

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

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# SPECIFICATION for INDUCTION MOTOR



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

# AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No. [      ]			
Project Name		Project No.		Quantity      sets			
<b>GENERAL SPECIFICATION</b>			<b>PERFORMANCE DATA</b>				
Frame Size	132S		Rated Output	7.5 kW      10.0 HP			
Type	HLP-7.5/2		Number of Poles	2			
Enclosure(Protection)	Totally Enclosed / IP55		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V			
Number of Phases	3		Current	Full Load	12.5 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	860 %			
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F      80 deg. C							
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor						
Altitude	Less than 1000 meter		100% Load      90.2 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)						
Duty Type	Continuous (S1)		100% Load      0.870				
Service Factor	1.15		Speed at Full Load      3525 r.p.m				
Mounting	B3		Torque				
Bearing	Type	Anti-Friction					
	DE/N-DE	6208ZZC3 / 6208ZZC3	Full Load	2.1 kg·m      20.3			
	Lubricant	Grease	Locked-rotor**	160 %      3.3 kg·m			
External Thrust	Not applicable		Breakdown**	260 %      5.4 kg·m			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.)      2.487 kg·m <sup>2</sup>				
Terminal	Main	<input checked="" type="checkbox"/> Aluminum <input type="checkbox"/> Cast Iron	Motor      0.019 kg·m <sup>2</sup>				
Box	Aux.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	73 dB(A)				
Application			Vibration      1.6 mm/sec (peak)				
Area classification	Non-Hazardous		Permissible number of				
Type of Ex-Protection	Not applicable		consecutive starts				
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)		Cold      12 times				
			Hot      10 times				
			Paint	Munsell No.	PHANTONE 279C		
<b>ACCESSORIES</b>			<b>SUBMITTAL DRAWING</b>				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3      LM-T0131B3PLV01      68 kg				
			<b>REMARK</b>				
			*. Premium efficiency(IE3) acc. to KS C 4202				
			*. SSEN Series				
			*. For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise				
<b>SPARE PARTS</b>			<div style="border: 2px solid red; padding: 10px; text-align: center; font-size: 2em; color: red;">FOR BIDDING</div>				
			Date	DSND	CHKD	CHKD	APPD
			2021-04-29				

Type : HLP-7.5/2

Full Load Torque : 2.1 kg.m

Load moment of Inertia (J) : - kg.m<sup>2</sup>

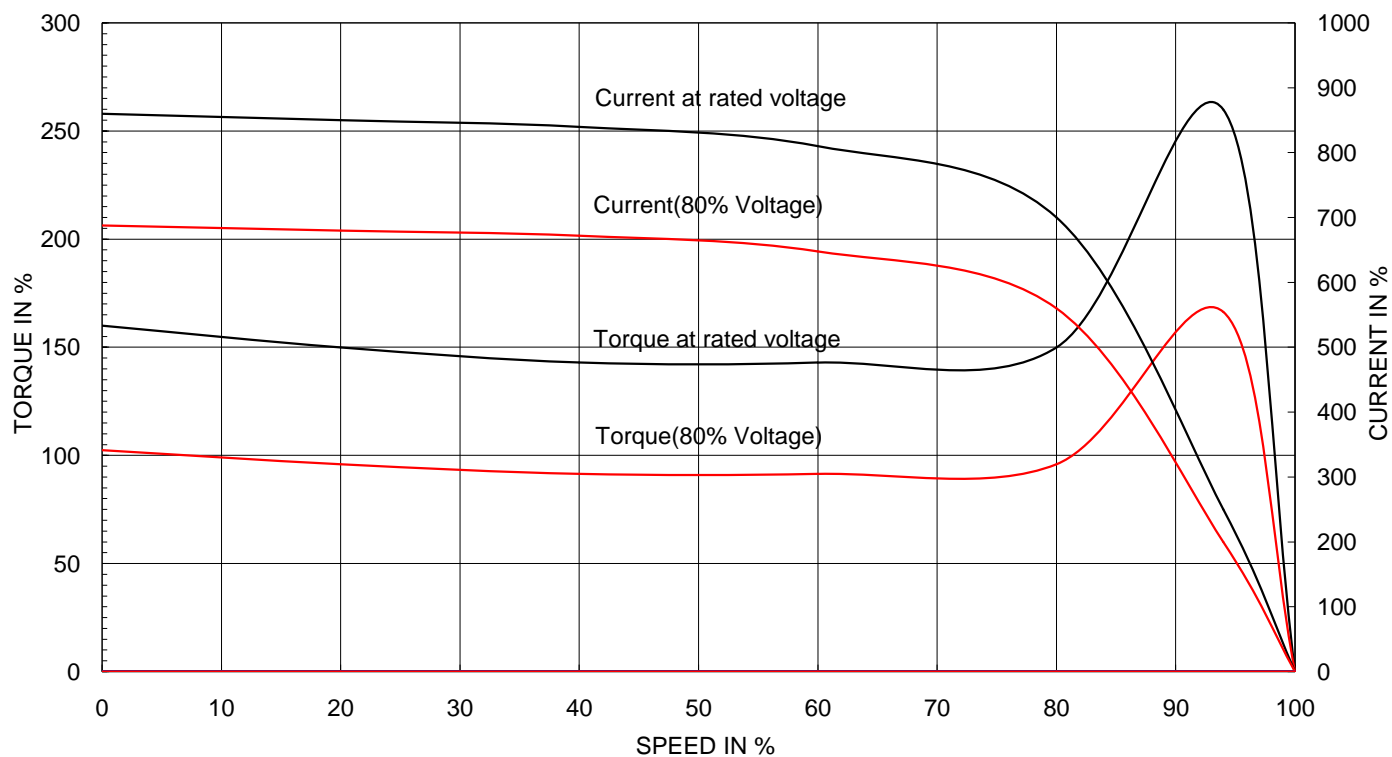
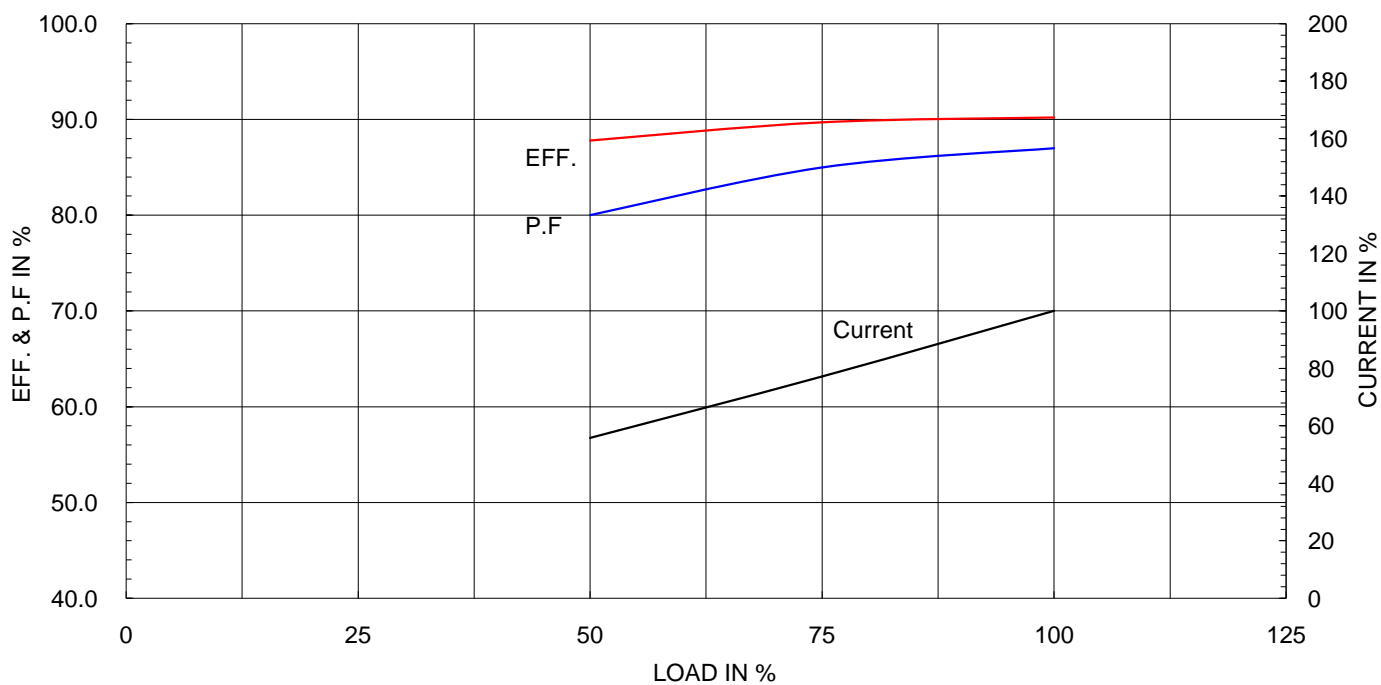
Motor moment of Inertia (J) : 0.019 kg.m<sup>2</sup>

7.5 kW 2 P 60 Hz

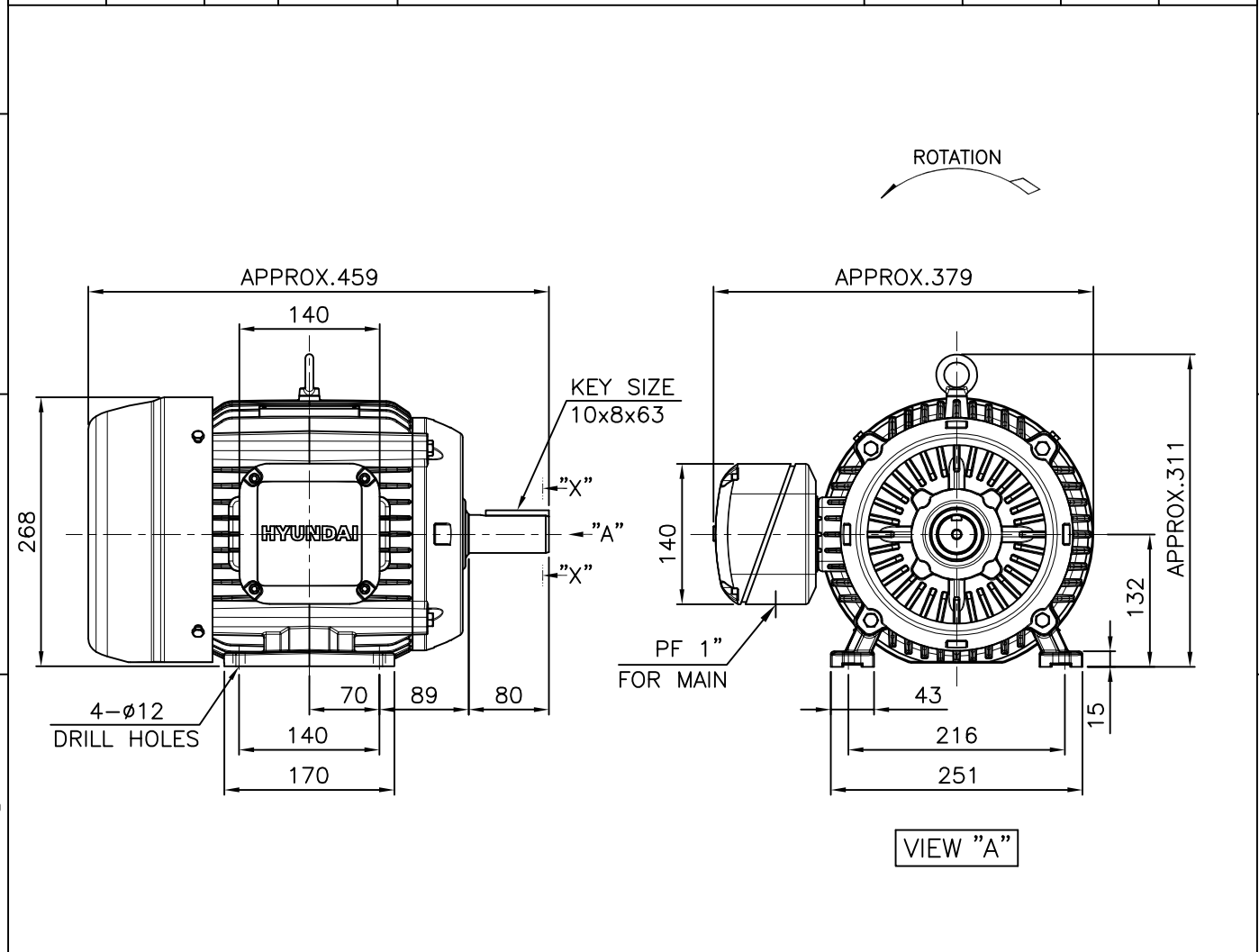
Speed at Full Load : 3525 RPM

Rated Voltage 440

Full Load Current 12.5A

**SPEED VS TORQUE & CURRENT CURVE**

**OUTPUT VS EFF., P.F & CURRENT CURVE**


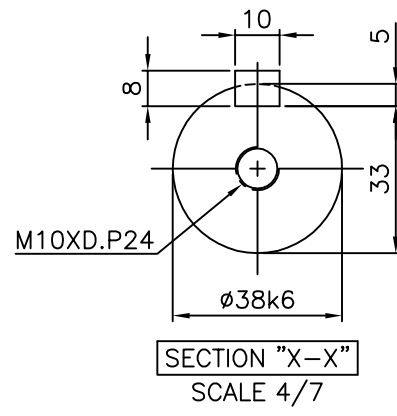
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



### NOTE

1.TOLERANCE :

CENTER HEIGHT	132	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	ø12	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	ø38	$\begin{smallmatrix} +0.018 \\ +0.002 \end{smallmatrix}$
KEYWAY WIDTH	10	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEYWAY DEPTH	5	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEY WIDTH	10	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEY HEIGHT	8	$\begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$



APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.132S	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/7			A4 ( 1:7 )
CHKD BY	I.K.KIM	PROJEC'N	3각법 (3rd Angle)	TITLE	OUTLINE	
DSND BY	S.H.LEE	DATE	2019.06.17			
				REF. NO		Sheet No. of
				DWG NO	LM-T1131B3PLV01	Revision No. 0

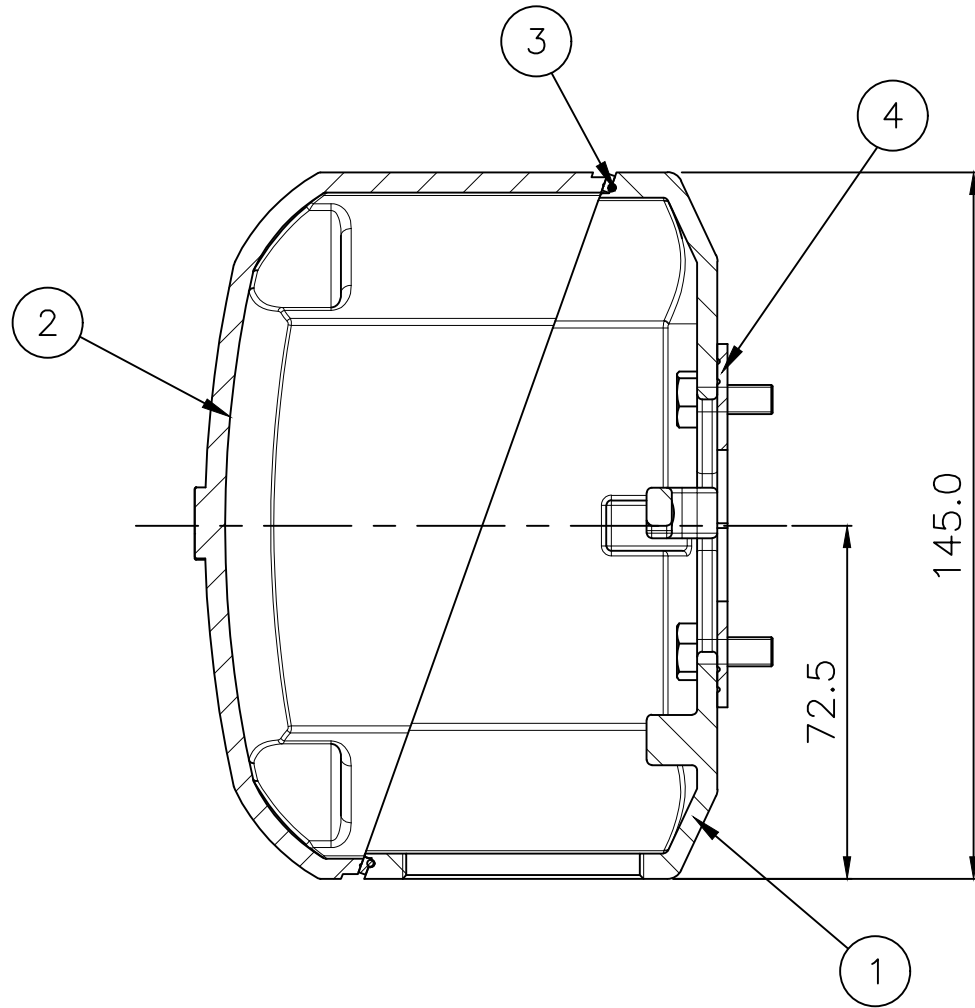
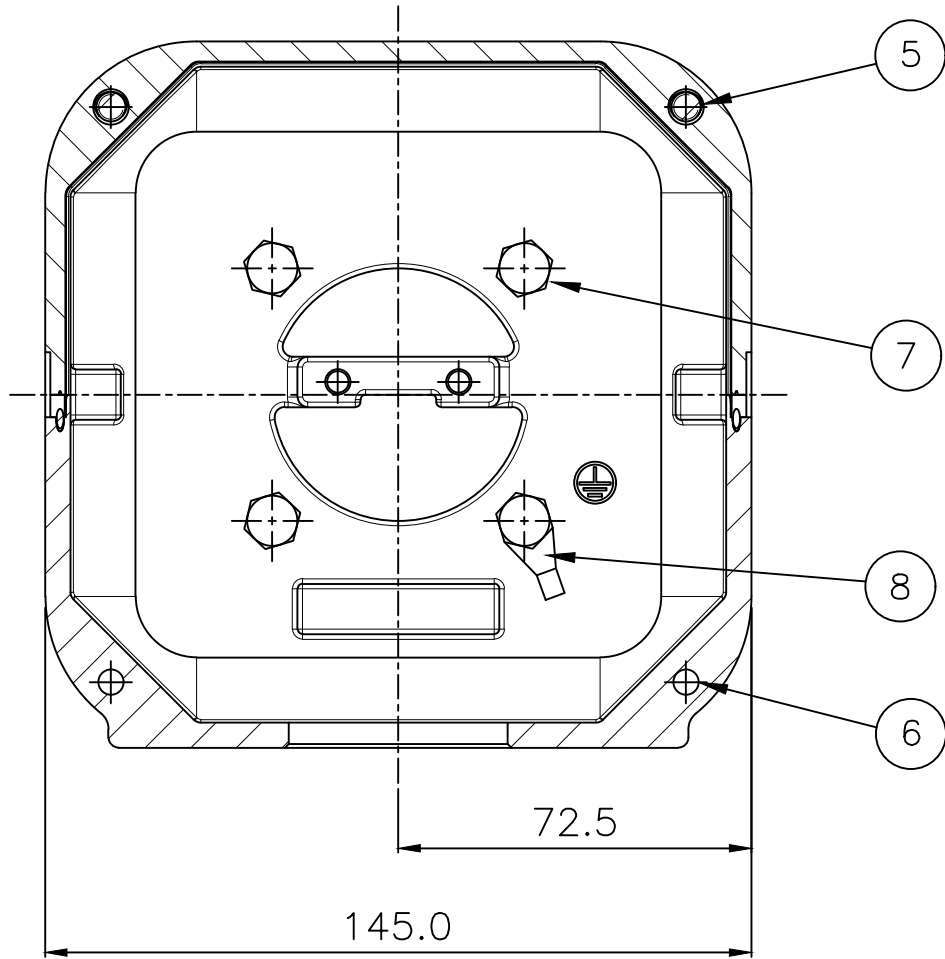
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허가없이 복사할 수 없음 (취급주의)

HYUNDAI  
ELECTRIC

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY	일반가공公差				일반재관公差			
							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				



1	GROUND TERMINAL LUG	CU	--						8
4	BOX+FRAME HEX BOLT	S45C	M6 X L15						7
2	COVER+BOX HEX BOLT	S45C	M6 X L25						6
2	COVER+BOX HEX BOLT	S45C	M6 X L65						5
1	BOX GASKET	NBR	--						4
1	COVER GASKET	NBR	--						3
1	CONDUIT BOX COVER	AL	--						2
1	CONDUIT BOX	AL	--						1
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.		
APPD BY	S.K.HAN	UNIT	mm	SUBJECT	SSEN SERIES 100-132FR			DWG SIZE	
CHKD BY	I.K.KIM	SCALE	1/1.5	TITLE			TERMINAL BOX ASS'Y		
CHKD BY	-	PROJEC'N	3rd Angle						
DSND BY	이승호	DATE	2020-06-19				REF. NO		Sheet No. of
							DWG NO	3M-234756	Revision No. 0