

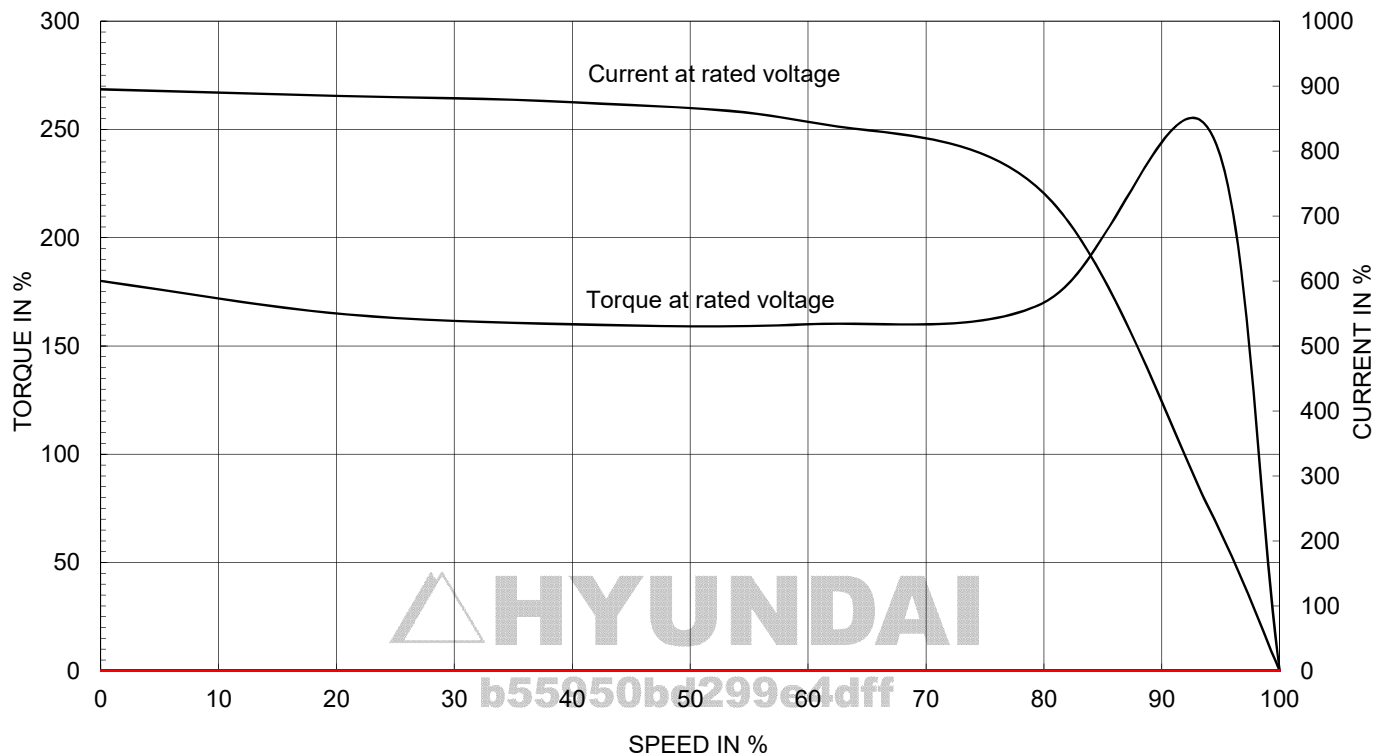
AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.		[0]			
Project Name		Project No.		Quantity		set			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		160M		Rated Output		11 kW 15 HP			
Type		HLP-11/2		Number of Poles		2			
Enclosure(Protection)		Totally Enclosed (IP55)		Rotor Type		Squirrel Cage			
Method of Cooling		IC411(FC)		Starting Method*		☒ D.O.L ☐ Y-Δ			
Rated Frequency		60 Hz		Rated Voltage		440 V 380 V 220 V			
Number of Phases		3		Current		Full Load 17.8 A 20.6 A 35.6 A			
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor**		895 % 895 % 895 %			
Temp. Rise at full load (by resistance method)				Efficiency					
at 1.0 S.F 80 °C				50% Load 89.6 %					
Motor Location ☒ Indoor ☐ Outdoor				75% Load 90.9 %					
Altitude Less than 1000m				100% Load 91.0 %					
Relative Humidity Less than 80 %				Power Factor(p.u)					
Ambient Temp. 40 °C MAX.				50% Load 0.815					
Duty Type Continuous(S1)				75% Load 0.872					
Service Factor 1.15				100% Load 0.890					
Mounting ☐ B3 ☒ B5 ☐ V1 ☐ B3/B5				Speed at Full Load 3535 r.p.m					
Bearing Type Anti-Friction				Torque					
DE/N-DE 6309ZZC3 / 6309ZZC3				Full Load 3.0 kg.m					
Lubricant Grease(Polyrex-EM)				Locked-rotor** 180 %					
External Thrust Not applicable				Breakdown** 250 %					
Coupling Method ☒ Direct ☐ V-Belt				Moment of Inertia (J)					
Shaft Extension ☒ Single ☐ Double				Load(Max.) 3.637001414 kg·m²					
Terminal Box Main ☐ Steel ☒ Cast Iron				Motor 0.039 kg·m²					
Aux. ☐ Yes ☒ No				Sound Pressure Level (No-load & mean value at 1m from motor)					
Location Refer to Outline Drawing				74 dB(A)					
Application				Vibration 2.2 mm/sec(r.m.s)					
Area classification Non-Hazardous				Permissible number of consecutive starts Cold 3 times					
Type of Ex-Protection Not applicable				Hot 2 times					
Applicable Standard KS, IEC, NEMA MG1 Part30(Vpeak)				Paint Munsell No. Panton279C					
ACCESSORIES				SUBMITTAL DRAWING					
				Outline Dimension Drawing \ Motor Weight(Approx.)					
				B3		kg			
				B5		LM-T1163B5PLV01 118 kg			
				V1		kg			
				B3/B5		kg			
				Main T-Box Ass'y 3M-145860					
				REMARK					
				*.Premium Efficiency(IE3)					
				*.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise					
SPARE PARTS									
				Date		DSND		CHKD	
				2018-11-23		R.G. KIM		---	

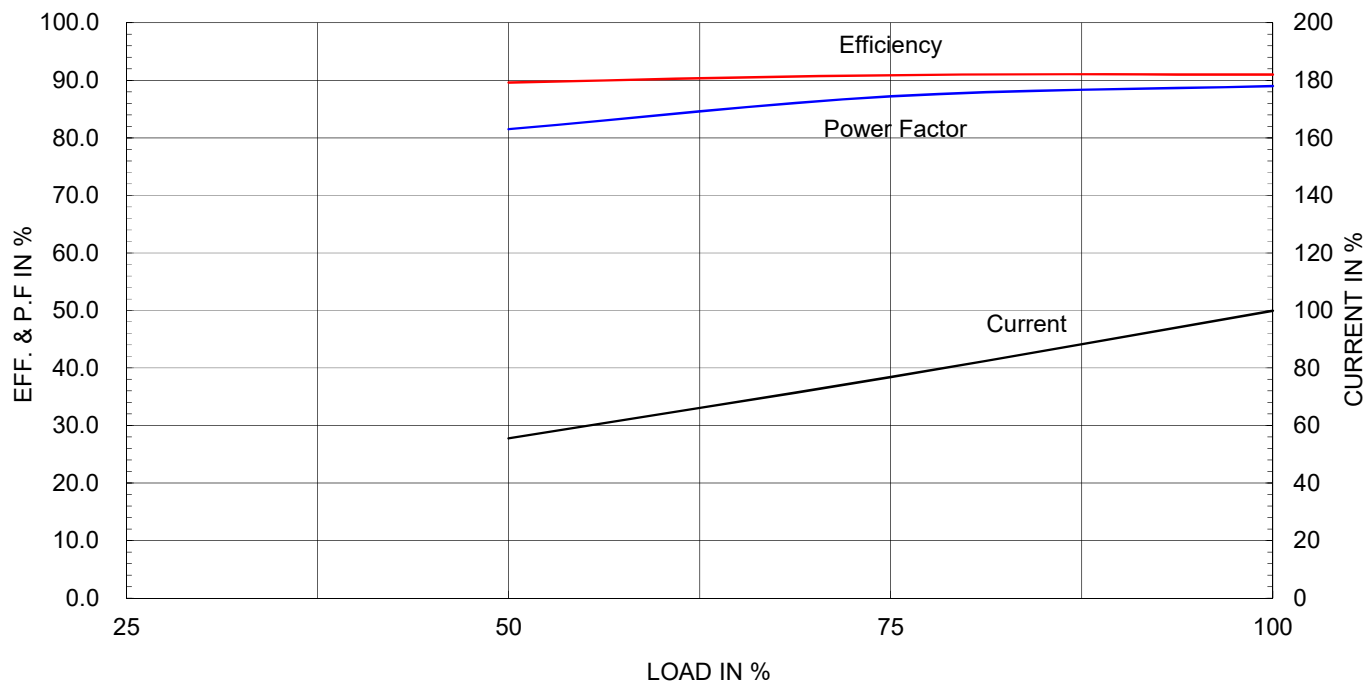
Type	:	HLP-11/2
Full Load Torque :	3.0	Kg-m
Load moment of Inertia (J) :	3.637	Kg-m ²
Motor moment of Inertia (J) :	0.039	Kg-m ²

11kW	15HP	2P	60 Hz
Speed at Full Load : 3535 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	17.8A	20.6A	35.6A

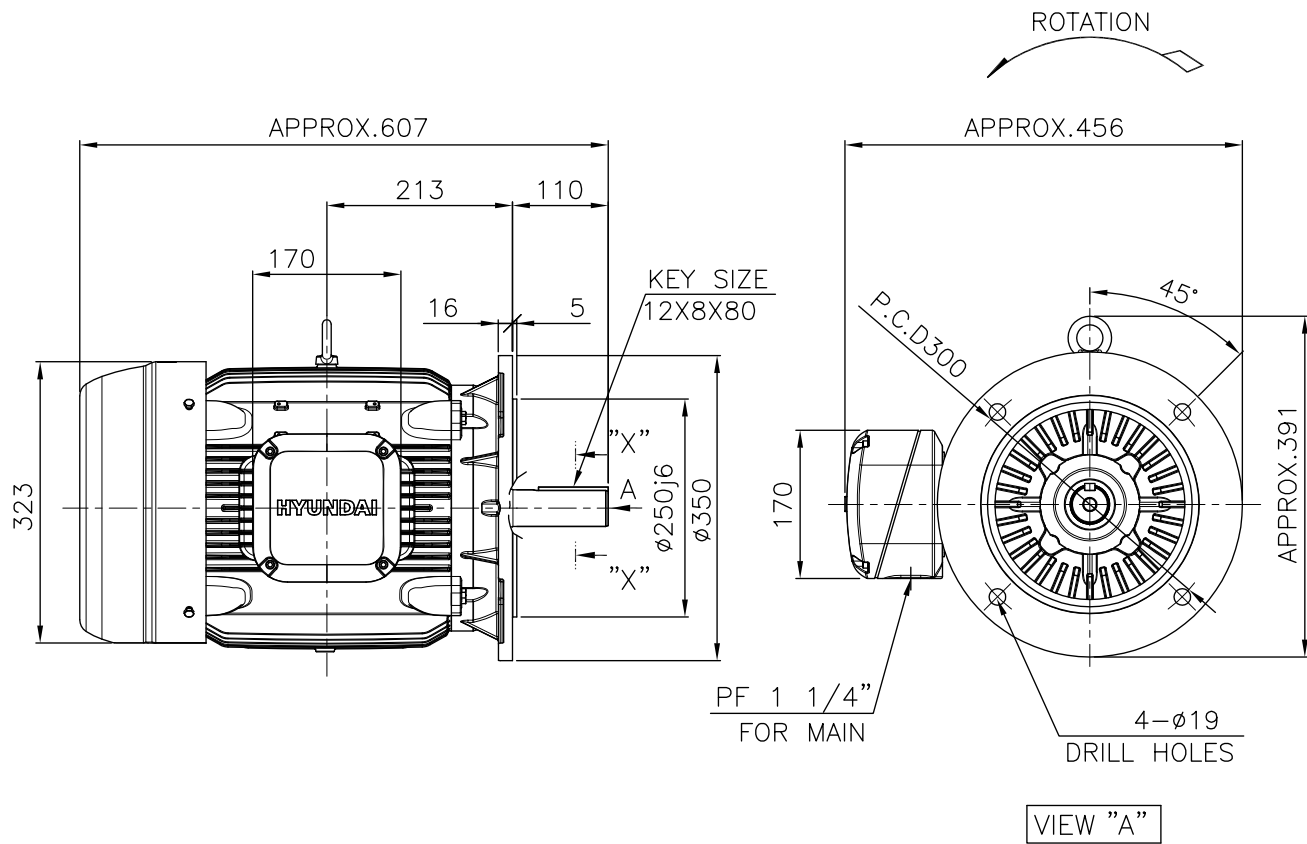
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



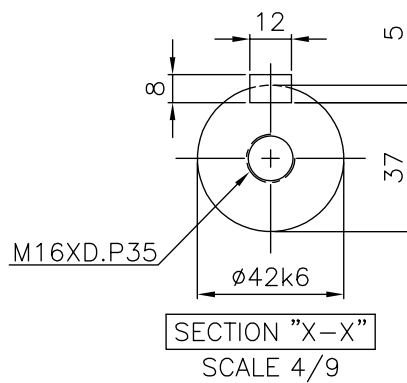
1		2		3		4			
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



NOTE

1.TOLERANCE :

FLANGE HOLE	$\phi 19$	$+0.52$ 0
RABBET DIAMETER	$\phi 250$	$+0.016$ -0.013
SHAFT DIAMETER	$\phi 42$	$+0.018$ $+0.002$
KEYWAY WIDTH	12	0 -0.043
KEYWAY DEPTH	5	$+0.2$ 0
KEY WIDTH	12	0 -0.043
KEY HEIGHT	8	0 -0.090

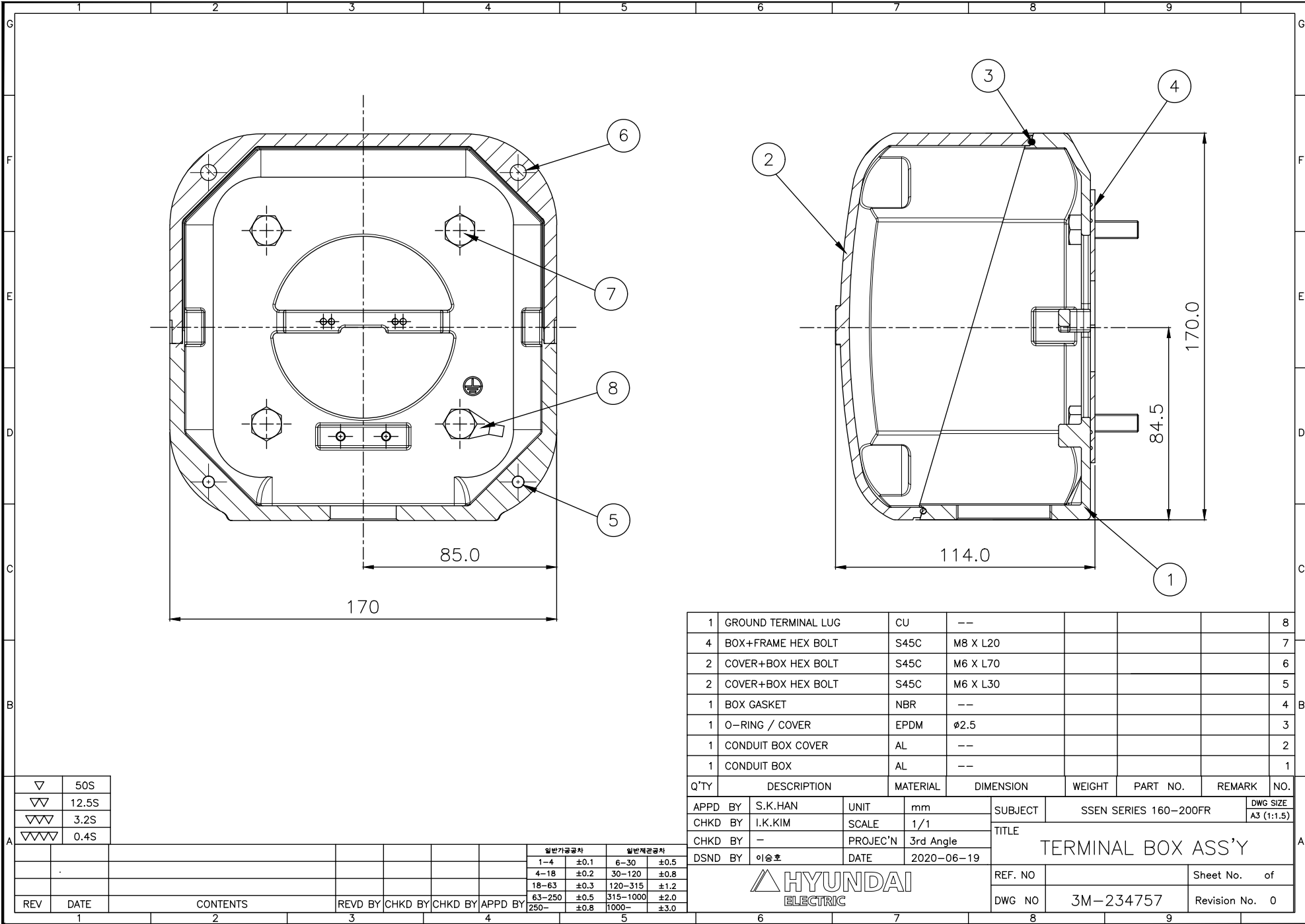


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS Fr.160M	DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/9	TITLE		A4 (1:9)
CHKD BY	S.H.LEE	PROJEC'N	3각법(3rd Angle)			
DSND BY	S.R.KIM	DATE	2020.06.19			
				REF. NO		Sheet No. of
				DWG NO	LM-T1163B5PLV01	Revision No. 0

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본 도면은 현대일렉트릭(주) 재산이므로
허가없이 복사할 수 없음 (취급유의)

HYUNDAI
ELECTRIC



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						

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

1	GROUND TERMINAL LUG	CU	--				8		
4	BOX+FRAME HEX BOLT	S45C	M8 X L20				7		
2	COVER+BOX HEX BOLT	S45C	M6 X L70				6		
2	COVER+BOX HEX BOLT	S45C	M6 X L30				5		
1	BOX GASKET	NBR	--				4		
1	O-RING / COVER	EPDM	ø2.5				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 160-200FR				DWG SIZE A3 (1:1.5)
CHKD BY	I.K.KIM	SCALE	1/1	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-234757			Revision No.	0
6		7		8		9			