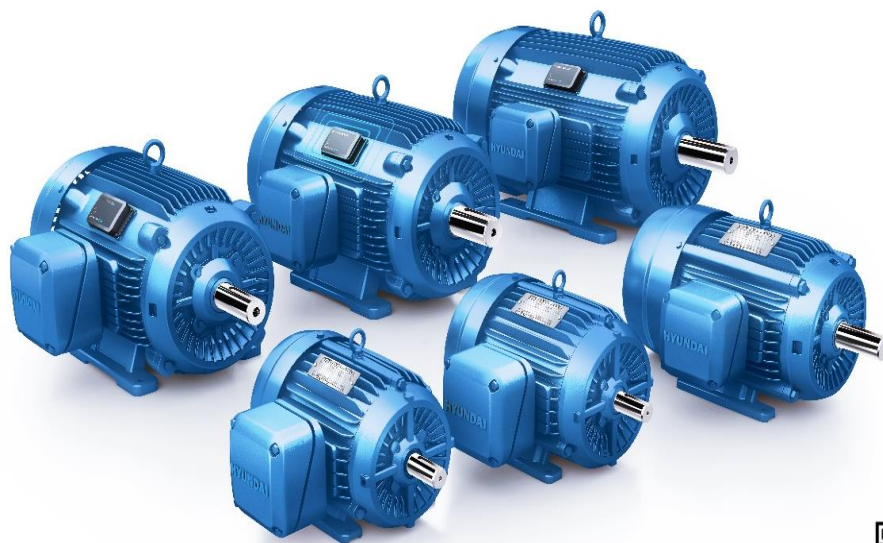


Customer :
Project Name :
Project No. :
Revision No. :

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.	IEEE50-18-326T	Item No.				Rev. No.	[]		
Project Name		Project No.				Quantity	sets		
GENERAL SPECIFICATION					PERFORMANCE DATA				
Frame Size	326T		Rated Output	37 kW		50 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	46.8 A	58.5 A	117.0 A		
Insulation Class	F			Locked-rotor**	830 %	830 %	830 %		
Temp. Rise at full load (by resistance method)			Efficiency						
	at 1.0 S.F	80 deg. C							
Motor Location	☐ Indoor ☐ Outdoor		50% Load 91.5 %						
Altitude	Less than 1,000 meter		75% Load 93.5 %						
Relative Humidity	Less than 80 %		100% Load 94.5 %						
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)						
Duty Type	Continuous (S1)		50% Load 0.690						
Service Factor	1.15		75% Load 0.790						
Mounting	B3		100% Load 0.840						
Bearing	Type	Anti-Friction	Speed at Full Load 1780 r.p.m						
	DE/N-DE	6313ZC3 / 6211ZC3	Torque						
	Lubricant	Grease(Polyrex-EM)	Full Load 146.44 lb.ft						
External Thrust	Not applicable		Locked-rotor** 170 %						
Coupling Method	☒ Direct ☐ V-belt		Breakdown** 220 %						
Shaft Extension	Single		Moment of Inertia (J)						
Terminal	Main	Cast Iron	Load(Max.) 278.234 lb.ft2						
Box	Aux.	No	Motor 8.307 lb.ft2						
	Location	Refer to Outline Drawing	Sound Pressure Level (No-load & mean value at 1m from motor)						
Application			77 dB(A)						
Area classification	Hazardous		Vibration 2.03 mm/sec (peak)						
Type of Ex-Protection	Class I&II, Division 2		Permissible number of Cold 3 times						
Applicable Standard	IEEE841, NEMA MG1, CSA C390		consecutive starts Hot 2 times						
			Paint	Munsell No.	7.5BG6/1.5				
ACCESSORIES			SUBMITTAL DRAWING						
			Outline Dimension Drawing \ Motor Weight(Approx.)						
			B3		LM-I1326B3PL001		560 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		
			2025-07-22	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.

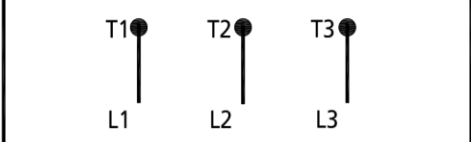
** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.

1	2	3	4
REV	DATE	CONTENTS	REVD BY
CHKD BY	CHKD BY	CHKD BY	APPD BY

MAIN NAMEPLATE
4.72

CROWN TRITON											
Premium Efficiency AC 3 Phase Motor		C US Energy Verified		CC038A							
50HP 4P 460V		Cat. No. IEEE50-18-326T									
Model HLS326SR238		INS. Class F HD-F1		Amps 58.5A							
Type HLS		Duty CONT		Code J		Amb. 40°C		Hertz 60Hz			
Frame 326T		Encl. TEFC		S.F. 1.15		RPM 1780		NEMA Norm. Eff. 94.5%			
Bearing		Drive 6313ZC3		S.F. 1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)		3/4 Eff. 93.5%					
		Opp. 6211ZC3				NEMA Design B Torque					
Usable at		50Hz 50HP 380V 80.8A 1475rpm S.F.: 1.0 Eff.: 93.0% Code: J									
		50Hz 50HP 400/415V 77.8/76.2A 1480/1480rpm S.F.: 1.0 Eff.: 93.0/93.0% Code: K/K									
CSA Model LATER		Type PJP		Temp. Code		Frame 140~320FR 360~400FR 440FR					
Certified for CLASS I, Div. 2, Gr. A, B, C & D		CLASS II, Div. 2, Gr. E, F & G (Gr. E: Up to 320FR)		(sine wave)		Amb. 40°C T3C (160°C) T3B (165°C) T3A (180°C)					
						Amb. 55°C T3A (180°C) T3A (180°C) T3 (200°C)					
No. -		Date -		Weight 560 lb							
IEEE Std 841-2021		MARINE DUTY IEEE45		HD HYUNDAI ELECTRIC							
4M-135701		Made in Korea H1									

WIRING DIAGRAM

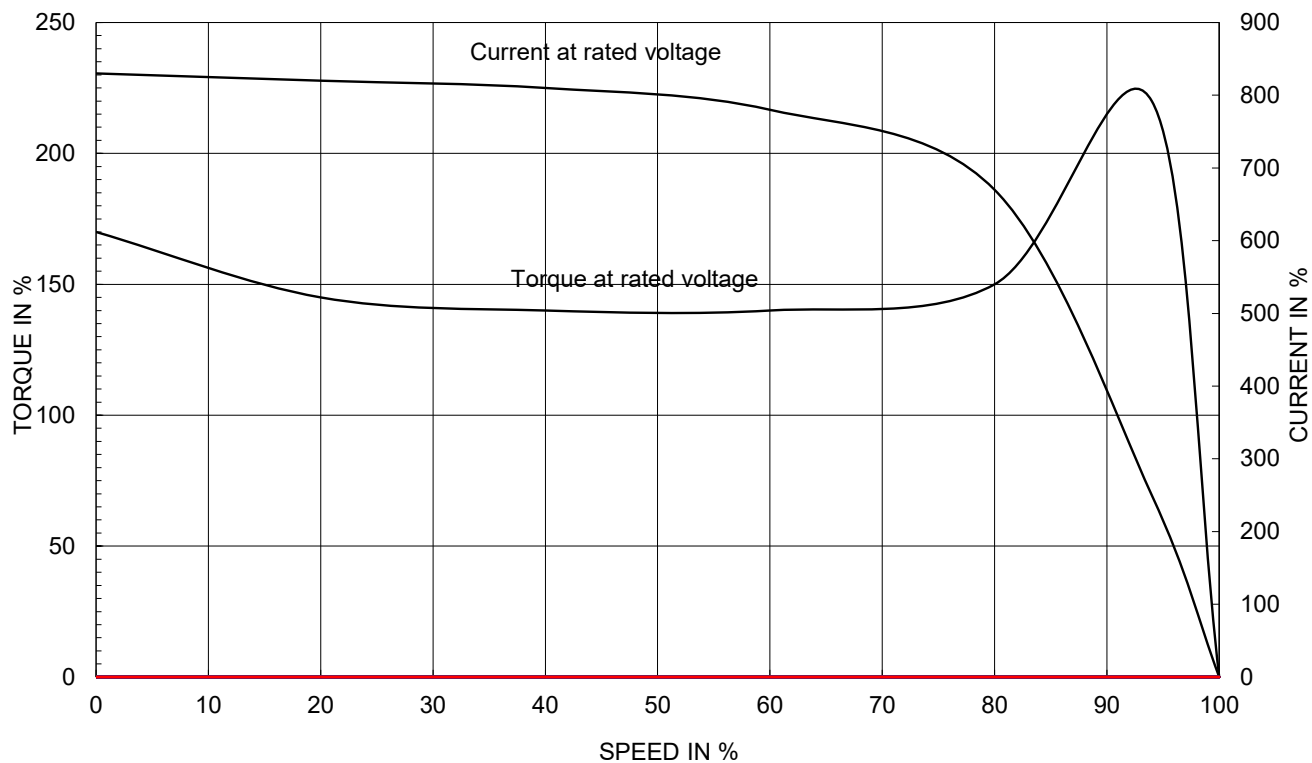
D.O.L (INVERTER & SOFT STARTER)	WYE-DELTA (Y-D)
WARNING IMPROPER INSTALLATION, CONNECTION, OPERATION, GROUNDING OF THIS MOTOR MAY CAUSE SERIOUS INJURY TO PERSONNEL OR MOTOR FAILURE. READ INSTRUCTIONS CAREFULLY. GROUNDING SHOULD BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL SOUND 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	SUBJECT	CSA Class I, Division2 IEEE841 (HL, 254-449)	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-135701 / 4M-128796	Sheet No. of
				DWG NO	NP-IEEE50-18-326T	Revision No. 0

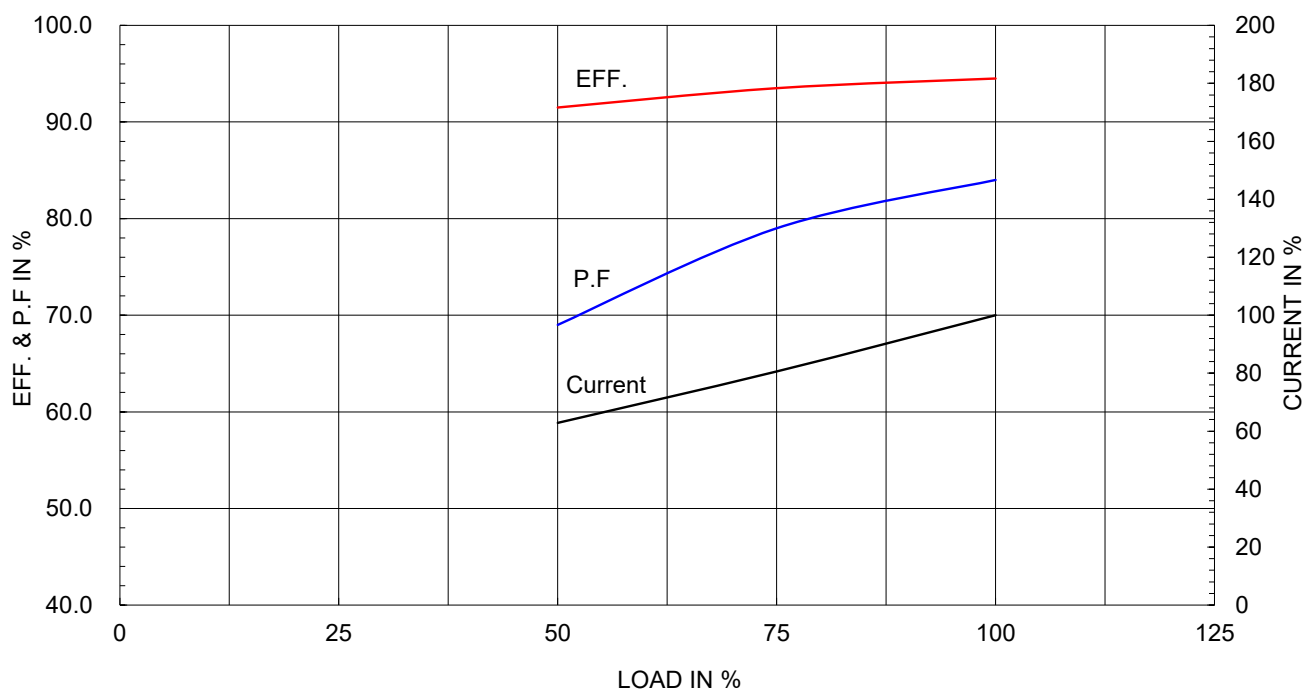
Type :	PJP	
Full Load Torque :	146.44	lb.ft
Load moment of Inertia (J) :	278.234	lb.ft2
Motor moment of Inertia (J) :	8.307	lb.ft2

37kW	50HP	4 P	60 Hz
Speed at Full Load :			1780 RPM
Rated Voltage	575V	460V	230V
Full Load Current	46.8A	58.5A	117.0A

SPEED VS TORQUE & CURRENT CURVE

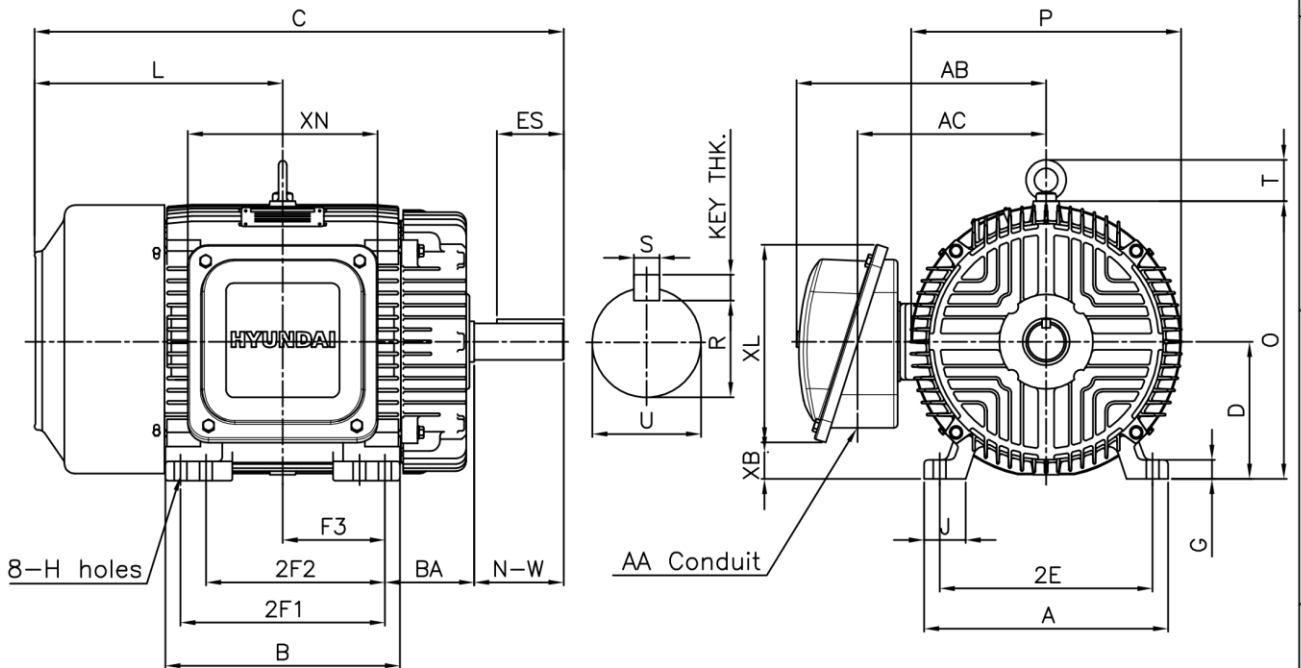


OUTPUT VS EFF., P.F & CURRENT CURVE



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

IEEE841



DIMENSIONS

Unit : inch

MOUNTING									CONDUIT BOX						APPROX. WGT.(LB)	
A	B	2E	2F1 ⁵⁾	2F2 ⁴⁾	F3	G	J	H	AA	AB	AC	XB	XL	XN	324T	326T
14.33	13.78	12.50	12.00	10.50	6.00	1.11	2.36	0.66	2.00	16.31	11.41	2.13	11.38	11.14	550	560

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			
5.25	31.46	8.00	15.96	16.19	15.84	2.41	2.125	5.25	1.845	3.91	0.500	0.500	6313ZC3	6211ZC3

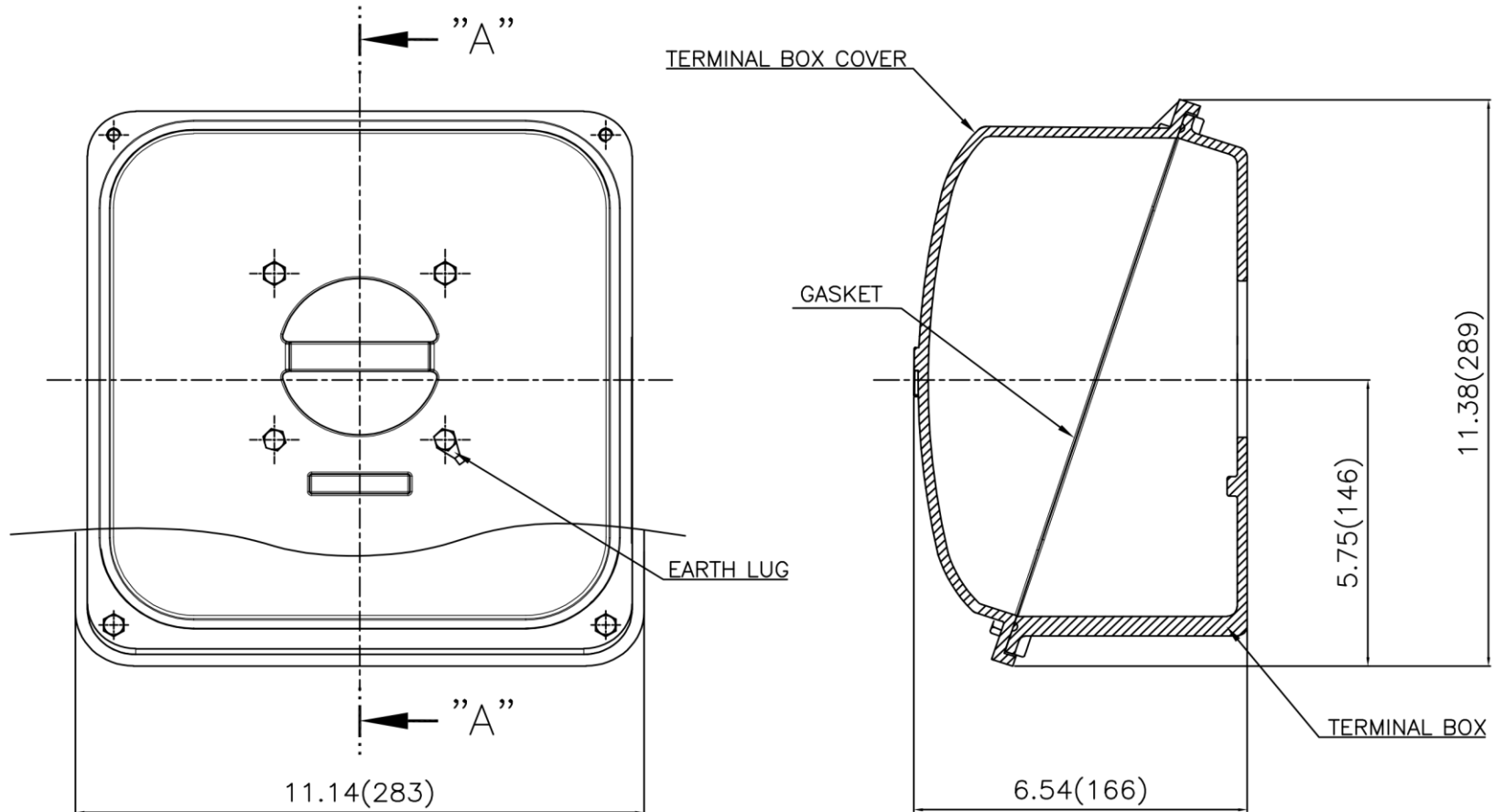
NOTE

- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.001inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch
- 4.Location of holes for 324T frame
- 5.Location of holes for 326T frame

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	NEMA 324T/326T	DWG SIZE
CHKD BY	R.G.KIM	SCALE	NONE	TITLE		A4 (1:1)
CHKD BY	Y.H.BAE	PROJEC'N	3각법 (3rd Angle)			
DSND BY	H.K.LEE	DATE	2021-04-30			
				REF. NO	350A8112AA	Sheet No. of
				DWG NO	LM-I1326B3PL001	Revision No. 0

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. 320 (CAST IRON)	DWG SIZE	A3 (1:2.5)
CHKD BY		SCALE	1/2.5	TITLE	TERMINAL BOX ASS'Y		
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	REF. NO		Sheet No.	of
DSND BY	네슬의	DATE	2023-10-19	DWG NO	3M-248459	Revision No.	0