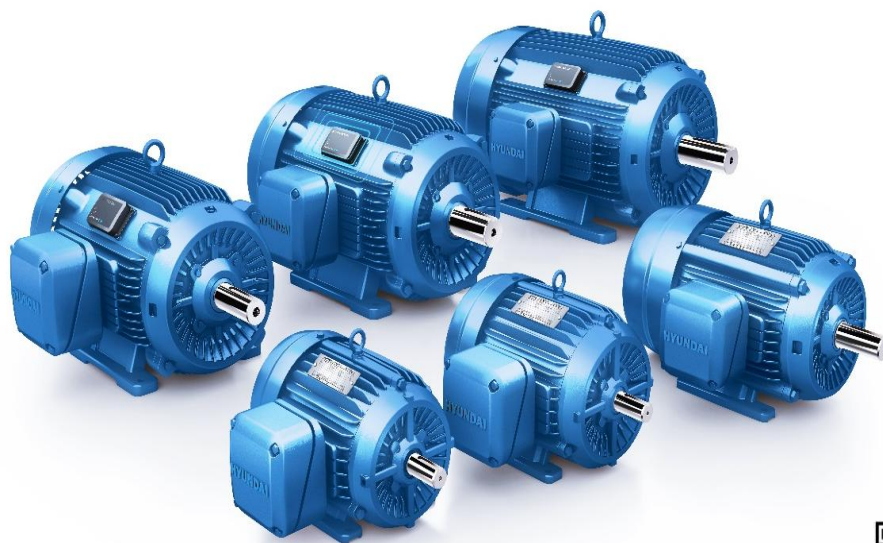


Customer :
Project Name :
Project No. :
Revision No. :

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.	IXHHI7.5-36-213T	Item No.		Rev. No.	[]
Project Name		Project No.		Quantity	sets
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	213T	Rated Output	5.5 kW 7.5 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	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	50% Load 86.5 %			
Motor Location	☐ Indoor ☐ Outdoor	75% Load 88.5 %			
Altitude	Less than 1,000 meter	100% Load 89.5 %			
Relative Humidity	Less than 80 %	Power Factor(p.u)			
Ambient Temp.	40 deg. C (Max.)	50% Load 0.700			
Duty Type	Continuous (S1)	75% Load 0.800			
Service Factor	1.15	100% Load 0.850			
Mounting	B3	Speed at Full Load	3530 r.p.m		
Bearing	Type	Anti-Friction	Torque		
	DE/N-DE	6208ZZC3 / 6208ZZC3	Full Load 10.98 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.) 8.183 lb.ft2			
Terminal	Main	Motor 0.332 lb.ft2			
Box	Aux.	Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing			
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-U1213B3TL001	160 lb.	
REMARK		1. Premium efficiency according to NEMA MG1			
SPARE PARTS		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.

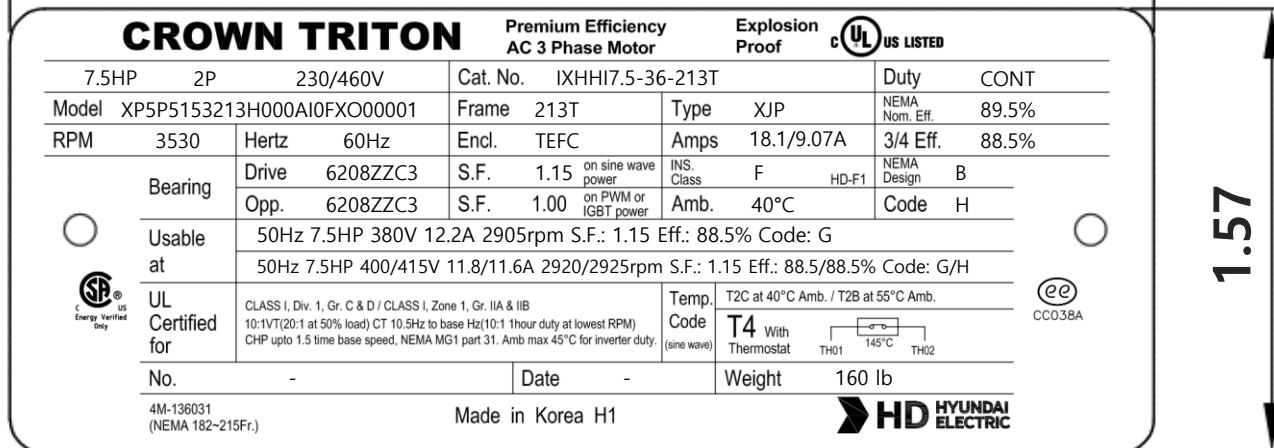
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

** 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

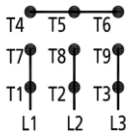
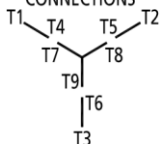
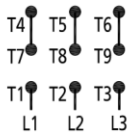


■ WIRING DIAGRAM

**D.O.L
(INVERTER & SOFT STARTER)**

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

**WYE-DELTA
(Y-D)**

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-IXHHI7.5-36-213T	Revision No.	0

Type : XJP

5.5kW 7.5HP 2 P 60 Hz

Full Load Torque : 10.98 lb.ft

Speed at Full Load : 3530 RPM

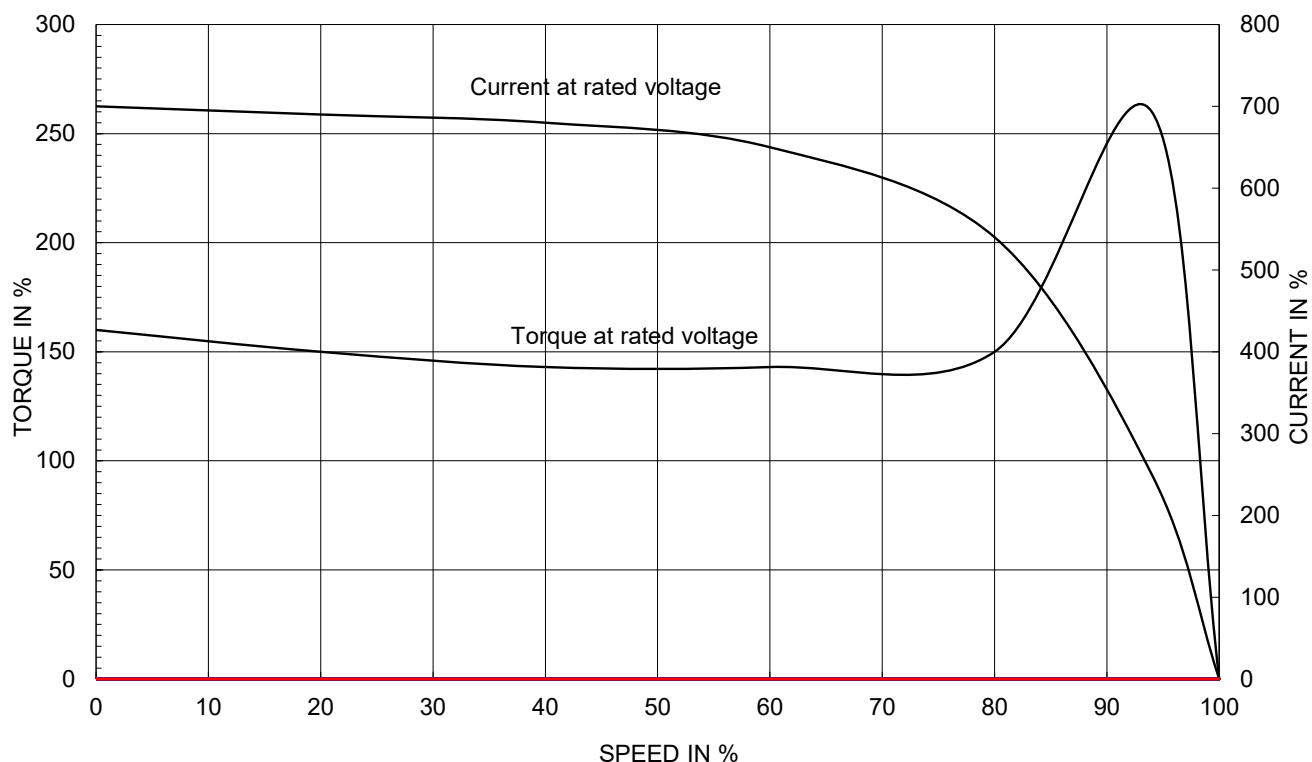
Load moment of Inertia (J) : 8.183 lb.ft2

Rated Voltage	575V	460V	230V
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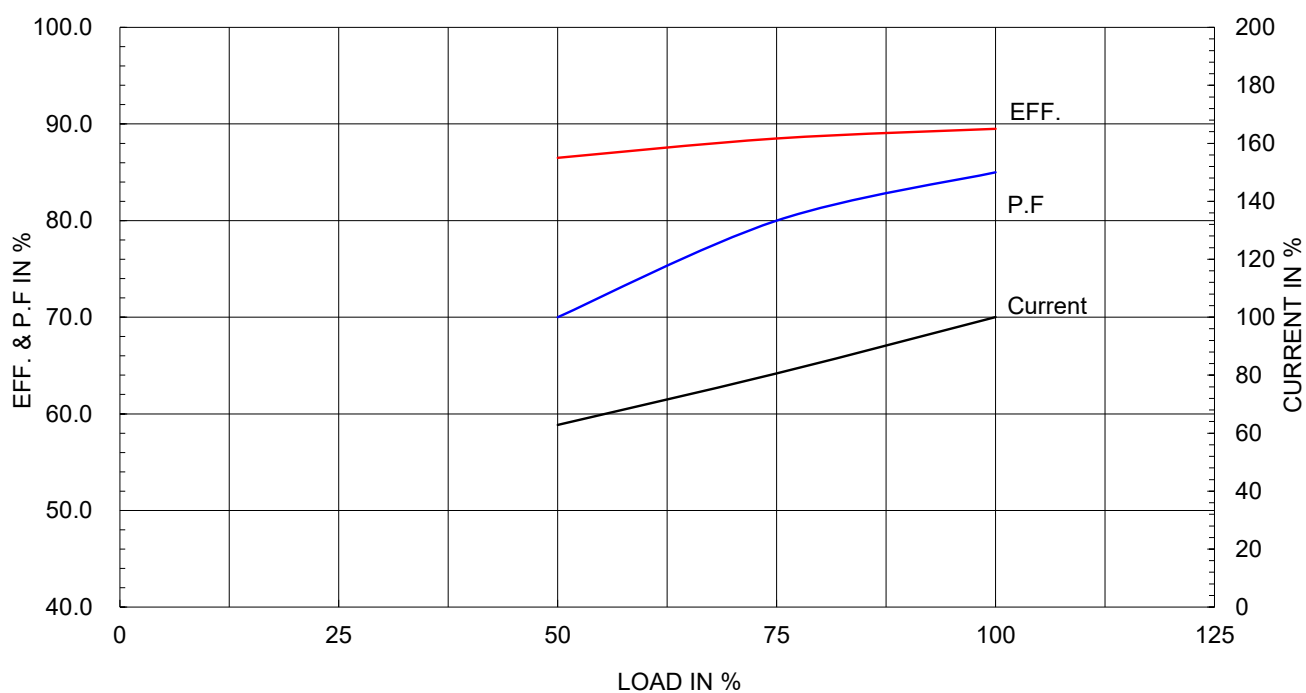
Motor moment of Inertia (J) : 0.332 lb.ft2

Full Load Current	7.26A	9.07A	18.1A
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SPEED VS TORQUE & CURRENT CURVE

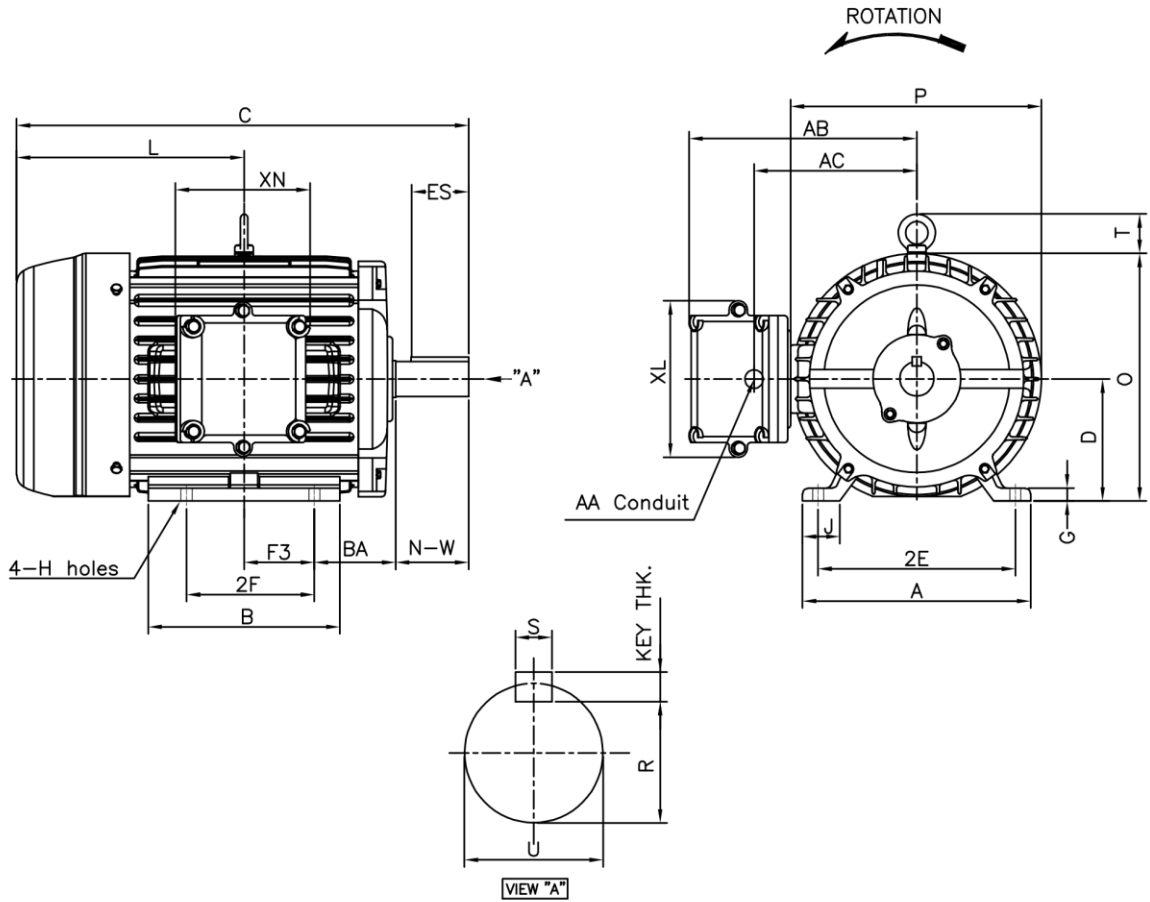


OUTPUT VS EFF., P.F & CURRENT CURVE



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	8.26	8.50	5.50	—	3.03	0.55	1.61	0.41	1.00	9.80	7.01	—	6.69	5.98	160

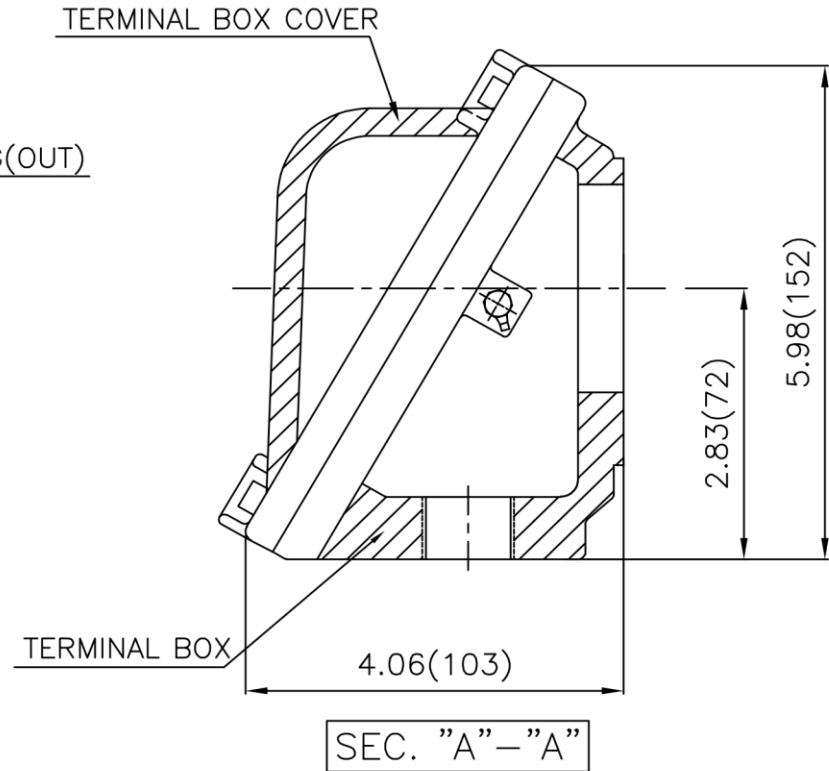
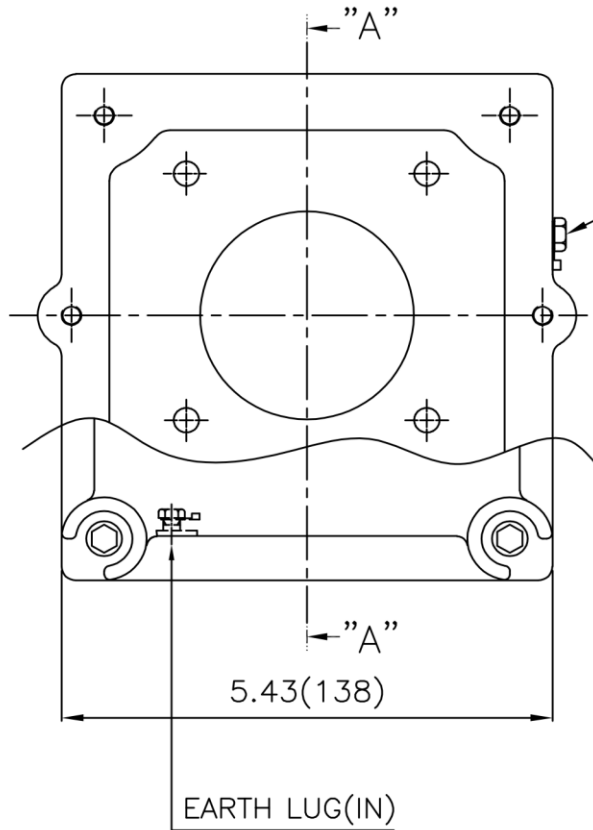
O V E R A L L							S H A F T					KEY THK.	BEARING	
BA	C	D	L	O	P	T	U	N-W	KEYWAY				DRIVE END	OPP. DRIVE END
									R	ES	S			
3.50	19.48	5.25	9.80	10.59	10.83	1.69	1.375	3.38	1.201	2.41	0.312	0.312	6208ZZC3	6208ZZC3

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.W.KIM	UNIT	INCH	SUBJECT	NEMA 213T	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-U1213B3TL001	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
1						

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(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