

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

Explosion Proof type

Catalog No.		IXHHI50-36-326TSC		Item No.		Rev. No. []							
Project Name		Project No.				Quantity sets							
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		326TSC		Rated Output		37 kW 50 HP							
Type		XJP		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 43.7 A 54.6 A 109.1 A							
Insulation Class		F		Locked-rotor**		850 % 850 % 850 %							
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 deg. C		50% Load		90.0 %							
Motor Location		<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load		92.0 %							
Altitude		Less than 1,000 meter		100% Load		93.0 %							
Relative Humidity		Less than 80 %		Power Factor(p.u)									
Ambient Temp.		40 deg. C (Max.)		50% Load		0.765							
Duty Type		Continuous (S1)		75% Load		0.865							
Service Factor		1.15		100% Load		0.915							
Mounting		B35		Speed at Full Load		3560 r.p.m							
Bearing		Type		Anti-Friction		Torque							
		DE/N-DE		6313ZC3 / 6211ZC3		Full Load		73.2 lb.ft					
		Lubricant		Grease(Polyrex-EM)		Locked-rotor**		150 %					
External Thrust		Not applicable		Breakdown**		230 %							
Coupling Method		<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-belt		Moment of Inertia (J)									
Shaft Extension		Single		Load(Max.)		49.240 lb.ft2							
Terminal Box		Main		Cast Iron		Motor		4.272 lb.ft2					
		Aux.		No		Sound Pressure Level (No-load & mean value at 1m from motor)							
Location		Refer to Outline Drawing				86 dB(A)							
Application				Vibration		0.0 mm/sec (peak)							
Area classification		Hazardous		Permissible number of consecutive starts		Cold 0 times							
Type of Ex-Protection		Class I&II, Division 1		Hot		0 times							
Applicable Standard		NEMA MG1, CSA C390, UL674		Paint		Munsell No. 4.0PB5.4/5.5(VL-451)							
ACCESSORIES				SUBMITTAL DRAWING									
* W.T.D.(Thermostat, 145°C) : 1EA/Ph.				Outline Dimension Drawing Motor Weight(Approx.)									
				B35		LM-U0326C4SL001 540 lb.							
				REMARK									
				1. Premium efficiency according to NEMA MG1									
				2. Inverter Duty @ 1.0 Service Factor & Ambient max 45°C									
				- 4:1 CT (10:1 CT at 1hour Duty)									
				- 10:1 VT (20:1 VT at 50% load)									
				- CHP up to 1.5 times base speed, NEMA MG1 Part31									
				3. Class I, Division 1, Group C&D									
				- Temp.Code(Sine wave) : T3 at 40°C Amb./T2D at 55°C Amb.									
				T4 with Winding Temperature Detector									
				4. Class II, Division 1, Group F&G									
				- Temp.Code(Sine wave) : T3B									
SPARE PARTS				Date		DSND		CHKD		CHKD		APPD	
				2024-08-08		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
Premium Efficiency AC 3 Phase Motor

Explosion Proof








50HP	2P	230/460V	Cat. No. IXHHI50-36-326TSC	Amps	109.1/54.	
Model	LATER		INS. Class F HD-F1	Hertz	60Hz	
Type	XJP	Duty	CONT	Code	J	
Frame	326TSC	Encl.	TEFC	S.F. 1.15	on sine wave power 3/4 Eff. 92%	
Bearing	Drive	6313ZC3	S.F. 1.00	on PWM or IGBT power	NEMA Design	
	Opp.	6211ZC3	RPM	3560	Amb. 40°C	
Usable at	50Hz 40HP 380V 59.1A 2960rpm S.F.: 1.0 Eff.: 92% Code: J					
	50Hz 40HP 400/415V 56.4/54.7A 2965/2965rpm S.F.: 1.0 Eff.: 92/92% Code: K/L					
UL Certified for	Class I, Div. 1, Group C&D / Class I, Zone 1, Group II A & II B			Temp. Code (sine wave)	T3 at 40°C Amb. / T2D at 55°C Amb.	
	10:1VT(20:1 at 50% load) 4:1CT(10:1 1hour duty at lowest RPM) CHP upto 1.5 time base speed, NEMA MGI part 31. Amb max 45°C for inverter duty.				T4 With Thermostat TH01 145°C TH02	
No.	-		Date	-		
			Weight	540 lb		

4M-136067
(NEMA 320~444Fr.)

Made in Korea H1



2.36

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	UL Class I, Division1 (IXHHI)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	TITLE NAMEPLATE DRAWING		
DSND BY	S.H.LEE	DATE	2024.06.07			



REF. NO	4M-136067	Sheet No.	of
DWG NO	NP-IXHHI50-36-326TSC	Revision No.	0



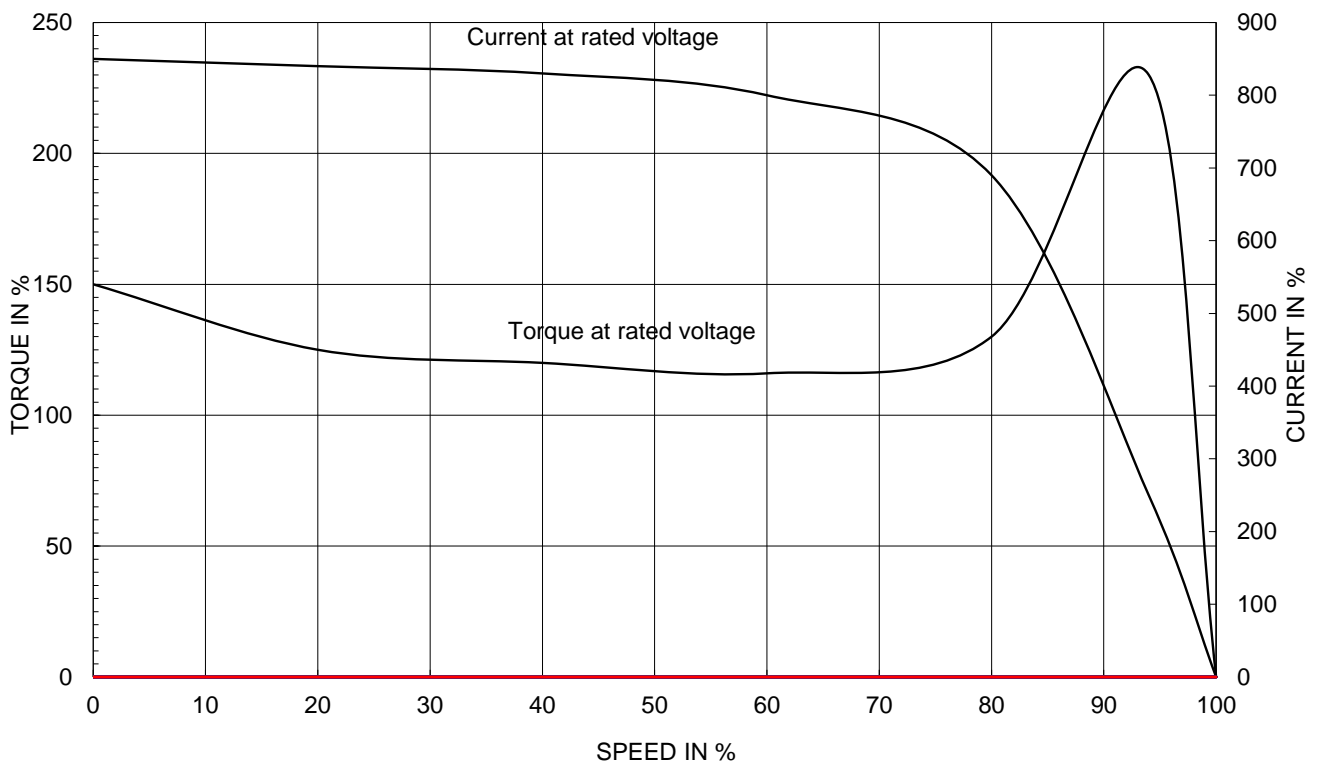
PERFORMANCE CURVE

CURVE NO.
PC-IXHHI50-36-326TSC

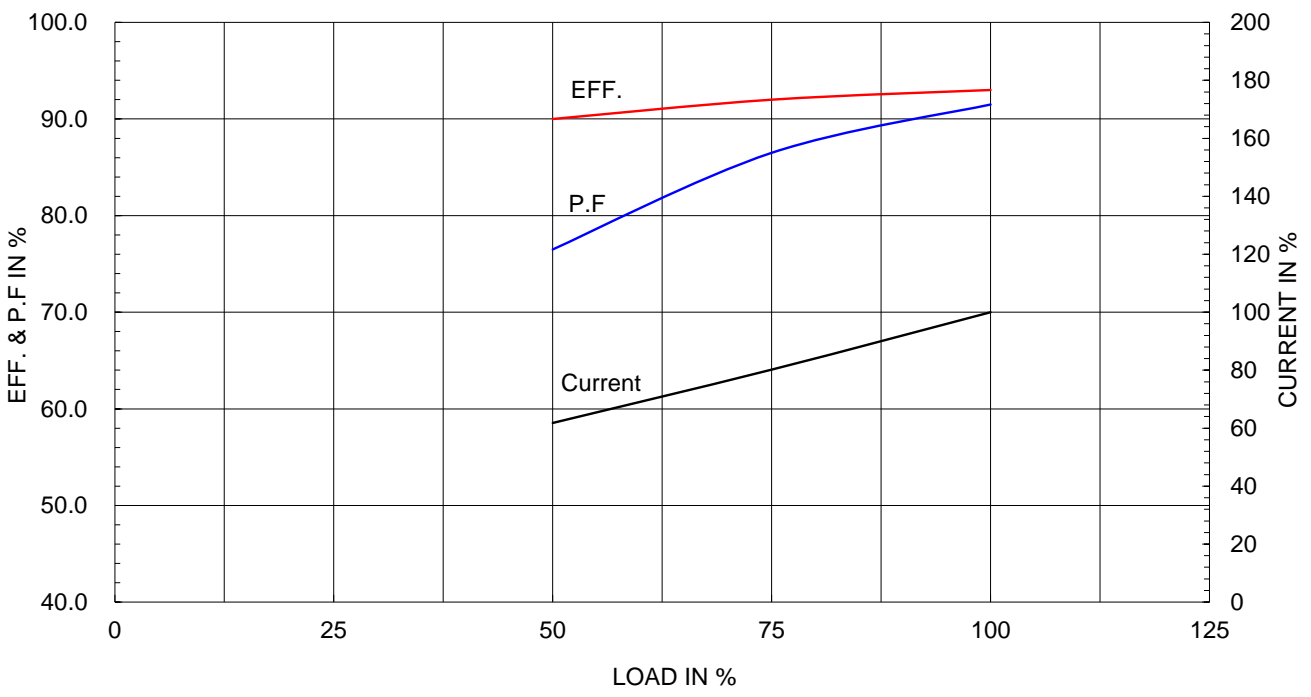
Type :	XJP
Full Load Torque :	73.2 lb.ft
Load moment of Inertia (J) :	49.240 lb.ft2
Motor moment of Inertia (J) :	4.272 lb.ft2

37kW	50HP	2 P	60 Hz
Speed at Full Load :			3560 RPM
Rated Voltage	575V	460V	230V
Full Load Current	43.7A	54.6A	109.1A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

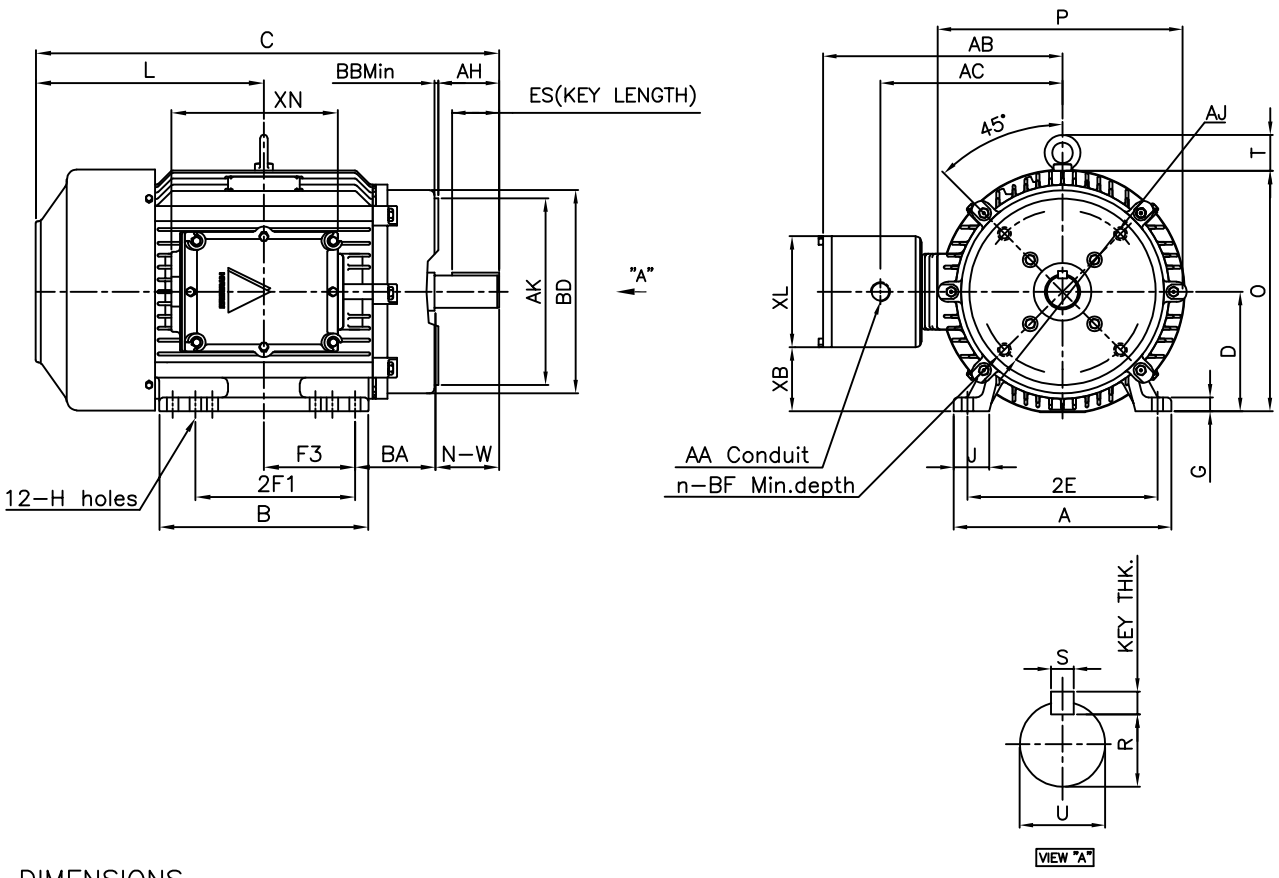


본 도면은 HD현대일렉트릭(주) 재산이며 허가없이 복사할 수 없음 (취급주의)

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

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

Class I Division 1



DIMENSIONS

MOUNTING									CONDUIT BOX						APPROX. WGT.(LB)
A	B	2E	2F1	-	F3	G	J	H	AA	AB	AC	XB	XL	XN	
14.33	13.78	12.50	12.00	-	6.99	1.11	2.44	0.66	2.00	15.27	11.02	3.94	7.87	11.26	540

OVERALL							SHAFT					KEY THK.	BEARING	
BA	C	D	L	O	P	T	U	N-W	KEYWAY				DRIVE END	OPP. DRIVE END
							R	ES	S					
5.25	31.53	8.00	15.55	16.19	15.84	2.41	1.591	2.03	0.500	0.500	6313ZC3	6211ZC3		

C-FACE						
AJ	AK	BD	BB	BF	n	AH
11.00	12.50	13.27	0.25	5/8-11	4	3.50

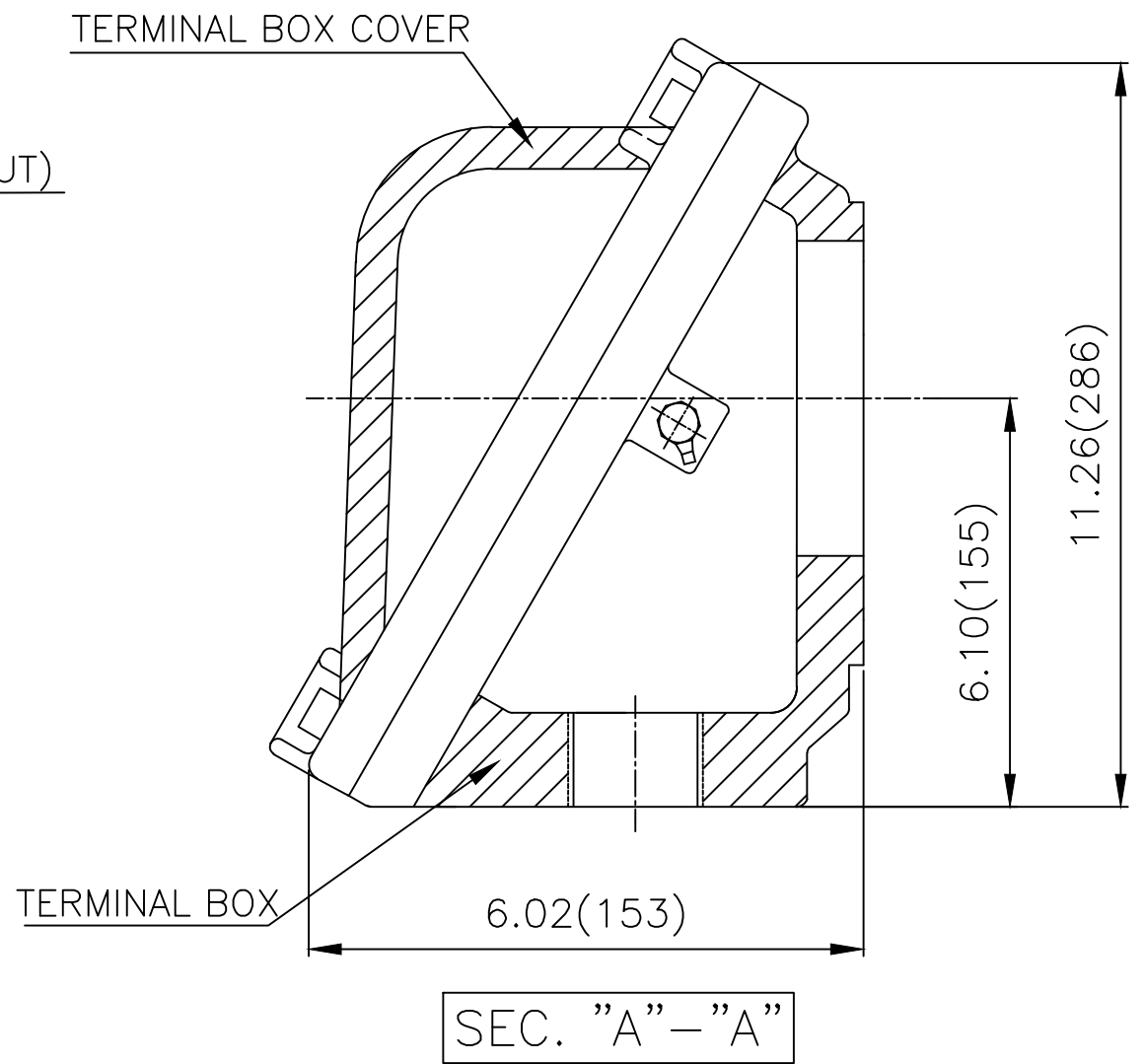
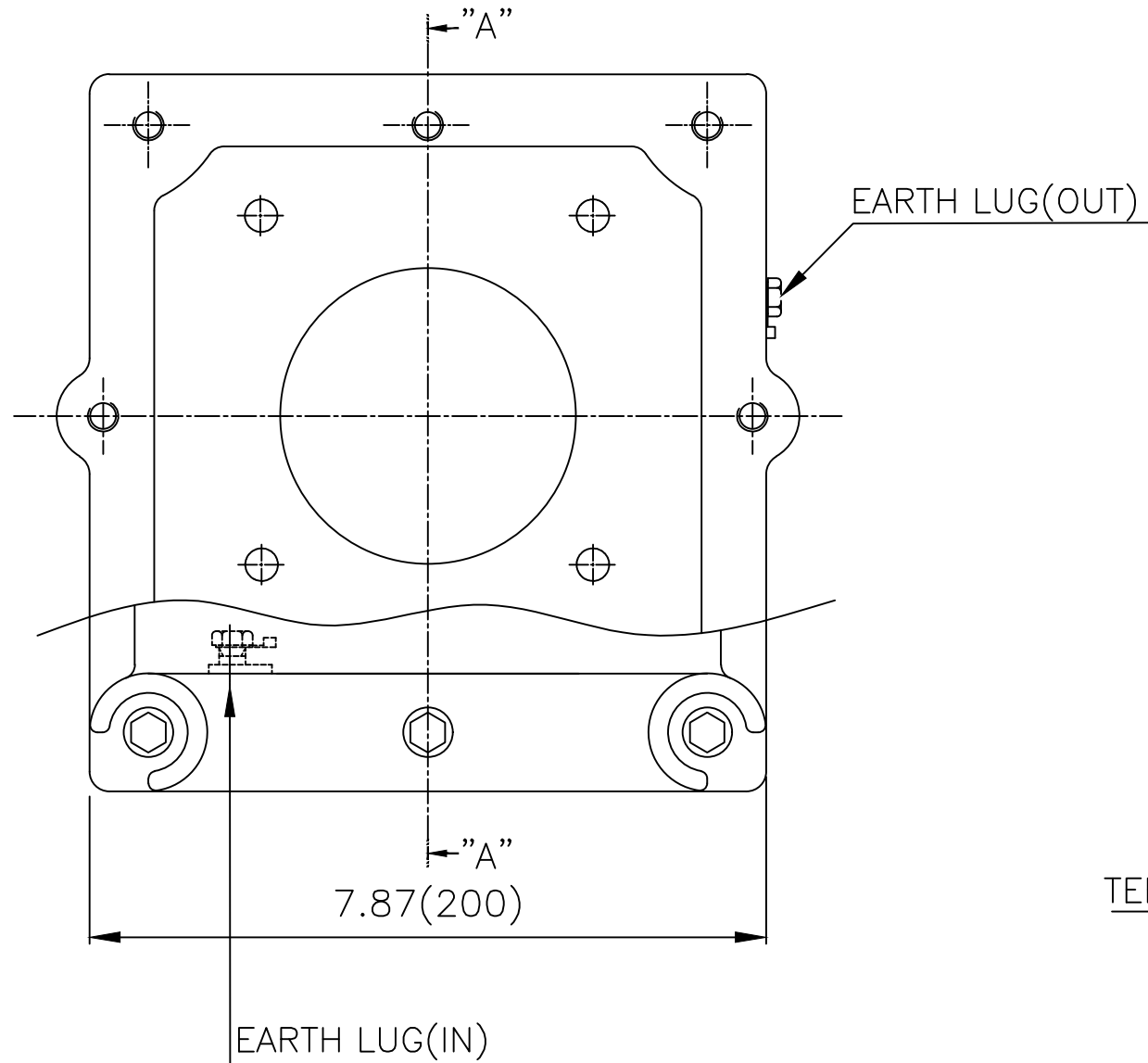
NOTE

- Dimension "D" tolerance : +0.00inch ~ -0.03inch (143TC-365TC) : +0.00inch ~ -0.06inch (404TC-449TC)
- Dimension "U" tolerance : +0.000inch ~ -0.0005inch (143TC-215TC) : +0.000inch ~ -0.001inch (254TC-449TC)
- Dimension "R" tolerance : +0.000inch ~ - 0.015inch
- Dimension "AK" tolerance : +0.000inch ~ -0.003inch (143TC-286TC) : +0.000inch ~ -0.005inch (324TC-449TC)

APPD BY	S.Y.KIM	UNIT	inch	SUBJECT	NEMA 326TSC	DWG SIZE	A4 (1:13)
CHKD BY	R.G.KIM	SCALE	1/10	TITLE	OUTLINE	REF. NO	Sheet No. of
CHKD BY		PROJEC'N	3rd Angle				
DSND BY	J.H.JEON	DATE	2021-04-15				
				DWG NO	LM-U0326C4SL001	Revision No.	0



Cls. I Div. 1



▽	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	NEMA FR. 320(CAST IRON)		DWG SIZE
CHKD BY	R.G.KIM	SCALE	1/2	TITLE	MAIN TERMINAL BOX ASS'Y		A3 (1:2)
CHKD BY		PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	김은진	DATE	2023-11-08	DWG NO	3M-248631	Revision No.	0

