

Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

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AC INDUCTION MOTOR DATA SHEET

Catalog No.	HES30-18-284/6JM	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	286JM		Rated Output	22 kW	30 HP
Type	PJP		Number of Poles	4	
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	29.1 A 36.4 A 72.8 A
Insulation Class	F			Locked-rotor**	740 % 740 % 740 %
Temp. Rise at full load (by resistance method)			Efficiency		
	at 1.0 S.F	80 deg. C		50% Load	90.6 %
Motor Location	☐ Indoor ☐ Outdoor			75% Load	92.6 %
Altitude	Less than 1,000 meter			100% Load	93.6 %
Relative Humidity	Less than 80 %		Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)			50% Load	0.660
Duty Type	Continuous (S1)			75% Load	0.760
Service Factor	1.15			100% Load	0.810
Mounting	B35		Speed at Full Load	1775 r.p.m	
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6312ZC3 / 6310ZC3		Full Load	87.32 lb.ft
	Lubricant	Grease(Polyrex-EM)		Locked-rotor**	170 %
External Thrust	Not applicable			Breakdown**	220 %
Coupling Method	☒ Direct ☐ V-belt		Moment of Inertia (J)		
Shaft Extension	Single			Load(Max.)	160.272 lb.ft2
Terminal	Main	Cast Iron		Motor	5.578 lb.ft2
Box	Aux.	No	Sound Pressure Level (No-load & mean value at 1m from motor)		
	Location	Refer to Outline Drawing		72 dB(A)	
Application			Vibration	3.8 mm/s (peak)	
Area classification	Hazardous		Permissible number of consecutive starts	Cold 3 times	
Type of Ex-Protection	Class I&II, Division 2			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-T2286C4MLV25 430 lb.

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.

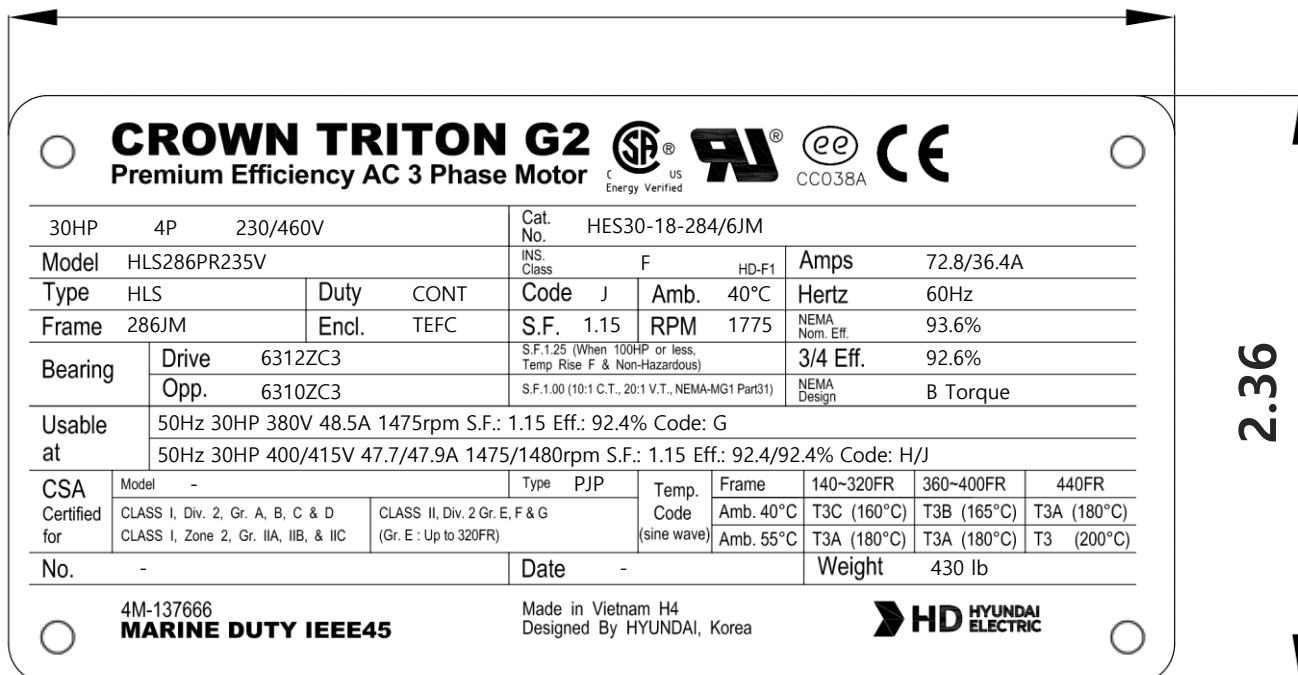
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.

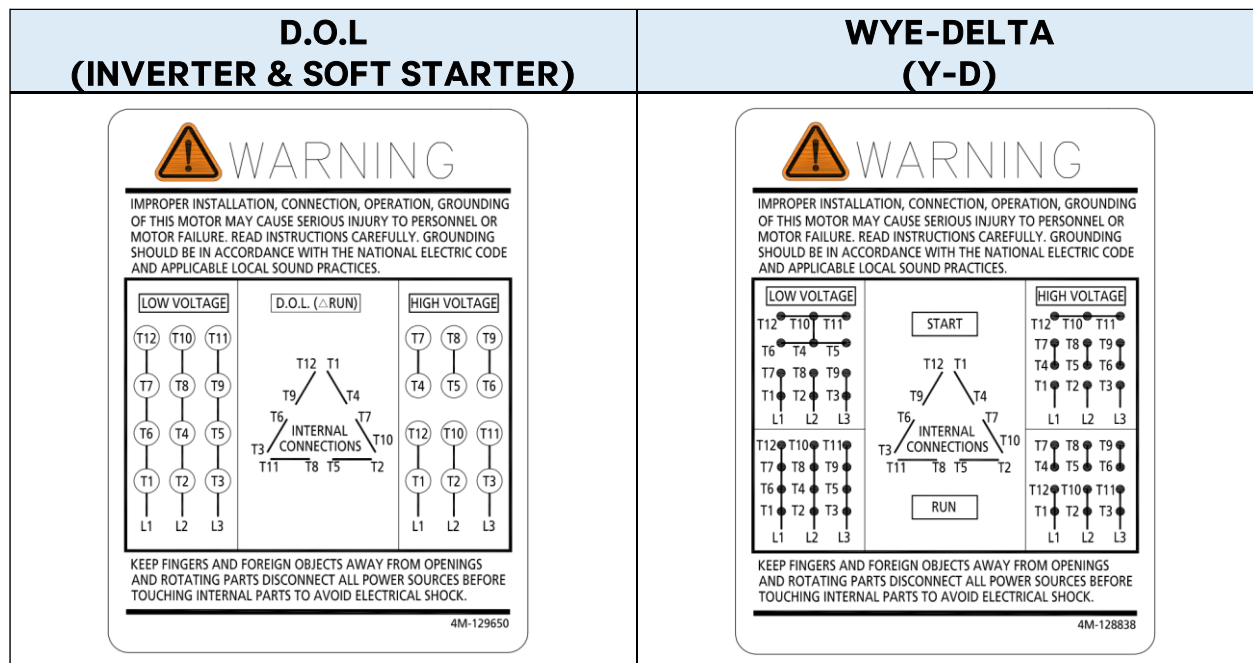
1		2		3		4		
REV	DATE	CONTENTS			REVD BY	CHKD BY	CHKD BY	APPD BY

MAIN NAMEPLATE

4.72



■ WIRING DIAGRAM

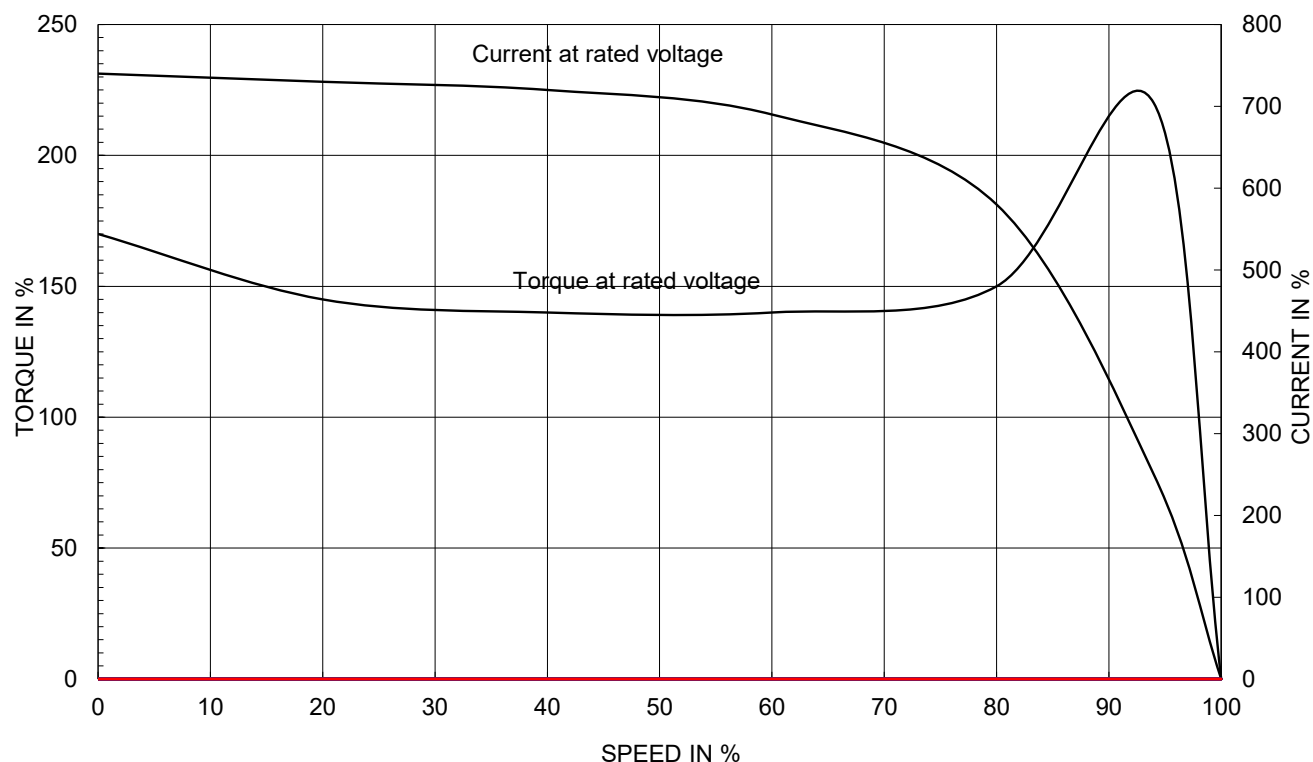


APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, JM/JP, 254-326)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			
DSND BY	S.H.LEE	DATE	2024.06.07			
				TITLE		
				NAMEPLATE DRAWING		
				REF. NO	4M-137666 / 4M-129650	Sheet No. of
				DWG NO	NP-HES30-18-284/6JM	Revision No. 0

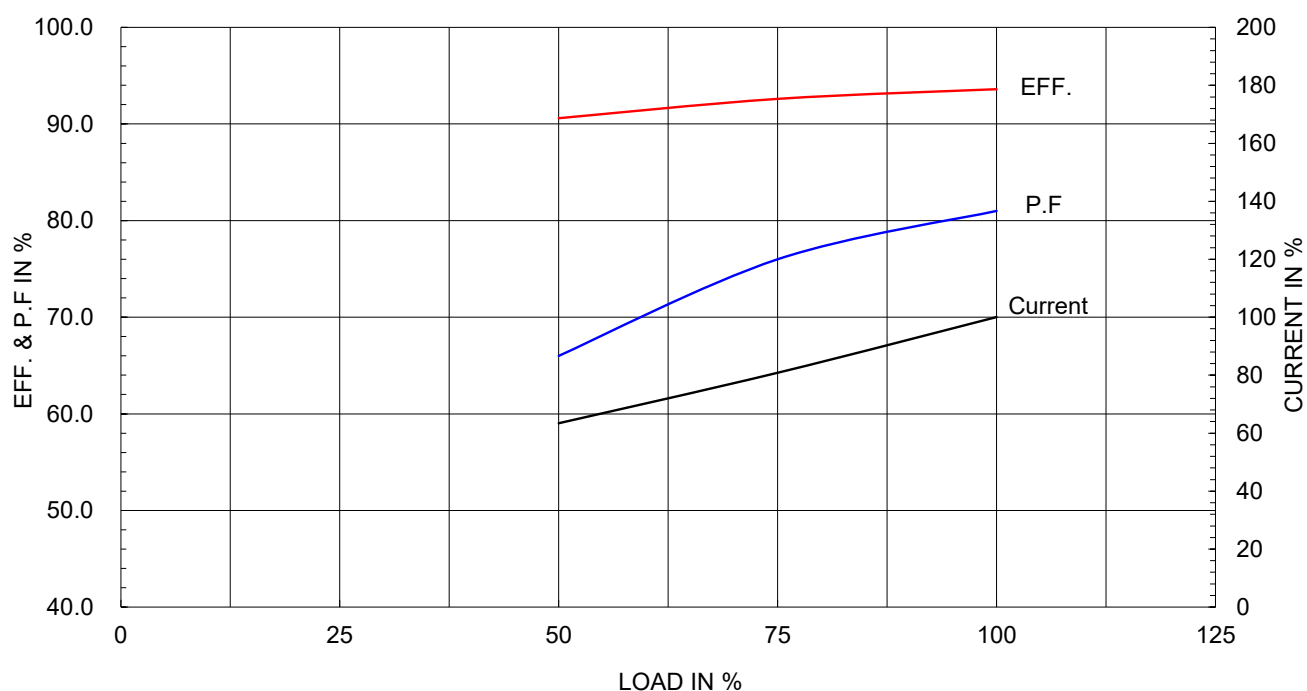
Type :	PJP	
Full Load Torque :	87.32	lb.ft
Load moment of Inertia (J) :	160.272	lb.ft2
Motor moment of Inertia (J) :	5.578	lb.ft2

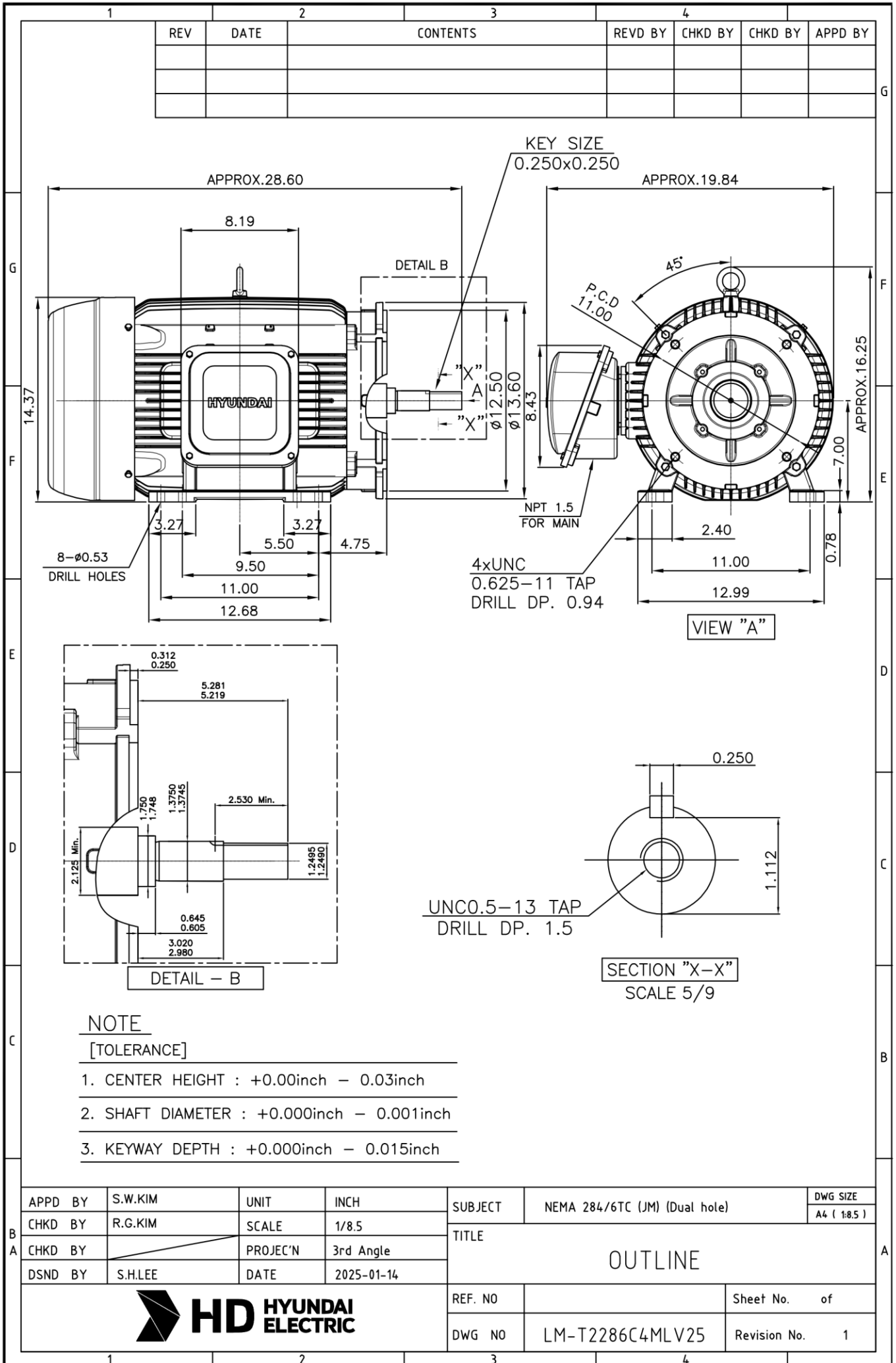
22kW	30HP	4 P	60 Hz
Speed at Full Load :			1775 RPM
Rated Voltage	575V	460V	230V
Full Load Current	29.1A	36.4A	72.8A

SPEED VS TORQUE & CURRENT CURVE



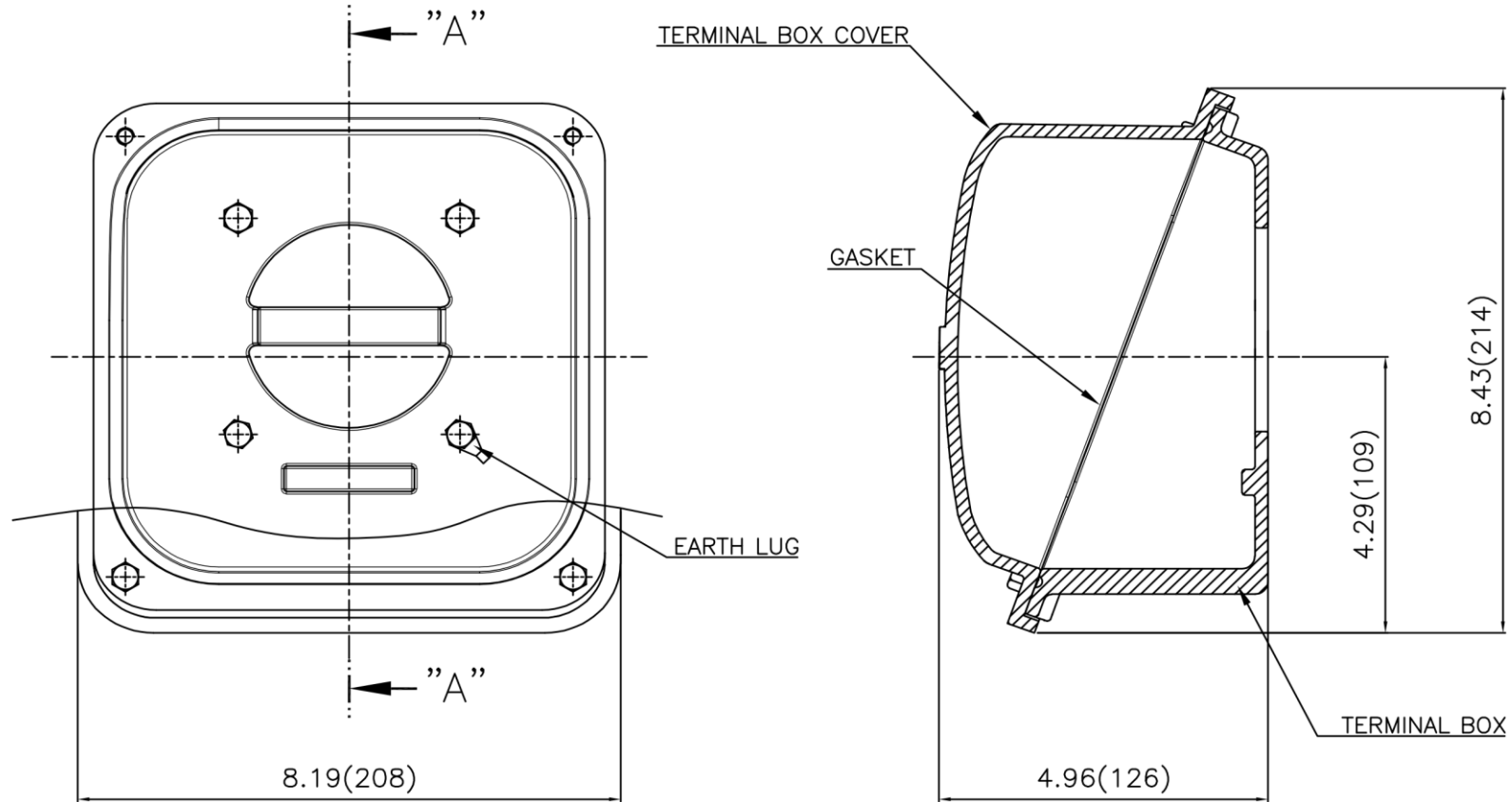
OUTPUT VS EFF., P.F & CURRENT CURVE





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

