

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.	HES15-12-284TC	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA			
Frame Size	284TC		Rated Output	11 kW		15 HP
Type	PJP		Number of Poles	6		
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	15.6 A	19.6 A
Insulation Class	F			Locked-rotor**	600 %	600 %
Temp. Rise at full load (by resistance method)			Efficiency			
at 1.0 S.F			80 deg. C			
Motor Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		50% Load		88.7 %	
Altitude	Less than 1,000 meter		75% Load		90.7 %	
Relative Humidity	Less than 80 %		100% Load		91.7 %	
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)			
Duty Type	Continuous (S1)		50% Load		0.620	
Service Factor	1.15		75% Load		0.720	
Mounting	B35		100% Load		0.770	
Bearing	Type	Anti-Friction		Speed at Full Load		
	DE/N-DE	6310ZC3 / 6310ZC3		1175 r.p.m		
	Lubricant	Grease(Polyrex-EM)		Torque		
External Thrust	Not applicable		Full Load		66.0 lb.ft	
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-belt		Locked-rotor**		155 %	
Shaft Extension	Single		Breakdown**		240 %	
Terminal	Main	Cast Iron		Moment of Inertia (J)		
Box	Aux.	No		Load(Max.)		242.105 lb.ft2
	Location	Refer to Outline Drawing		Motor		4.984 lb.ft2
Application			Sound Pressure Level (No-load & mean value at 1m from motor)			
Area classification	Hazardous		65 dB(A)			
Type of Ex-Protection	Class I&II, Division 2		Vibration			
Applicable Standard	NEMA MG1, CSA C390		3.8 mm/sec (peak)			
ACCESSORIES			SUBMITTAL DRAWING			
			Outline Dimension Drawing		Motor Weight(Approx.)	
SPARE PARTS			B35		LM-T2284C4PLV23	375 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.			
			Date	DSND	CHKD	CHKD
2024-07-13		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

4.72

CROWN TRITON G2

Premium Efficiency AC 3 Phase Motor







15HP	6P	230/460V	Cat. No.	HES15-12-284TC			
Model	HLS284PR33		INS. Class	F	HD-F1	Amps	39.1/19.6
Type	HLS	Duty	CONT	Code	G	Amb.	40°C
Frame	284TC	Encl.	TEFC	S.F.	1.15	RPM	1175
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 10HP 380V 19.3A 975rpm S.F.: 1.0 Eff.: 87.2% Code: J						
	50Hz 10HP 400/415V 20/20.9A 980/980rpm S.F.: 1.0 Eff.: 87.2/87.2% Code: K/L						
CSA Certified for	Model	LATER		Type	PJP	Temp. Code	
	CLASS I, Div. 2, Gr. A, B, C & D		CLASS II, Div. 2 Gr. E, F & G		Frame	Amb. 40°C	T3C (160°C)
	CLASS I, Zone 2, Gr. IIA, IIB, & IIC		(Gr. E: Up to 320FR)			Amb. 55°C	T3A (180°C)
No.	-	Date	-	Weight	375 lb		

4M-136024


MARINE DUTY IEEE45

Made in Vietnam H4

Designed By HYUNDAI, Korea



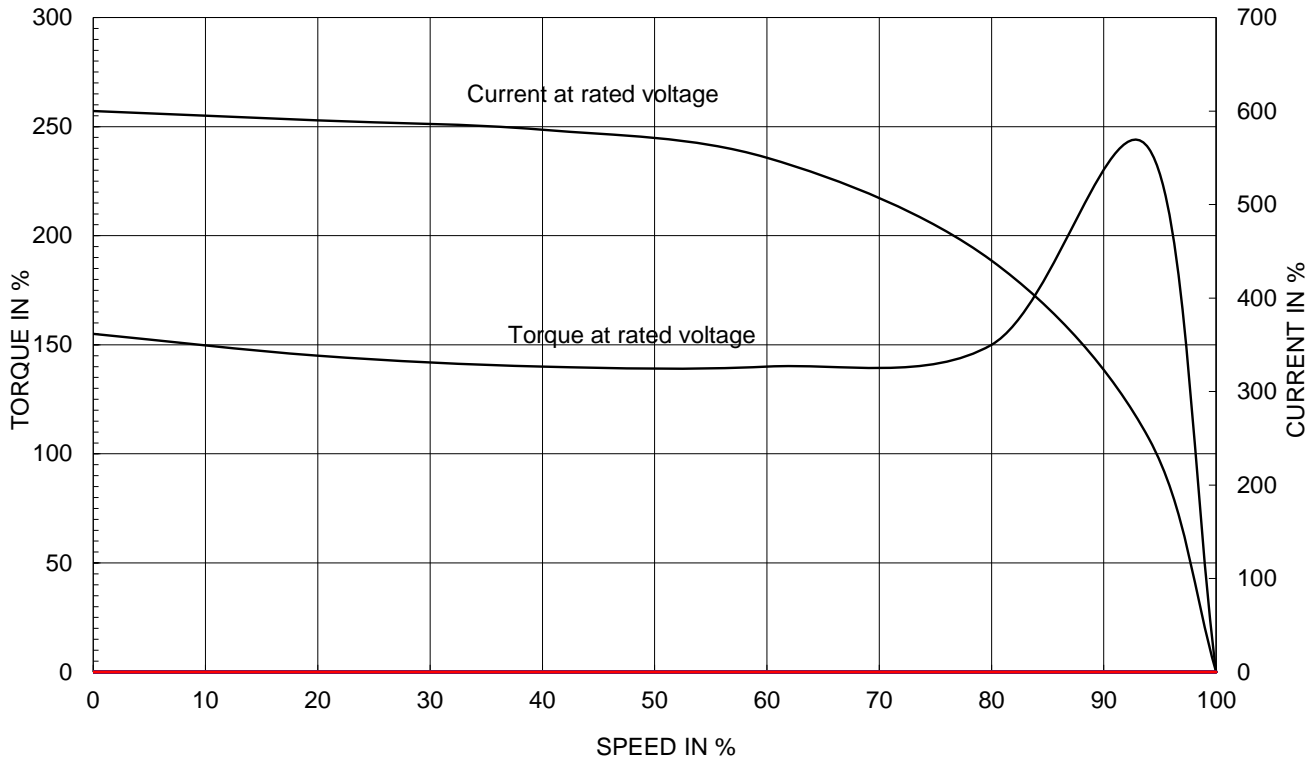
2.36

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, 254-326)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	NAMEPLATE DRAWING		
DSND BY	S.H.LEE	DATE	2024.06.07			
				REF. NO	4M-136024	Sheet No. of
				DWG NO	NP-HES15-12-284TC	Revision No. 0

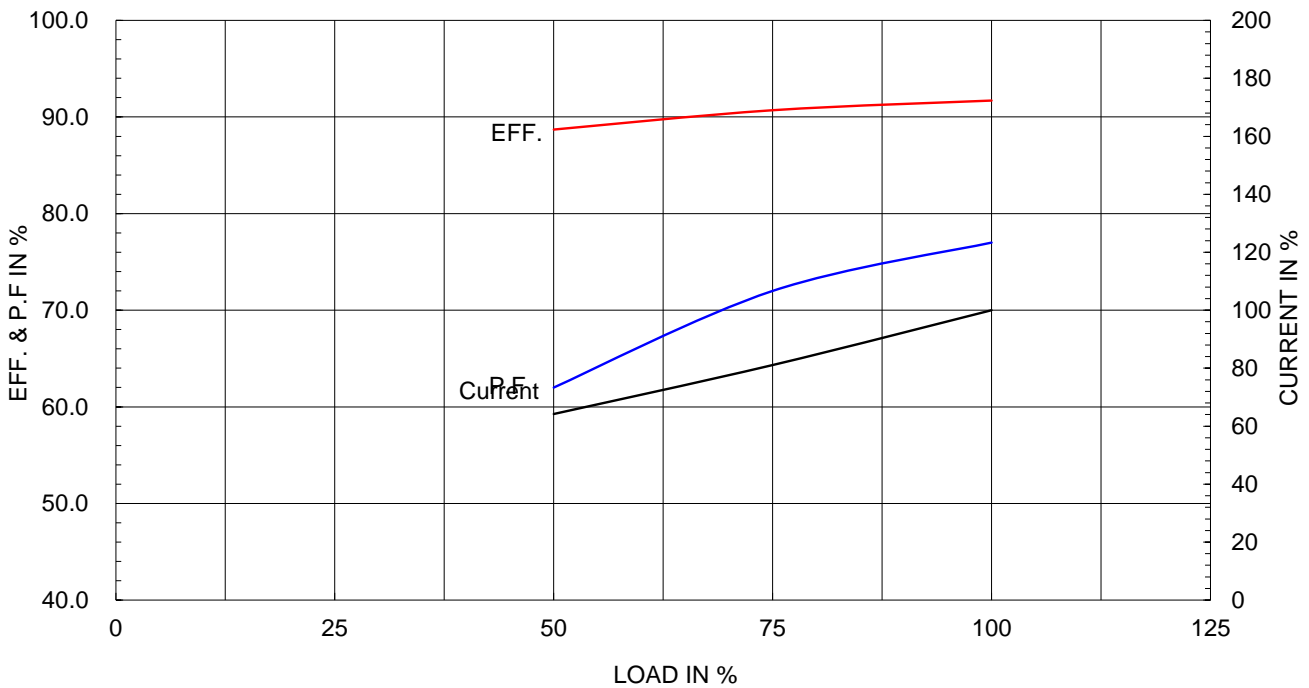
Type :	PJP
Full Load Torque :	66.0 lb.ft
Load moment of Inertia (J) :	242.105 lb.ft ²
Motor moment of Inertia (J) :	4.984 lb.ft ²

11kW 15HP	6 P	60 Hz
Speed at Full Load : 1175 RPM		
Rated Voltage	575V	460V 230V
Full Load Current	15.6A	19.6A 39.1A

SPEED VS TORQUE & CURRENT CURVE



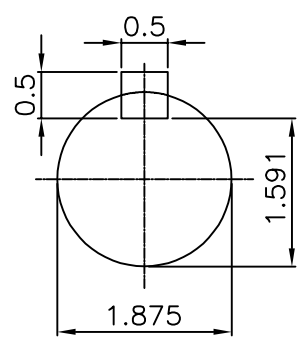
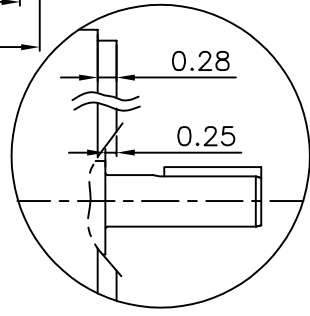
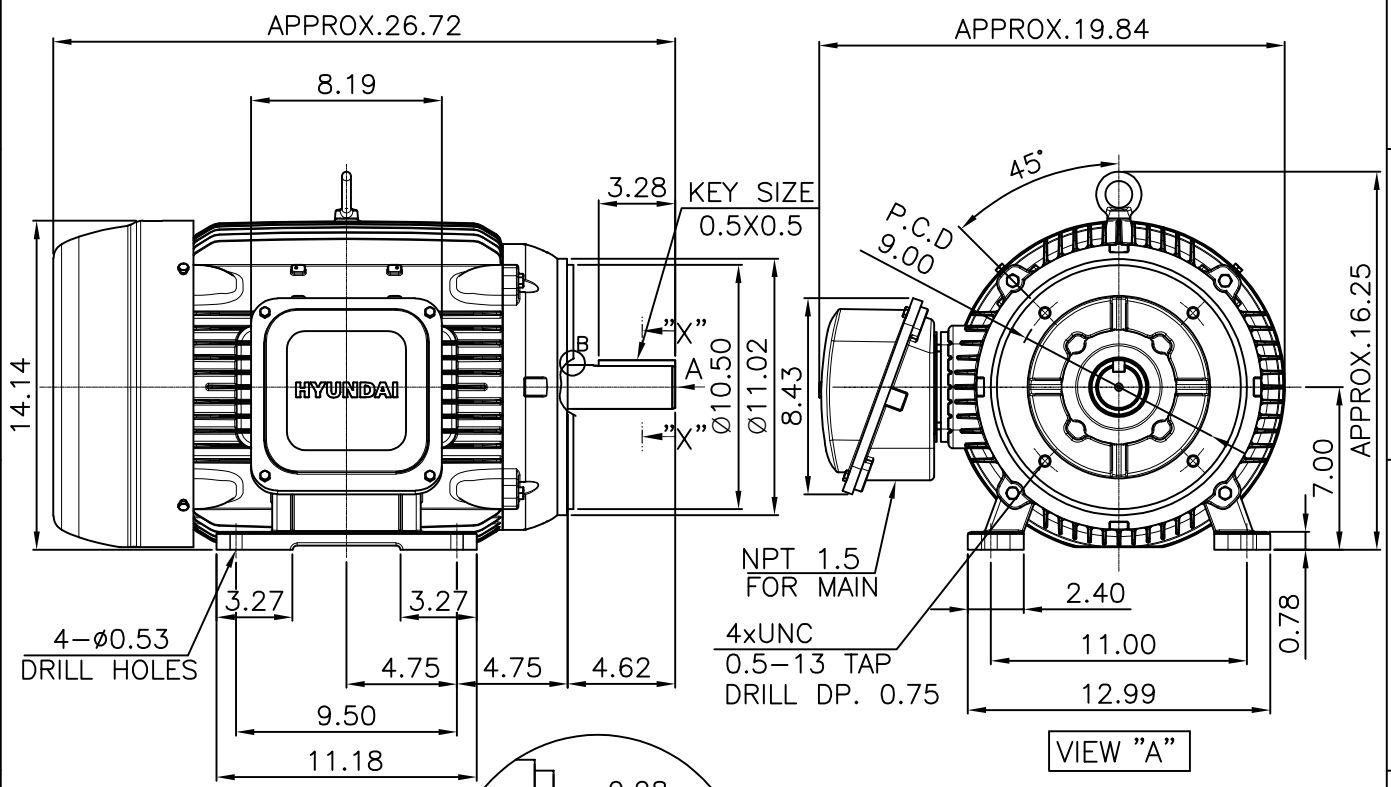
OUTPUT VS EFF., P.F & CURRENT CURVE



본 도면은 HD현대일렉트릭(주) 재산이며 허가없이 복사할 수 없음 (취급주의)

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▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



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	mm	SUBJECT	NEMA 284TC	DWG SIZE	A4 (1:8.5)
CHKD BY	R.G.KIM	SCALE	1/8.5	TITLE	OUTLINE		
CHKD BY		PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	주유림	DATE	2021-04-29	DWG NO	LM-T2284C4PLV23	Revision No.	0





Cls. I&II, Div. 2 IEEE 841



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

일반가공공차		일반제관공차	
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		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	DATE	2023-10-19		
DSND BY	배승희						
REF. NO		Sheet No.	of				
DWG NO	3M-248458	Revision No.	0				

