

Customer :

Project Name :

Project No. :

Revision No. :

SPECIFICATION for INDUCTION MOTOR



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

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AC INDUCTION MOTOR DATA SHEET

Catalog No.	HES15-18-254/6JP	Item No.			Rev. No.	[]	
Project Name		Project No.			Quantity	sets	
GENERAL SPECIFICATION				PERFORMANCE DATA			
Frame Size	256JP		Rated Output	11 kW		15 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	14.6 A	18.2 A	36.4 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				
Motor Location	☐ Indoor ☐ Outdoor		50% Load		89.4 %		
Altitude	Less than 1,000 meter		75% Load		91.4 %		
Relative Humidity	Less than 80 %		100% Load		92.4 %		
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)				
Duty Type	Continuous (S1)		50% Load		0.670		
Service Factor	1.15		75% Load		0.770		
Mounting	B35		100% Load		0.820		
Bearing	Type	Anti-Friction	Speed at Full Load		1775 r.p.m		
	DE/N-DE	6310ZC3 / 6309ZC3	Torque				
	Lubricant	Grease(Polyrex-EM)	Full Load		43.66 lb.ft		
External Thrust	Not applicable		Locked-rotor**		200 %		
Coupling Method	☒ Direct ☐ V-belt		Breakdown**		240 %		
Shaft Extension	Single		Moment of Inertia (J)				
Terminal	Main	Cast Iron	Load(Max.)		122.210 lb.ft2		
Box	Aux.	No	Motor		2.635 lb.ft2		
	Location	Refer to Outline Drawing	Sound Pressure Level (No-load & mean value at 1m from motor)				
Application			70 dB(A)				
Area classification	Hazardous		Vibration		3.8 mm/s (peak)		
Type of Ex-Protection	Class I&II, Division 2		Permissible number of consecutive starts		Cold	3 times	
Applicable Standard	NEMA MG1, CSA C390		Hot		2 times		
			Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B35	LM-T2256C4JLV25	310 lb.		
SPARE PARTS			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 (1 hour duty, 4:1 continuous)				
			-. 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.

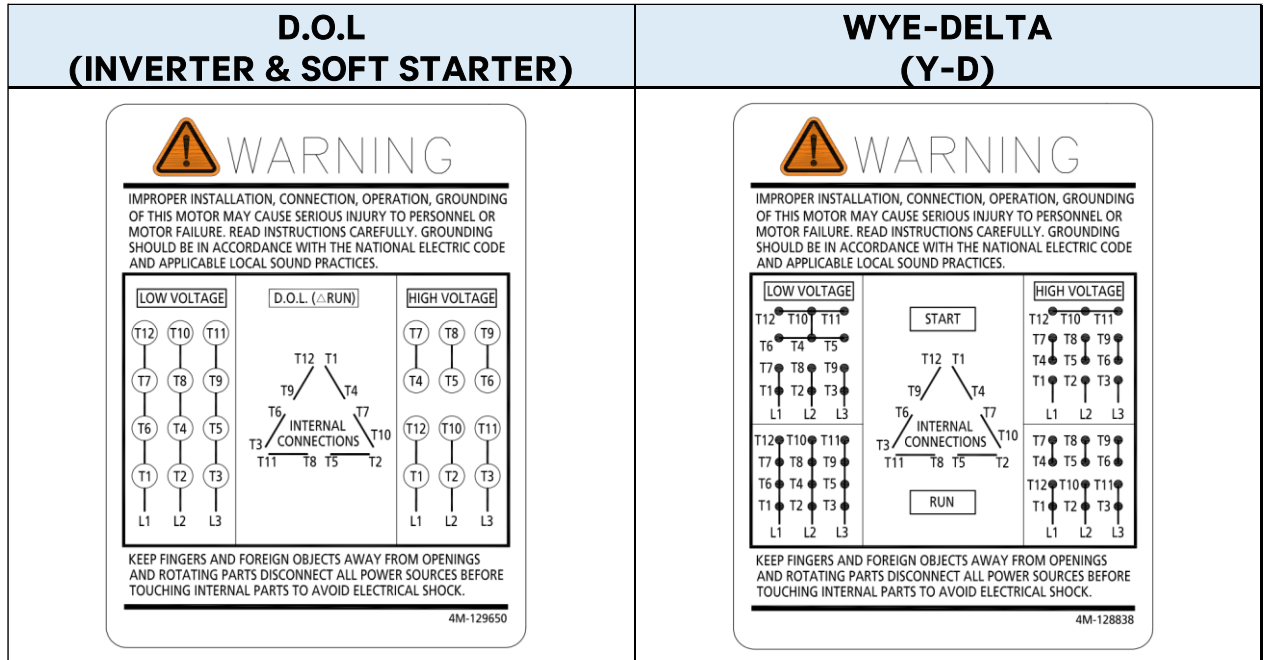
MAIN NAMEPLATE

4.72

CROWN TRITON G2			
Premium Efficiency AC 3 Phase Motor		CC038A	
15HP 4P 230/460V	Cat. No. HES15-18-254/6JP		
Model HLS256PR235V	INS. Class F HD-F1	Amps	36.4/18.2A
Type HLS	Duty CONT	Code J	Amb. 40°C
Frame 256JP	Encl. TEFC	S.F. 1.15	RPM 1775
Bearing	Drive 6310ZC3	S.F.1.25 (When 100HP or less, Temp Rise F & Non-Hazardous)	3/4 Eff. 91.4%
	Opp. 6309ZC3	S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)	NEMA Design B Torque
Usable at	50Hz 15HP 380V 24.3A 1460rpm S.F.: 1.15 Eff.: 91.0% Code: F		
	50Hz 15HP 400/415V 23.5/23.2A 1465/1470rpm S.F.: 1.15 Eff.: 91.0/91.0% Code: G/H		
CSA Certified for	Model -	Type PJP	Temp. Frame 140~320FR 360~400FR 440FR
	CLASS I, Div. 2, Gr. A, B, C & D	CLASS II, Div. 2 Gr. E, F & G	Amb. 40°C T3C (160°C) T3B (165°C) T3A (180°C)
	CLASS I, Zone 2, Gr. IIA, IIB, & IIC	(Gr. E: Up to 320FR)	Amb. 55°C T3A (180°C) T3A (180°C) T3 (200°C)
No. -	Date -	Weight	310 lb
4M-137666 MARINE DUTY IEEE45		Made in Vietnam H4 Designed By HYUNDAI, Korea	

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WIRING DIAGRAM



APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HES, JM/JP, 254-326)	DWG SIZE	A4 (1:1)
CHKD BY	I.K.KIM	SCALE	NONE	TITLE	NAMEPLATE DRAWING		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO	4M-137666 / 4M-129650	Sheet No.	of
DSND BY	S.H.LEE	DATE	2024.06.07	DWG NO	NP-HES15-18-254/6JP	Revision No.	0



Type : PJP

11kW 15HP 4 P 60 Hz

Full Load Torque : 43.66 lb.ft

Speed at Full Load : 1775 RPM

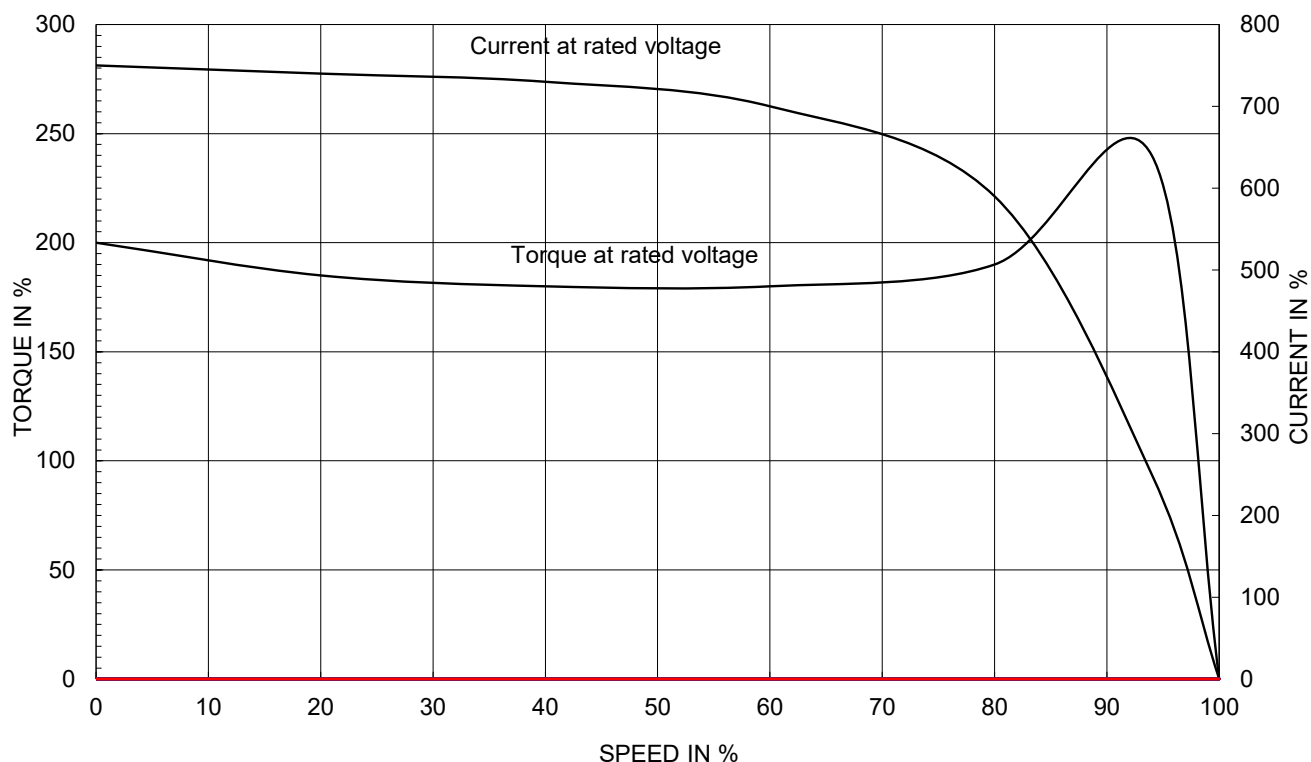
Load moment of Inertia (J) : 122.210 lb.ft²

Rated Voltage	575V	460V	230V
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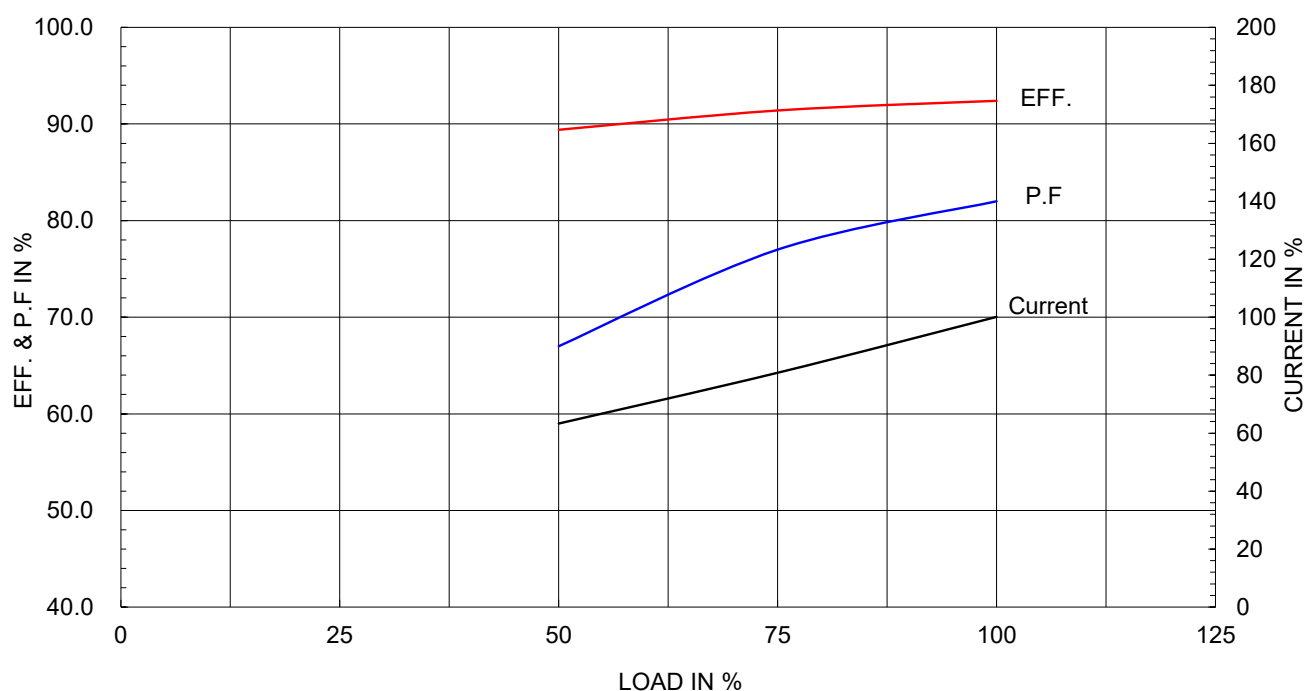
Motor moment of Inertia (J) : 2.635 lb.ft²

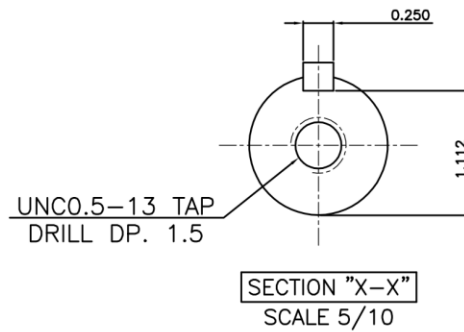
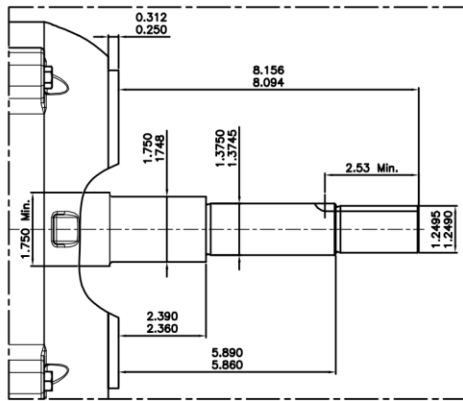
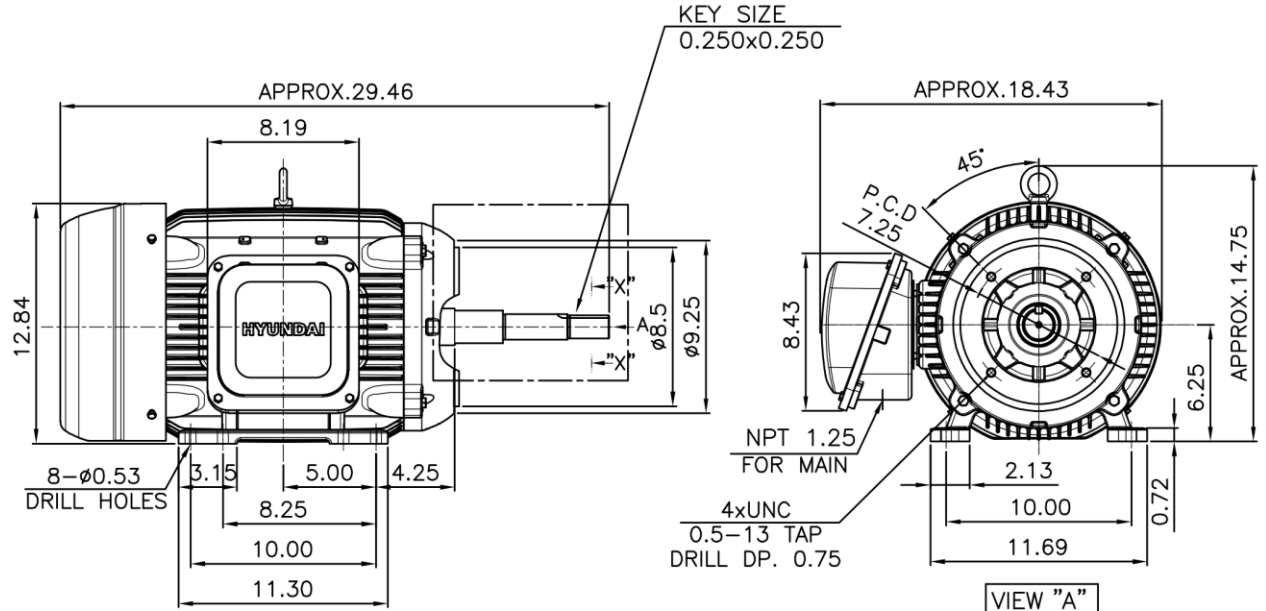
Full Load Current	14.6A	18.2A	36.4A
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SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





NOTE

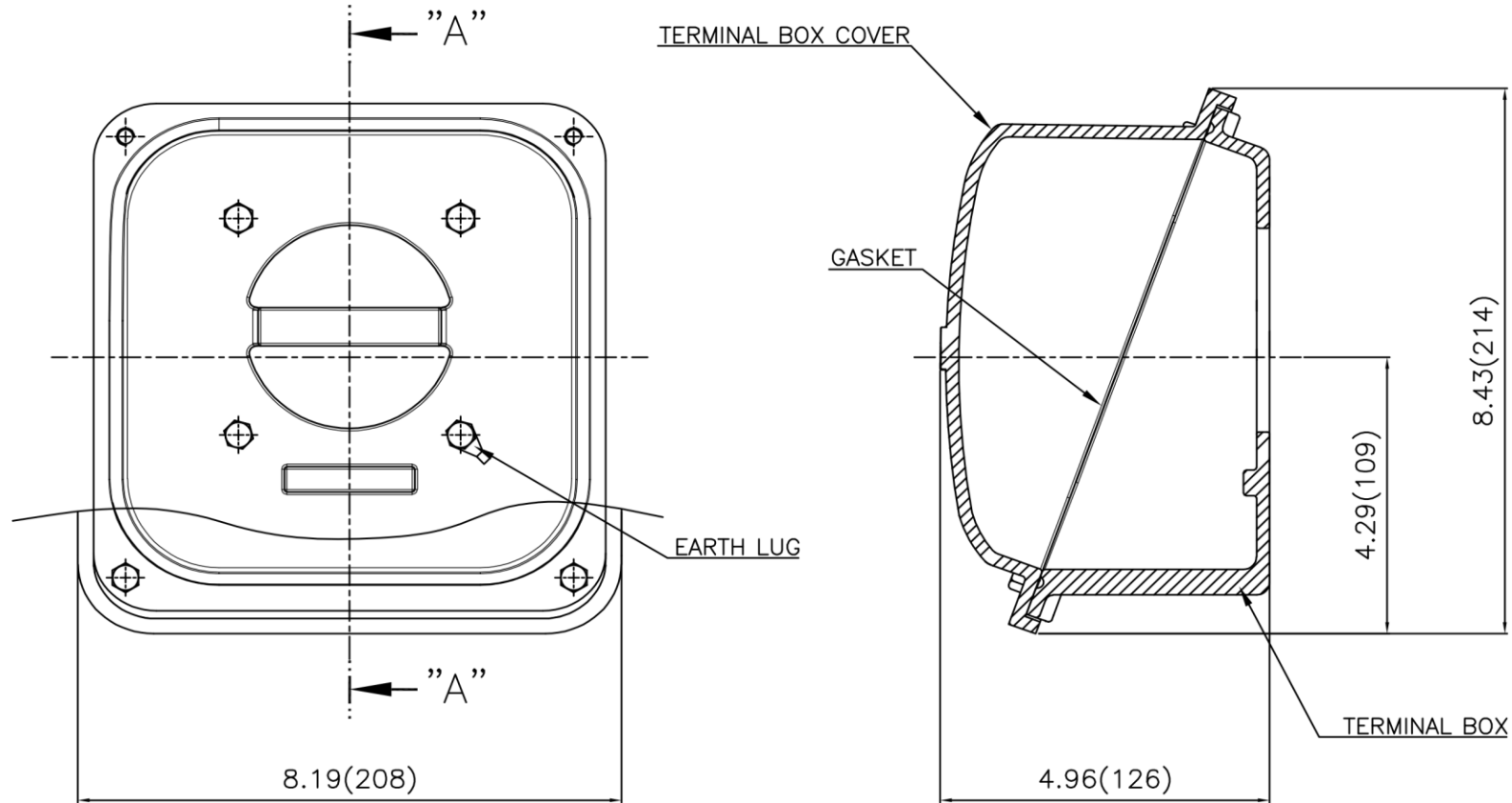
[TOLERANCE]

1. CENTER HEIGHT : +0.00inch - 0.03inch
2. SHAFT DIAMETER : +0.000inch - 0.001inch
3. KEYWAY DEPTH : +0.000inch - 0.015inch

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	NEMA 254/6TC (JP) (Dual hole)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/10	TITLE	OUTLINE	A4 (1:10)
CHKD BY		PROJEC'N	3rd Angle			
DSND BY	S.H.LEE	DATE	2025.01.17			
				REF. NO	Sheet No.	of
				DWG NO	LM-T2256C4JLV25	Revision No.
						1

Cls. I&II, Div. 2

IEEE 841



SEC. "A"-"A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D 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. 250-280 (CAST IRON)	DWG SIZE	
CHKD BY		SCALE	1/2	TITLE	TERMINAL BOX ASS'Y	A3 (1:2)	
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	네슬의	DATE	2023-10-19	DWG NO	3M-248458	Revision No.	0

