

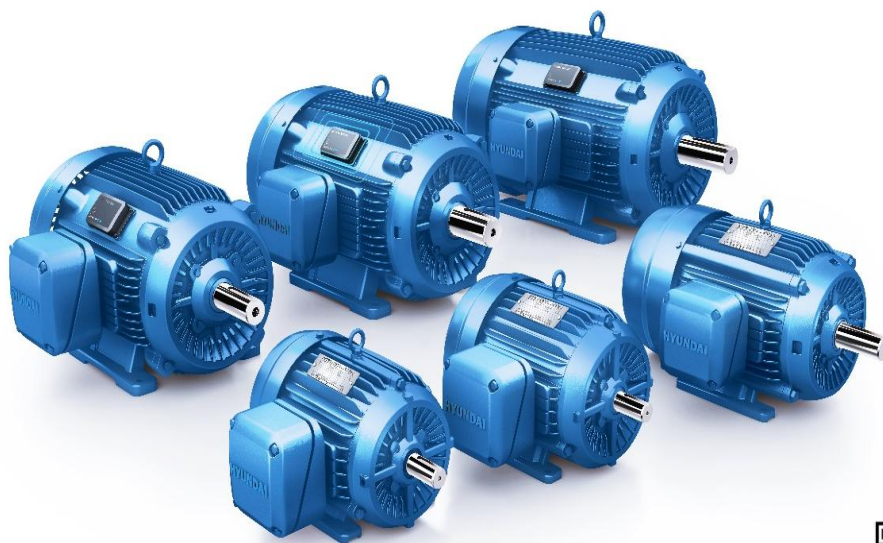
Customer :

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.	IEEEV7.5-36-213TCRD	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA									
Frame Size		213TC		Rated Output		5.5 kW		7.5 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		7.26 A		9.07 A		18.1 A	
Insulation Class		F			Locked-rotor**		700 %		700 %		700 %	
Temp. Rise at full load (by resistance method)				Efficiency								
at 1.0 S.F		80 deg. C										
Motor Location		☐ Indoor ☐ Outdoor										
Altitude		Less than 1,000 meter										
Relative Humidity		Less than 80 %		Power Factor(p.u)								
Ambient Temp.		40 deg. C (Max.)										
Duty Type		Continuous (S1)										
Service Factor		1.15										
Mounting		B5		Speed at Full Load		3530 r.p.m						
Bearing	Type	Anti-Friction		Torque								
	DE/N-DE	6208ZC3 / 6208ZC3										
	Lubricant	Grease(Polyrex-EM)										
External Thrust		Not applicable										
Coupling Method		☒ Direct ☐ V-belt		Moment of Inertia (J)								
Shaft Extension		Single										
Terminal Box	Main	Cast Iron										
	Aux.	No										
Location		Refer to Outline Drawing		Sound Pressure Level (No-load & mean value at 1m from motor)				73 dB(A)				
Application												
Vibration				Permissible number of consecutive starts				Cold 3 times				
Area classification		Hazardous						Hot 2 times				
Type of Ex-Protection		Class I&II, Division 2		Paint		Munsell No.		7.5BG6/1.5				
Applicable Standard		IEEE841, NEMA MG1, CSA C390										

ACCESSORIES

SUBMITTAL DRAWING

Outline Dimension Drawing	\ Motor Weight(Approx.)		
B5	LM-I2213C5PLV23	160 lb.	

REMARK

- Premium efficiency according to NEMA MG1
- 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
- CSA Certification
 - Class I, Division 2, Group A, B, C & D
 - Class II, Division 2 Group E, F & G (Group E : up to 320Fr.)
- Service Factor 1.15 and Temperature rise B are applicable under the condition of sine wave power.
- Service Factor 1.25 is applicable to motors of 100HP or less with temperature rise F & Non-Hazardous.
- Temp. code : T3C(160°C) at sine wave

Date	DSND	CHKD	CHKD	APPD
2025-09-19	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.

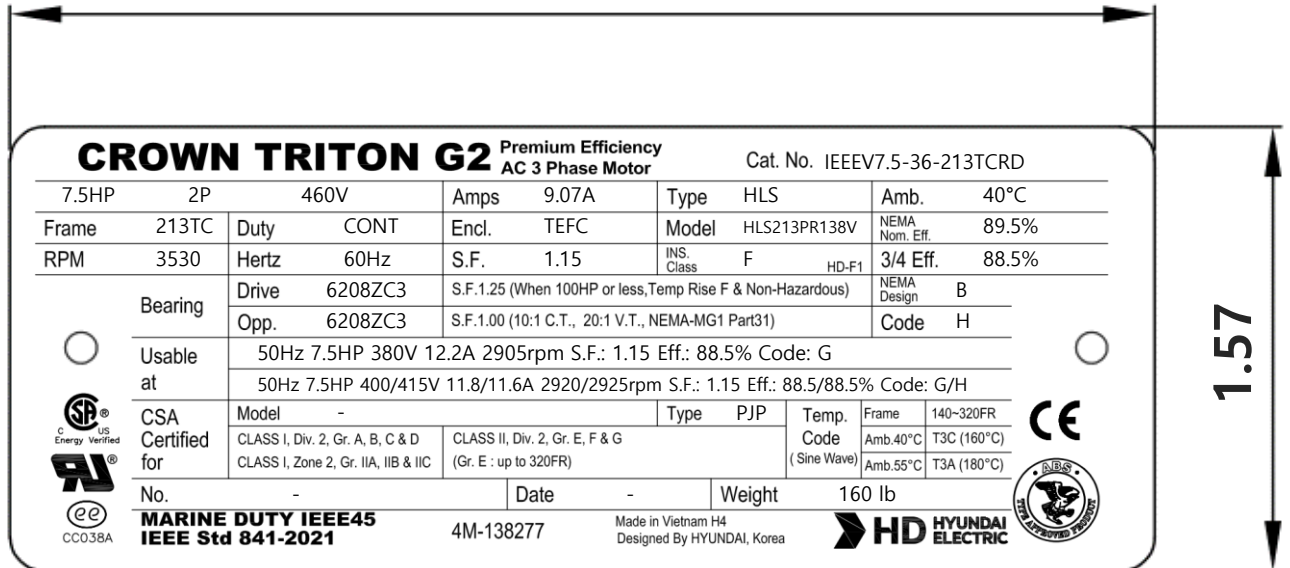
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

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

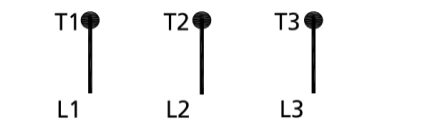
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

MAIN NAMEPLATE

3.94



WIRING DIAGRAM

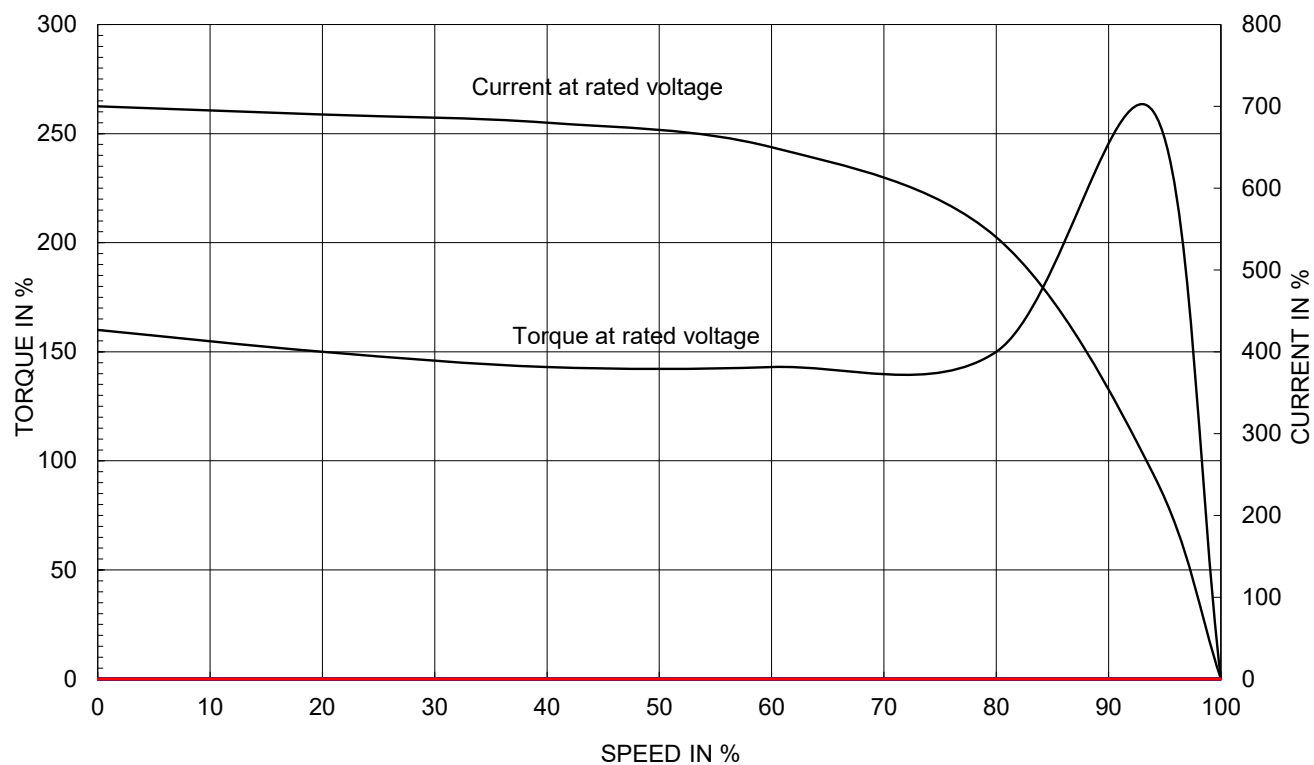
D.O.L (INVERTER & SOFT STARTER)	WYE-DELTA (Y-D)
 WARNING IMPROPER INSTALLATION, CONNECTION, OPERATION, GROUNDING OF THIS MOTOR MAY CAUSE SERIOUS INJURY TO PERSONNEL OR MOTOR FAILURE. READ INSTRUCTIONS CAREFULLY. GROUNDING SHOULD BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL SOUND PRACTICES.  KEEP FINGERS AND FOREIGN OBJECTS AWAY FROM OPENINGS AND ROTATING PARTS DISCONNECT ALL POWER SOURCES BEFORE TOUCHING INTERNAL PARTS TO AVOID ELECTRICAL SHOCK. 4M-128796	N/A

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class 1, Division2 IEEE841 (SSEN, 143-215)	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-138277 / 4M-128796	Sheet No. of
				DWG NO	NP-IEEEV7.5-36-213TCRD	Revision No. 0

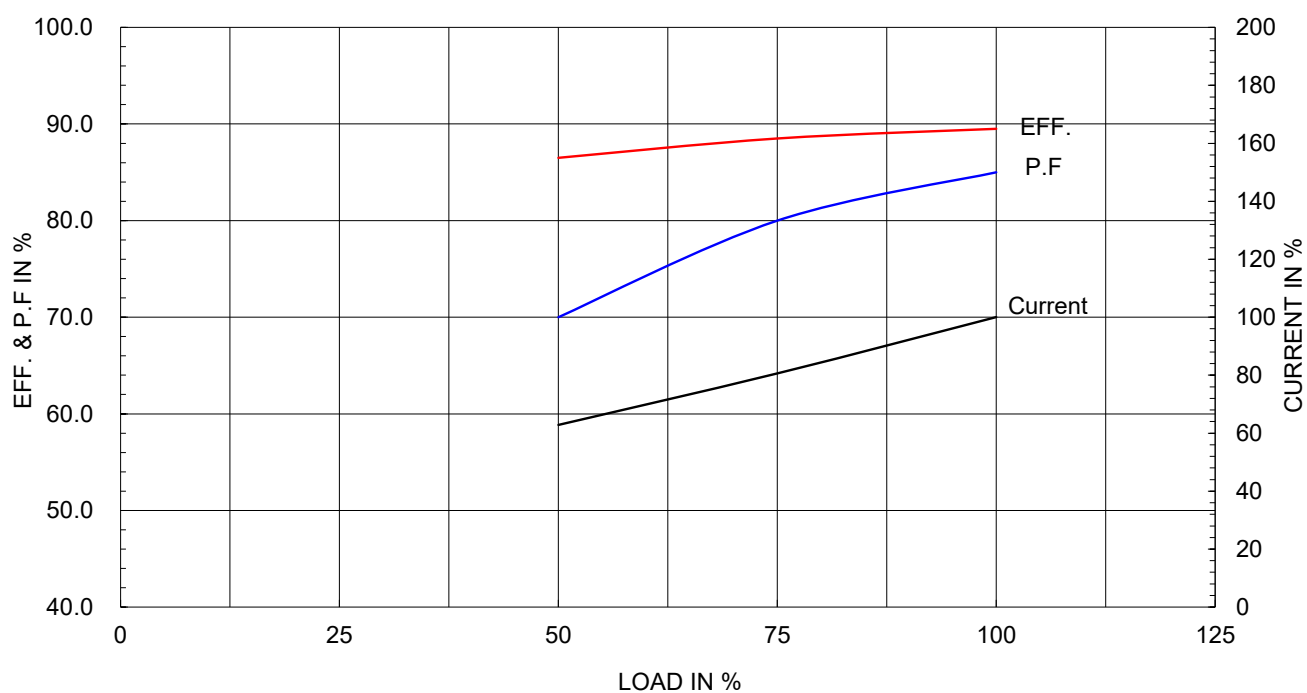
Type :	PJP	
Full Load Torque :	10.98	lb.ft
Load moment of Inertia (J) :	8.183	lb.ft2
Motor moment of Inertia (J) :	0.332	lb.ft2

5.5kW	7.5HP	2 P	60 Hz
Speed at Full Load :		3530 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	7.26A	9.07A	18.1A

SPEED VS TORQUE & CURRENT CURVE

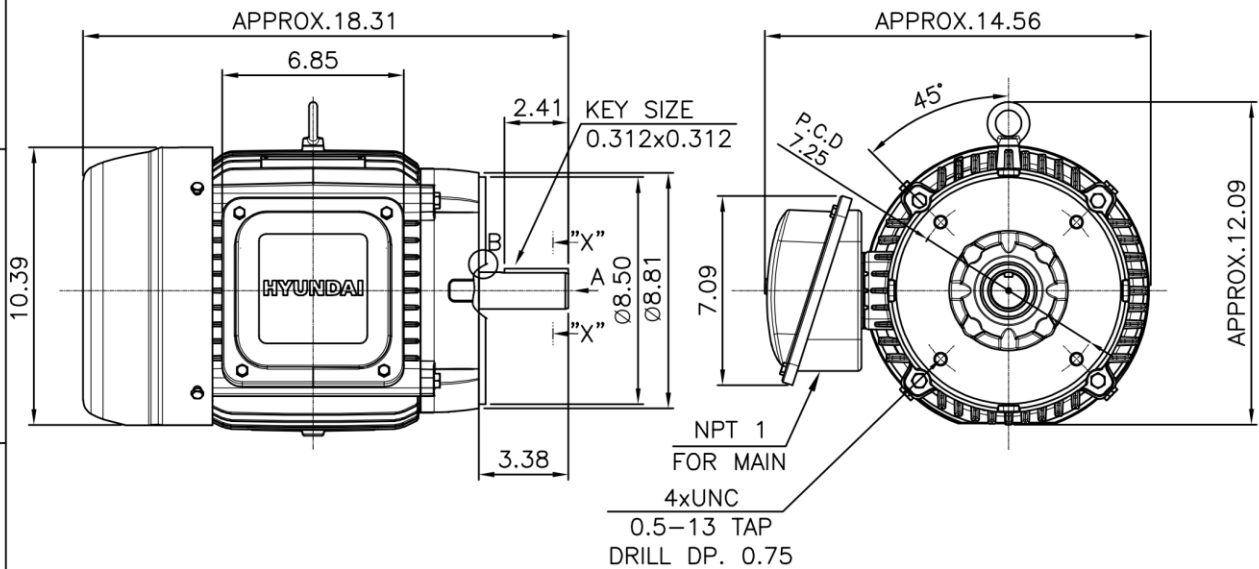


OUTPUT VS EFF., P.F & CURRENT CURVE

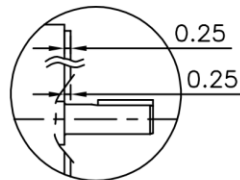


1	2	3	4	
▽	50S	REV	DATE	CONTENTS
▽▽	12.5S			REVD BY
▽▽▽	3.2S			CHKD BY
▽▽▽▽	0.4S			CHKD BY
				APPD BY

IEEE841



VIEW "A"

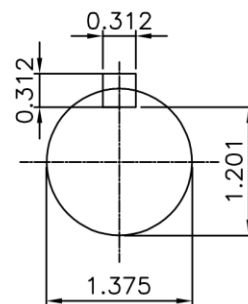


DETAIL - B

NOTE

[TOLERANCE]

1. CENTER HEIGHT : +0.00inch - 0.03inch
2. SHAFT DIAMETER : +0.000inch - 0.0005inch
3. KEYWAY DEPTH : +0.000inch - 0.015inch

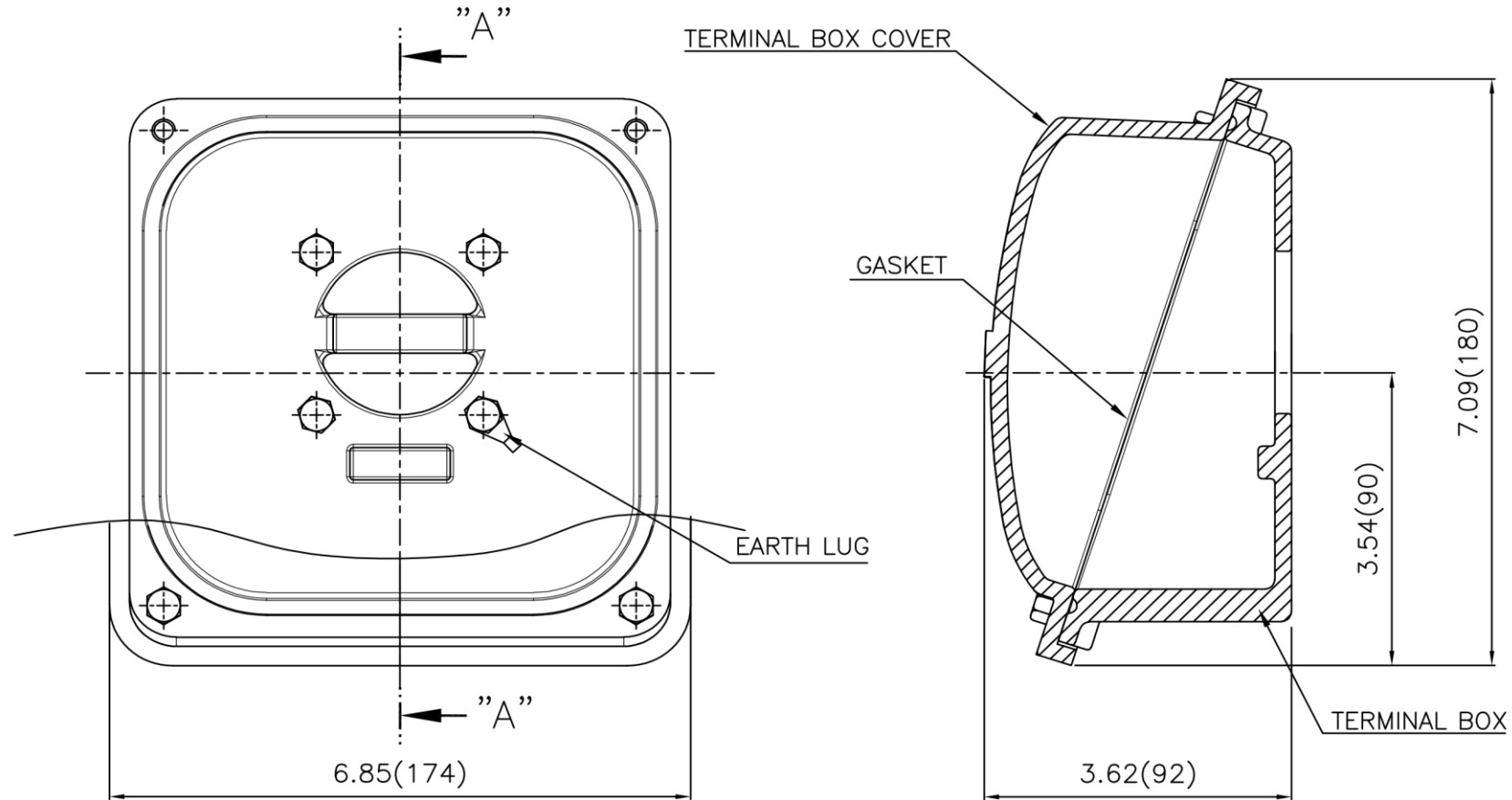


SECTION "X-X"
SCALE 4/7

APPD BY	S.Y.KIM	UNIT	inch	SUBJECT	NEMA 213TC	DWG SIZE
CHKD BY	R.G.KIM	SCALE	1/7			A4 (1/7)
CHKD BY		PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND BY	전지현	DATE	2021-04-28	REF. NO	.	Sheet No. of
				DWG NO	LM-I2213C5PLV23	Revision No. 0

Cls. I&II, Div. 2

IEEE 841



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY	일반기공률차	일반계관공률차
1							1-4 ±0.1 6-30 ±0.5	
2							4-18 ±0.2 30-120 ±0.8	
3							18-63 ±0.3 120-315 ±1.2	
4							63-250 ±0.5 315-1000 ±2.0	
5							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	A3 (1:1.5)	
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No. of	
DSND BY	네슬의	DATE	2023-10-19	DWG NO	3M-248457	Revision No. 0	