

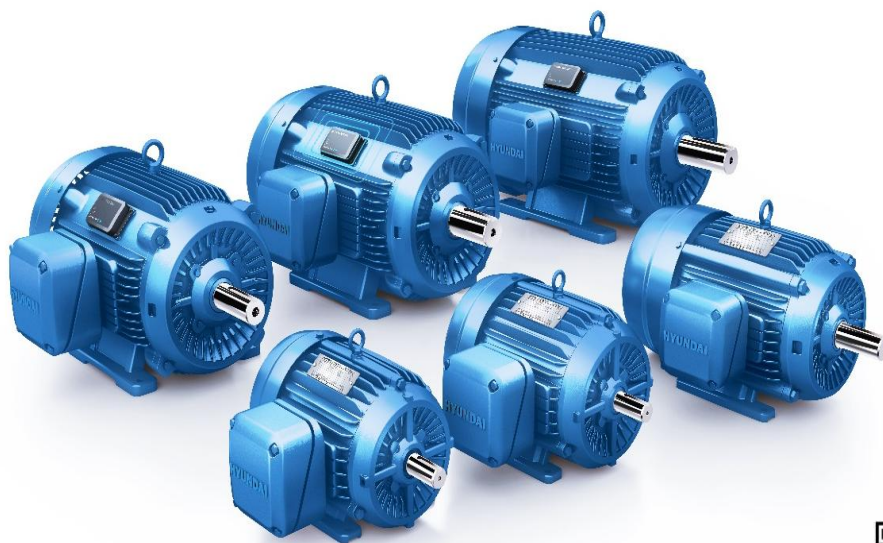
Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

AC INDUCTION MOTOR DATA SHEET

IEEE841 TYPE

Catalog No.	IEEEV25-36-284TSCRD	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA						
Frame Size		284TSC		Rated Output		18.5 kW		25 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	22.8 A	28.5 A	56.9 A	
Insulation Class		F			Locked-rotor**	670 %	670 %	670 %	
Temp. Rise at full load (by resistance method) at 1.0 S.F			80 deg. C		Efficiency				
Motor Location		☐ Indoor ☐ Outdoor							
Altitude		Less than 1,000 meter							
Relative Humidity		Less than 80 %		Power Factor(p.u)					
Ambient Temp.		40 deg. C (Max.)							
Duty Type		Continuous (S1)							
Service Factor		1.15							
Mounting		B5		Speed at Full Load		3560 r.p.m			
Bearing	Type	Anti-Friction		Torque					
	DE/N-DE	6310ZC3 / 6310ZC3							
	Lubricant	Grease(Polyrex-EM)							
External Thrust		Not applicable							
Coupling Method		☒ Direct ☐ V-belt		Moment of Inertia (J)					
Shaft Extension		Single							
Terminal Box	Main	Cast Iron							
	Aux.	No							
Location		Refer to Outline Drawing		Sound Pressure Level (No-load & mean value at 1m from motor)					
Application				Vibration		2.03 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		IEEE841, NEMA MG1, CSA C390		Paint	Munsell No.	7.5BG6/1.5			

ACCESSORIES

SUBMITTAL DRAWING

Outline Dimension Drawing	\ Motor Weight(Approx.)		
B5	LM-I2284C5CLV23	365 lb.	

REMARK

- Premium efficiency according to NEMA MG1
- 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
- CSA Certification
 - Class I, Division 2, Group A, B, C & D
 - Class II, Division 2 Group E, F & G (Group E : up to 320Fr.)
- Service Factor 1.15 and Temperature rise B are applicable under the condition of sine wave power.
- Service Factor 1.25 is applicable to motors of 100HP or less with temperature rise F & Non-Hazardous.
- 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.

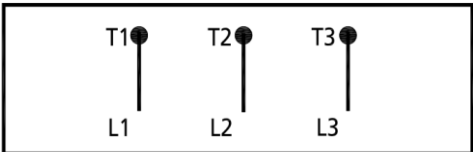
MAIN NAMEPLATE

4.72

25HP		2P	460V	Cat. No.	IEEEV25-36-284TSCRD				
Model	HLS284PR138V			INS. Class	F	HD-F1	Amps	28.5A	
Type	HLS	Duty	CONT	Code	G	Amb.	40°C	Hertz	60Hz
Frame	284TSC	Encl.	TEFC	S.F.	1.15	RPM	3560	NEMA Nom. Eff.	91.7%
Bearing	Drive	6310ZC3			S.F.1.25 (When 100HP or less, Temp Rise F & Non-Hazardous)			3/4 Eff.	90.7%
	Opp.	6310ZC3			S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)			NEMA Design	B
Usable at	50Hz 25HP 380V 38.6A 2950rpm S.F.: 1.0 Eff.: 91.0% Code: F								
	50Hz 25HP 400/415V 37.0/36.1A 2960/2960rpm S.F.: 1.0 Eff.: 91.0/91.0% Code: F/G								
CSA Certified for	Model	-	Type	PJP	Temp. Code	Frame	140~320FR	360~400FR	440FR
	CLASS I, Div. 2, Gr. A, B, C & D	CLASS II, Div. 2 Gr. E, F & G (Gr. E : Up to 320FR)			Amb. 40°C	T3C (160°C)	T3B (165°C)	T3A (180°C)	
	CLASS I, Zone 2, Gr. IIA, IIB, & IIC				Amb. 55°C	T3A (180°C)	T3A (180°C)	T3 (200°C)	
No.	-	Date	-	Weight	365 lb				
MARINE DUTY IEEE45 IEEE Std 841-2021				4M-138416	Made in Vietnam H4 Designed By HYUNDAI, Korea		HD HYUNDAI ELECTRIC		

2.36

WIRING DIAGRAM

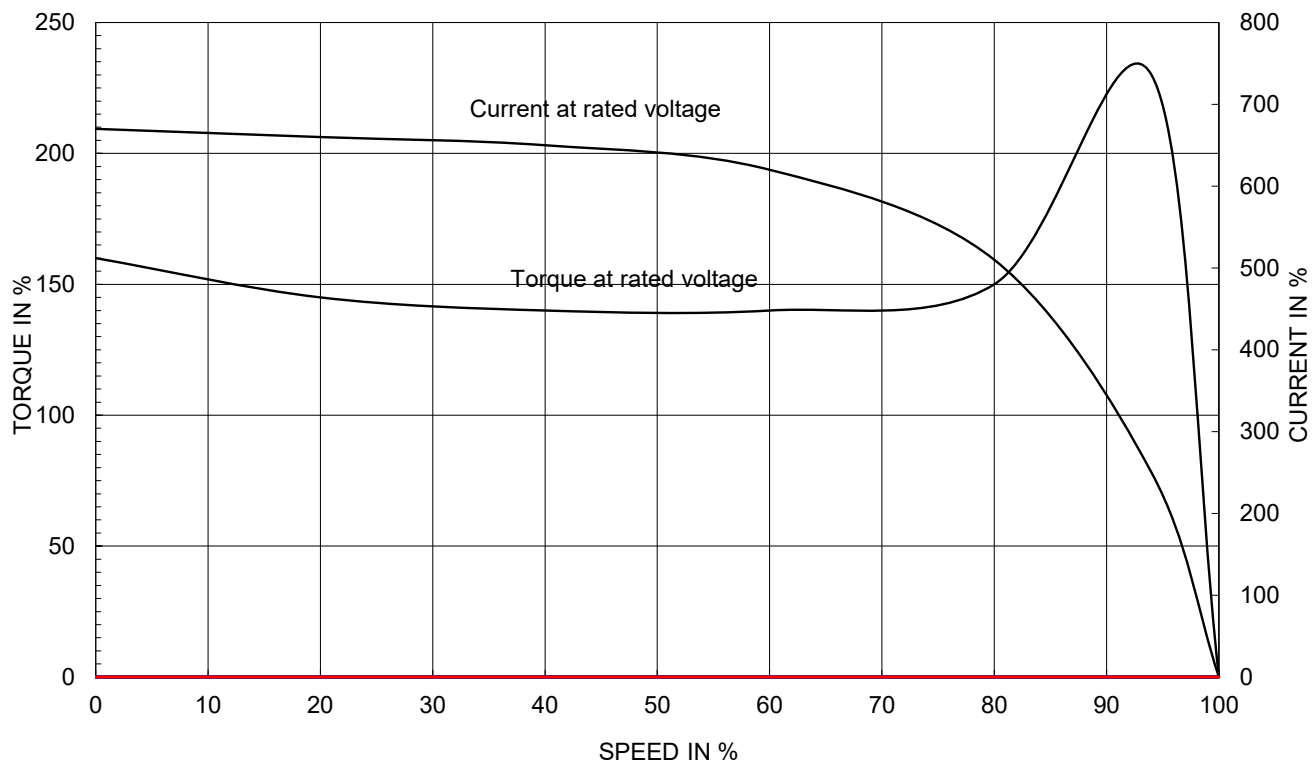
D.O.L (INVERTER & SOFT STARTER)	WYE-DELTA (Y-D)
WARNING IMPROPER INSTALLATION, CONNECTION, OPERATION, GROUNDING OF THIS MOTOR MAY CAUSE SERIOUS INJURY TO PERSONNEL OR MOTOR FAILURE. READ INSTRUCTIONS CAREFULLY. GROUNDING SHOULD BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL SOUND PRACTICES.  KEEP FINGERS AND FOREIGN OBJECTS AWAY FROM OPENINGS AND ROTATING PARTS DISCONNECT ALL POWER SOURCES BEFORE TOUCHING INTERNAL PARTS TO AVOID ELECTRICAL SHOCK. 4M-128796	N/A

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 IEEE841 (SSEN, 254-326)	DWG SIZE	A4 (1:1)		
CHKD BY	I.K.KIM	SCALE	NONE	TITLE	NAMEPLATE DRAWING	REF. NO	4M-138416 / 4M-128796		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle					Sheet No.	of
DSND BY	S.H.LEE	DATE	2024.06.07						
HD HYUNDAI ELECTRIC				Revision No.	0				

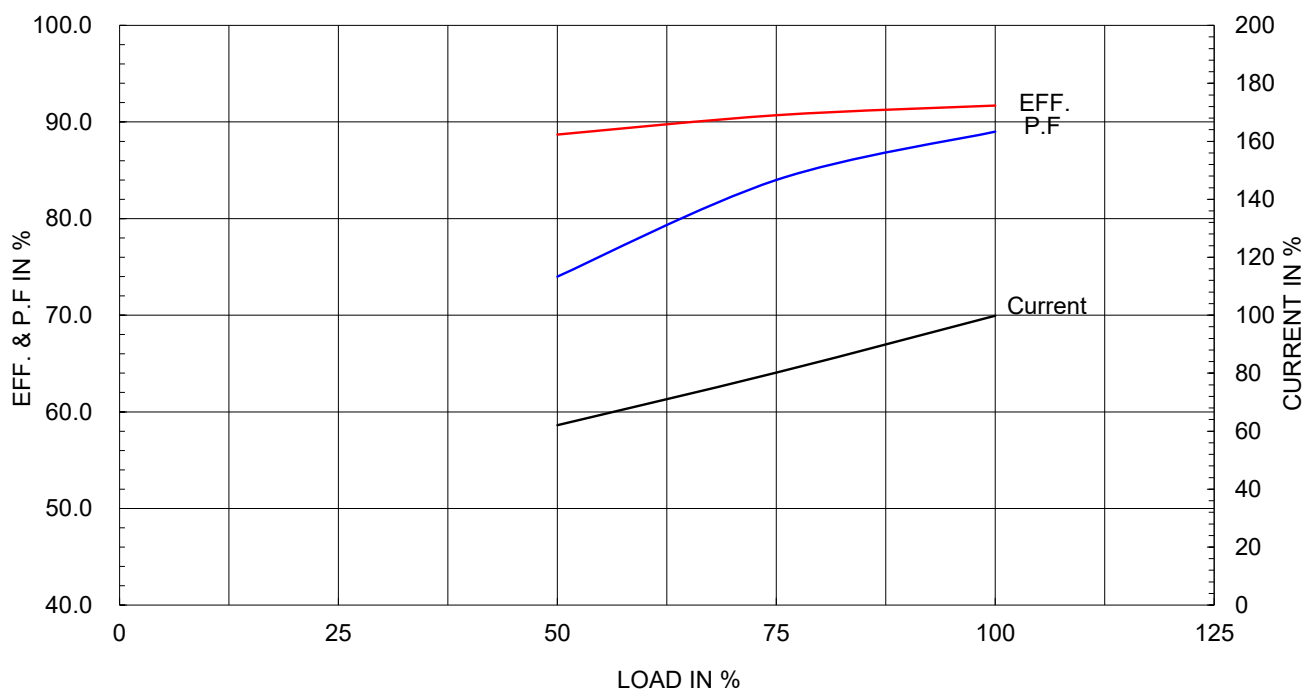
Type :	PJP	
Full Load Torque :	36.61	lb.ft
Load moment of Inertia (J) :	24.985	lb.ft2
Motor moment of Inertia (J) :	1.899	lb.ft2

18.5kW	25HP	2 P	60 Hz
Speed at Full Load :		3560 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	22.8A	28.5A	56.9A

SPEED VS TORQUE & CURRENT CURVE

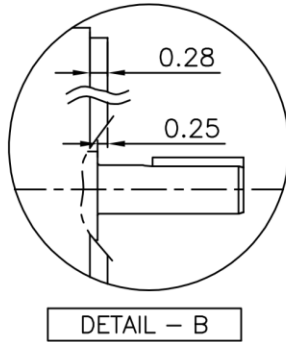
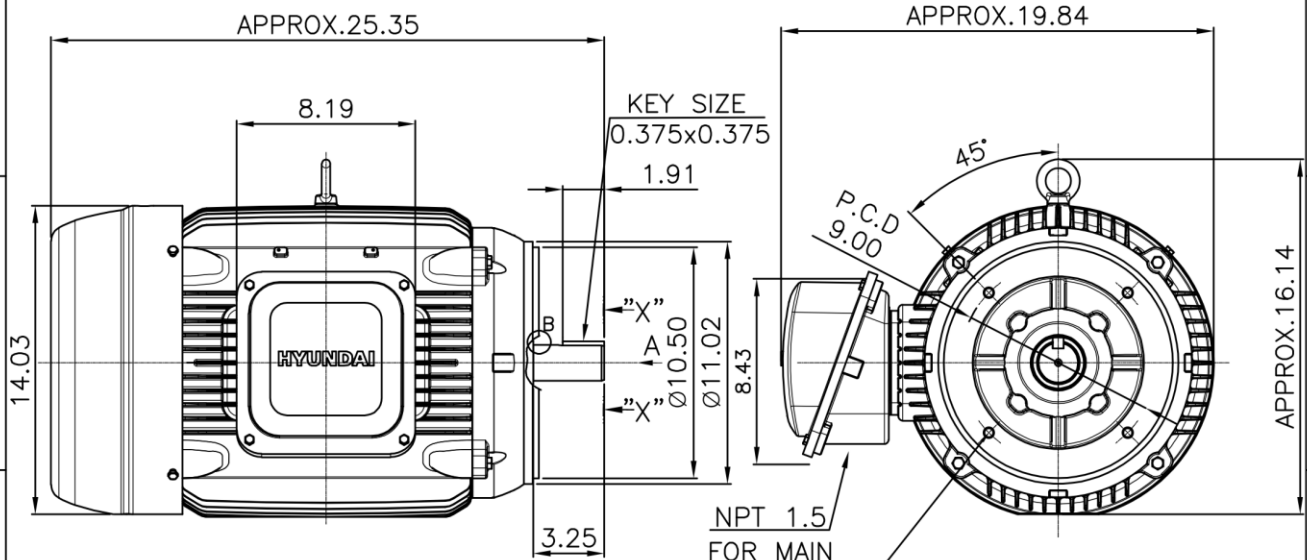


OUTPUT VS EFF., P.F & CURRENT CURVE

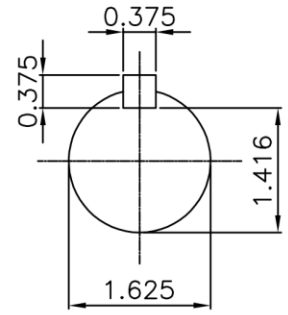


1	2	3	4	
▽	50S	REV	DATE	CONTENTS
▽▽	12.5S			
▽▽▽	3.2S			
▽▽▽▽	0.4S			

IEEE841



VIEW "A"



SECTION "X-X"
SCALE 4/8.5

NOTE

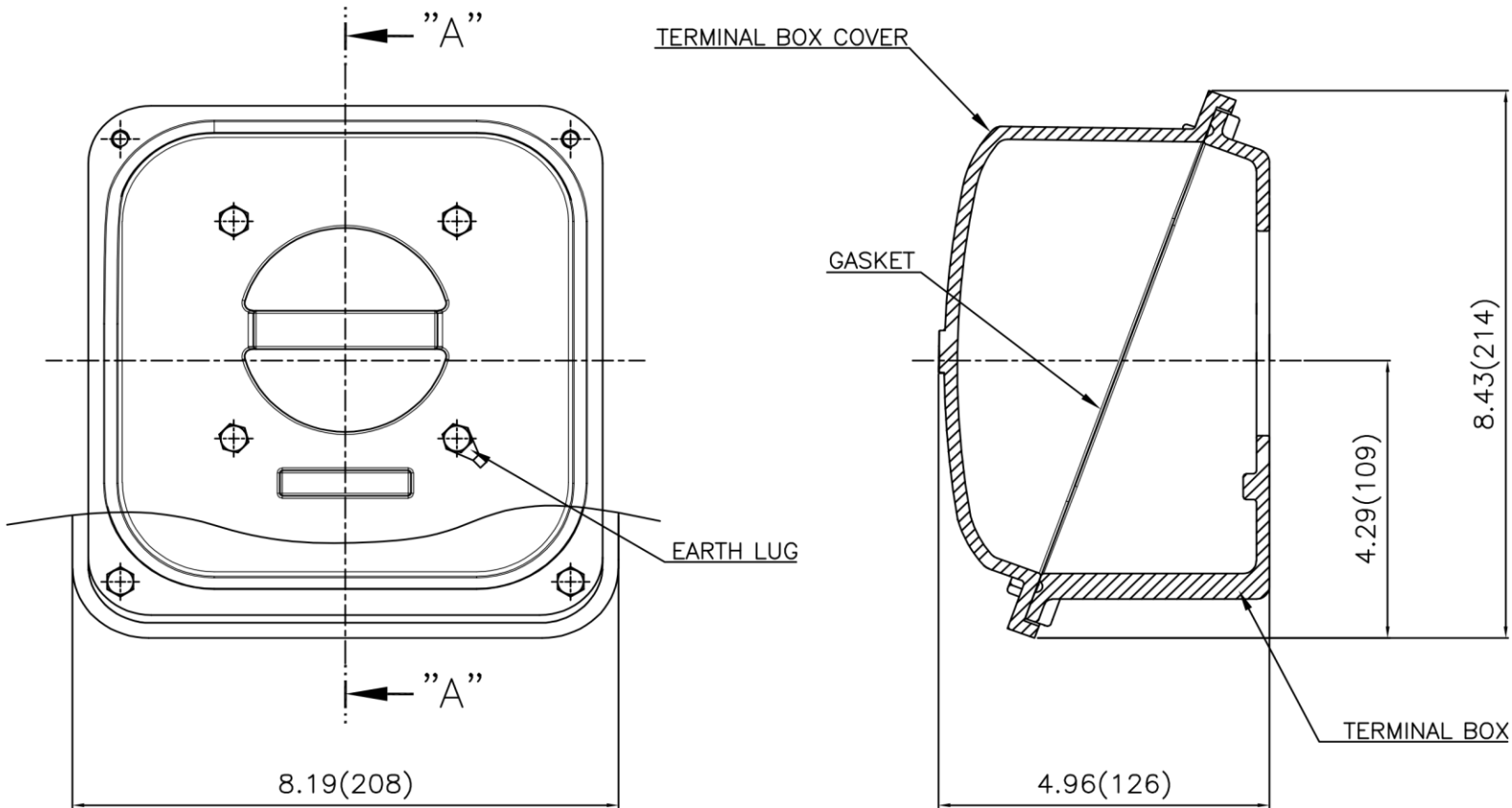
[TOLERANCE]

- CENTER HEIGHT : +0.00inch - 0.03inch
- SHAFT DIAMETER : +0.000inch - 0.001inch
- KEYWAY DEPTH : +0.000inch - 0.015inch

APPD BY	S.Y.KIM	UNIT	inch	SUBJECT	NEMA 284TSC	DWG SIZE
CHKD BY	R.G.KIM	SCALE	1/8.5			A4 (1:8.5)
CHKD BY		PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND BY	주유림	DATE	2021-04-28	REF. NO	.	Sheet No. of
				DWG NO	LM-I2284C5CLV23	Revision No. 0

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	

