

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.	HHI60-36-364TSC	Item No.			Rev. No.	[]	
Project Name		Project No.			Quantity	sets	
GENERAL SPECIFICATION				PERFORMANCE DATA			
Frame Size	364TSC		Rated Output	45 kW		60 HP	
Type	PJP		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	52.5 A	65.6 A	131.2 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 91.1 %				
Motor Location	☐ Indoor ☐ Outdoor		75% Load 93.1 %				
Altitude	Less than 1,000 meter		100% Load 94.1 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.765				
Duty Type	Continuous (S1)		75% Load 0.865				
Service Factor	1.15		100% Load 0.915				
Mounting	B35		Speed at Full Load		3570 r.p.m		
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6213C3 / 6213C3	Full Load 88.80 lb.ft				
	Lubricant	Grease(Polyrex-EM)	Locked-rotor** 140 %				
External Thrust	Not applicable		Breakdown** 220 %				
Coupling Method	☒ Direct ☐ V-belt		Moment of Inertia (J)				
Shaft Extension	Single		Load(Max.) 112.720 lb.ft2				
Terminal	Main	Cast Iron	Motor 9.280 lb.ft2				
Box	Aux.	No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	82 dB(A)				
Application			Vibration		3.8 mm/sec (peak)		
Area classification	Hazardous		Permissible number of consecutive starts		Cold 3 times		
Type of Ex-Protection	Class I&II, Division 2				Hot 2 times		
Applicable Standard	NEMA MG1, CSA C390		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B35		LM-T1364C4CL001	825 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.

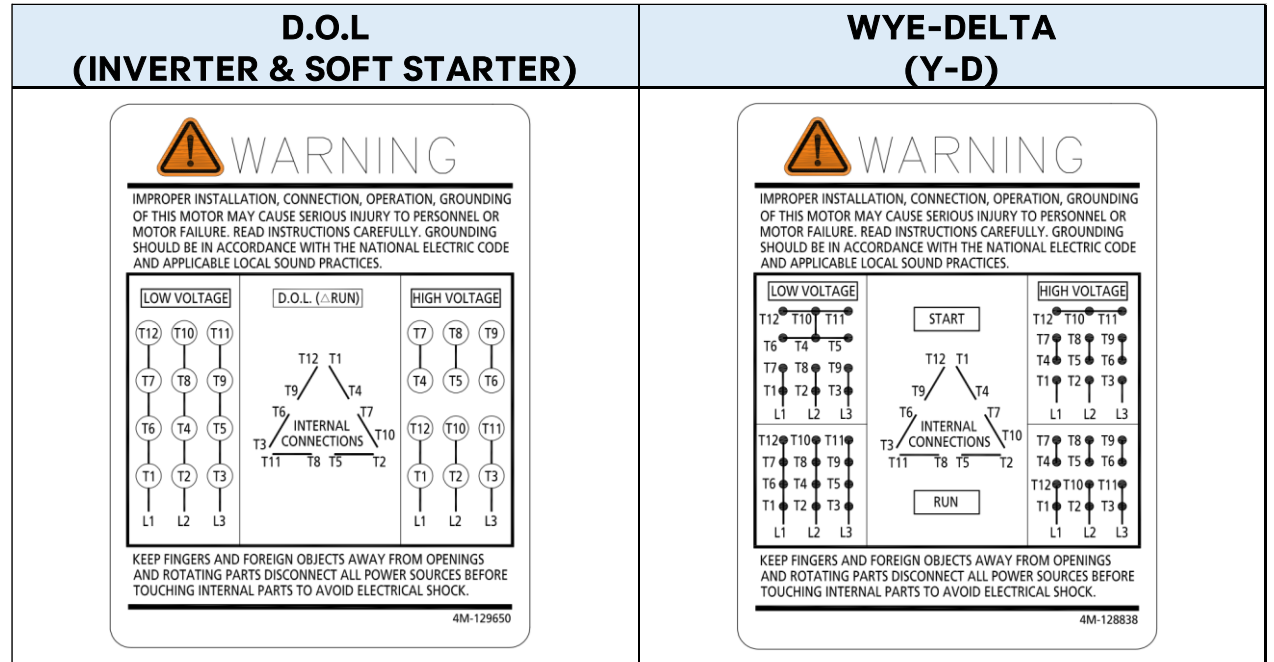
MAIN NAMEPLATE

4.72

2.36

CROWN TRITON			
Premium Efficiency AC 3 Phase Motor		C Energy Verified	
60HP 2P 230/460V	Cat. No. HHI60-36-364TSC		
Model HLS364PR02U3	INS. Class F HD-F1	Amps	131.2/65.6A
Type HLS	Duty CONT	Code G	Amb. 40°C
Frame 364TSC	Encl. TEFC	S.F. 1.15	RPM 3570
Bearing	Drive 6213C3	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
Usable at	50Hz 60HP 380V 80.3A 2957rpm S.F.: 1.0 Eff.: 93.2% Code: E		
	50Hz 60HP 400/415V 76.0/73.2A 2963/2967rpm S.F.: 1.0 Eff.: 93.6/93.8% Code: F/G		
CSA Certified for	Model LATER	Type PJP	Temp. Code (sine wave)
	CLASS I, Div. 2, Gr. A, B, C & D	CLASS II, Div. 2 Gr. E, F & G (Gr. E: Up to 320FR)	Frame 140~320FR 360~400FR 440FR
	CLASS I, Zone 2, Gr. IIA, IIB, & IIC		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	825 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-HHI60-36-364TSC	Revision No.	0

Type : PJP

Full Load Torque : 88.80 lb.ft

Load moment of Inertia (J) : 112.720 lb.ft2

Motor moment of Inertia (J) : 9.280 lb.ft2

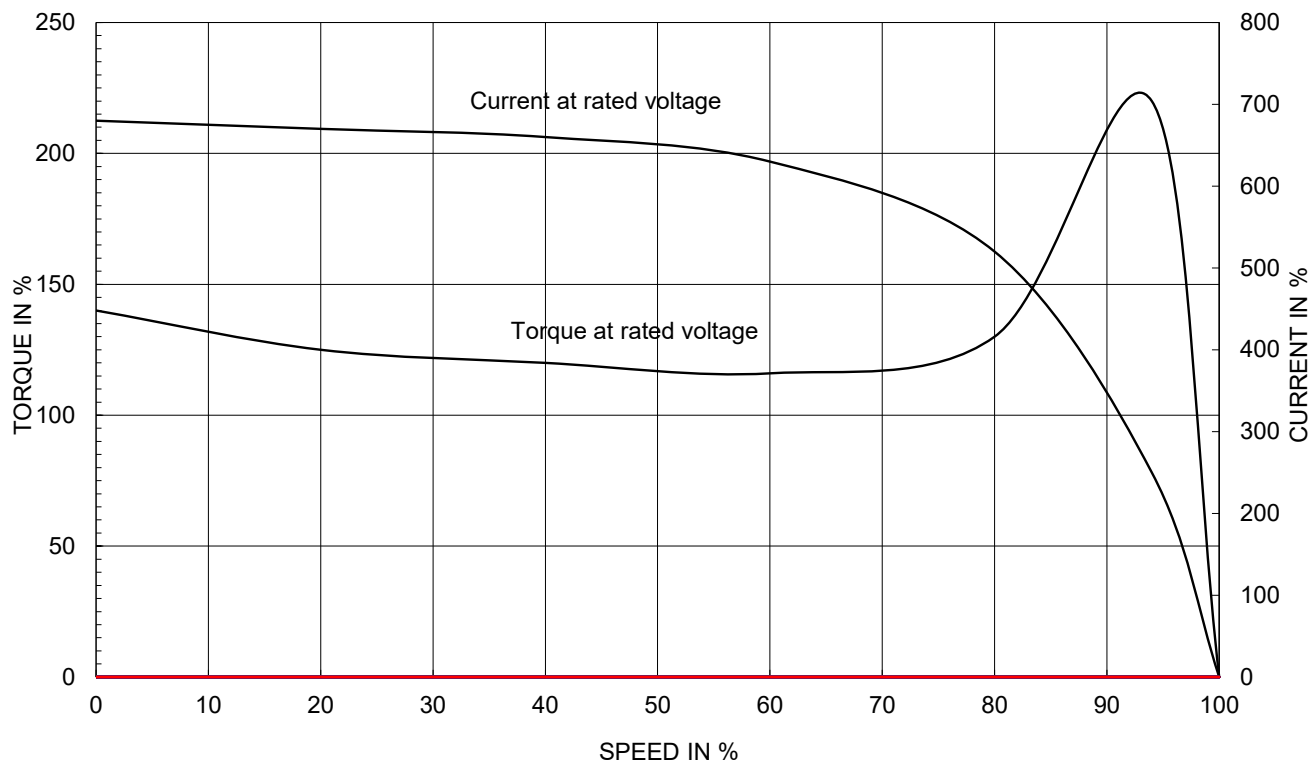
45kW 60HP 2 P 60 Hz

Speed at Full Load : 3570 RPM

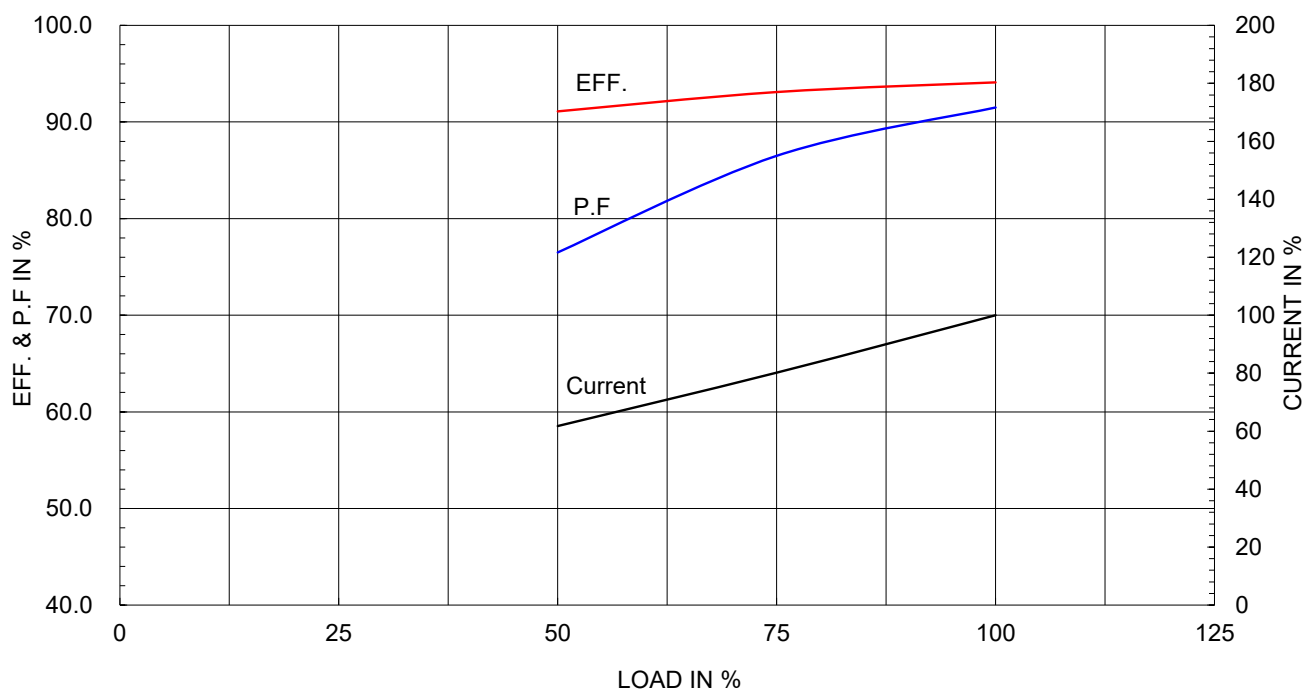
Rated Voltage	575V	460V	230V
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Full Load Current	52.5A	65.6A	131.2A
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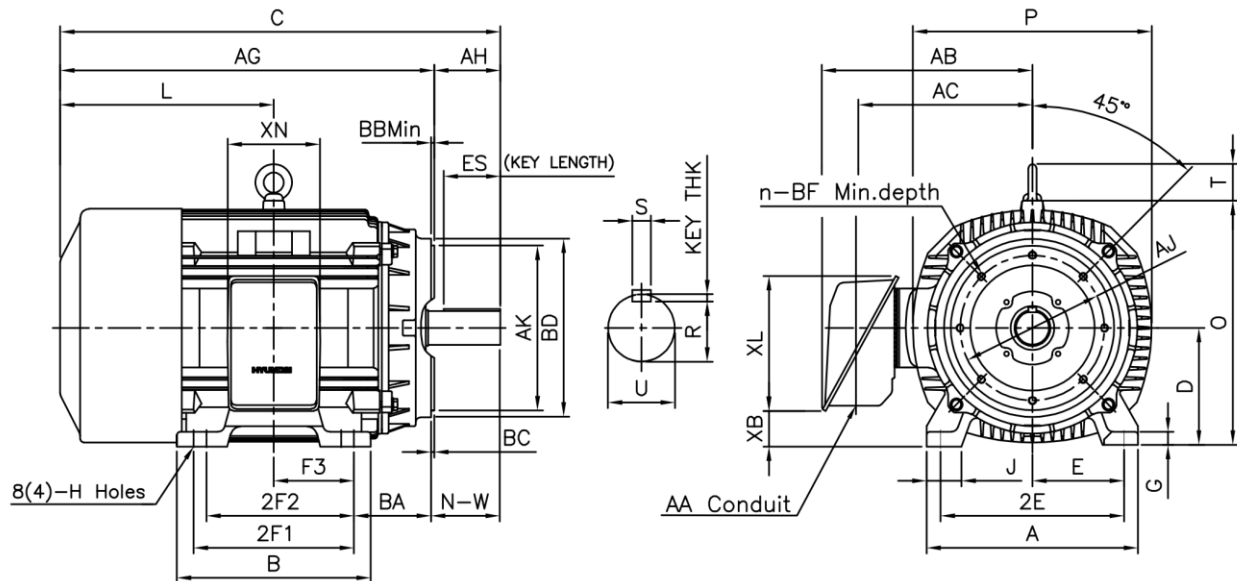
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



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



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	825

O V E R A L L								S H A F T				KEY	BEARING	
BA	C	D	L	O	P	T	AG	U	N-W	KEYWAY			THK.	DRIVE END
										R	ES	S		OPP. DRIVE END
5.88	31.88	9.00	16.13	18.50	17.75	2.80	28.13	1.875	3.75	1.591	2.03	0.500	0.500	6213C3

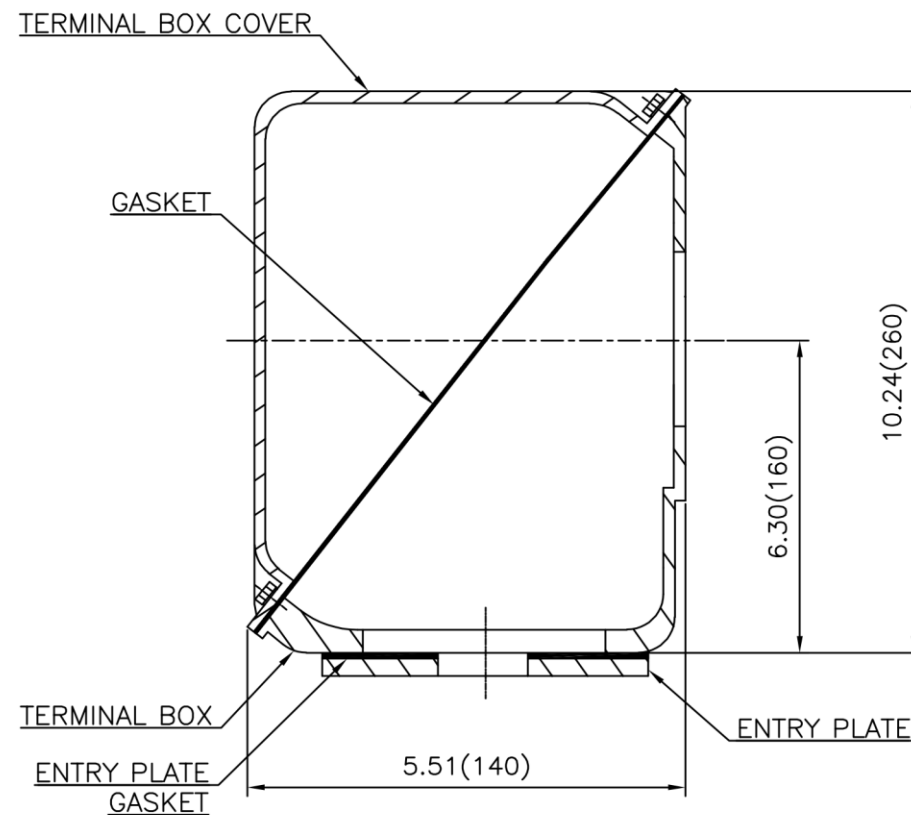
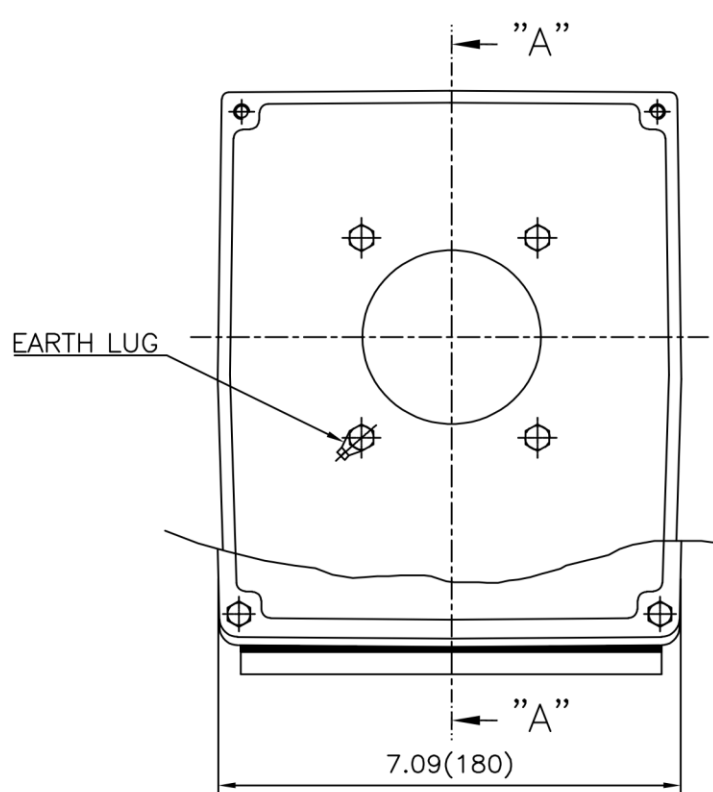
C - F A C E								
AJ	AK	BB Min	BC	BD	BF	BF depth	n	AH
11.00	12.50	0.25	0.25	13.54	5/8-11	0.94	8	3.50

NOTE

- 1.Dimension "D" tolerance : +0.00inch ~ -0.03inch (143TC-365TC) : +0.000inch ~ -0.06inch (404TC-449TC)
- 2.Dimension "U" tolerance : +0.000inch ~ -0.0005inch (143TC-215TC): +0.000inch ~ -0.001inch (254TC-449TC)
- 3.Dimension "R" tolerance : +0.000inch ~ - 0.015inch
- 4.Dimension "AK" tolerance : +0.000inch ~ -0.003inch (143TC-286TC): +0.000inch ~ -0.005inch (324TC-449TC)

APPD BY	S.K.HAN	UNIT	inch	SUBJECT	364TSC	DWG SIZE	A4 < 1:1 >
CHKD BY	S.Y.KIM	SCALE	None	TITLE			
CHKD BY	Y.H.BAE	PROJEC'N	3rd Angle				
DSND BY	H.C.LIM	DATE	2019-06-05	OUTLINE			
				REF. NO	350A1313BA	Sheet No.	of
				DWG NO	LM-T1364C4CL001	Revision No.	0

Cls. I&II, Div. 2
IEEE 841



SEC. "A" - "A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

							일반기공공사		일반재관공사	
							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
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY	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					A3 (1:1.2)
CHKD BY	R.G.KIM		PROJEC'N	3rd Angle	TITLE MAIN TERMINAL BOX ASS'Y				
DSND BY	네슬의		DATE	2023-10-19					
 HD HYUNDAI ELECTRIC					REF. NO	Sheet No.			of
					DWG NO	3M-248450			Revision No.