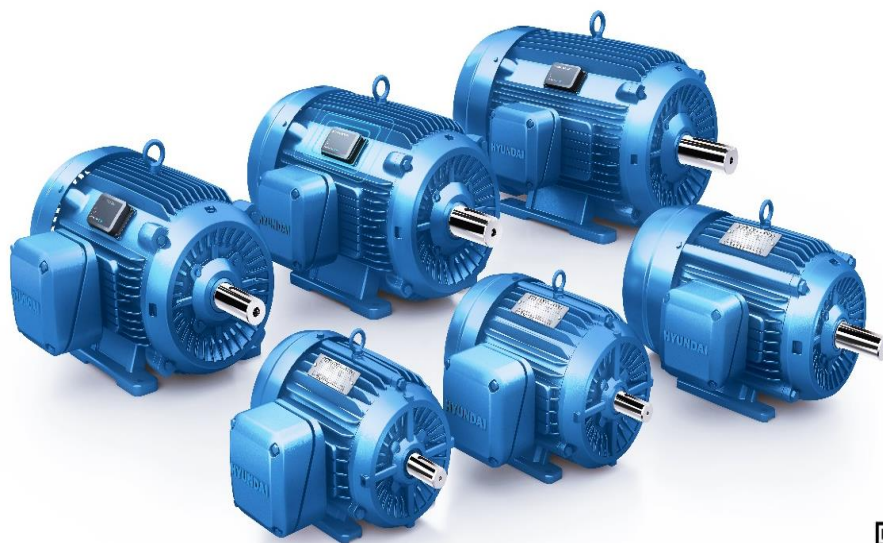


Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

AC INDUCTION MOTOR DATA SHEET

Catalog No.	HES5-18-184TCRD	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	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	5.19 A	6.49 A	13.0 A
Insulation Class	F			Locked-rotor**	840 %	840 %	840 %
Temp. Rise at full load (by resistance method)			Efficiency				
	at 1.0 S.F	80 deg. C	50% Load 86.5 %				
Motor Location	☐ Indoor ☐ Outdoor		75% Load 88.5 %				
Altitude	Less than 1,000 meter		100% Load 89.5 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.650				
Duty Type	Continuous (S1)		75% Load 0.750				
Service Factor	1.15		100% Load 0.800				
Mounting	B5		Speed at Full Load	1760 r.p.m			
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6206ZZC3 / 6206ZZC3	Full Load 14.81 lb.ft				
	Lubricant	Grease(Polyrex-EM)	Locked-rotor** 210 %				
External Thrust	Not applicable		Breakdown** 260 %				
Coupling Method	☒ Direct ☐ V-belt		Moment of Inertia (J)				
Shaft Extension	Single		Load(Max.) 35.061 lb.ft2				
Terminal	Main	Cast Iron	Motor 0.309 lb.ft2				
Box	Aux.	No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	60 dB(A)				
Application			Vibration 3.8 mm/sec (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.)				
			B5	LM-T2184C5PLV23	115 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				
			- 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
			2025-07-22	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.

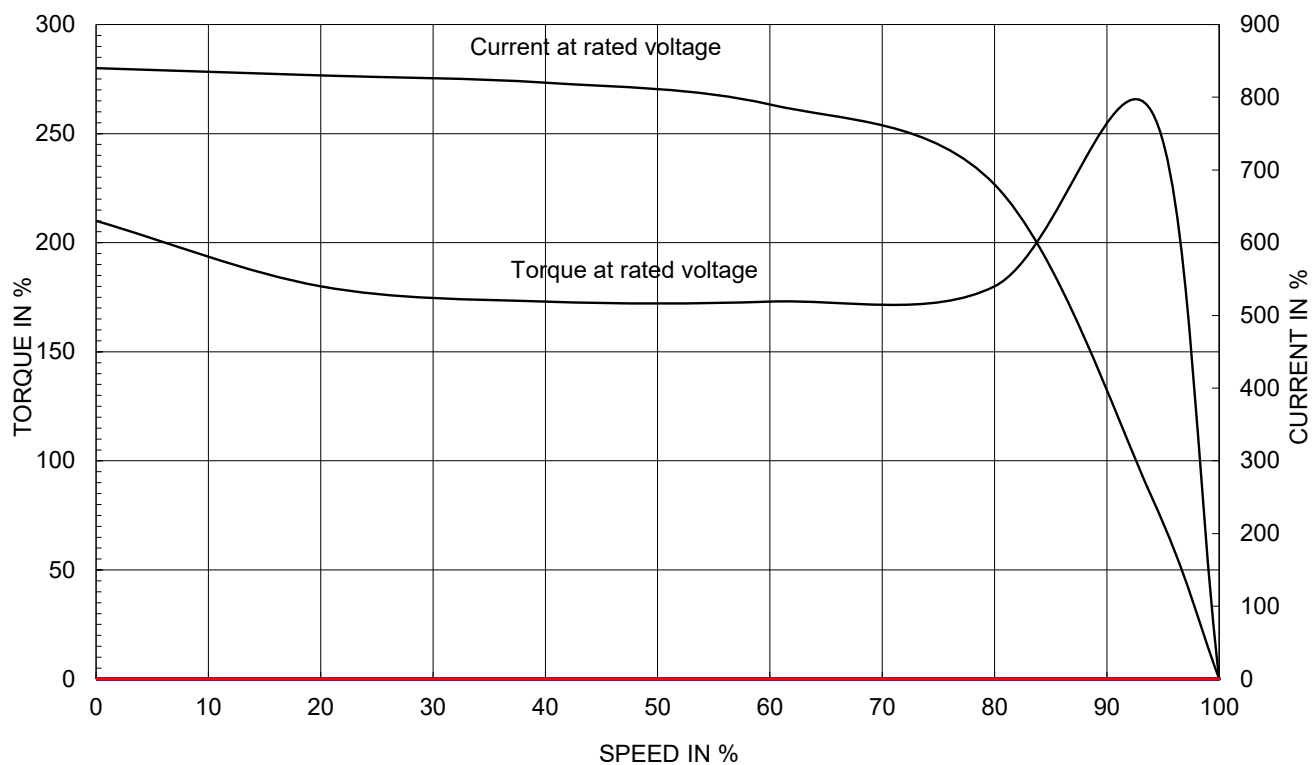
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

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

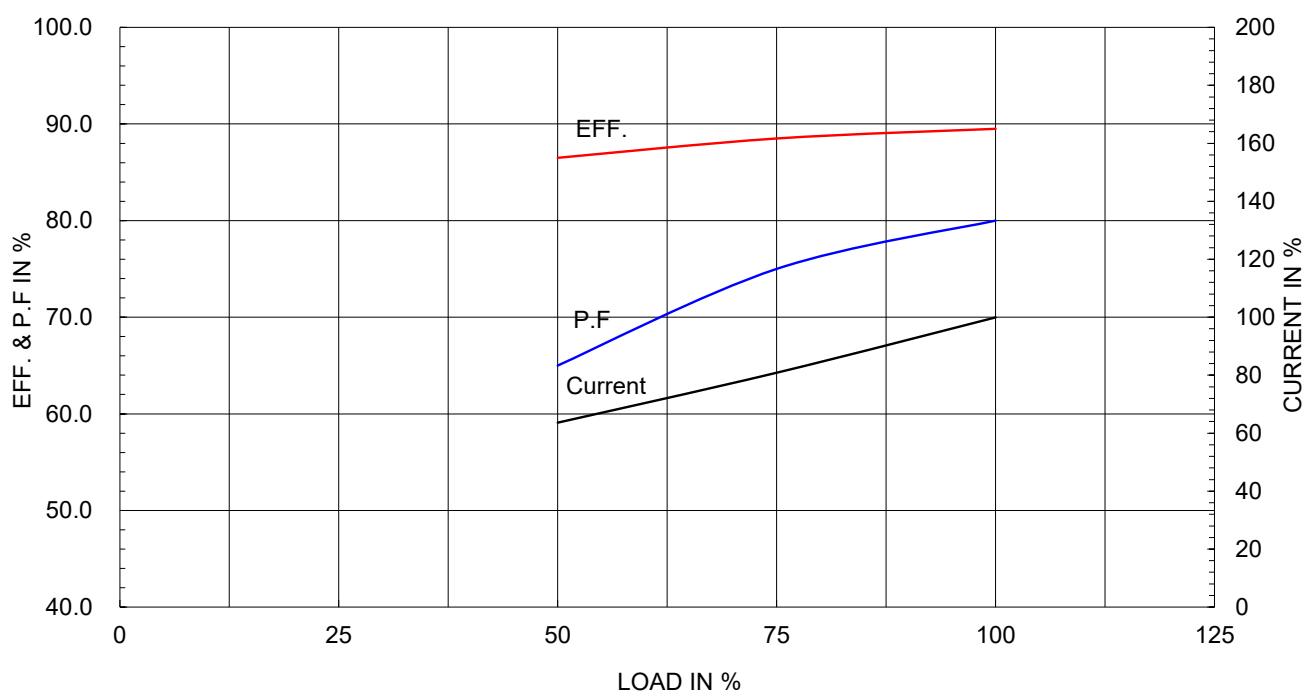
Type :	PJP	
Full Load Torque :	14.81	lb.ft
Load moment of Inertia (J) :	35.061	lb.ft2
Motor moment of Inertia (J) :	0.309	lb.ft2

3.7kW	5HP	4 P	60 Hz
Speed at Full Load :			1760 RPM
Rated Voltage	575V	460V	230V
Full Load Current	5.19A	6.49A	13.0A

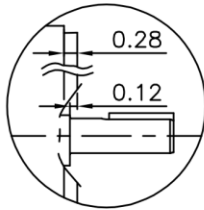
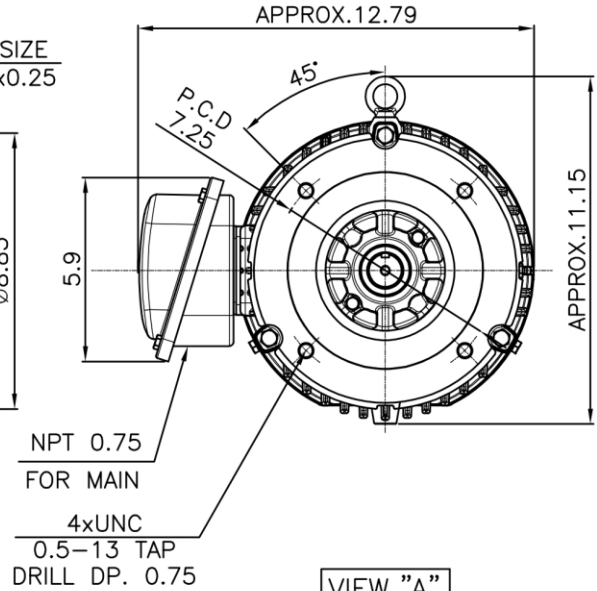
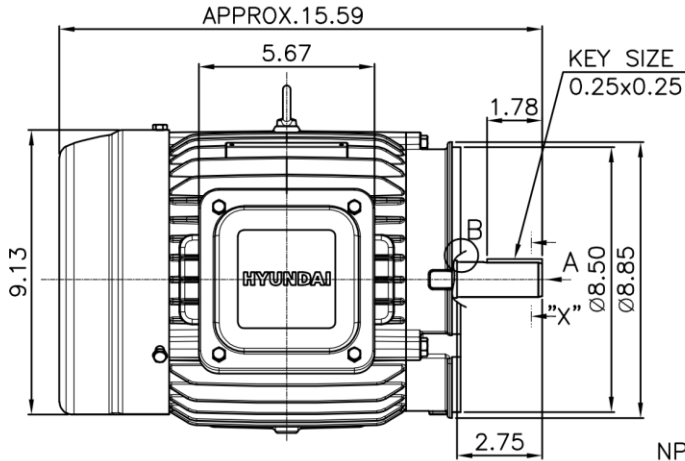
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



1			2		3		4		
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								

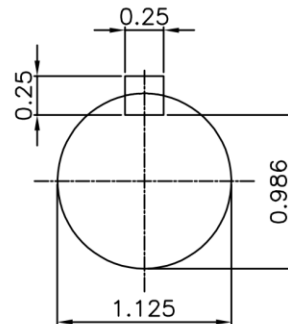


DETAIL - B

NOTE

[TOLERANCE]

1. CENTER HEIGHT : +0.00inch - 0.03inch
2. SHAFT DIAMETER : +0.000inch - 0.0005inch
3. KEYWAY DEPTH : +0.000inch - 0.015inch

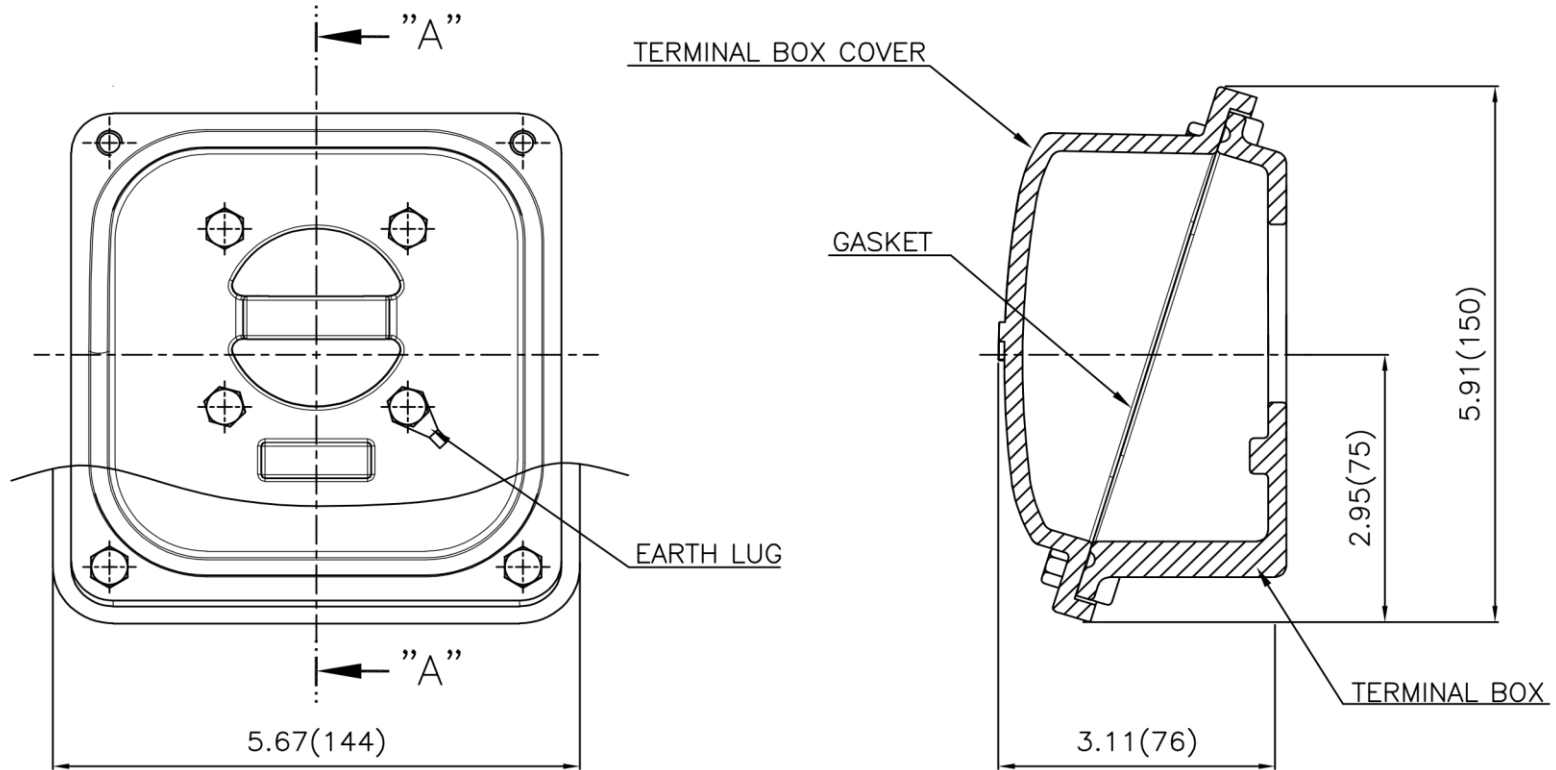


SECTION "X-X"

SCALE 5/6

APPD BY	S.Y.KIM	UNIT	inch	SUBJECT	NAMA 184TC	DWG SIZE
CHKD BY	R.G.KIM	SCALE	1/6	TITLE		A4 (16)
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	일반기공표	일반계공표
1							1-4 ±0.1	6-30 ±0.5
2							4-18 ±0.2	30-120 ±0.8
3							18-63 ±0.3	120-315 ±1.2
4							63-250 ±0.5	315-1000 ±2.0
5							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	

