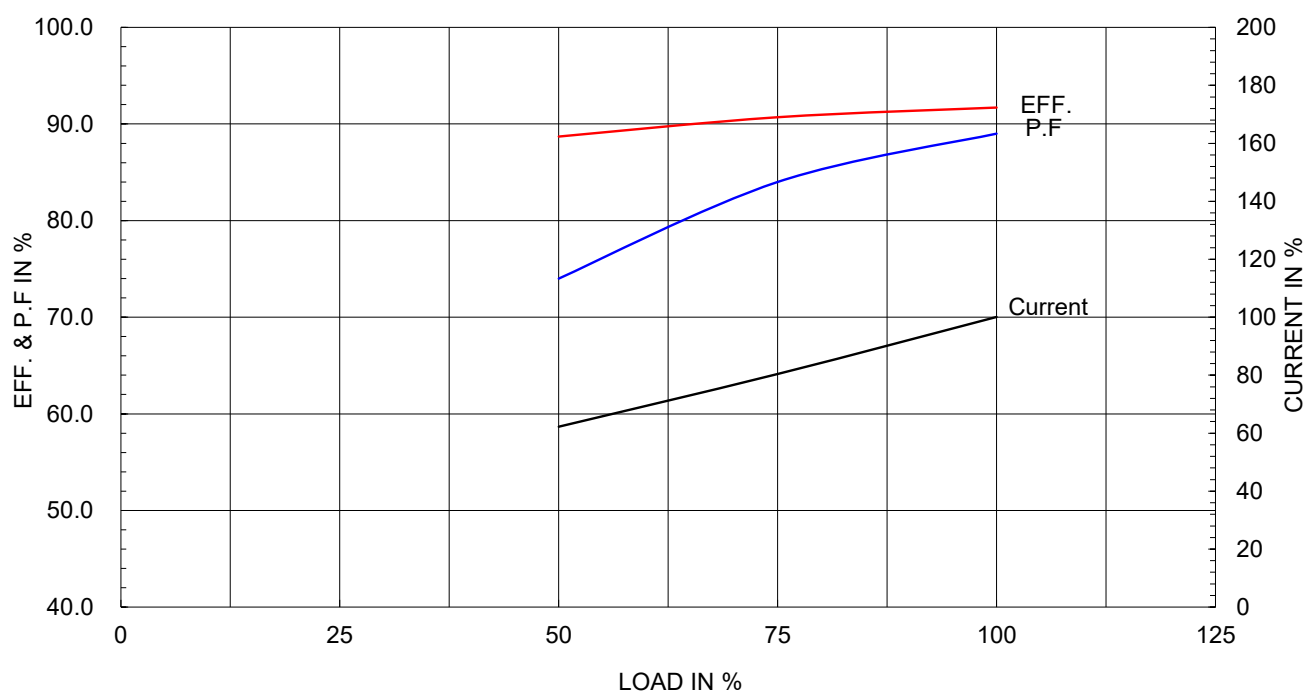
Type :	PJP	
Full Load Torque :	43.54	lb.ft
Load moment of Inertia (J) :	28.400	lb.ft ²
Motor moment of Inertia (J) :	2.089	lb.ft ²

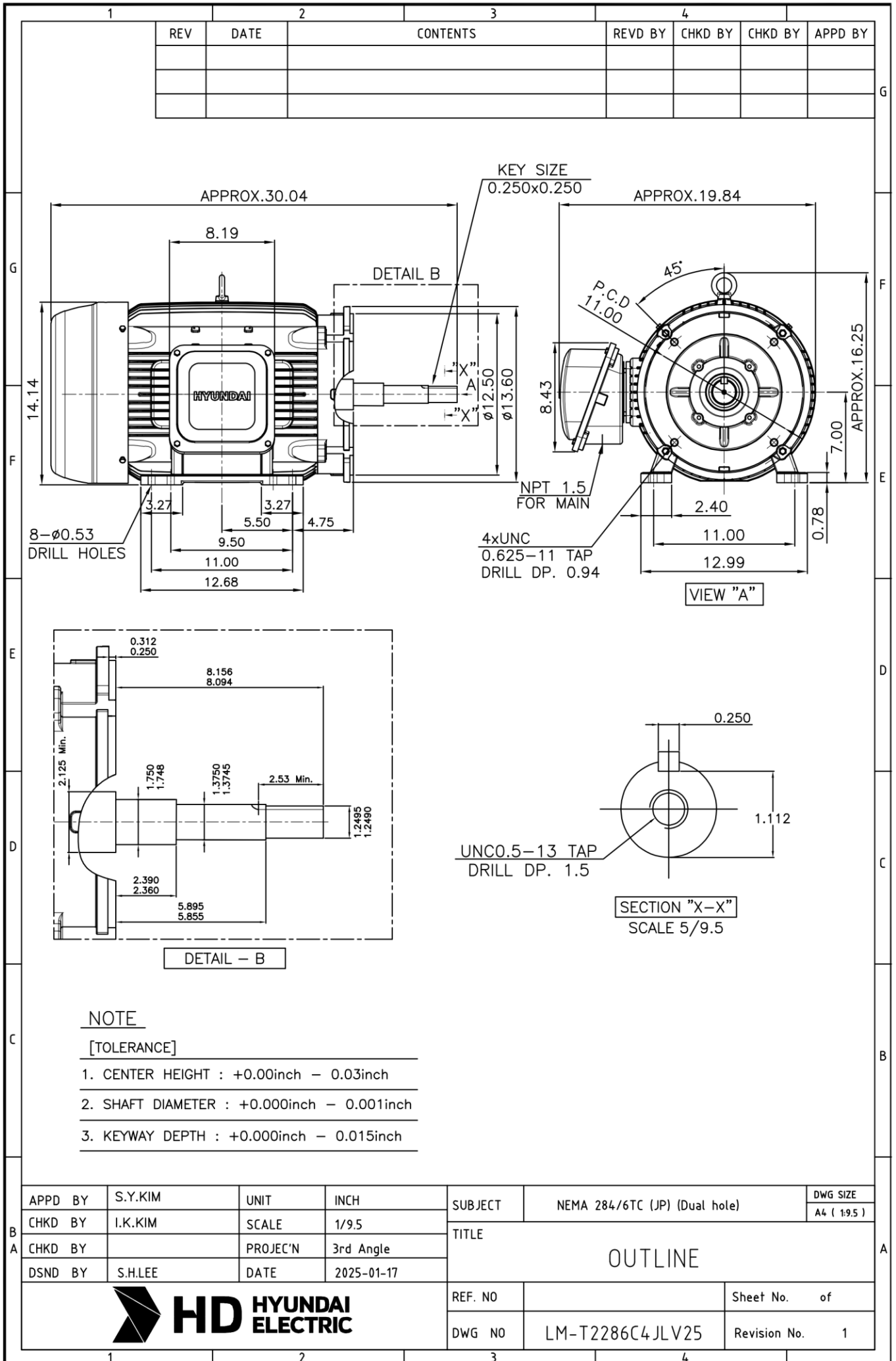
22kW	30HP	2 P	60 Hz
Speed at Full Load :			3560 RPM
Rated Voltage	575V	460V	230V
Full Load Current	27.1A	33.8A	67.7A

SPEED VS TORQUE & CURRENT CURVE



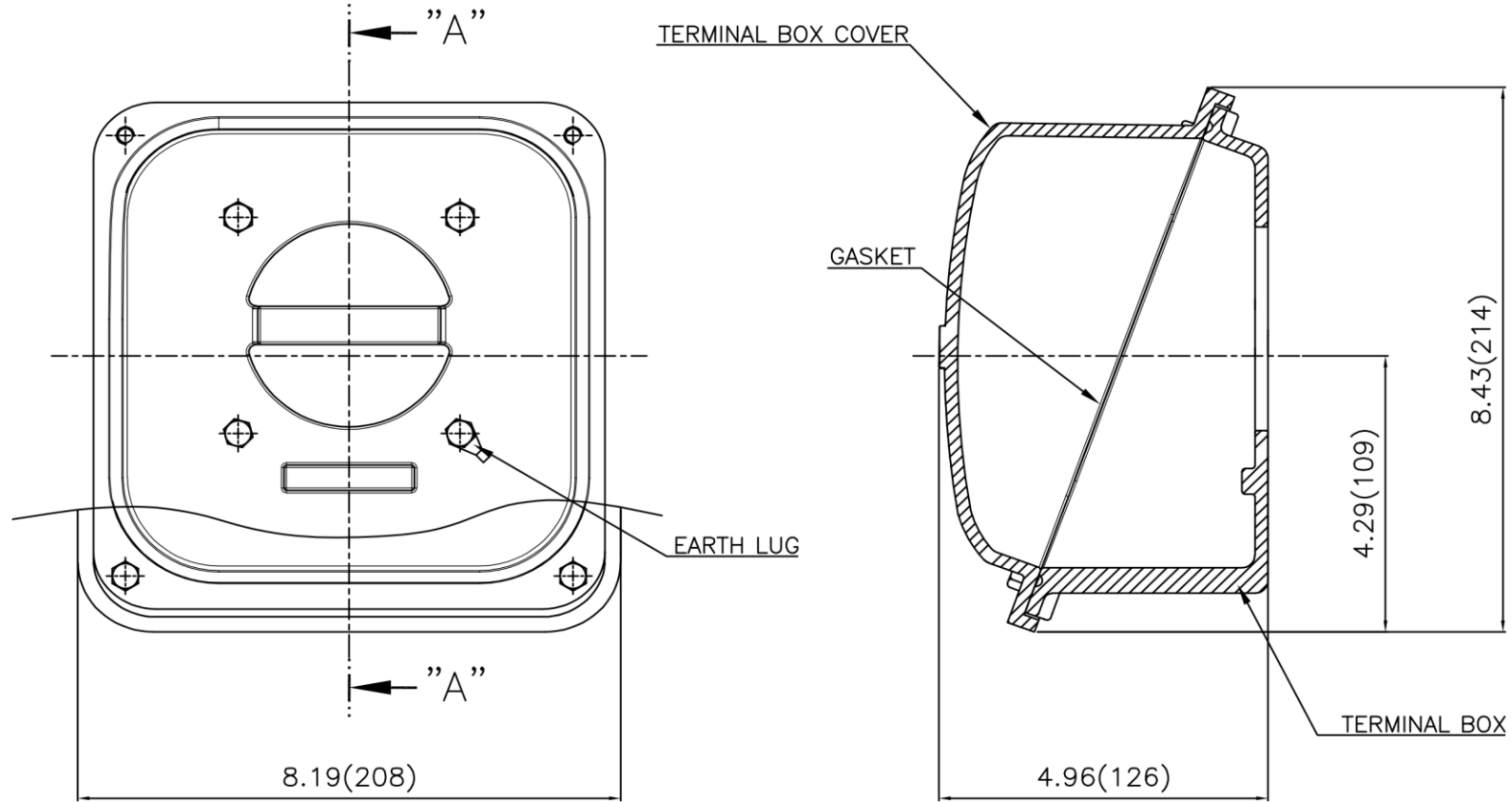
OUTPUT VS EFF., P.F & CURRENT CURVE





Cls. I&II, Div. 2

IEEE 841



SEC. "A"-"A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						

일반가공공차		일반계관공차	
1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.Y.KIM	UNIT	inch(mm)	SUBJECT	FR. 250-280 (CAST IRON)	DWG SIZE	
CHKD BY		SCALE	1/2	TITLE	TERMINAL BOX ASS'Y	A3 (1:2)	
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	네슬의	DATE	2023-10-19	DWG NO	3M-248458	Revision No.	0

