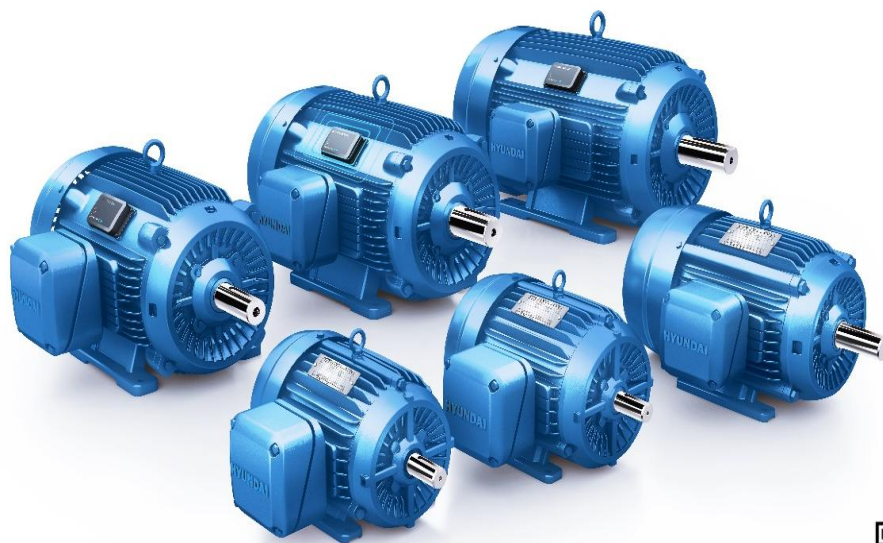


Customer :
Project Name :
Project No. :
Revision No. :

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.	IXHHI10-36-215T	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets

GENERAL SPECIFICATION			PERFORMANCE DATA			
Frame Size		215T	Rated Output		7.5 kW 10 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	9.71 A	12.1 A 24.3 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		87.2 %	
Motor Location		☐ Indoor ☐ Outdoor	75% Load		89.2 %	
Altitude		Less than 1,000 meter	100% Load		90.2 %	
Relative Humidity		Less than 80 %	Power Factor(p.u)			
Ambient Temp.		40 deg. C (Max.)	50% Load		0.710	
Duty Type		Continuous (S1)	75% Load		0.810	
Service Factor		1.15	100% Load		0.860	
Mounting		B3	Speed at Full Load		3525 r.p.m	
Bearing	Type	Anti-Friction	Torque			
	DE/N-DE	6208ZZC3 / 6208ZZC3	Full Load		14.99 lb.ft	
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**		160 %	
External Thrust		Not applicable	Breakdown**		260 %	
Coupling Method		☒ Direct ☐ V-belt	Moment of Inertia (J)			
Shaft Extension		Single	Load(Max.)		11.159 lb.ft2	
Terminal Box	Main	Cast Iron	Motor		0.451 lb.ft2	
	Aux.	No	Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing			76 dB(A)	
Application			Vibration		3.8 mm/s (peak)	
Area classification		Hazardous	Permissible number of		Cold 3 times	
Type of Ex-Protection		Class I, Division 1	consecutive starts		Hot 2 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.)
	B3 LM-U1215B3TL001 180 lb.

REMARK
1. Premium efficiency according to NEMA MG1 2. Inverter Duty @ 1.0 S.F & F Temp. rise & Amb. max 45°C -. 10:1 VT (20:1 VT at 50% load) -. 10:1 CT (1 hour duty, 10.5Hz to 60Hz continuous) -. CHP up to 1.5 times base speed, NEMA MG1 Part31 3. UL Certification -. Class I, Division 1, Group C&D 4. Temperature Code (Sine wave) -. T2C(230°C) at 40°C Amb. / T2B(260°C) at 55°C Amb. -. T4(135°C) with Winding Temperature Detector
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.

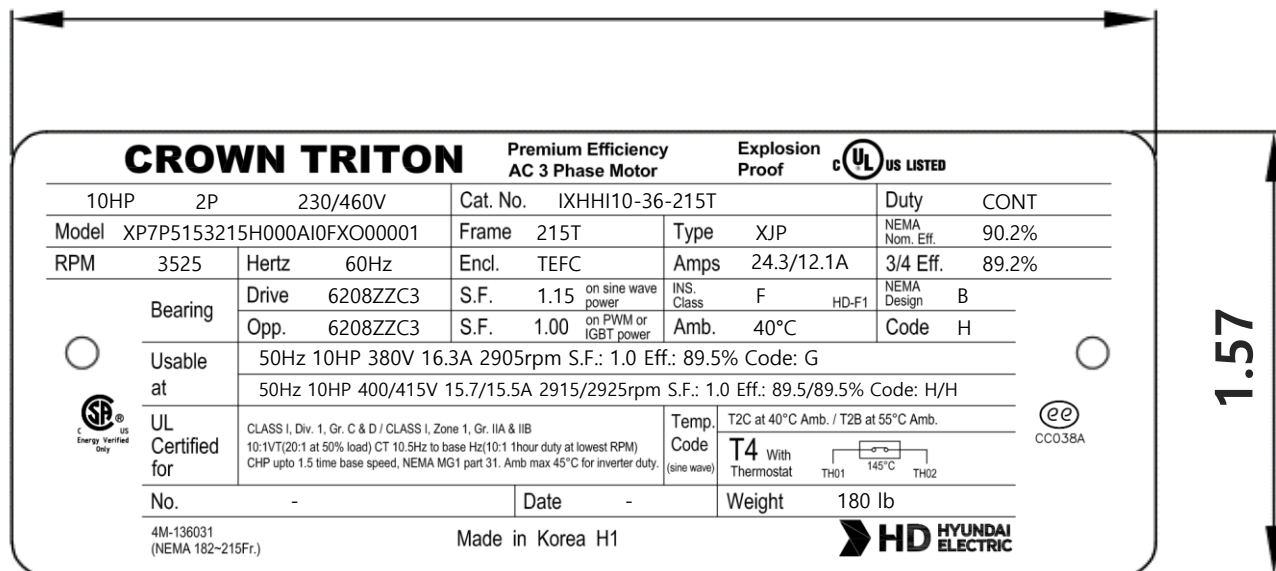
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

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

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

■ MAIN NAMEPLATE

3.94



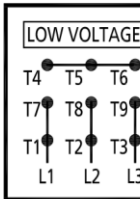
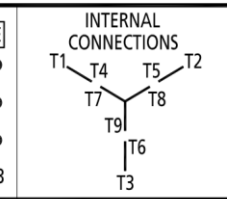
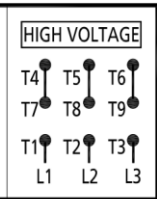
■ WIRING DIAGRAM

**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.

LOW VOLTAGE	INTERNAL CONNECTIONS	HIGH VOLTAGE
		

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

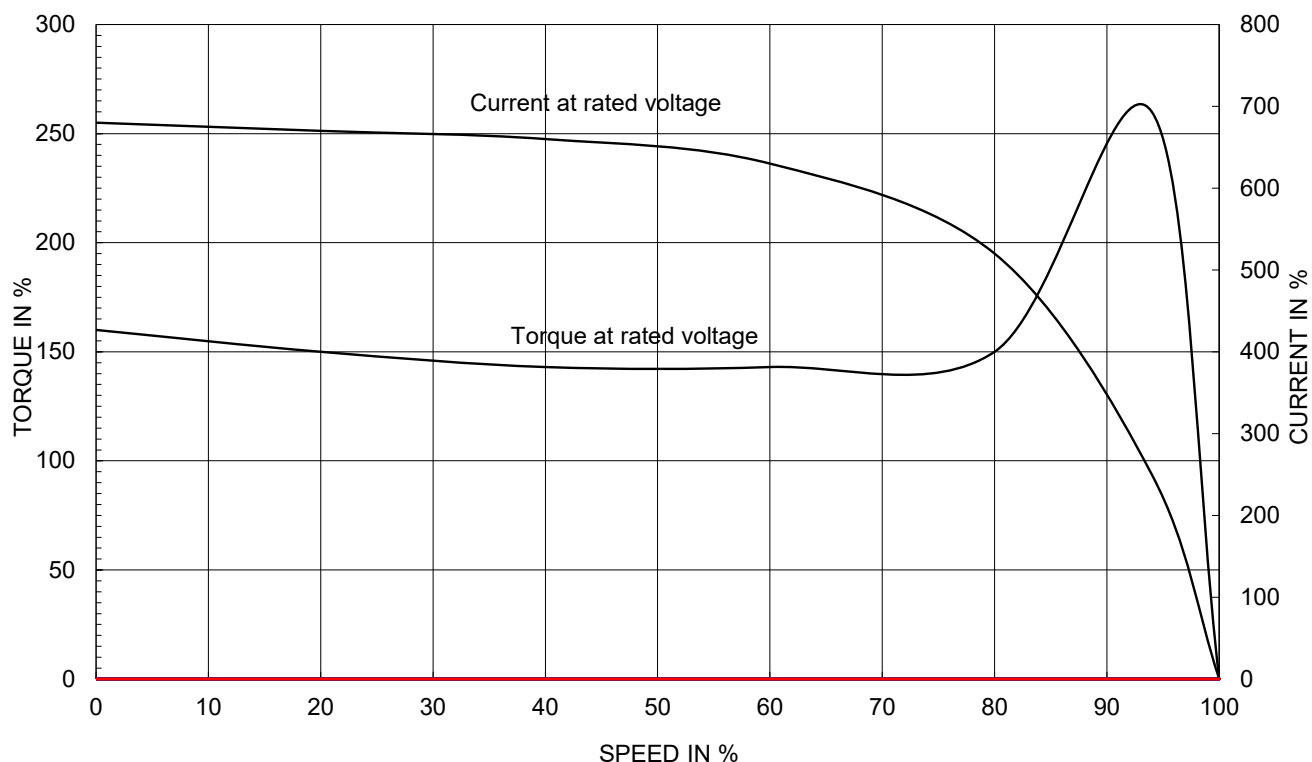
N/A

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	UL Class I, Division1 (IXHHI, 182-215)	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-136031 / 4M-128845	Sheet No.	of
				DWG NO	NP-IXHHI10-36-215T	Revision No.	0

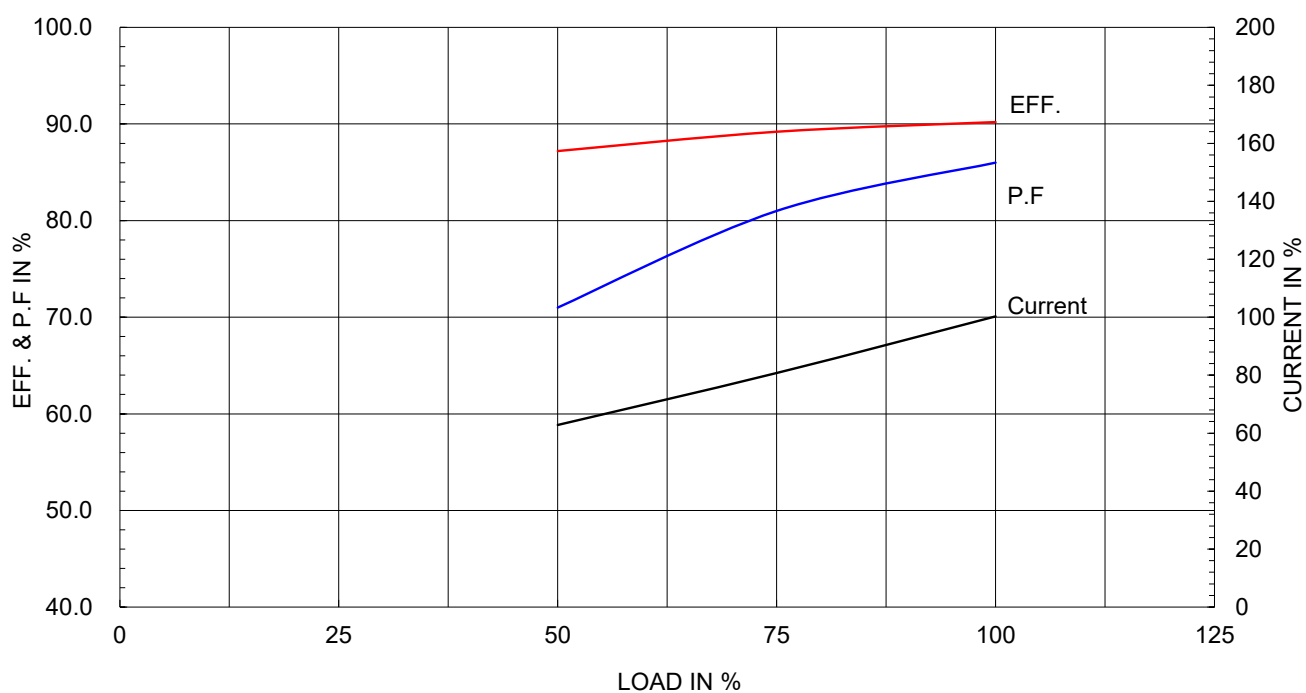
Type :	XJP	
Full Load Torque :	14.99	lb.ft
Load moment of Inertia (J) :	11.159	lb.ft2
Motor moment of Inertia (J) :	0.451	lb.ft2

7.5kW	10HP	2 P	60 Hz
Speed at Full Load :			3525 RPM
Rated Voltage	575V	460V	230V
Full Load Current	9.71A	12.1A	24.3A

SPEED VS TORQUE & CURRENT CURVE

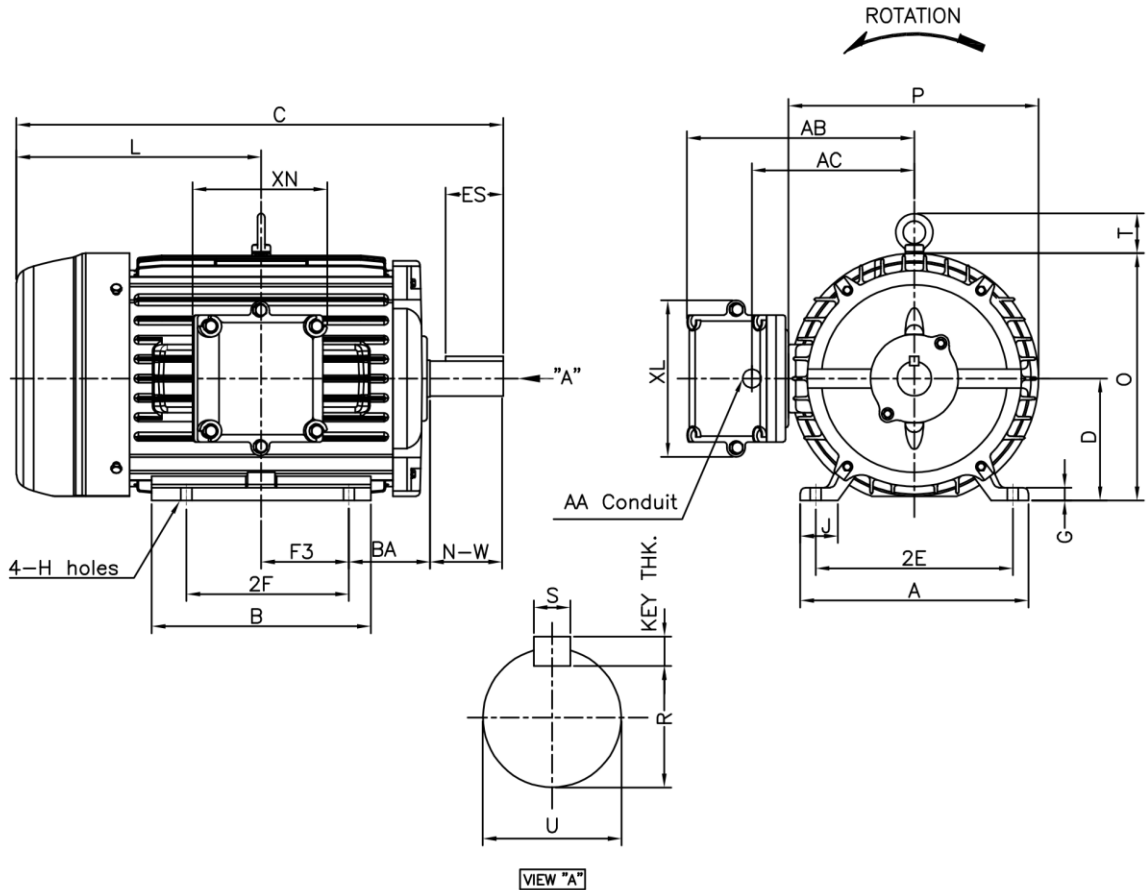


OUTPUT VS EFF., P.F & CURRENT CURVE



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

CLASS I DIVISION 1



DIMENSIONS

M O U N T I N G									CONDUIT BOX						APPROX. WGT.(lb)
A	B	2E	2F	—	F3	G	J	H	AA	AB	AC	XB	XL	XN	
9.84	9.45	8.50	7.00	—	3.78	0.55	1.61	0.41	1.00	9.80	7.01	—	6.69	5.98	180

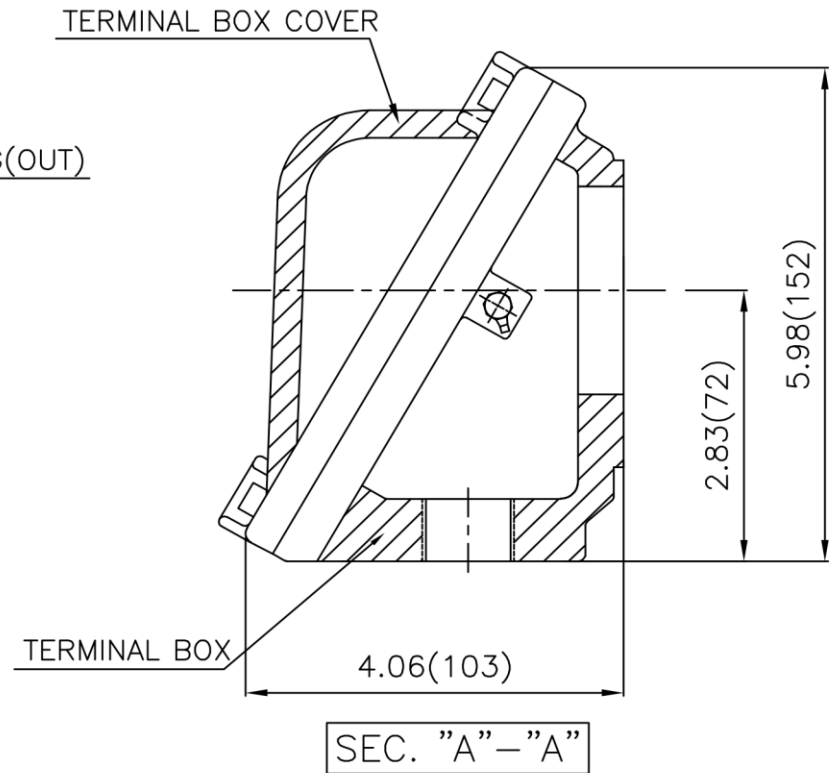
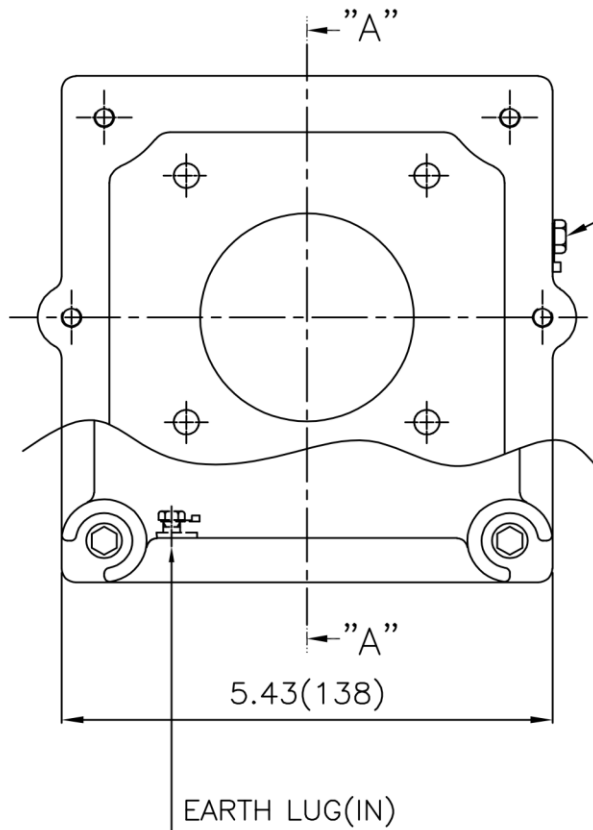
O V E R A L L							S H A F T					KEY THK.	BEARING	
BA	C	D	L	O	P	T	U	N-W	KEYWAY				DRIVE END	OPP. DRIVE END
									R	ES	S			
3.50	20.98	5.25	10.55	10.59	10.83	1.69	1.375	3.38	1.201	2.41	0.312	0.312	6208ZZC3	6208ZZC3

NOTE

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

APPD BY	S.WKIM	UNIT	INCH	SUBJECT	NEMA 215T	DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/7	TITLE		A4 (1/7)
CHKD BY	-	PROJEC'N	3각법(3rd Angle)			
DSND BY	S.H.BAE	DATE	2025-07-24			
				REF. NO		Sheet No. of
				DWG NO	LM-U1215B3TL001	Revision No. 0

Cls. I Div. 1



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY

일반가공공차		일반계량공차	
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	mm	SUBJECT	NEMA FR. 180~210(CAST IRON)	DWG SIZE	
CHKD BY	R.G.KIM	SCALE	1/1.5	TITLE	MAIN TERMINAL BOX ASS'Y		
CHKD BY		PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	김은진	DATE	2023-10-24	DWG NO	3M-248496	Revision No.	0