HD HYUNDAI ELECTRIC

Essential for Today
Potential for Tomorrow

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.	IEEE10-18-215T	Item No.		Rev. No.	[ ]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION

Frame Size		215T
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	6208ZC3 / 6208ZC3
	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

ACCESSORIES

SPARE PARTS

PERFORMANCE DATA

Rated Output		7.5 kW		10 HP
Number of Poles		4		
Rotor Type		Squirrel Cage		
Starting Method*		D.O.L		
Rated Voltage		575 V	460 V	230 V
Current	Full Load	10.4 A	13.0 A	26.0 A
	Locked-rotor**	750 %	750 %	750 %
Efficiency				
	50% Load	88.7 %		
	75% Load	90.7 %		
	100% Load	91.7 %		
Power Factor(p.u)				
	50% Load	0.640		
	75% Load	0.740		
	100% Load	0.790		
Speed at Full Load		1770 r.p.m		
Torque				
	Full Load	29.85 lb.ft		
	Locked-rotor**	180 %		
	Breakdown**	240 %		
Moment of Inertia (J)				
	Load(Max.)	62.787 lb.ft2		
	Motor	0.712 lb.ft2		
Sound Pressure Level (No-load & mean value at 1m from motor)		62 dB(A)		
Vibration		2.03 mm/sec (peak)		
Permissible number of consecutive starts		Cold 3 times		
		Hot 2 times		
Paint	Munsell No.	7.5BG6/1.5		

SUBMITTAL DRAWING

Outline Dimension Drawing	\ Motor Weight(Approx.)	
B3	LM-I2215B3PLV23	175 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.
6. Temp. code : T3C(160°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.

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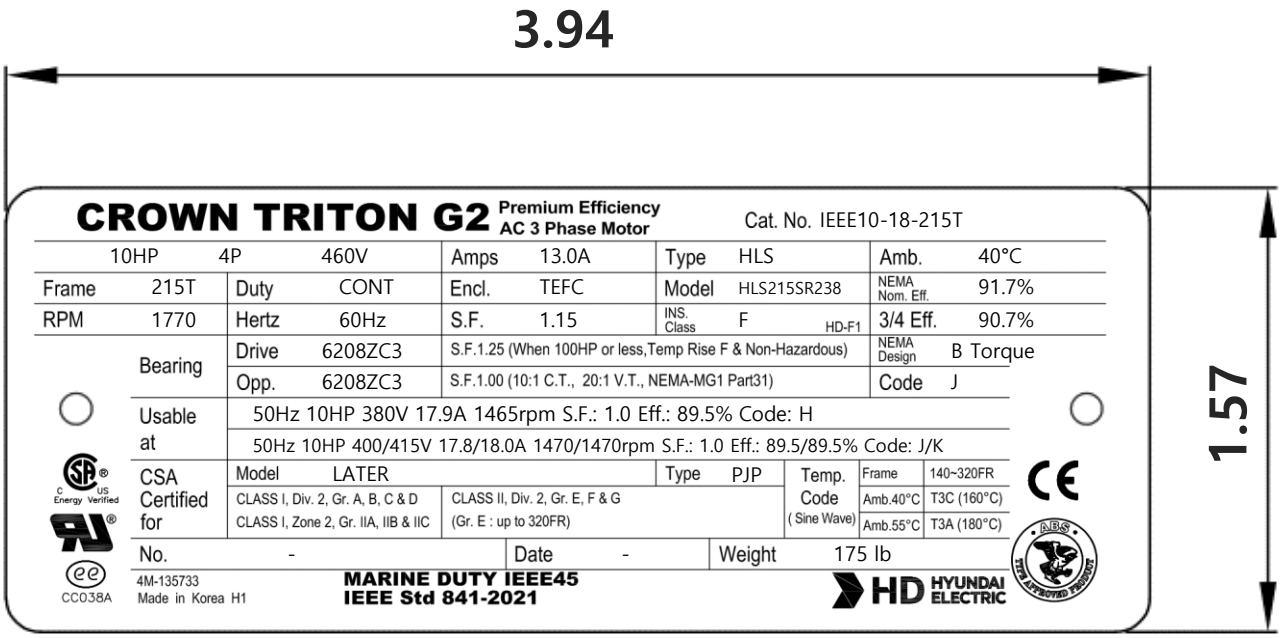
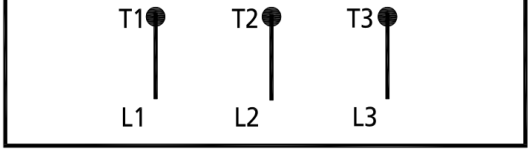
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

▣ MAIN NAMEPLATE



▣ 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
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, 182-215)	DWG SIZE A4 (1:1)
TITLE	NAMEPLATE DRAWING	
REF. NO	4M-135733 / 4M-128796	Sheet No. of
DWG NO	NP-IEEE10-18-215T	Revision No. 0

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HYUNDAI ELECTRIC

PERFORMANCE CURVE

CURVE NO.

PC-IEEE10-18-215T

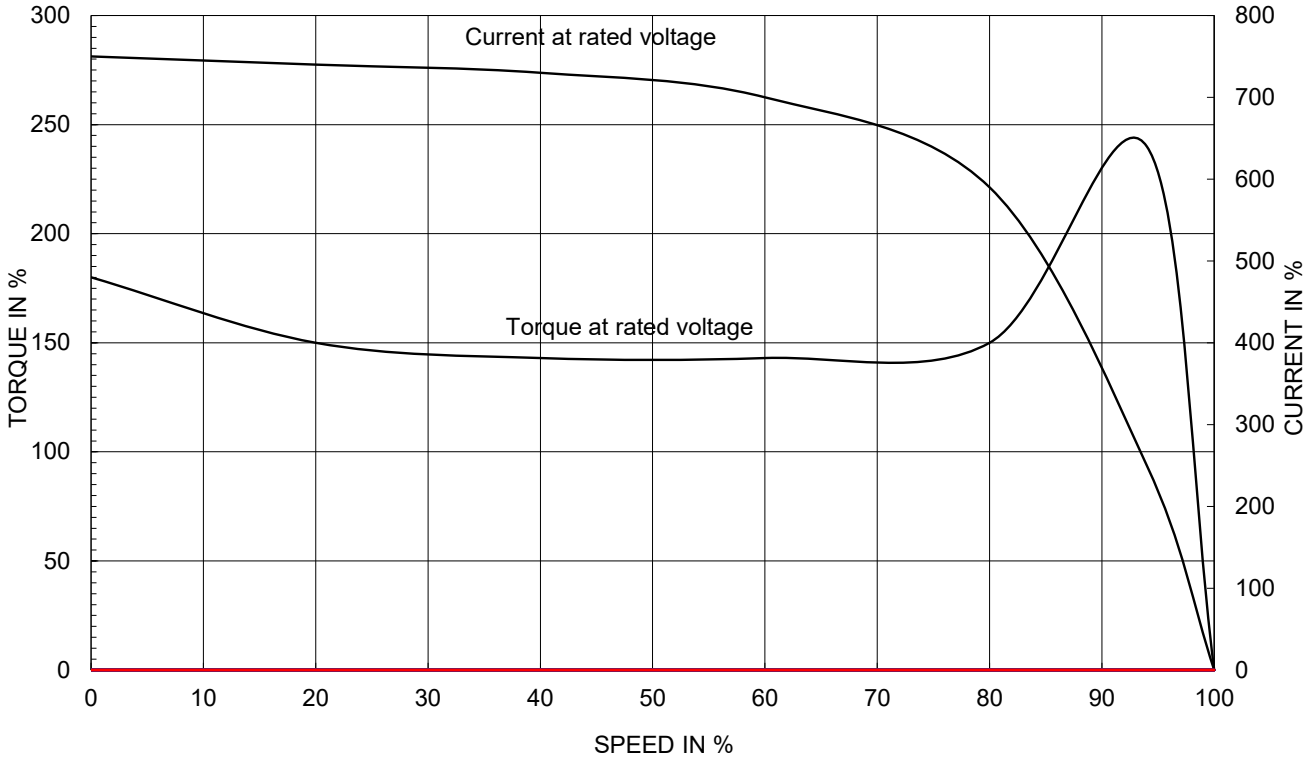
Type :	PJP	
Full Load Torque :	29.85	lb.ft
Load moment of Inertia (J) :	62.787	lb.ft2
Motor moment of Inertia (J) :	0.712	lb.ft2

7.5kW 10HP 4 P 60 Hz

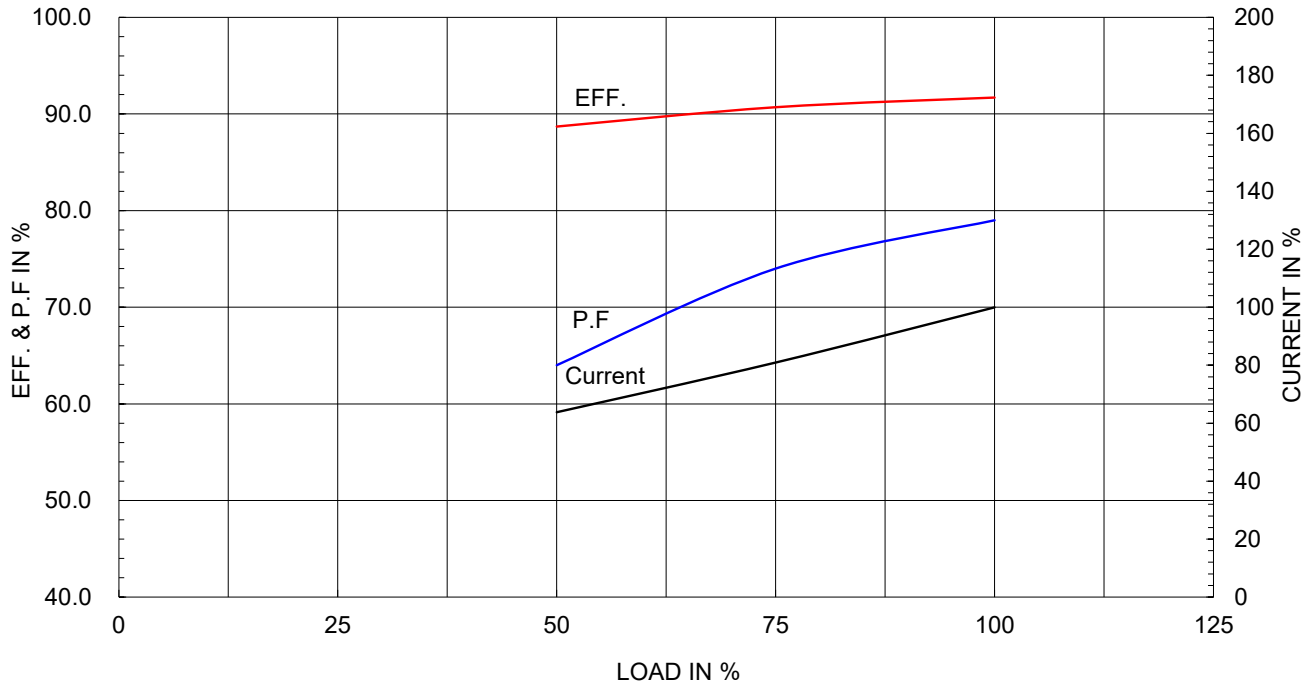
Speed at Full Load : 1770 RPM

Rated Voltage	575V	460V	230V
Full Load Current	10.4A	13.0A	26.0A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



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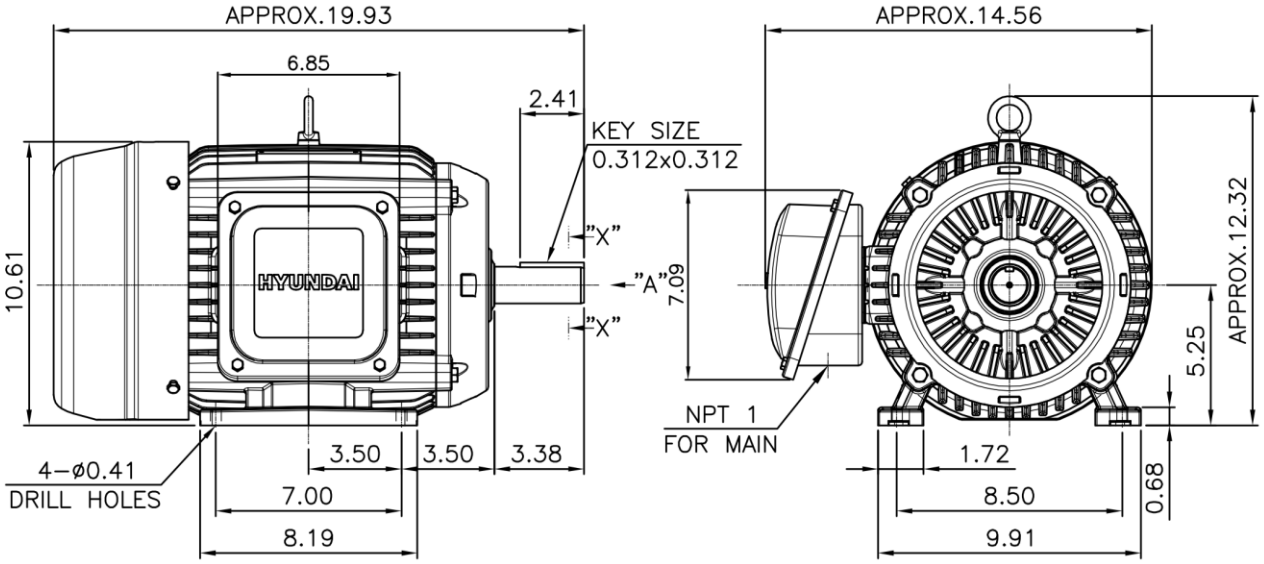
▽	50S	REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S							
▽▽▽	3.2S							
▽▽▽▽	0.4S							

IEEE841

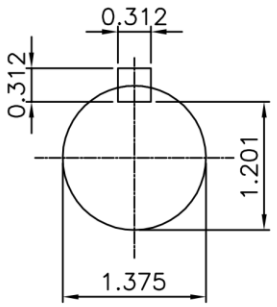


VIEW "A"

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
CHKD BY	R.G.KIM	SCALE	1/7
CHKD BY		PROJEC'N	3rd Angle
DSND BY	J.H.JEON	DATE	2023.01.18

SUBJECT	NEMA 215T	DWG SIZE	A4 (1:7)
TITLE	OUTLINE		
REF. NO	.	Sheet No.	of
DWG NO	LM-I2215B3PLV23	Revision No.	0

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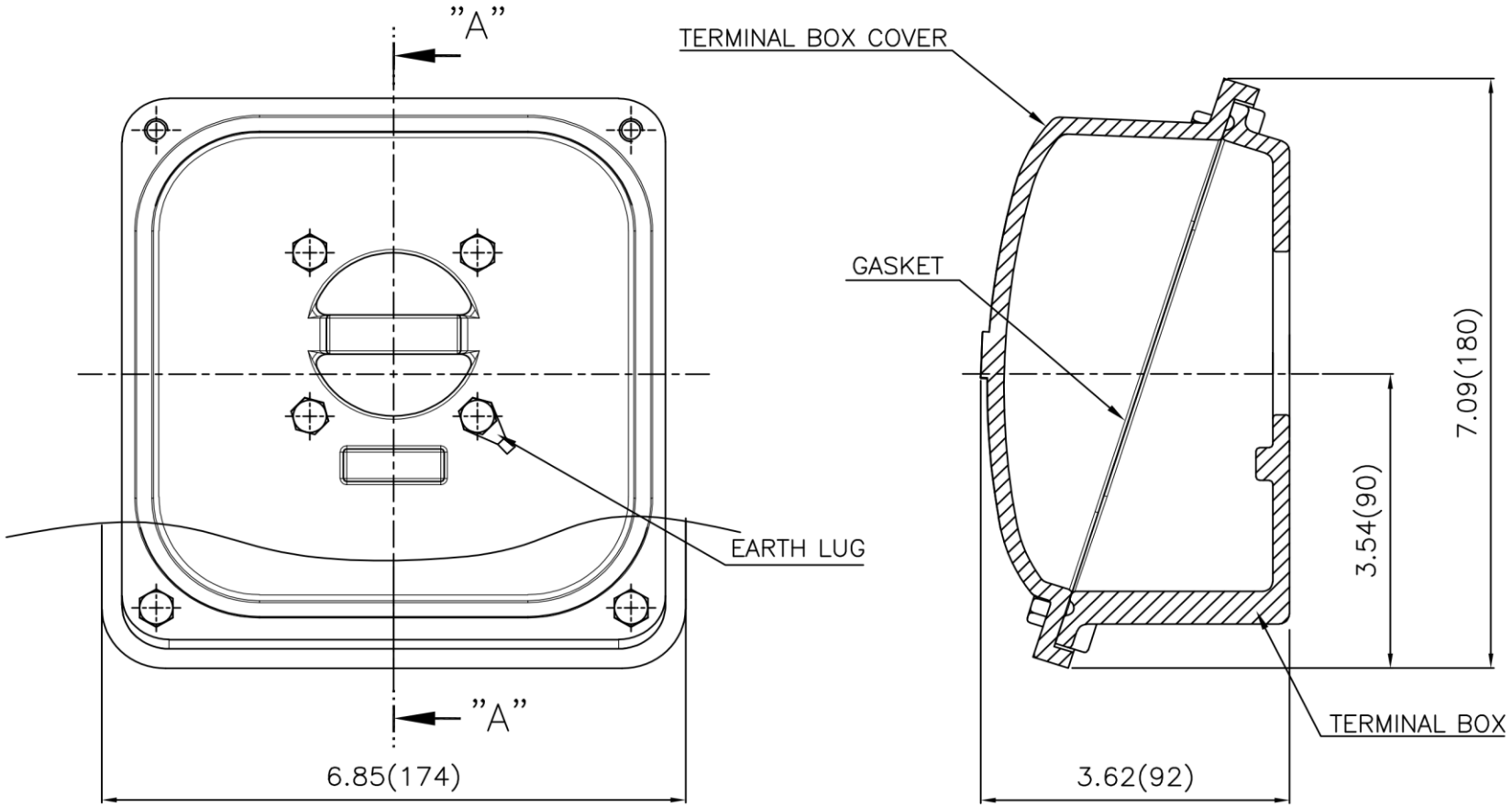
Cls. I&II, Div. 2
IEEE 841



SEC. "A"–"A"

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▽	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	FR. 210 (CAST IRON)
CHKD BY		SCALE	1/1.5		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	TITLE	TERMINAL BOX ASS'Y
DSND BY	배슬희	DATE	2023–10–19	REF. NO	
				DWG NO	3M–248457

DWG SIZE: A3 (1:1.5)

Sheet No. of

Revision No. 0