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.	IEEE75-36-365TS	Item No.		Rev. No.	[ ]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION

Frame Size		365TS
Type		PJP
Enclosure(Protection)		Totally Enclosed / IP55
Method of Cooling		IC411(FC)
Rated Frequency		60 Hz
Number of Phases		3
Insulation Class		F
Temp. Rise at full load (by resistance method)		
	at 1.0 S.F	80 deg. C
Motor Location		☐ Indoor ☐ Outdoor
Altitude		Less than 1,000 meter
Relative Humidity		Less than 80 %
Ambient Temp.		40 deg. C (Max.)
Duty Type		Continuous (S1)
Service Factor		1.15
Mounting		B3
Bearing	Type	Anti-Friction
	DE/N-DE	6213C3 / 6213C3
	Lubricant	Grease(Polyrex-EM)
External Thrust		Not applicable
Coupling Method		☑ Direct ☐ V-belt
Shaft Extension		Single
Terminal Box	Main	Cast Iron
	Aux.	No
	Location	Refer to Outline Drawing
Application		
Area classification		Hazardous
Type of Ex-Protection		Class I&II, Division 2
Applicable Standard		IEEE841, NEMA MG1, CSA C390

PERFORMANCE DATA

Rated Output		55 kW		75 HP
Number of Poles		2		
Rotor Type		Squirrel Cage		
Starting Method*		D.O.L		
Rated Voltage		575 V	460 V	230 V
Current	Full Load	63.9 A	79.8 A	159.7 A
	Locked-rotor**	680 %	680 %	680 %
Efficiency				
	50% Load	91.5 %		
	75% Load	93.5 %		
	100% Load	94.5 %		
Power Factor(p.u)				
	50% Load	0.765		
	75% Load	0.865		
	100% Load	0.915		
Speed at Full Load		3570 r.p.m		
Torque				
	Full Load	108.5 lb.ft		
	Locked-rotor**	140 %		
	Breakdown**	220 %		
Moment of Inertia (J)				
	Load(Max.)	136.450 lb.ft2		
	Motor	11.040 lb.ft2		
Sound Pressure Level (No-load & mean value at 1m from motor)		82 dB(A)		
Vibration		3.8 mm/sec (peak)		
Permissible number of consecutive starts		Cold 3 times		
		Hot 2 times		
Paint	Munsell No.	7.5BG6/1.5		

ACCESSORIES

SPARE PARTS

SUBMITTAL DRAWING

Outline Dimension Drawing	\ Motor Weight(Approx.)	
B3	LM-I1365B3CL001	820 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	APPD
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.

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

4.72

2.36

CROWN TRITON

Premium Efficiency AC 3 Phase Motor

C US Energy Verified

CC038A

75HP 2P 460V			Cat. No.	IEEE75-36-365TS				
Model	HLS365SR02		INS. Class	F HD-F1		Amps	79.8	
Type	HLS	Duty CONT	Code	G	Amb. 40°C	Hertz	60Hz	
Frame	365TS	Encl. TEFC	S.F.	1.15	RPM 3570	NEMA Nom. Eff.	94.5%	
Bearing	Drive 6213C3		S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)			3/4 Eff.	93.5%	
	Opp. 6213C3					NEMA Design	B	
Usable at	50Hz 60HP 380V 79.4A 2968rpm S.F.: 1.0 Eff.: 94.1% Code: G							
	50Hz 60HP 400/415V 75.4/72.6A 2972/2975rpm S.F.: 1.0 Eff.: 94.3/94.5% Code: H/H							

CSA Certified for	Model LATER		Type PJP	Temp. Code (sine wave)	Frame	140~320FR	360~400FR	440FR
	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)	T3B (165°C)	T3A (180°C)
					Amb. 55°C	T3A (180°C)	T3A (180°C)	T3 (200°C)

No.	-	Date	-	Weight	820 lb

IEEE Std 841-2021 **MARINE DUTY IEEE45**

4M-135701 Made in Korea H1

HD HYUNDAI ELECTRIC

APPD BY	S.Y.KIM	UNIT	INCH
CHKD BY	I.K.KIM	SCALE	NONE
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle
DSND BY	S.H.LEE	DATE	2024.06.07

SUBJECT	CSA Class I, Division2 IEEE841 (HL)		DWG SIZE A4 (1:1)
TITLE	NAMEPLATE DRAWING		
REF. NO	4M-135701	Sheet No.	of
DWG NO	NP-IEEE75-36-365TS	Revision No.	0

HD HYUNDAI ELECTRIC

HYUNDAI ELECTRIC

PERFORMANCE CURVE

CURVE NO.

PC-IEEE75-36-365TS

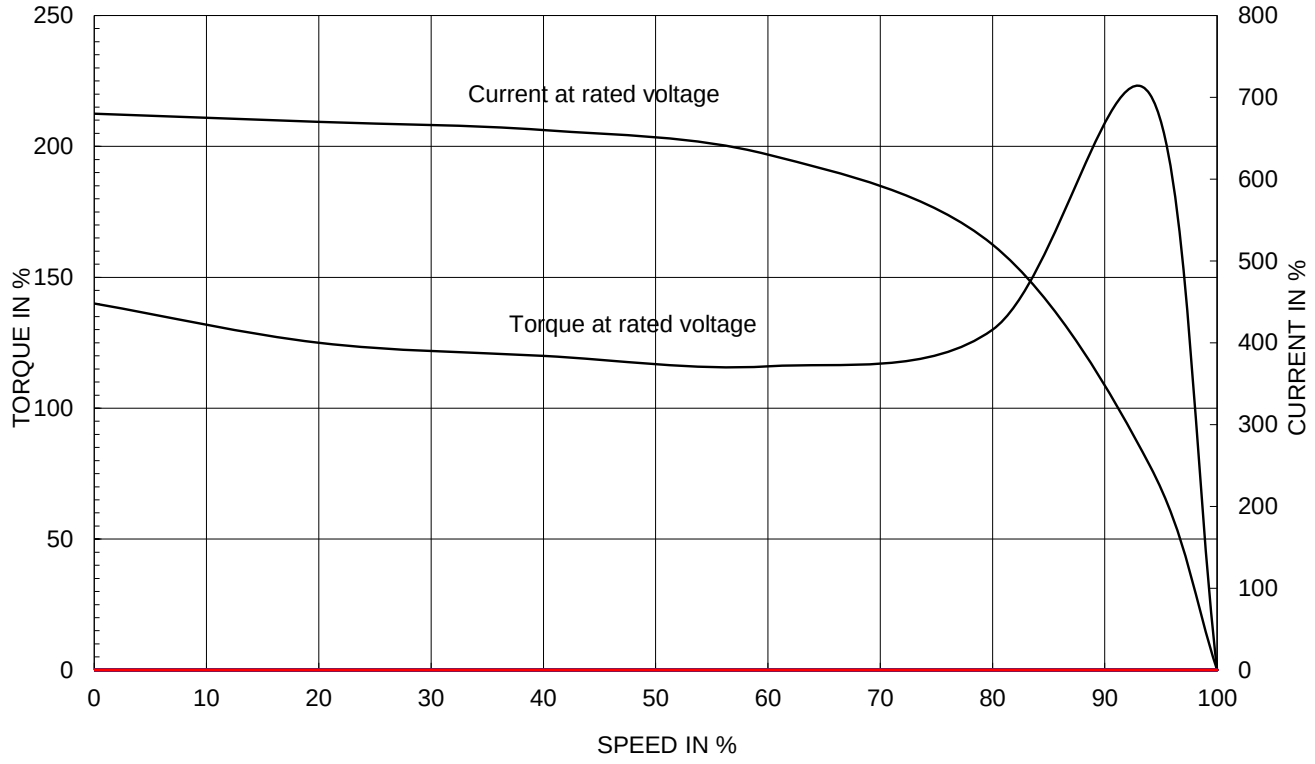
Type :	PJP	
Full Load Torque :	108.5	lb.ft
Load moment of Inertia (J) :	136.450	lb.ft2
Motor moment of Inertia (J) :	11.040	lb.ft2

55kW 75HP 2 P 60 Hz

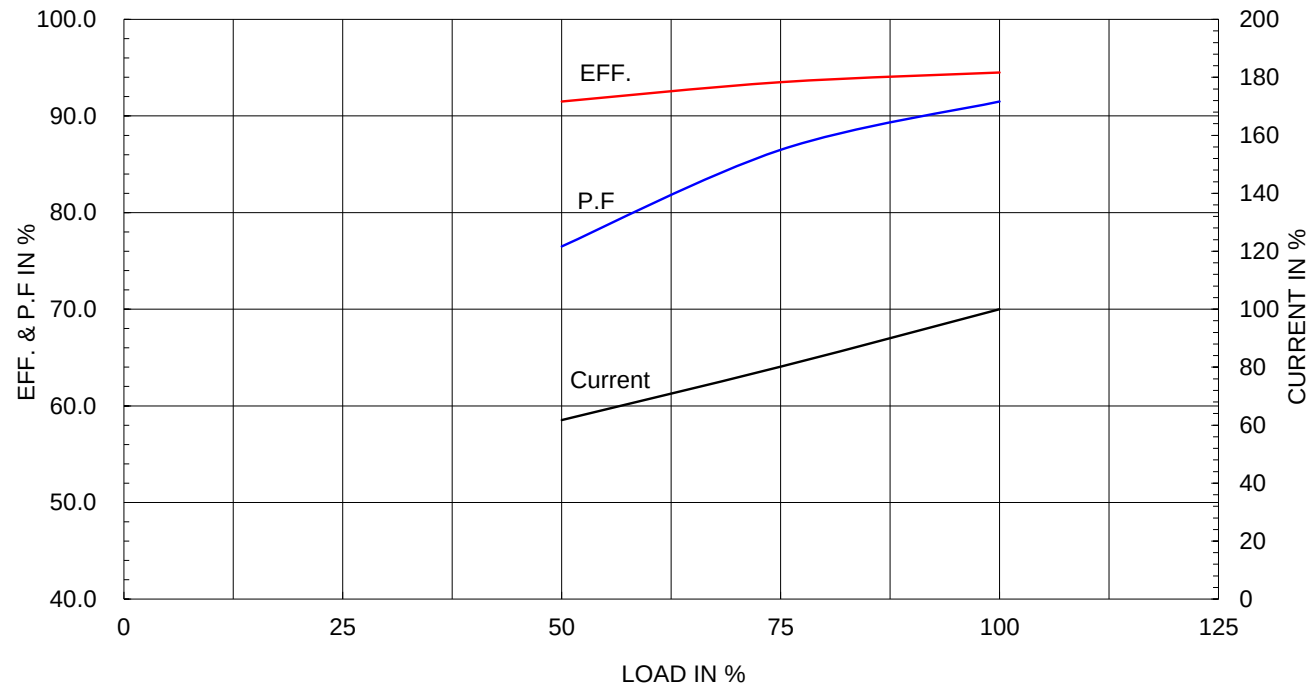
Speed at Full Load : 3570 RPM

Rated Voltage	575V	460V	230V
Full Load Current	63.9A	79.8A	159.7A

SPEED VS TORQUE & CURRENT CURVE

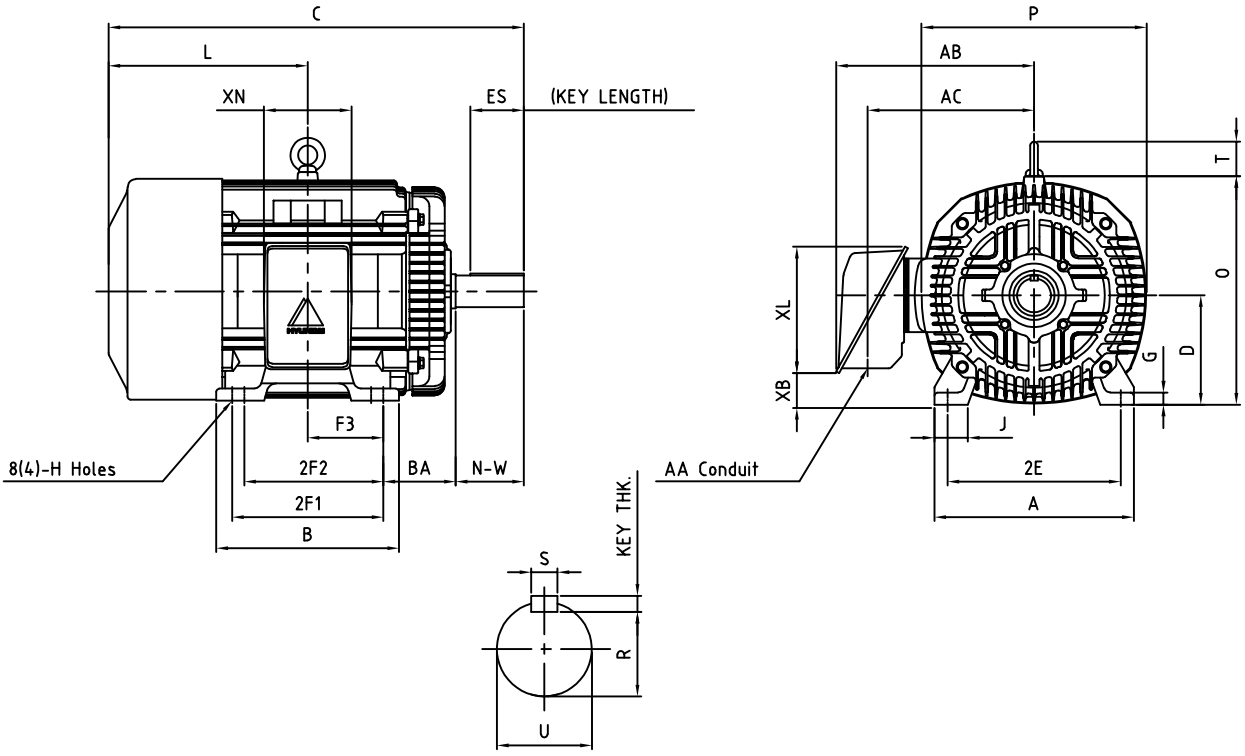


OUTPUT VS EFF., P.F & CURRENT CURVE



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

IEEE841



DIMENSIONS

Unit : inch

MOUNTING									CONDUIT BOX						APPROX. WGT.(LB)
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
16.14	14.92	14.00	12.25	(11.25)	6.122	0.98	2.72	0.66	3.00	17.13	13.18	2.70	10.24	7.09	820

OVERALL							SHAFT					KEY	BEARING	
									KEYWAY					
BA	C	D	L	O	P	T	U	N-W	R	ES	S	THK.	DRIVE END	OPP. DRIVE END
5.88	33.06	9.00	17.32	18.50	18.23	2.80	1.875	3.75	1.591	2.03	0.500	0.500	6213C3	6213C3

NOTE

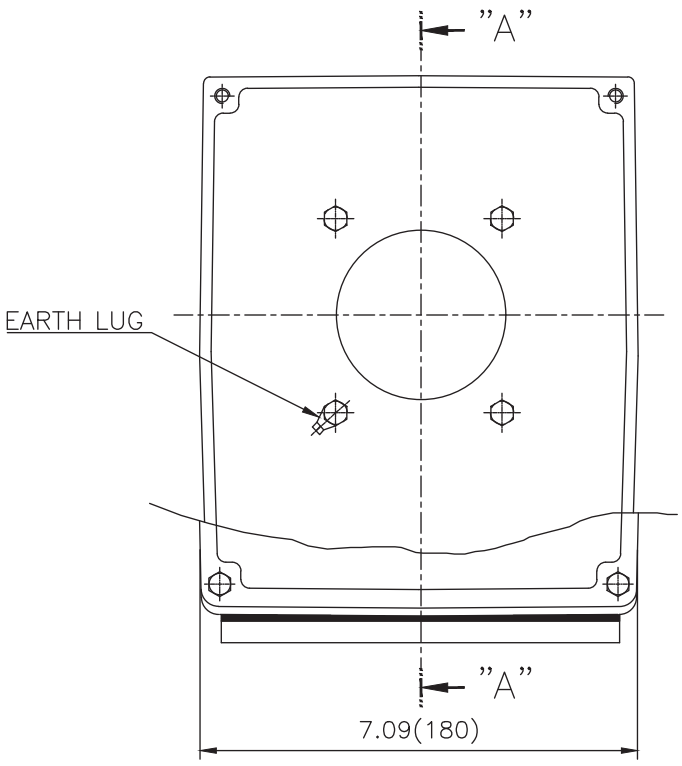
1. Dimension "D" tolerance : +0.00inch – 0.03inch (143T–365T) ; +0.000inch – 0.06inch (404T–449T)
2. Dimension "U" tolerance : +0.000inch – 0.005inch (143T–215T), +0.000inch – 0.001inch (254T–449T)
3. Dimension "R" tolerance : +0.000inch – 0.015inch

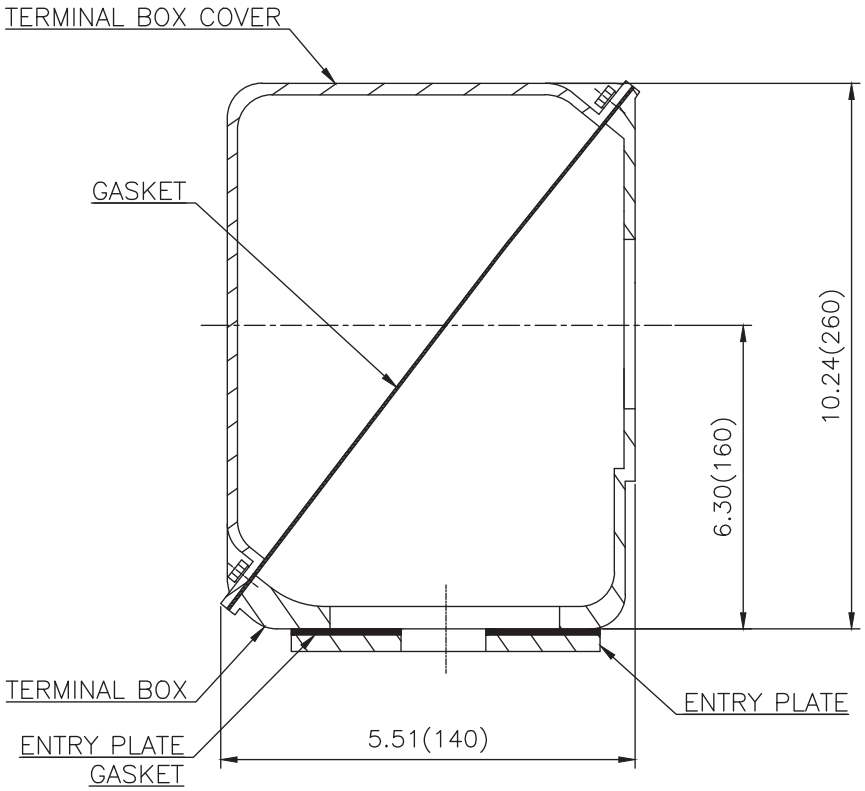
APPD BY	S.Y.KIM	UNIT	INCH
CHKD BY	R.G.KIM	SCALE	NONE
CHKD BY	Y.H.BAE	PROJEC'N	3각법(3rd Angle)
DSND BY	H.K.LEE	DATE	2021-04-30

SUBJECT	NEMA 365TS	DWG SIZE A4 (1:1)
TITLE	OUTLINE	
REF. NO	350A8114BA	Sheet No. of
DWG NO	LM-I1365B3CL001	Revision No. 0

HD HYUNDAI ELECTRIC

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

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)
CHKD BY		SCALE	1/1.2
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle
DSND BY	배솔희	DATE	2023–10–19

SUBJECT	FR.360 (CAST IRON)		DWG SIZE A3 (1:1.2)
TITLE	MAIN TERMINAL BOX ASS'Y		
REF. NO		Sheet No.	of
DWG NO	3M–248450	Revision No.	0