

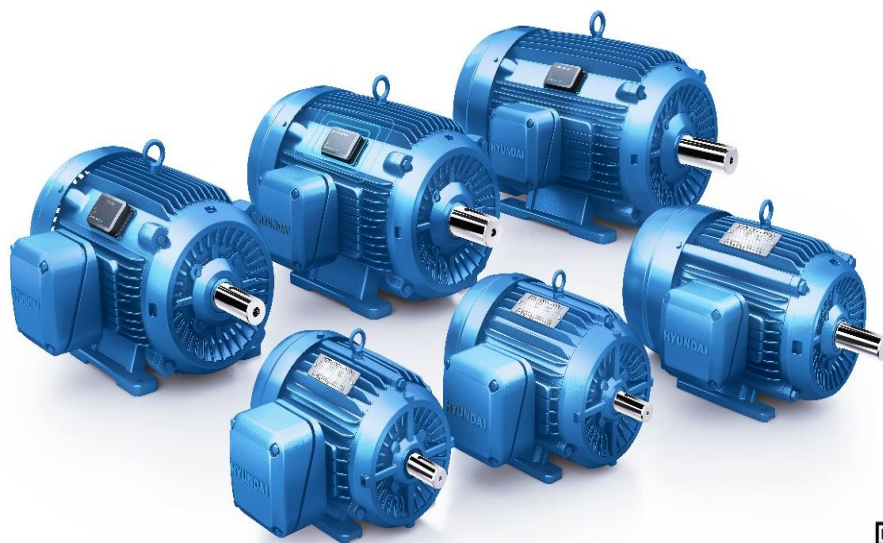
Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

www.hd-hyundaielectric.com

AC INDUCTION MOTOR DATA SHEET

Catalog No.	HES10-18-213/5JP	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA					
Frame Size		215JP		Rated Output		7.5 kW 10 HP		
Type		PJP		Number of Poles		4		
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	10.4 A	13.0 A	26.0 A
Insulation Class		F			Locked-rotor**	750 %	750 %	750 %
Temp. Rise at full load (by resistance method)			Efficiency					
	at 1.0 S.F	80 deg. C			50% Load	88.7 %		
Motor Location		☐ Indoor ☐ Outdoor			75% Load	90.7 %		
Altitude		Less than 1,000 meter			100% Load	91.7 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)				
Ambient Temp.		40 deg. C (Max.)			50% Load	0.640		
Duty Type		Continuous (S1)			75% Load	0.740		
Service Factor		1.15			100% Load	0.790		
Mounting		B35		Speed at Full Load		1770 r.p.m		
Bearing	Type	Anti-Friction		Torque				
	DE/N-DE	6309ZZC3 / 6208ZZC3			Full Load	29.85 lb.ft		
	Lubricant	Grease(Polyrex-EM)			Locked-rotor**	180 %		
External Thrust		Not applicable			Breakdown**	240 %		
Coupling Method		☒ Direct ☐ V-belt		Moment of Inertia (J)				
Shaft Extension		Single			Load(Max.)	62.787 lb.ft2		
Terminal Box	Main	Cast Iron			Motor	0.712 lb.ft2		
	Aux.	No		Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing				62 dB(A)		
Application				Vibration		3.8 mm/s (peak)		
Area classification		Hazardous		Permissible number of consecutive starts		Cold	3 times	
Type of Ex-Protection		Class I&II, Division 2				Hot	2 times	
Applicable Standard		NEMA MG1, CSA C390		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		

ACCESSORIES		SUBMITTAL DRAWING					
		Outline Dimension Drawing		Motor Weight(Approx.)			
		B35	LM-T2215C4JLV25	190 lb.			
		REMARK					
SPARE PARTS		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
		2025-09-19		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.

MAIN NAMEPLATE

3.94

CROWN TRITON G2		Premium Efficiency AC 3 Phase Motor		Cat. No. HES10-18-213/5JP				
10HP	4P	230/460V	Amps	26.0/13.0A	Type HLS	Amb.	40°C	
Frame	215JP	Duty	CONT	Encl.	TEFC	Model	HLS215PR235V	
RPM	1770	Hertz	60Hz	S.F.	1.15	INS. Class	F	
		Drive	6309ZZC3	S.F.1.25 (When 100HP or less, Temp Rise F & Non-Hazardous)			3/4 Eff.	90.7%
		Opp.	6208ZZC3	S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)			NEMA Design	B Torque
	Bearing	50Hz 10HP 380V 17.9A 1465rpm S.F.: 1.0 Eff.: 89.5% Code: H						
	Usable at	50Hz 10HP 400/415V 17.8/18.0A 1470/1470rpm S.F.: 1.0 Eff.: 89.5/89.5% Code: J/K						
	CSA Certified for	Model	-	Type	PJP	Temp. Code	Frame	
		CLASS I, Div. 2, Gr. A, B, C & D	CLASS II, Div. 2, Gr. E, F & G	(Gr. E : up to 320FR)		Amb.40°C	T3C (160°C)	
		CLASS I, Zone 2, Gr. IIA, IIB & IIC				Amb.55°C	T3A (180°C)	
	No.	-	Date	-	Weight	190 lb		
	4M-137664	MARINE DUTY IEEE45		Made in Vietnam H4 Designed By HYUNDAI, Korea		HD HYUNDAI ELECTRIC		

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. LOW VOLTAGE T4 T5 T6 T7 T8 T9 T1 T2 T3 L1 L2 L3 INTERNAL CONNECTIONS T1 T4 T5 T2 T7 T8 T9 T6 T3 HIGH VOLTAGE T4 T5 T6 T7 T8 T9 T1 T2 T3 L1 L2 L3 KEEP FINGERS AND FOREIGN OBJECTS AWAY FROM OPENINGS AND ROTATING PARTS DISCONNECT ALL POWER SOURCES BEFORE TOUCHING INTERNAL PARTS TO AVOID ELECTRICAL SHOCK. 4M-128845	N/A

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, JM/JP, 143 -215)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE	TITLE		A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	NAMEPLATE DRAWING		
DSND BY	S.H.LEE	DATE	2024.06.07	REF. NO	4M-137664 / 4M-128845	Sheet No. of
HD HYUNDAI ELECTRIC				DWG NO	NP-HES10-18-213/5JP	Revision No. 0

Type : PJP

7.5kW 10HP 4 P 60 Hz

Full Load Torque : 29.85 lb.ft

Speed at Full Load : 1770 RPM

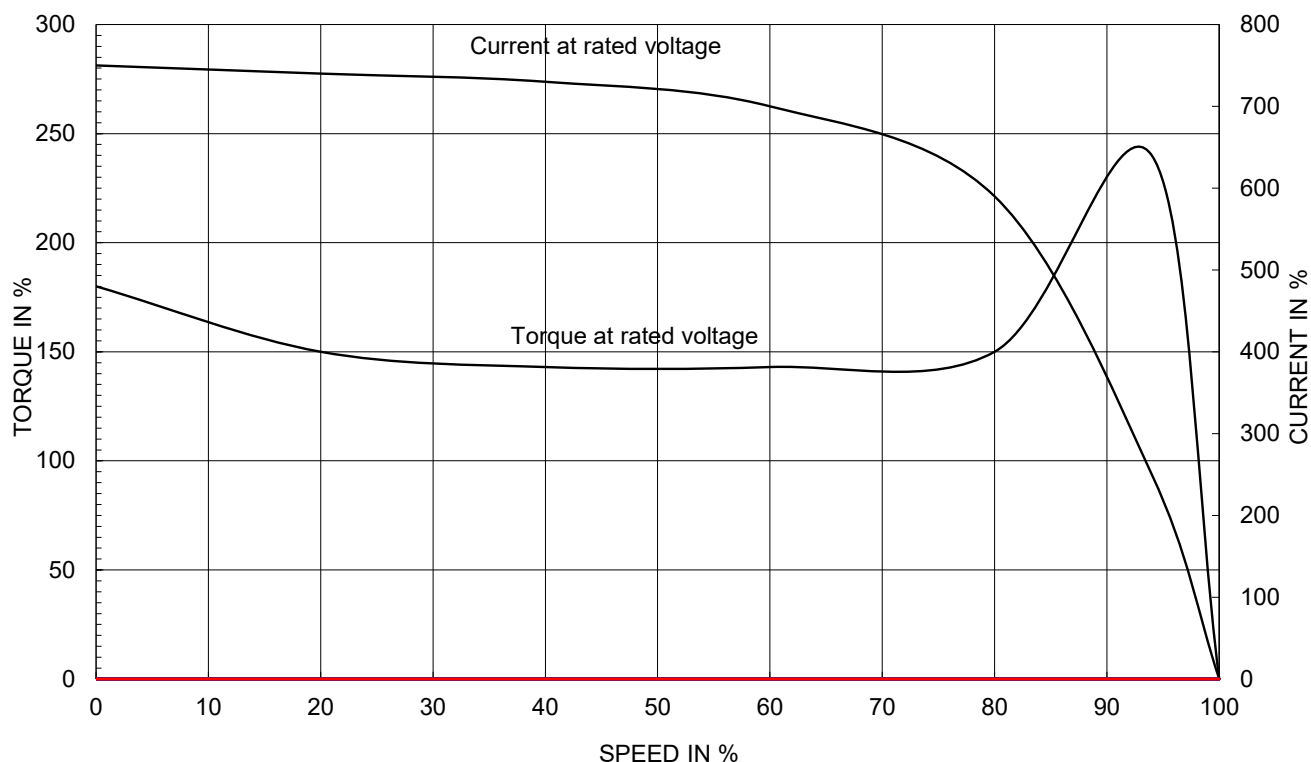
Load moment of Inertia (J) : 62.787 lb.ft²

Rated Voltage	575V	460V	230V
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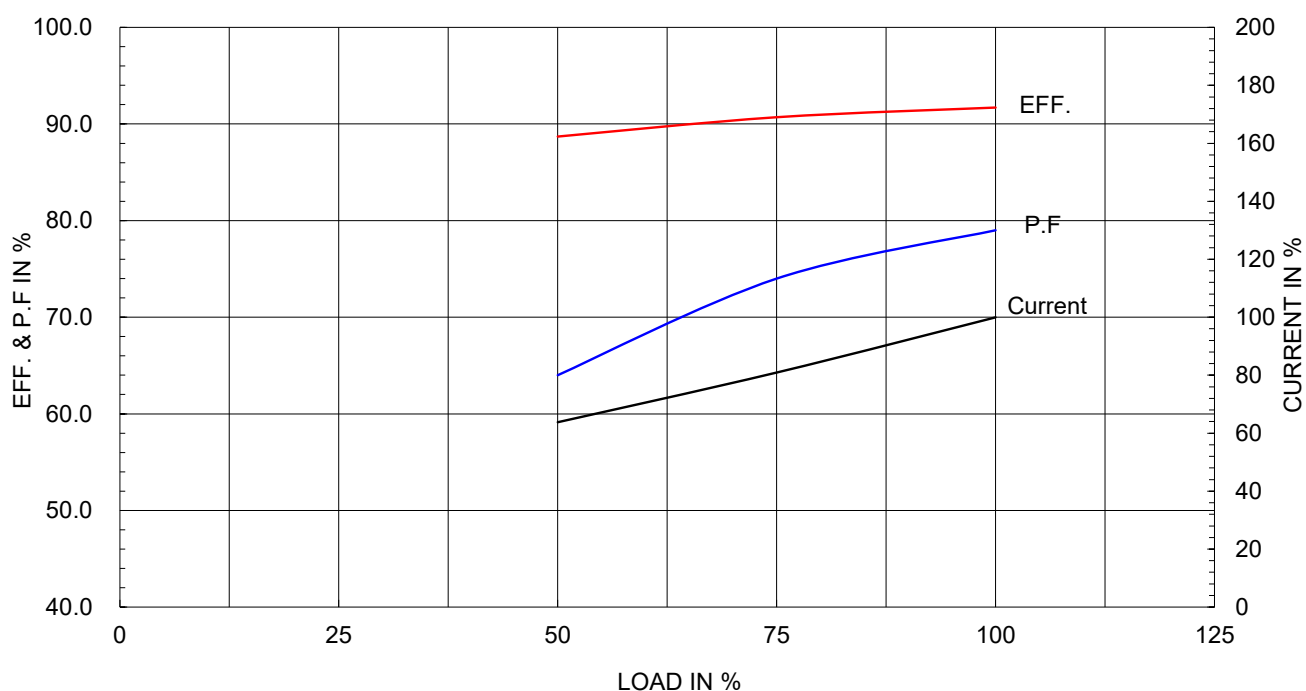
Motor moment of Inertia (J) : 0.712 lb.ft²

Full Load Current	10.4A	13.0A	26.0A
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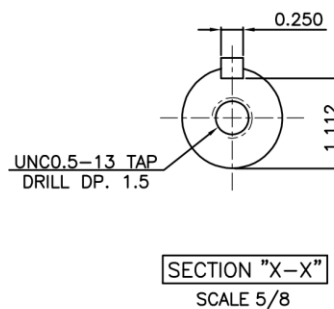
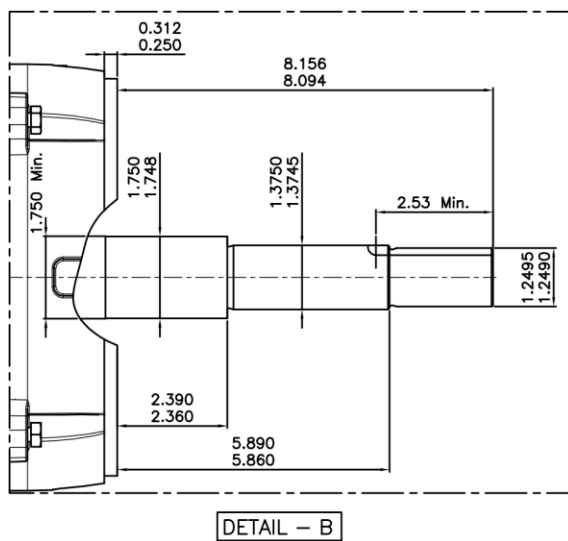
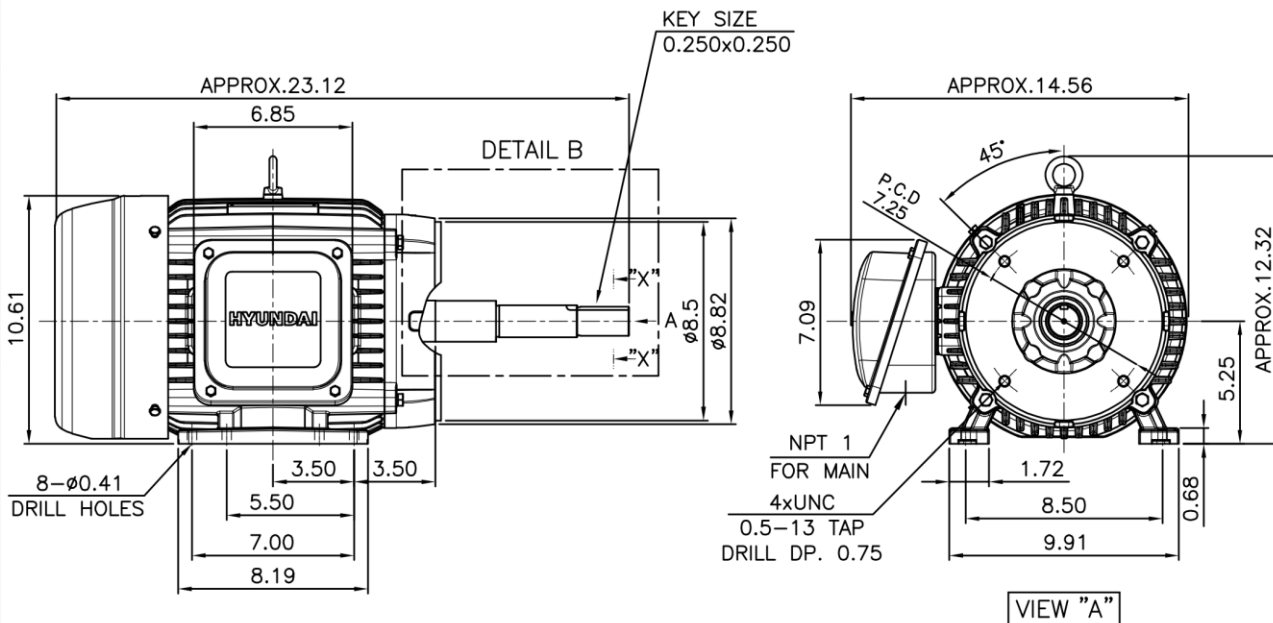
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



1	2	3	4	
REV	DATE	CONTENTS	REVD BY	CHKD BY



NOTE

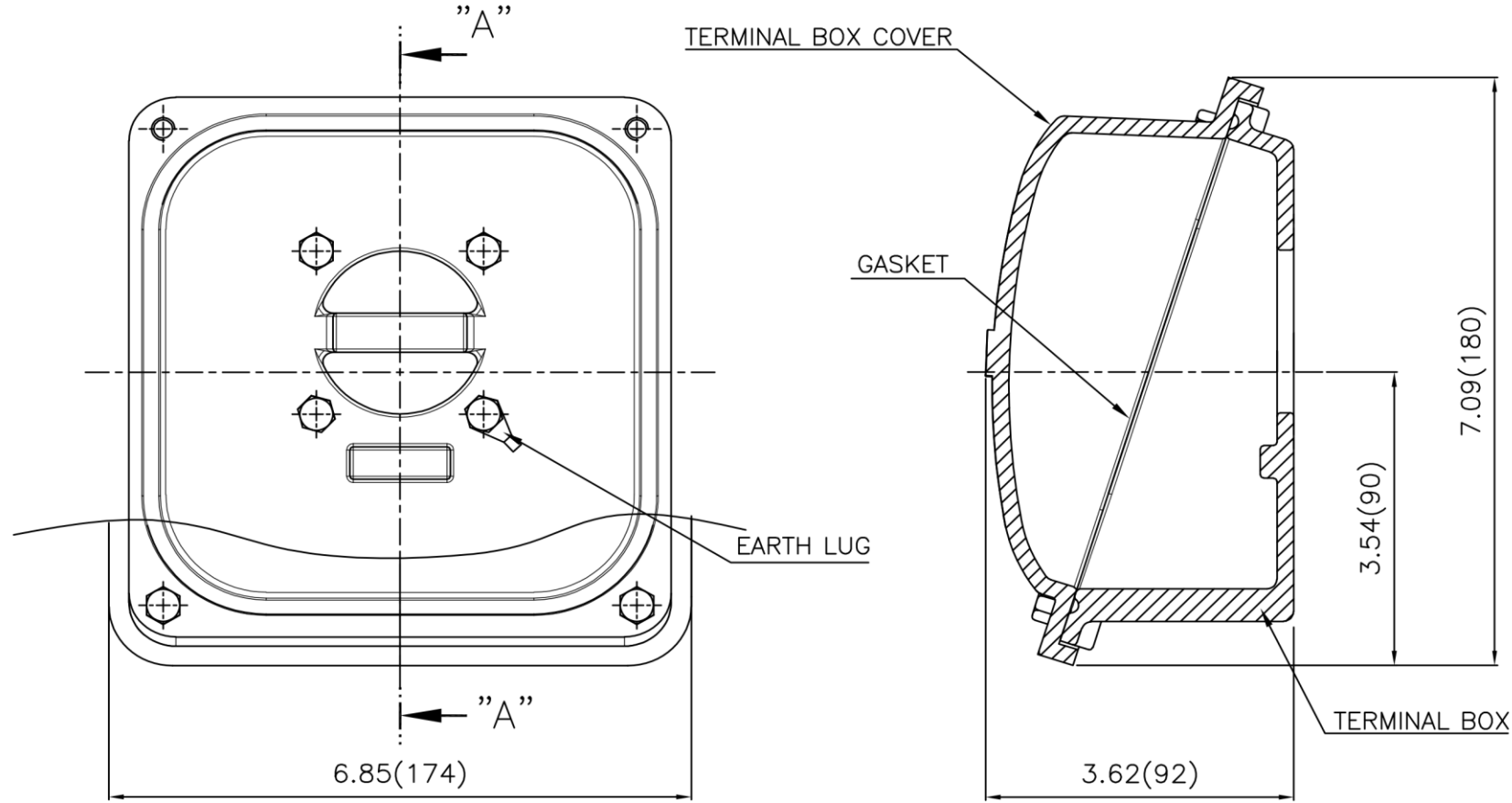
[TOLERANCE]

- CENTER HEIGHT : +0.00inch - 0.03inch
- SHAFT DIAMETER : +0.000inch - 0.0005inch
- KEYWAY DEPTH : +0.000inch - 0.015inch

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	NEMA 213/5TC (JP) (Dual hole)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/8	TITLE	OUTLINE	A4 (1/8)
CHKD BY		PROJEC'N	3rd Angle			
DSND BY	S.H.LEE	DATE	2025-01-17	REF. NO		Sheet No. of
				DWG NO	LM-T2215C4JLV25	Revision No. 1

Cls. I&II, Div. 2

IEEE 841



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

일반가공공차		일반계관공차	
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)	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

