

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.	HES10-36-215T	Item No.	Rev. No.	[]
Project Name		Project No.	Quantity	sets

GENERAL SPECIFICATION		PERFORMANCE DATA			
Frame Size	215T	Rated Output	7.5 kW 10 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	9.71 A	12.13 A
Insulation Class	F		Locked-rotor**	680 %	680 %
Temp. Rise at full load (by resistance method)		Efficiency			
at 1.0 S.F	80 deg. C	50% Load		87.2 %	
Motor Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	75% Load		89.2 %	
Altitude	Less than 1,000 meter	100% Load		90.2 %	
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	B3	Speed at Full Load	3525 r.p.m		
Bearing	Type	Anti-Friction			
	DE/N-DE	6208ZZC3 / 6208ZZC3			
	Lubricant	Grease(Polyrex-EM)			
External Thrust	Not applicable				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-belt	Torque			
Shaft Extension	Single	Full Load		15.0 lb.ft	
Terminal Box	Main	Locked-rotor**		160 %	
	Aux.	Breakdown**		260 %	
Location	Refer to Outline Drawing	Moment of Inertia (J)			
		Load(Max.)		11.159 lb.ft2	
		Motor		0.451 lb.ft2	
Application		Sound Pressure Level (No-load & mean value at 1m from motor)			
Area classification		73 dB(A)			
Type of Ex-Protection		Vibration			
Applicable Standard		3.8 mm/sec (peak)			
		Permissible number of consecutive starts		Cold 3 times	
				Hot 2 times	
		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)	


ACCESSORIES	SUBMITTAL DRAWING
	Outline Dimension Drawing \ Motor Weight(Approx.)
	B3 LM-T2215B3PLV23 175 lb.

REMARK										
<ol style="list-style-type: none"> 1. Premium efficiency according to NEMA MG1 2. Inverter Duty @ 1.0 Service Factor & F Temperature rise <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 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. 										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Date</td> <td style="width: 20%;">DSND</td> <td style="width: 20%;">CHKD</td> <td style="width: 20%;">CHKD</td> <td style="width: 20%;">APPD</td> </tr> <tr> <td>2024-09-10</td> <td>S.H. Lee</td> <td>I.K. Kim</td> <td>R.G. Kim</td> <td>S.W. Kim</td> </tr> </table>	Date	DSND	CHKD	CHKD	APPD	2024-09-10	S.H. Lee	I.K. Kim	R.G. Kim	S.W. Kim
Date	DSND	CHKD	CHKD	APPD						
2024-09-10	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

3.94

CROWN TRITON G2		Premium Efficiency AC 3 Phase Motor		Cat. No. HES10-36-215T	
10HP	2P	230/460V	Amps 24.27/12.1	Type HLS	Amb. 40°C
Frame 215T	Duty CONT	Encl. TEFC	Model HLS215SR135	NEMA Nom. Eff. 90.2%	
RPM 3525	Hertz 60Hz	S.F. 1.15	INS Class F HD-F1	3/4 Eff. 89.2%	
Bearing	Drive 6208ZZC3	S.F.1.25 (When 100HP or less, Temp Rise F & Non-Hazardous)			NEMA Design B
	Opp. 6208ZZC3	S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)			Code H
Usable at	50Hz 10HP 380V 16.31A 2905rpm S.F.: 1 Eff.: 89.5% Code: G				
	50Hz 10HP 400/415V 15.75/15.45A 2915/2925rpm S.F.: 1 Eff.: 89.5/89.5% Code: H/H				
CSA Certified for	Model LATER	Type PJP	Temp. Code (Sine Wave)	Frame 140-320FR	CE
	CLASS I, Div. 2, Gr. A, B, C & D CLASS I, Zone 2, Gr. IIA, IIB & IIC	CLASS II, Div. 2, Gr. E, F & G (Gr. E: up to 320FR)	Amb.40°C T3C (160°C) Amb.55°C T3A (180°C)		
No. -	Date -	Weight 175 lb	 		
4M-136021 MARINE DUTY IEEE45	Made in Vietnam H4 Designed By HYUNDAI, Korea				

1.57

APPD BY S.Y.KIM	UNIT INCH	SUBJECT CSA Class I, Division2 Severe Duty (HES, 143-215)	DWG SIZE A4 (1:1)
CHKD BY I.K.KIM	SCALE NONE	TITLE NAMEPLATE DRAWING	
CHKD BY R.G.KIM	PROJEC'N 3rd Angle		
DSND BY S.H.LEE	DATE 2024.06.07	REF. NO 4M-136021	Sheet No. of
		DWG NO NP-HES10-36-215T	Revision No. 0



PERFORMANCE CURVE

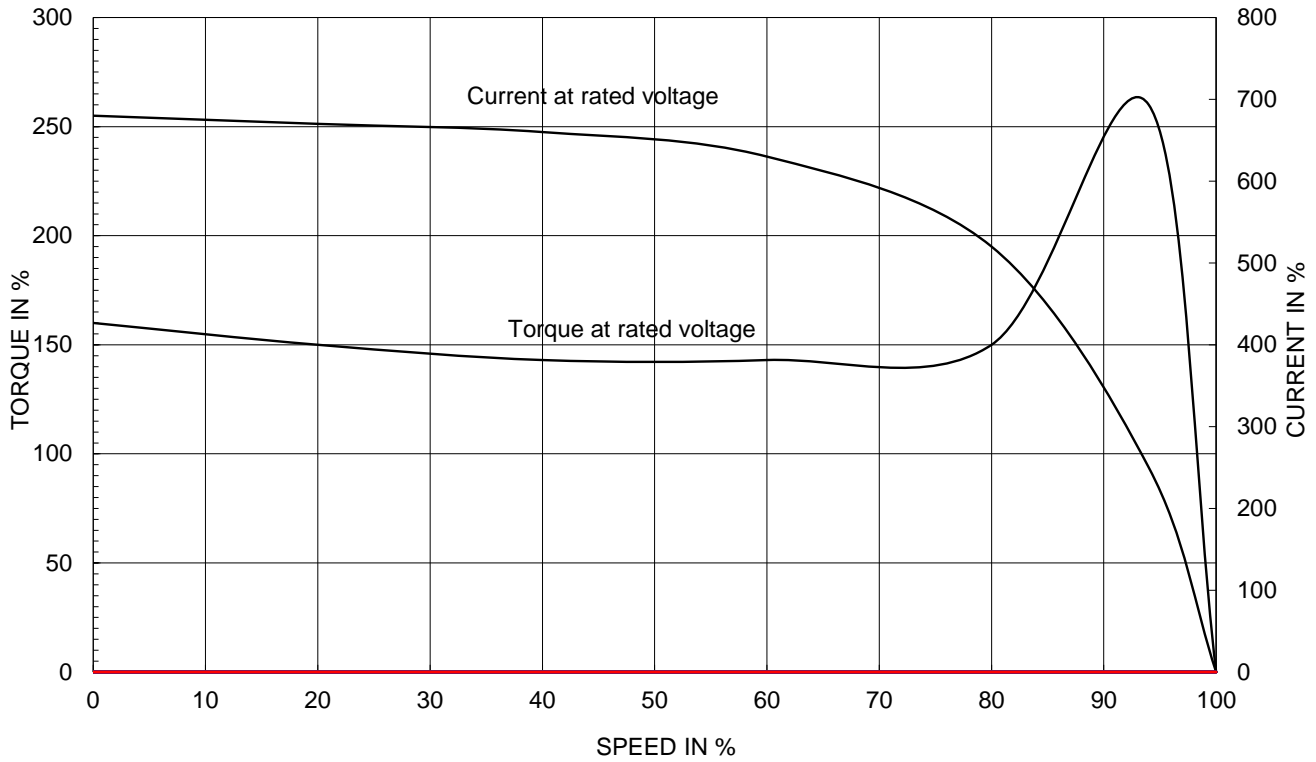
CURVE NO.

PC-HES10-36-215T

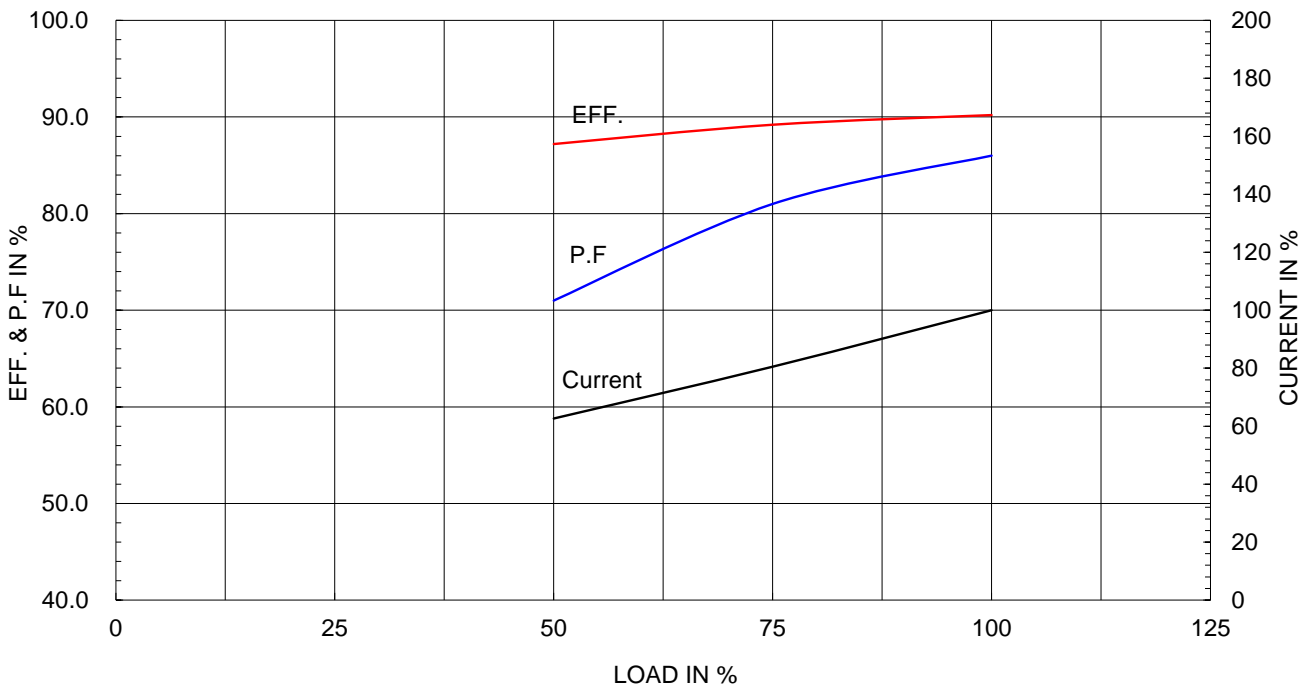
Type :	PJP
Full Load Torque :	15.0 lb.ft
Load moment of Inertia (J) :	11.159 lb.ft2
Motor moment of Inertia (J) :	0.451 lb.ft2

7.5kW 10HP	2 P	60 Hz
Speed at Full Load :		3525 RPM
Rated Voltage	575V	460V 230V
Full Load Current	9.7A	12.1A 24.3A

SPEED VS TORQUE & CURRENT CURVE



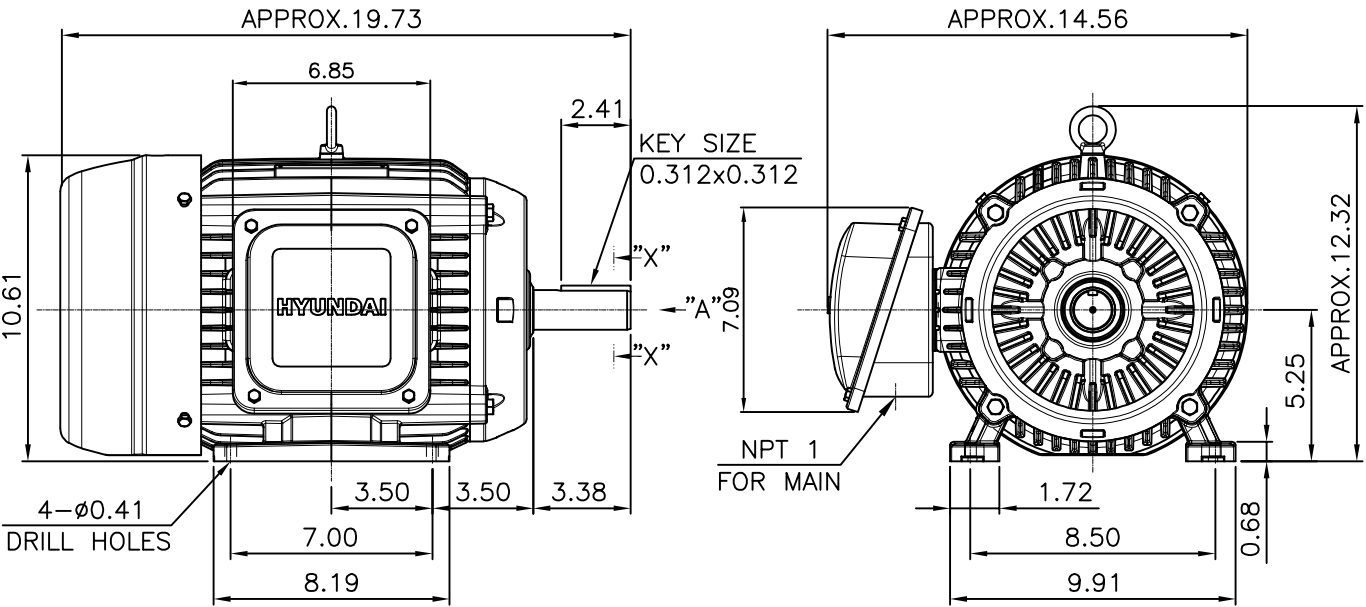
OUTPUT VS EFF., P.F & CURRENT CURVE



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

THIS DRAWING IS PROPRIETARY TO HYUNDAI ELECTRIC. NO PART OF THIS DRAWING MAYBE REPRODUCED WITHOUT THE PERMISSION OF HYUNDAI ELECTRIC.

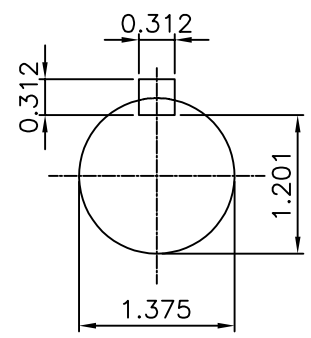
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							



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 4/7

APPD BY	S.Y.KIM	UNIT	inch	SUBJECT	NEMA 215T	DWG SIZE	A4 (1:7)
CHKD BY	R.G.KIM	SCALE	1/7	TITLE	OUTLINE	REF. NO	Sheet No. of
CHKD BY		PROJEC'N	3rd Angle				
DSND BY	주유람	DATE	2021-04-28				
				DWG NO	LM-T2215B3PLV23	Revision No.	0



REF. NO	.	Sheet No.	of
DWG NO	LM-T2215B3PLV23	Revision No.	0

**Cls. I&II, Div. 2
IEEE 841**



SEC. "A" - "A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

일반기공공차		일반재관공차	
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. 210 (CAST IRON)	DWG SIZE	
CHKD BY		SCALE	1/1.5	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-248457	Revision No.	0				

