

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.	HHI75-18-365T	Item No.				Rev. No.	[]		
Project Name			Project No.			Quantity	sets		
GENERAL SPECIFICATION					PERFORMANCE DATA				
Frame Size	365T		Rated Output	55 kW		75 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	68.1 A	85.1 A	170.3 A		
Insulation Class	F			Locked-rotor**	690 %	690 %	690 %		
Temp. Rise at full load (by resistance method)			Efficiency						
	at 1.0 S.F	80 deg. C							
Motor Location	☐ Indoor ☐ Outdoor		50% Load 92.4 %						
Altitude	Less than 1,000 meter		75% Load 94.4 %						
Relative Humidity	Less than 80 %		100% Load 95.4 %						
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)						
Duty Type	Continuous (S1)		50% Load 0.700						
Service Factor	1.15		75% Load 0.800						
Mounting	B3		100% Load 0.850						
Bearing	Type	Anti-Friction	Speed at Full Load 1780 r.p.m						
	DE/N-DE	6314C3 / 6213C3	Torque						
	Lubricant	Grease(Polyrex-EM)	Full Load 217.68 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.) 654.961 lb.ft2						
Box	Aux.	No	Motor 20.900 lb.ft2						
	Location	Refer to Outline Drawing	Sound Pressure Level (No-load & mean value at 1m from motor)						
Application			82 dB(A)						
Area classification	Hazardous		Vibration 3.8 mm/sec (peak)						
Type of Ex-Protection	Class I&II, Division 2		Permissible number of Cold 3 times						
Applicable Standard	NEMA MG1, CSA C390		consecutive starts 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.

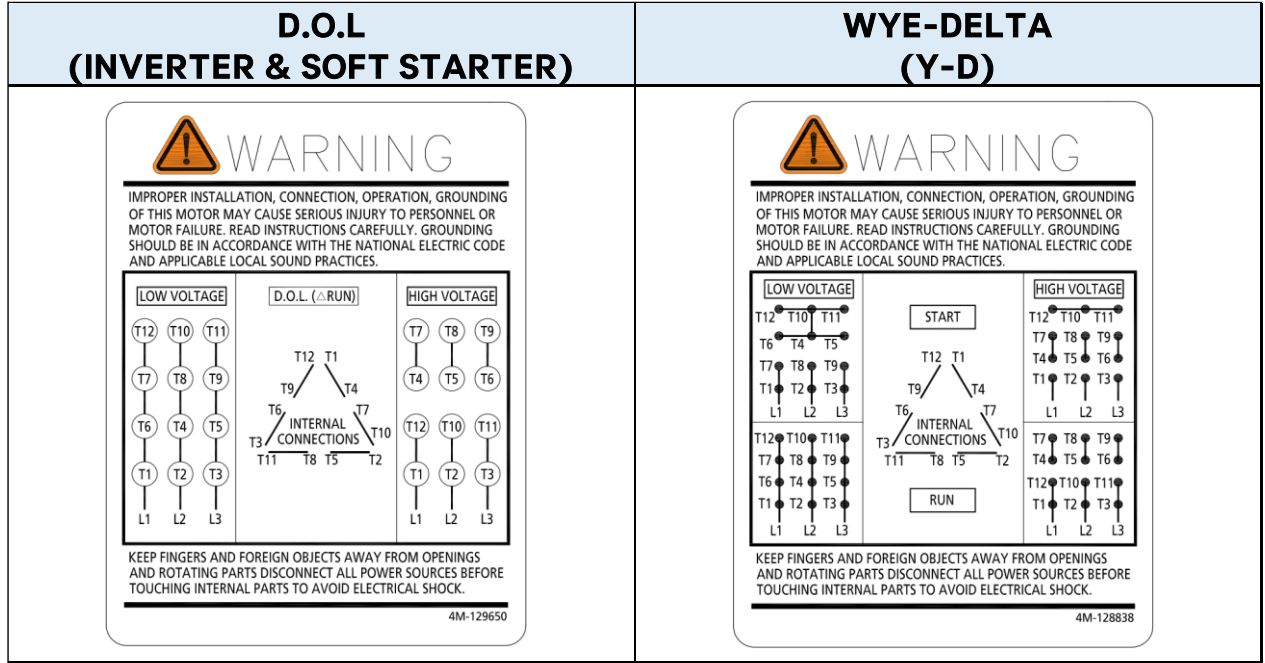
** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.

MAIN NAMEPLATE

4.72

CROWN TRITON											
Premium Efficiency AC 3 Phase Motor										C Energy Verified	
75HP 4P 230/460V				Cat. No. HHI75-18-365T							
Model HLS365SR04U3		Duty CONT		INS. Class F		HD-F1		Amps 170.3/85.1A			
Type HLS		Encl. TEFC		Code G		Amb. 40°C		Hertz 60Hz			
Frame 365T		S.F. 1.15		RPM 1780		NEMA Nom. Eff. 95.4%		3/4 Eff. 94.4%			
Bearing		Drive 6314C3		Opp. 6213C3		S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31)		NEMA Design B			
Usable at		50Hz 75HP 380V 102.3A 1475rpm S.F.: 1.0 Eff.: 94.5% Code: E									
		50Hz 75HP 400/415V 98.3/96.0A 1478/1479rpm S.F.: 1.0 Eff.: 94.8/94.9% Code: F/G									
CSA Certified for		Model LATER		Type PJP		Temp. Code (sine wave)		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)		T3 (200°C)	
No. -		Date -		Weight 820 lb							
4M-135702		MARINE DUTY IEEE45		Made in Korea H1							

WIRING DIAGRAM

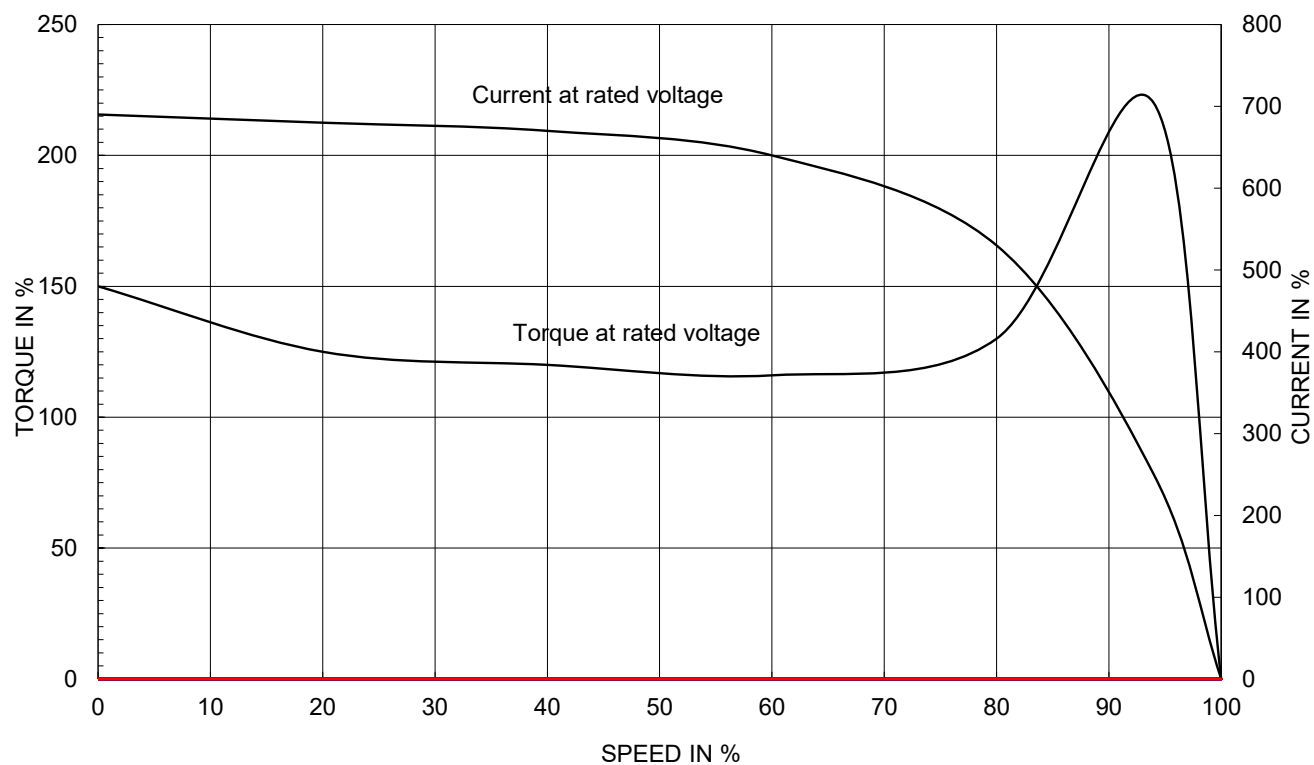


APPD BY S.Y.KIM	UNIT INCH	SUBJECT CSA Class I, Division2 Severe Duty (HHI, 364-449)	DWG SIZE A4 (1:1)
CHKD BY I.K.KIM	SCALE NONE	TITLE NAMEPLATE DRAWING	
CHKD BY R.G.KIM	PROJEC'N 3rd Angle		
DSND BY S.H.LEE	DATE 2024.06.07		
		REF. NO 4M-135702 / 4M-129650	Sheet No. of
		DWG NO NP-HHI75-18-365T	Revision No. 0

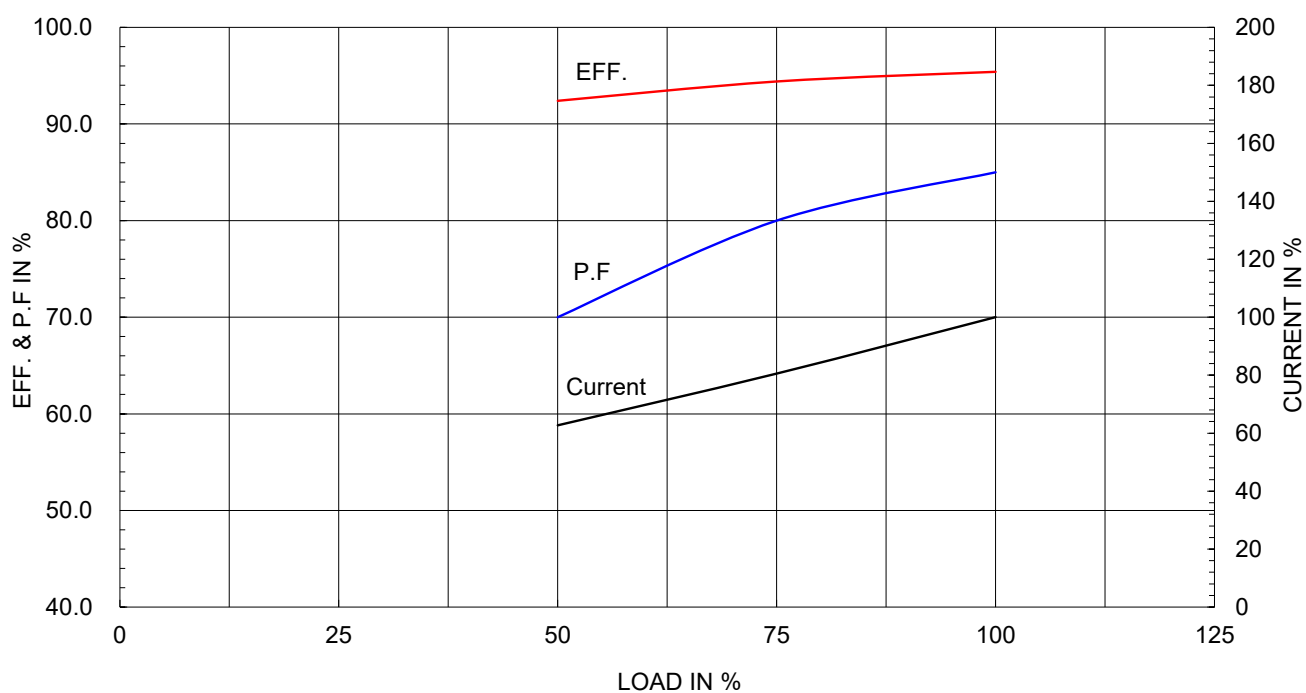
Type :	PJP	
Full Load Torque :	217.68	lb.ft
Load moment of Inertia (J) :	654.961	lb.ft2
Motor moment of Inertia (J) :	20.900	lb.ft2

55kW	75HP	4 P	60 Hz
Speed at Full Load :			1780 RPM
Rated Voltage	575V	460V	230V
Full Load Current	68.1A	85.1A	170.3A

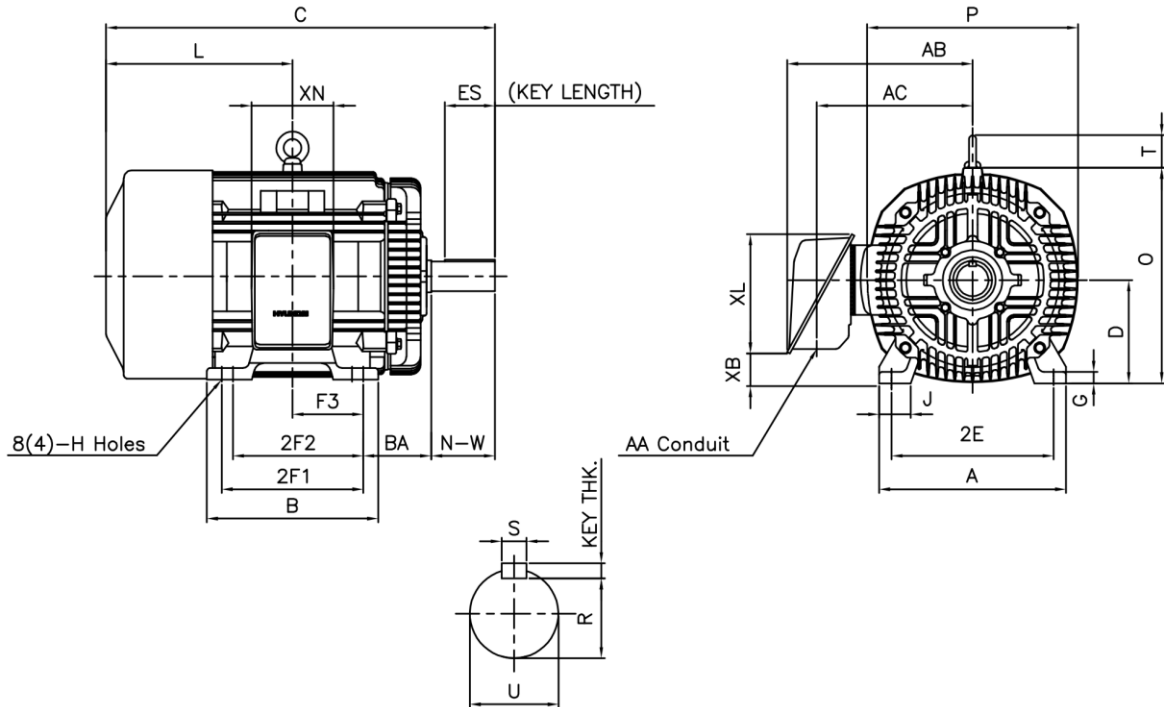
SPEED VS TORQUE & CURRENT CURVE



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

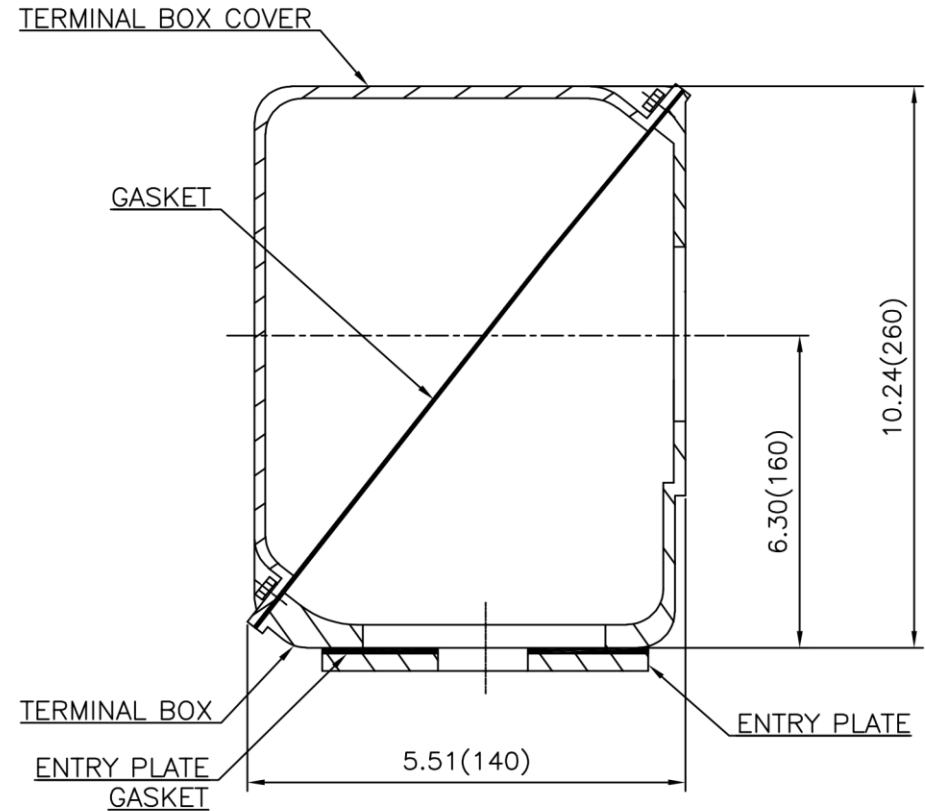
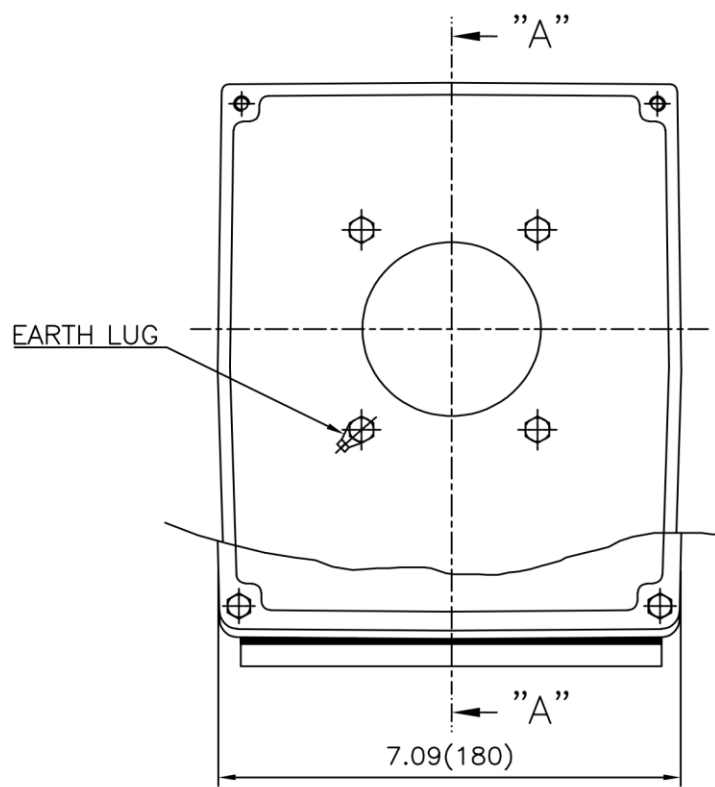
NOTE

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						

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

