

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

Catalog No.	HES5-36-184TCRD	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	184TC	Rated Output	3.7 kW 5 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	4.88 A	6.10 A 12.2 A
Insulation Class	F		Locked-rotor**	800 %	800 % 800 %
Temp. Rise at full load (by resistance method)		Efficiency			
at 1.0 S.F	80 deg. C	50% Load 85.5 %			
Motor Location	☐ Indoor ☐ Outdoor	75% Load 87.5 %			
Altitude	Less than 1,000 meter	100% Load 88.5 %			
Relative Humidity	Less than 80 %	Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)	50% Load 0.710			
Duty Type	Continuous (S1)	75% Load 0.810			
Service Factor	1.15	100% Load 0.860			
Mounting	B5	Speed at Full Load		3515 r.p.m	
Bearing	Type	Anti-Friction		Torque	
	DE/N-DE	6206ZZC3 / 6206ZZC3		Full Load 7.42 lb.ft	
	Lubricant	Grease(Polyrex-EM)		Locked-rotor** 190 %	
External Thrust	Not applicable		Breakdown** 260 %		
Coupling Method	☒ Direct ☐ V-belt	Moment of Inertia (J)			
Shaft Extension	Single	Load(Max.) 6.170 lb.ft2			
Terminal	Main	Motor 0.166 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/sec (peak)			
Area classification	Hazardous	Permissible number of			
Type of Ex-Protection	Class I&II, Division 2	Cold 3 times			
Applicable Standard	NEMA MG1, CSA C390	Hot 2 times			
		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	
ACCESSORIES		SUBMITTAL DRAWING			
		Outline Dimension Drawing \ Motor Weight(Approx.)			
		B5	LM-T2184C5PLV23	115 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 -. 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			
SPARE PARTS		Date	DSND	CHKD	CHKD APPD
		2025-07-22	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.

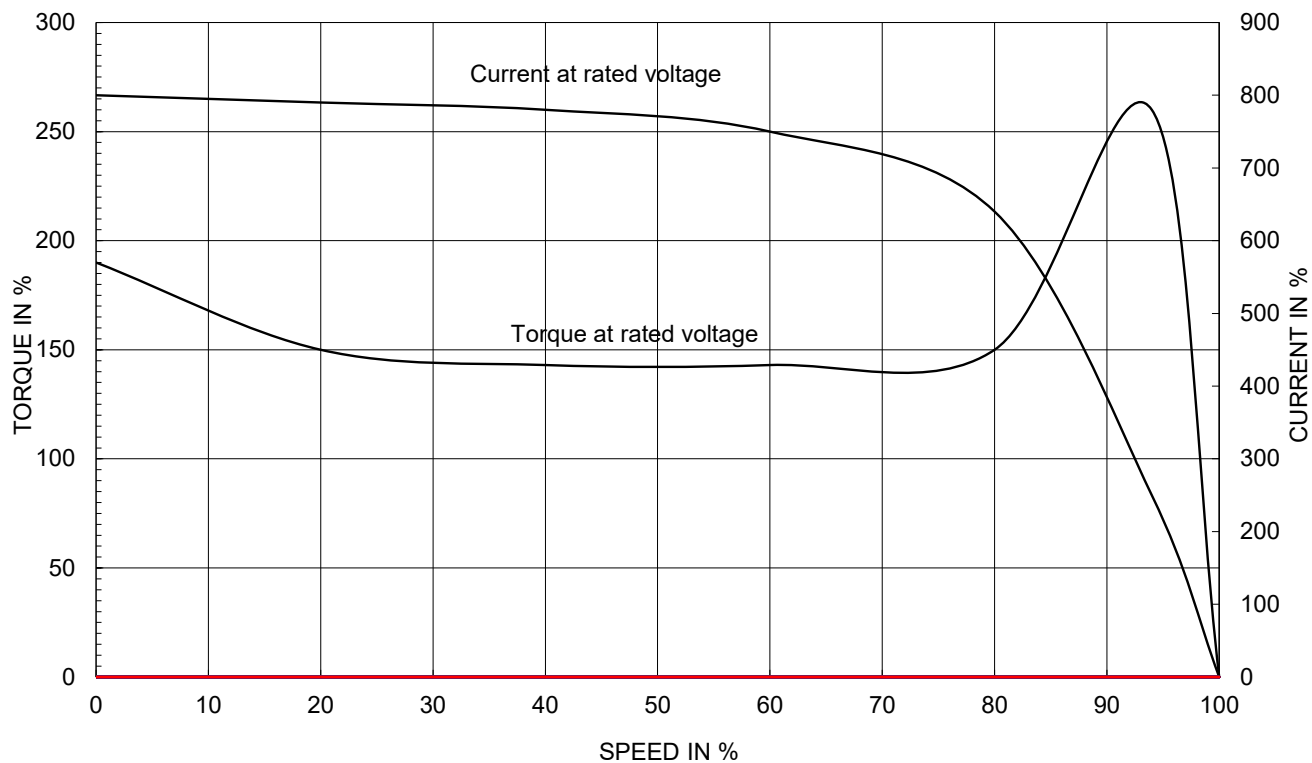
** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.

**HD HYUNDAI
ELECTRIC**

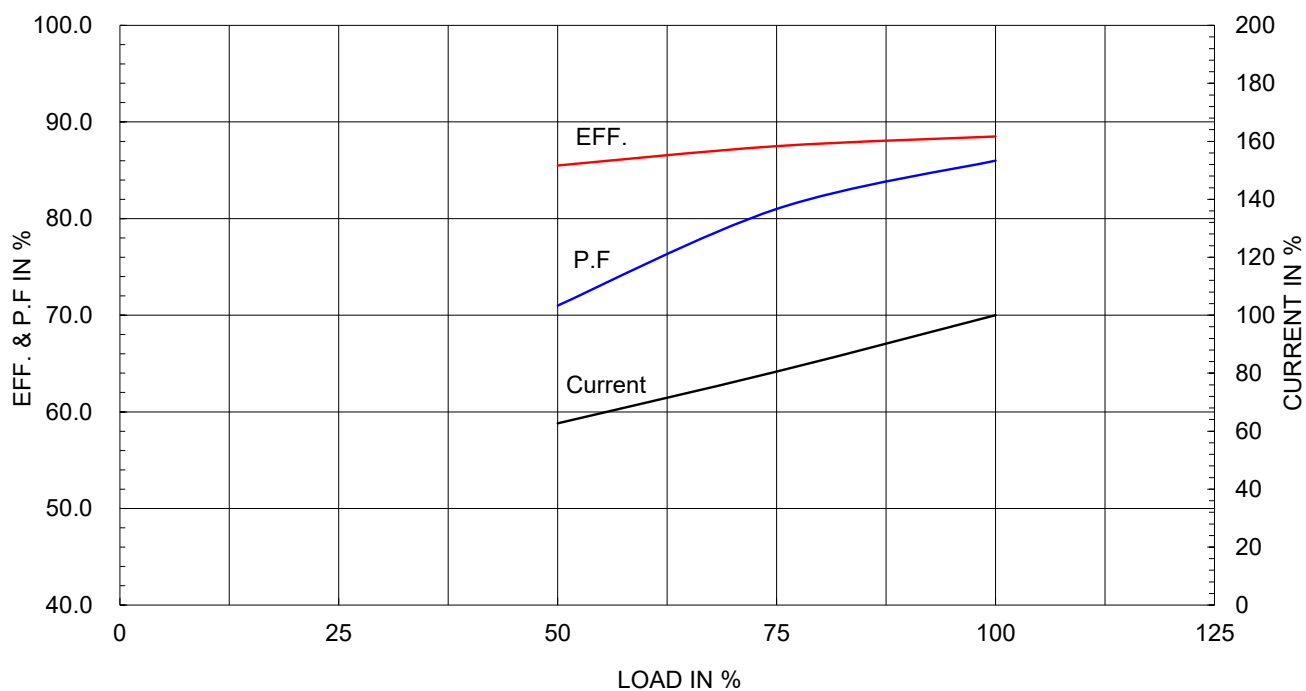
Type :	PJP	
Full Load Torque :	7.42	lb.ft
Load moment of Inertia (J) :	6.170	lb.ft2
Motor moment of Inertia (J) :	0.166	lb.ft2

3.7kW	5HP	2 P	60 Hz
Speed at Full Load :		3515 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	4.88A	6.10A	12.2A

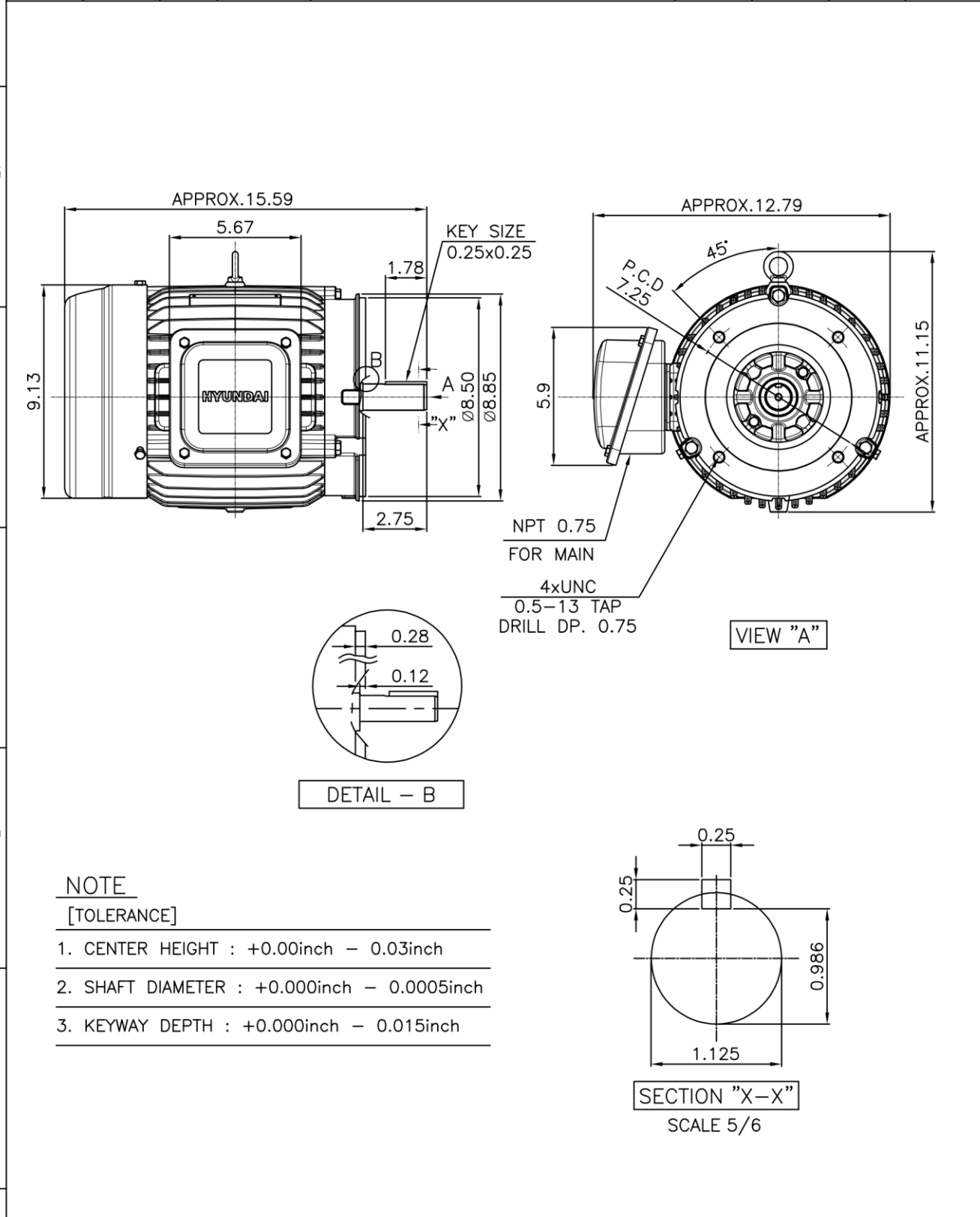
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

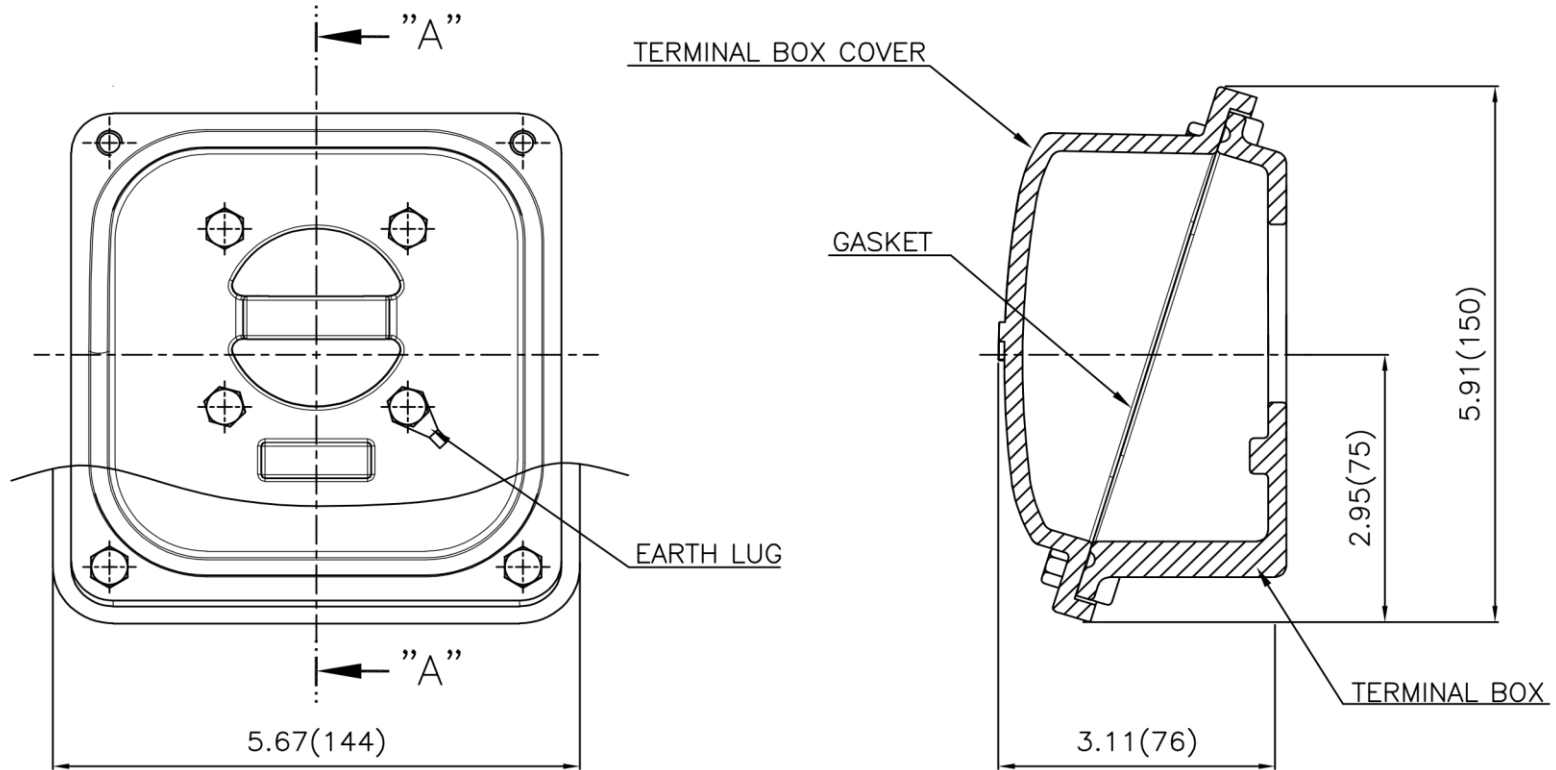


1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



APPD BY	S.Y.KIM	UNIT	inch	SUBJECT	NAMA 184TC	DWG SIZE	A4 (16)
CHKD BY	R.G.KIM	SCALE	1/6	TITLE	OUTLINE		
CHKD BY		PROJEC'N	3rd Angle				
DSND BY	전지현	DATE	2021-04-28				
				REF. NO		Sheet No.	of
				DWG NO	LM-T2184C5PLV23	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		일반재공공차	
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. 140-180 (CAST IRON)	DWG SIZE	
CHKD BY		SCALE	1/1.5	TITLE	TERMINAL BOX ASS'Y	A3 (1:1.5)	
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	네슬피	DATE	2023-10-19	DWG NO	3M-248456	Revision No.	0

