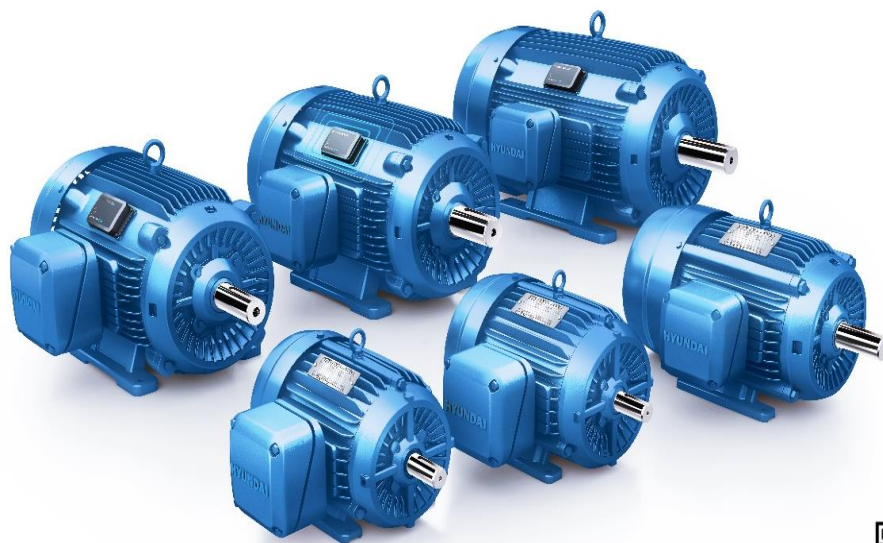


Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

AC INDUCTION MOTOR DATA SHEET

API661 TYPE

Catalog No.	API50-12-365T-W8	Item No.			Rev. No.	[]	
Project Name		Project No.			Quantity	sets	
GENERAL SPECIFICATION				PERFORMANCE DATA			
Frame Size	365T		Rated Output	37 kW		50 HP	
Type	PJP		Number of Poles	6			
Enclosure(Protection)	Totally Enclosed / IP56		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	48.1 A	60.2 A	120.4 A
Insulation Class	F			Locked-rotor**	680 %	680 %	680 %
Temp. Rise at full load (by resistance method)			Efficiency				
	at 1.0 S.F	80 deg. C	50% Load 91.1 %				
Motor Location	☐ Indoor ☐ Outdoor		75% Load 93.1 %				
Altitude	Less than 1,000 meter		100% Load 94.1 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.670				
Duty Type	Continuous (S1)		75% Load 0.770				
Service Factor	1.15		100% Load 0.820				
Mounting	V6		Speed at Full Load	1185 r.p.m			
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	NU314 / 6213C3	Full Load 219.97 lb.ft				
	Lubricant	Grease(Polyrex-EM)	Locked-rotor** 150 %				
External Thrust	Not applicable		Breakdown** 220 %				
Coupling Method	☐ Direct ☐ V-belt		Moment of Inertia (J)				
Shaft Extension	Single		Load(Max.) 1,500.593 lb.ft2				
Terminal	Main	Cast Iron	Motor 32.000 lb.ft2				
Box	Aux.	No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	73 dB(A)				
Application			Vibration 2.03 mm/sec (peak)				
Area classification	Hazardous		Permissible number of				
Type of Ex-Protection	Class I&II, Division 2		Cold 3 times				
Applicable Standard	API661, IEEE841, NEMA MG1, CSA C390		Hot 2 times				
			Paint	Munsell No.	7.5BG6/1.5		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			V6		LM-I1365V6PL001	820 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 (1 hour duty, 4:1 continuous)				
			-. 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 : T3B(165°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.

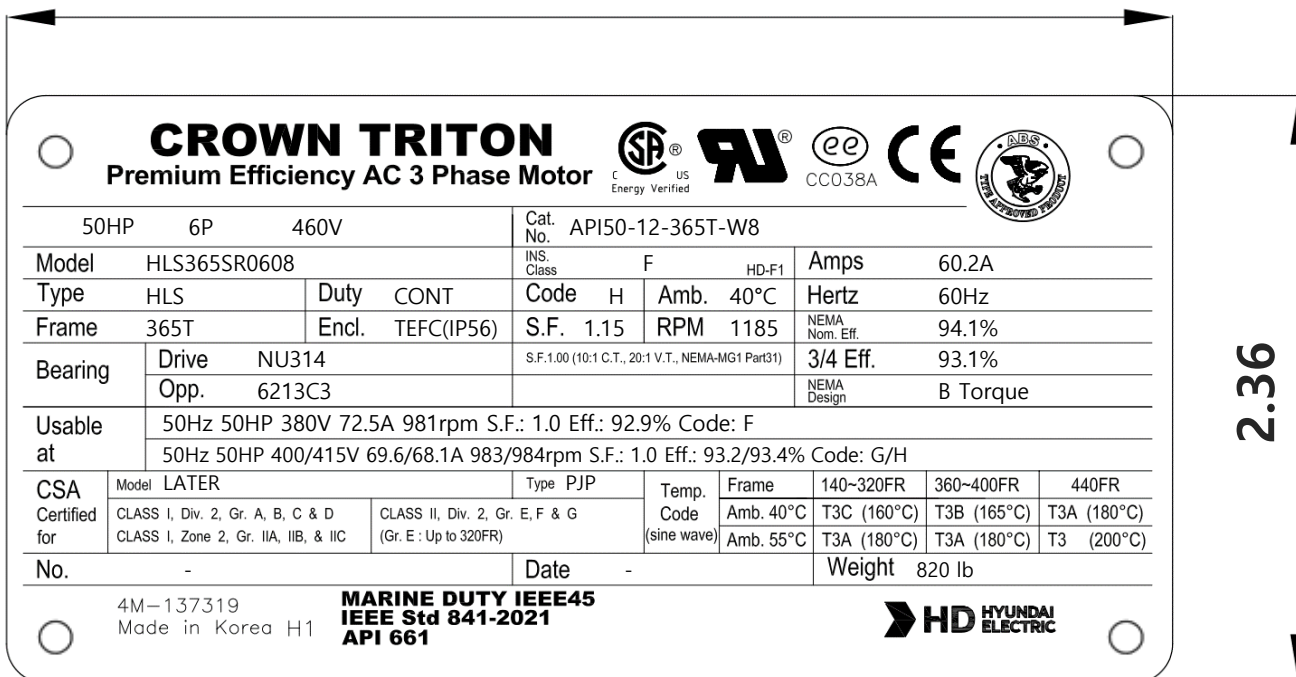
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

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

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

MAIN NAMEPLATE

4.72



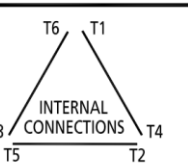
■ WIRING DIAGRAM

D.O.L (INVERTER & SOFT STARTER)

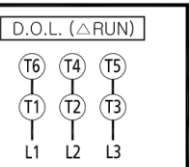


WARNING

IMPROPER INSTALLATION, CONNECTION, OPERATION, GROUNDING OF THIS MOTOR MAY CAUSE SERIOUS INJURY TO PERSONNEL OR MOTOR FAILURE. READ INSTRUCTIONS CAREFULLY. GROUNDING SHOULD BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL SOUND PRACTICES.



D.O.L (Δ)RUN



KEEP FINGERS AND FOREIGN OBJECTS AWAY FROM OPENINGS AND ROTATING PARTS DISCONNECT ALL POWER SOURCES BEFORE TOUCHING INTERNAL PARTS TO AVOID ELECTRICAL SHOCK.

4M-129326

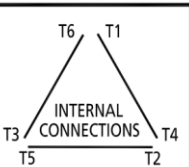
WYE-DELTA (Y-D)



WARNING

IMPROPER INSTALLATION, CONNECTION, OPERATION, GROUNDING OF THIS MOTOR MAY CAUSE SERIOUS INJURY TO PERSONNEL OR MOTOR FAILURE. READ INSTRUCTIONS CAREFULLY. GROUNDING SHOULD BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL SOUND PRACTICES.

START



RUN

KEEP FINGERS AND FOREIGN OBJECTS AWAY FROM OPENINGS AND ROTATING PARTS DISCONNECT ALL POWER SOURCES BEFORE TOUCHING INTERNAL PARTS TO AVOID ELECTRICAL SHOCK.

4M-128852

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (API661, 254-449)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			
DSND BY	S.H.LEE	DATE	2024.06.07			
				TITLE		
				NAMEPLATE DRAWING		
				REF. NO	4M-137319 / 4M-129326	Sheet No. of
				DWG NO	NP-API50-12-365T-W8	Revision No. 0

Type : PJP

37kW 50HP 6 P 60 Hz

Full Load Torque : 219.97 lb.ft

Speed at Full Load : 1185 RPM

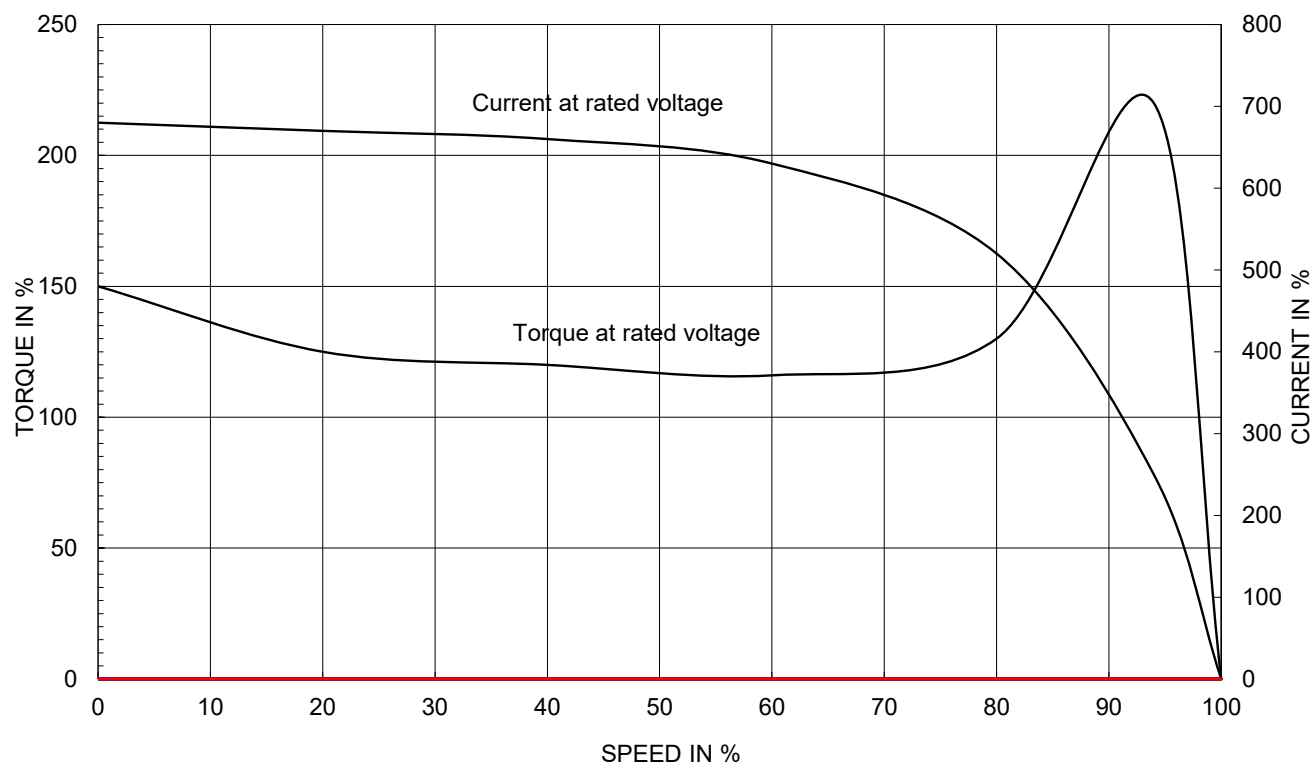
Load moment of Inertia (J) : 1500.593 lb.ft2

Rated Voltage	575V	460V	230V
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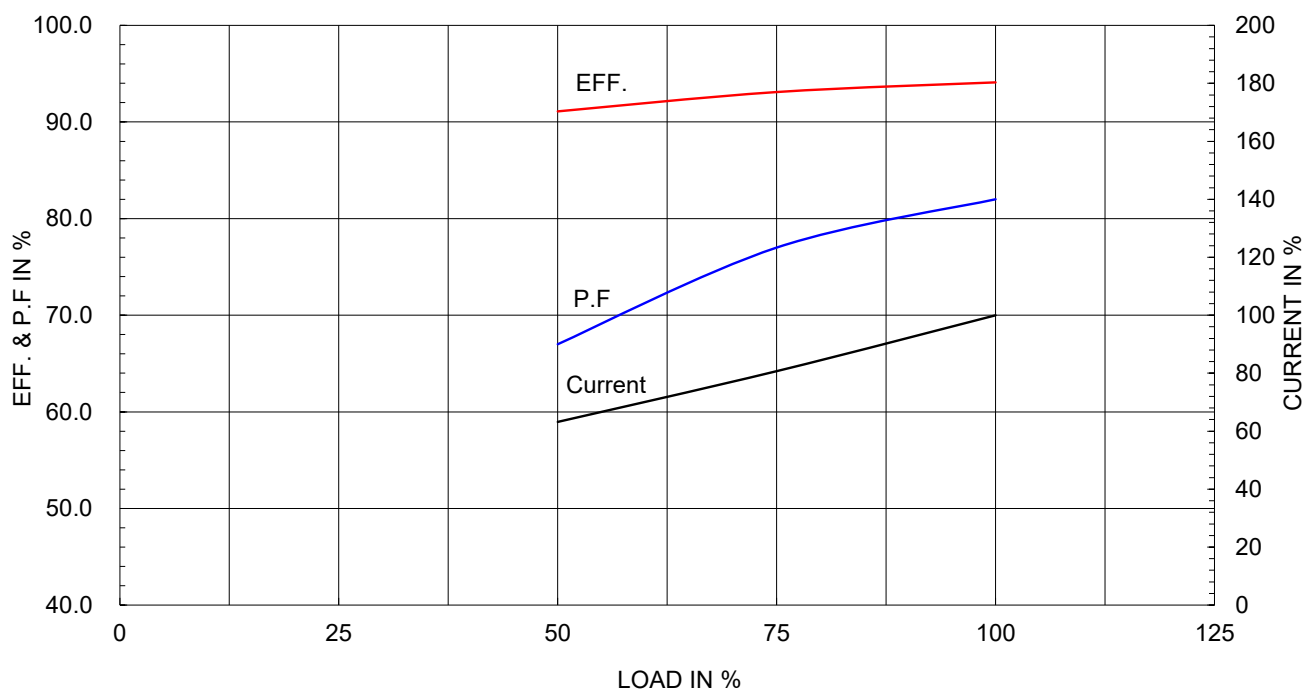
Motor moment of Inertia (J) : 32.000 lb.ft2

Full Load Current	48.1A	60.2A	120.4A
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SPEED VS TORQUE & CURRENT CURVE

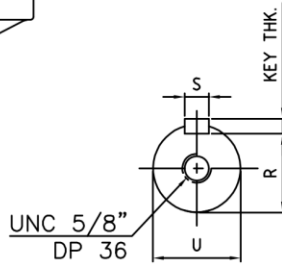
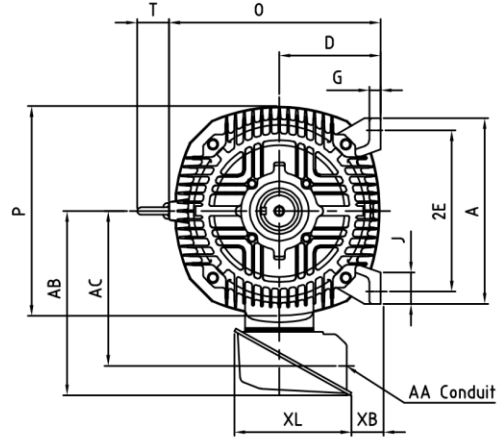
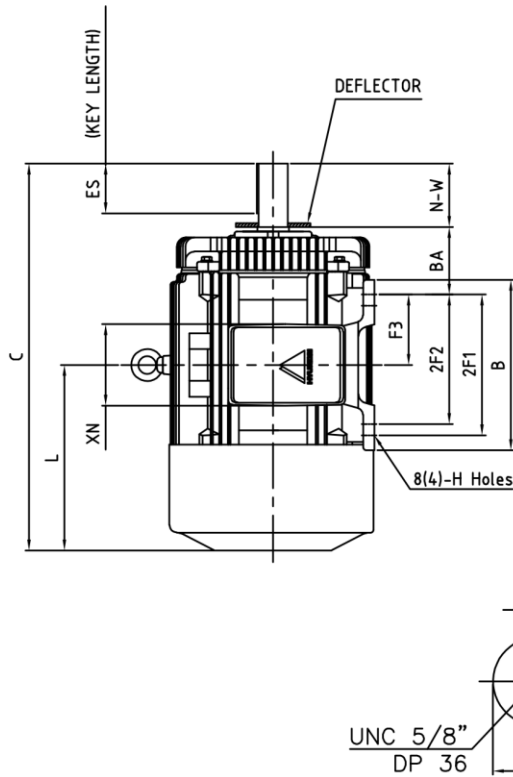


OUTPUT VS EFF., P.F & CURRENT CURVE



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

API 661



DIMENSIONS

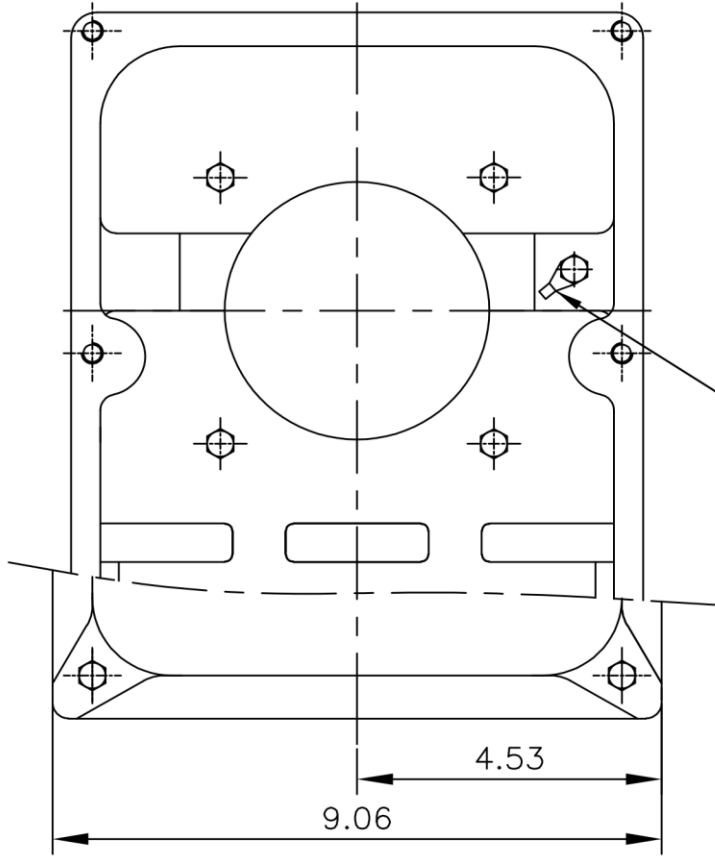
Unit : inch

M O U N T I N G									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	13.21	2.94	11.18	9.06	820
O V E R A L L															
BA	C	D	L	O	P	T	U	N-W	S H A F T			KEYWAY	THK.	B E A R I N G	
									R	ES	S			DRIVE END	OPP. DRIVE END
5.88	35.20	9.00	17.32	18.50	18.23	2.80	2.375	5.88	2.021	4.28	0.625	0.625	0.625	NU314	6213C3

NOTE

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

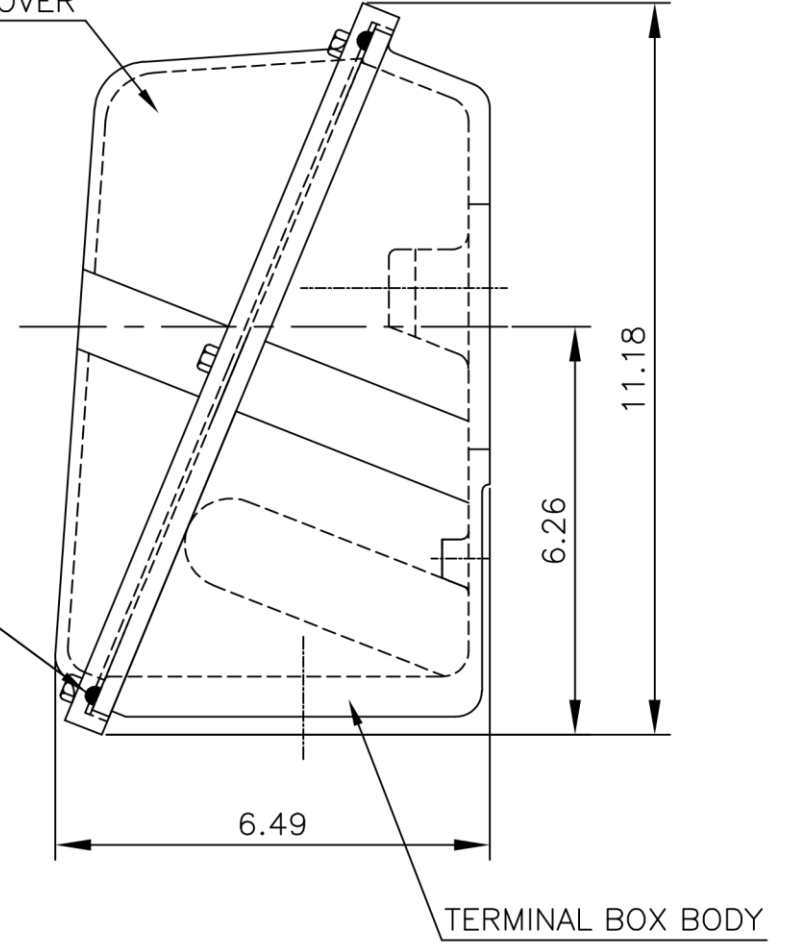
APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	NEMA 365T		DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE	TITLE	OUTLINE		A4 (1:1)
CHKD BY		PROJEC'N	3각법(3rd Angle)				
DSND BY	E.J.KIM	DATE	2025.03.12				
							REF. NO
				DWG NO	LM-I1365V6PL001	Revision No. 0	



FOR INNER
EARTH LUG

TERMINAL BOX COVER

O-RING



APPD BY	S.K.HAN	UNIT	INCH	SUBJECT	Fr.225	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/1	TITLE	CAST IRON WITH T/BLOCK	A3 (1:1)
CHKD BY		PROJEC'N	3각법 (3rd Angle)	MAIN TERMINAL BOX ASS'Y		
DSND BY	S.H.YUN	DATE	2019-09-05	REF. NO		Sheet No. of
				DWG NO	3M-125443	Revision No. 0



REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						