

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

Catalog No.	HHI50-12-365T	Item No.				Rev. No.	[]		
Project Name			Project No.			Quantity	sets		
GENERAL SPECIFICATION					PERFORMANCE DATA				
Frame Size	365T		Rated Output	37 kW		50 HP			
Type	PJP		Number of Poles	6					
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	48.1 A	60.2 A	120.4 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						
Motor Location	☐ Indoor ☐ Outdoor		50% Load		91.1 %				
Altitude	Less than 1,000 meter		75% Load		93.1 %				
Relative Humidity	Less than 80 %		100% Load		94.1 %				
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	B3		100% Load		0.820				
Bearing	Type	Anti-Friction	Speed at Full Load		1185 r.p.m				
	DE/N-DE	6314C3 / 6213C3	Torque						
	Lubricant	Grease(Polyrex-EM)	Full Load		219.97 lb.ft				
External Thrust	Not applicable		Locked-rotor**		150 %				
Coupling Method	☒ Direct ☐ V-belt		Breakdown**		220 %				
Shaft Extension	Single		Moment of Inertia (J)						
Terminal	Main	Cast Iron	Load(Max.)		1,500.593 lb.ft2				
Box	Aux.	No	Motor		32.000 lb.ft2				
	Location	Refer to Outline Drawing	Sound Pressure Level (No-load & mean value at 1m from motor)						
Application			73 dB(A)						
Area classification	Hazardous		Vibration		3.8 mm/sec (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.)						
			B3	LM-T1365B3PL001	820 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 : T3B(165°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.

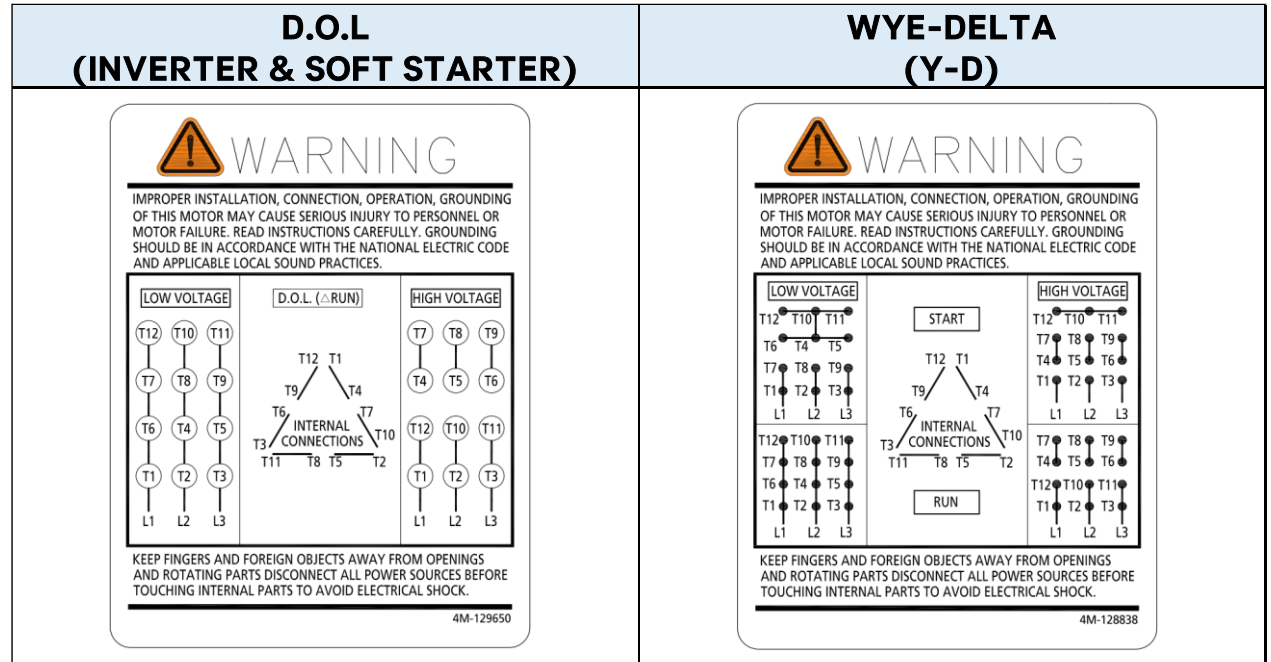
MAIN NAMEPLATE

4.72

2.36

CROWN TRITON											
Premium Efficiency AC 3 Phase Motor		C Energy Verified		US		CC038A					
50HP	6P	230/460V	Cat. No.	HHI50-12-365T							
Model	HLS365SR06U3		INS. Class	F	HD-F1	Amps	120.4/60.2A				
Type	HLS	Duty	CONT	Code	H	Amb.	40°C	Hertz	60Hz		
Frame	365T	Encl.	TEFC	S.F.	1.15	RPM	1185	NEMA Nom. Eff.	94.1%		
Bearing	Drive	6314C3	S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)				3/4 Eff.	93.1%			
	Opp.	6213C3					NEMA Design	B Torque			
Usable at	50Hz 50HP 380V 72.5A 981rpm S.F.: 1.0 Eff.: 92.9% Code: F										
	50Hz 50HP 400/415V 69.6/68.1A 983/984rpm S.F.: 1.0 Eff.: 93.2/93.4% Code: G/H										
CSA Certified for	Model	LATER	Type	PJP	Temp. Code	Frame	140~320FR	360~400FR	440FR		
	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)	T3B (165°C)	T3A (180°C)			
	CLASS I, Zone 2, Gr. IIA, IIB, & IIC				Amb. 55°C	T3A (180°C)	T3A (180°C)	T3 (200°C)			
No.	-	Date	-	Weight		820 lb					
4M-135702		Made in Korea H1									
MARINE DUTY IEEE45											

WIRING DIAGRAM

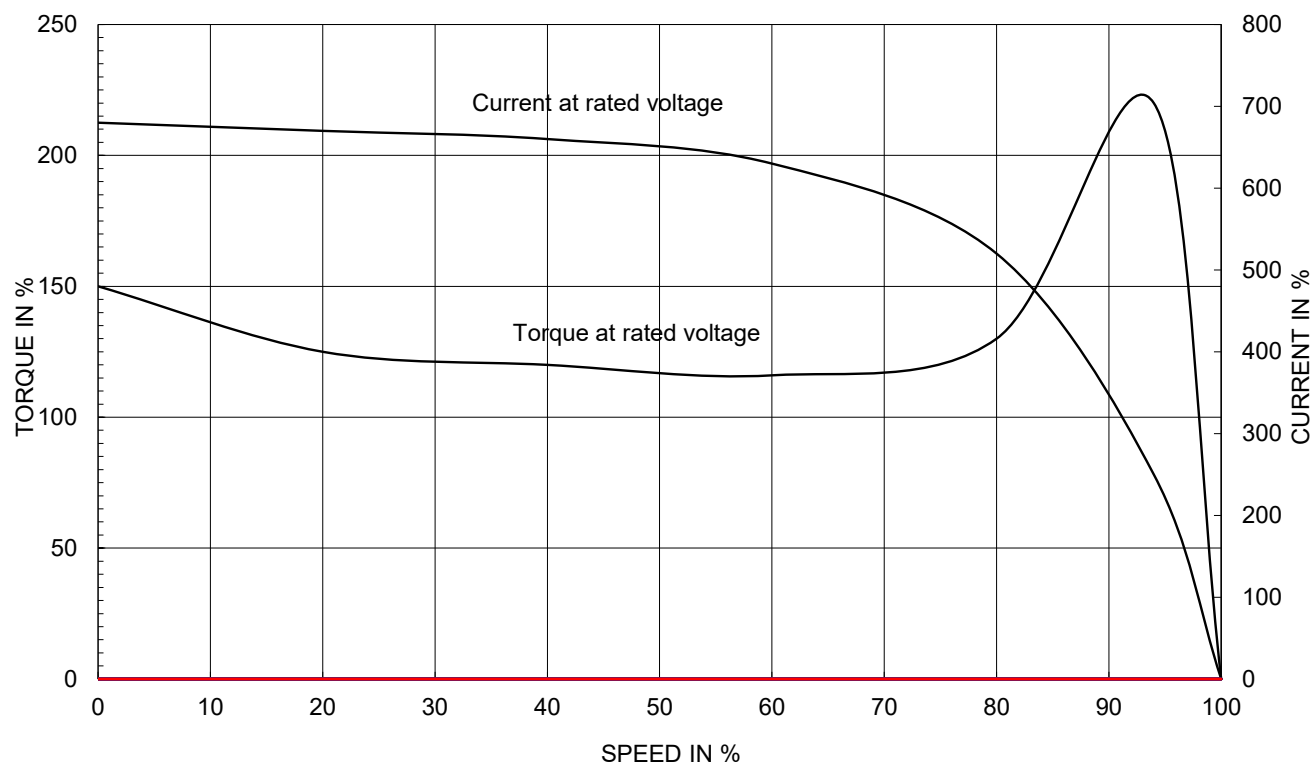


APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (HHI, 364-449)	DWG SIZE	A4 (1:1)
CHKD BY	I.K.KIM	SCALE	NONE	NAMEPLATE DRAWING			
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle				
DSND BY	S.H.LEE	DATE	2024.06.07				
				REF. NO	4M-135702 / 4M-129650	Sheet No.	of
				DWG NO	NP-HHI50-12-365T	Revision No.	0

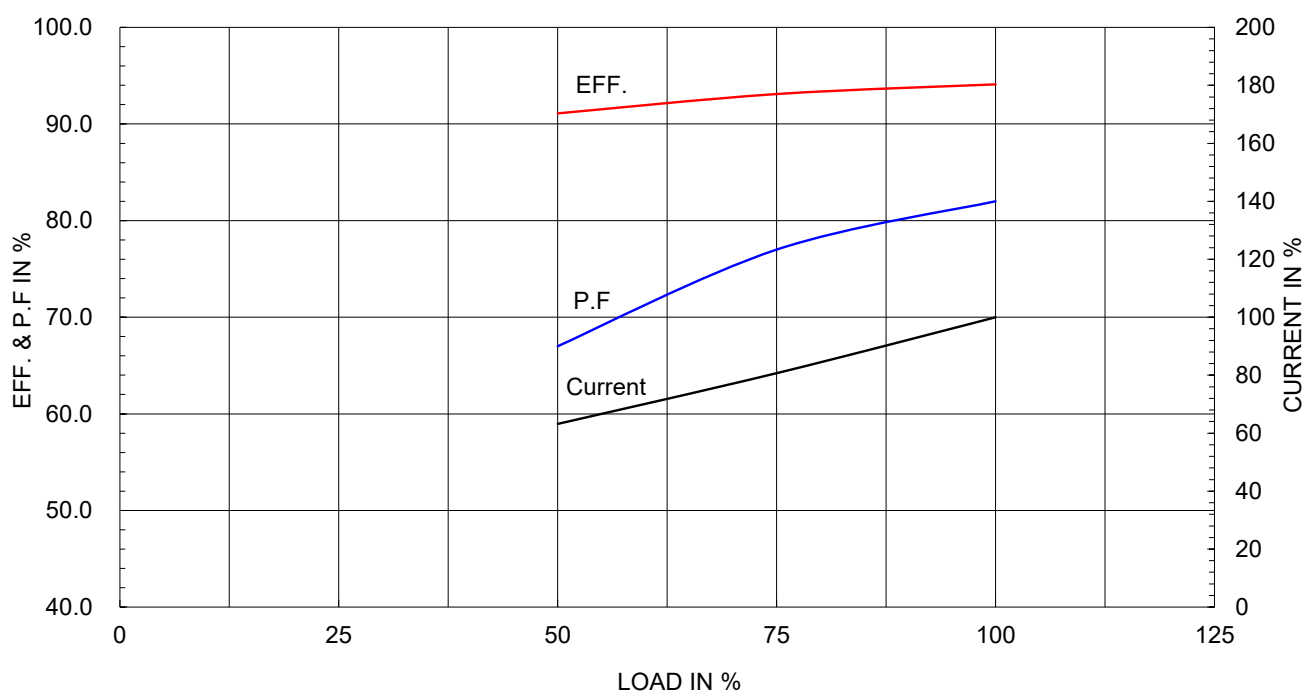
Type :	PJP	
Full Load Torque :	219.97	lb.ft
Load moment of Inertia (J) :	1500.593	lb.ft2
Motor moment of Inertia (J) :	32.000	lb.ft2

37kW	50HP	6 P	60 Hz
Speed at Full Load :		1185 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	48.1A	60.2A	120.4A

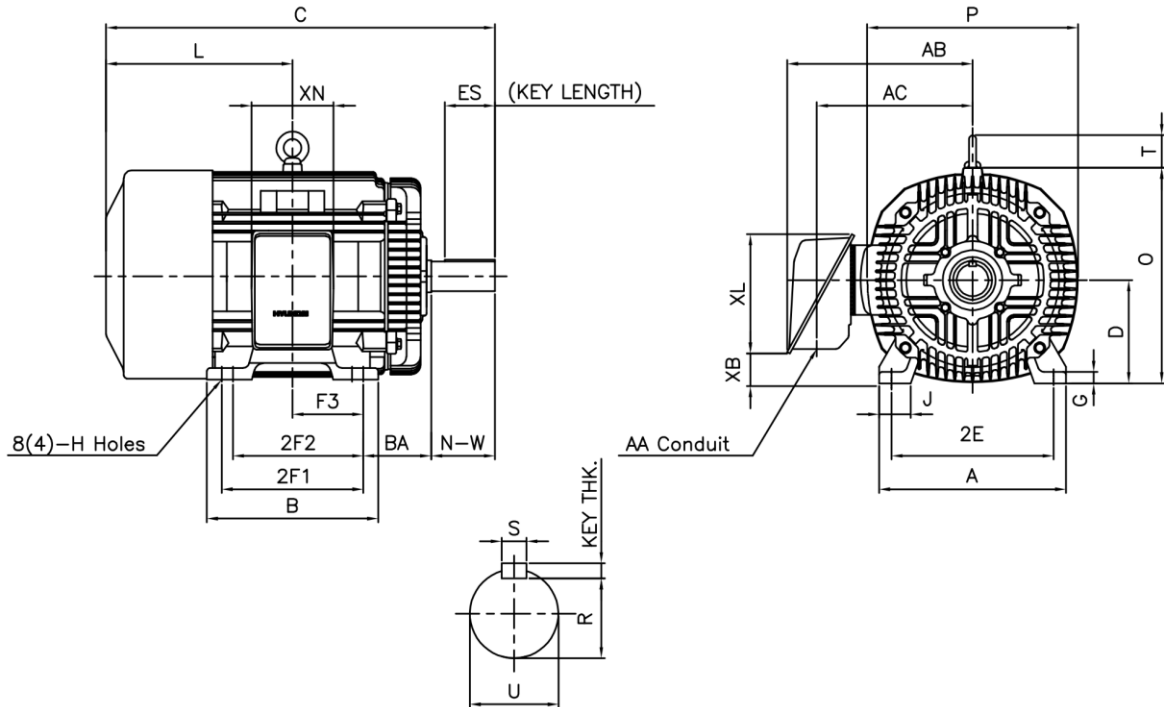
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



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



DIMENSIONS

unit : inch

M O U N T I N G									C O N D U I T B O X						APPROX. WGT.(LB)
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
16.14	14.92	14.00	12.25	(11.25)	6.122	0.98	2.72	0.66	3.00	17.13	13.82	2.70	10.24	7.09	820

O V E R A L L									S H A F T			KEY	B E A R I N G	
BA	C	D	L	O	P	T	U	N-W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
									R	ES	S			
5.88	34.01	9.00	16.13	18.50	18.23	2.80	2.375	5.88	2.021	4.28	0.625	0.625	6314C3	6213C3

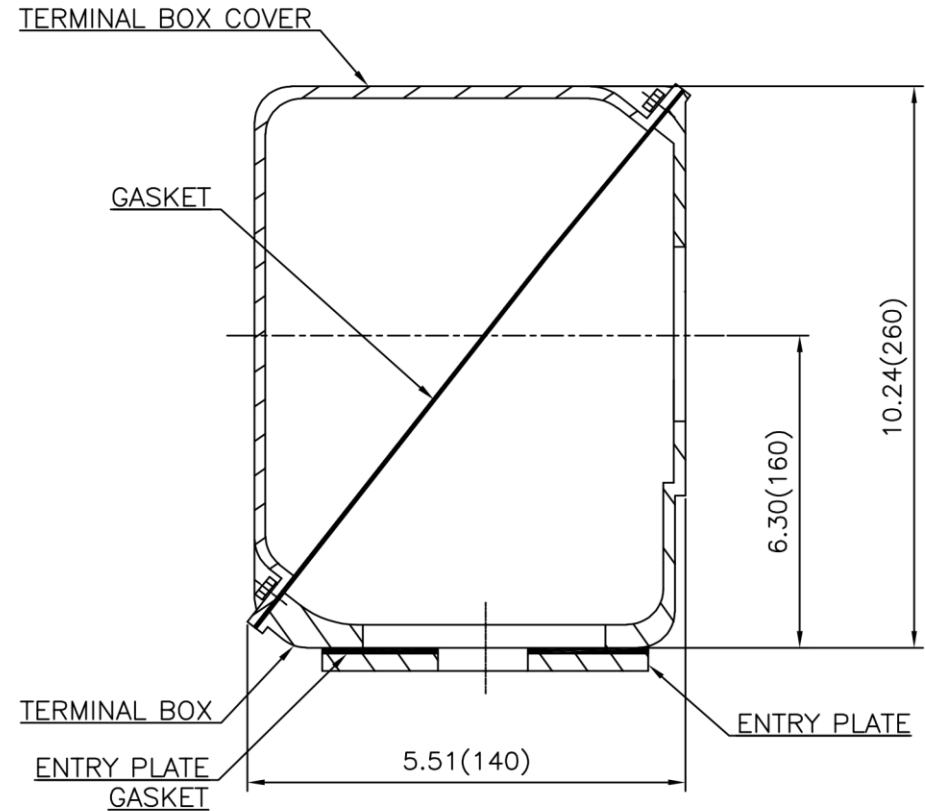
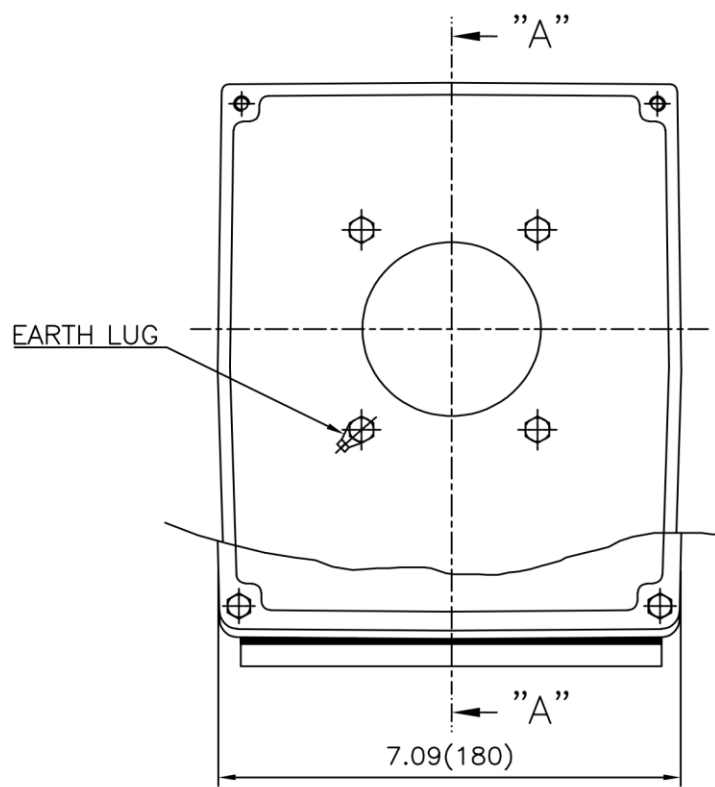
NOTE

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.K.HAN	UNIT	INCH	SUBJECT	365T	DWG SIZE
Q.P CHK	I.K.KIM	SCALE	NONE	TITLE		A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle			
DSND BY	B.Y.KIM	DATE	2019.06.05			
				REF. NO	350A1114AA	Sheet No. of
				DWG NO	LM-T1365B3PL001	Revision No. 0

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
1						
2						
3						
4						

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.360 (CAST IRON)	DWG SIZE	
CHKD BY		SCALE	1/1.2	TITLE	MAIN 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-248450	Revision No.	0

