

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		90L		Rated Output		1.5 kW 2 HP			
Type		HLP-1.5/2		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 2.7 A 3.1 A 5.4 A			
Insulation Class		☒ F ☐ B ☐ H		Locked-rotor**		890 % 890 % 890 %			
Temp. Rise at full load (by resistance method)				Efficiency					
at 1.0 S.F 80 °C				50% Load 83.3 %					
Motor Location ☒ Indoor ☐ Outdoor				75% Load 85.5 %					
Altitude Less than 1000m				100% Load 85.5 %					
Relative Humidity Less than 80 %				Power Factor(p.u)					
Ambient Temp. 40 °C MAX.				50% Load 0.728					
Duty Type Continuous(S1)				75% Load 0.818					
Service Factor 1.15				100% Load 0.860					
Mounting ☐ B3 ☒ B5 ☐ V1 ☐ B3/B5				Speed at Full Load 3480 r.p.m					
Bearing Type Anti-Friction				Torque					
DE/N-DE 6205ZZ / 6204ZZ				Full Load 0.4 kg.m					
Lubricant Grease(HIFLEX L-3)				Locked-rotor** 340 %					
External Thrust Not applicable				Breakdown** 260 %					
Coupling Method ☒ Direct ☐ V-Belt				Moment of Inertia (J)					
Shaft Extension ☒ Single ☐ Double				Load(Max.) 0.503793103 kg·m²					
Terminal Box Main ☐ Steel ☒ Cast Iron				Motor 0.002 kg·m²					
Aux. ☐ Yes ☒ No				Sound Pressure Level (No-load & mean value at 1m from motor)					
Location Refer to Outline Drawing				58 dB(A)					
Application				Vibration 1.6 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-T1095B5PLV01		30 kg	
				V1				kg	
				B3/B5				kg	
				Main T-Box Ass'y 3M-148548					
				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		---	

Note: Others not mentioned in this data sheet shall be in accordance with maker standard. Made in Vietnam

Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.

Inspection and performance test shall be maker standard, if not mentioned.

* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

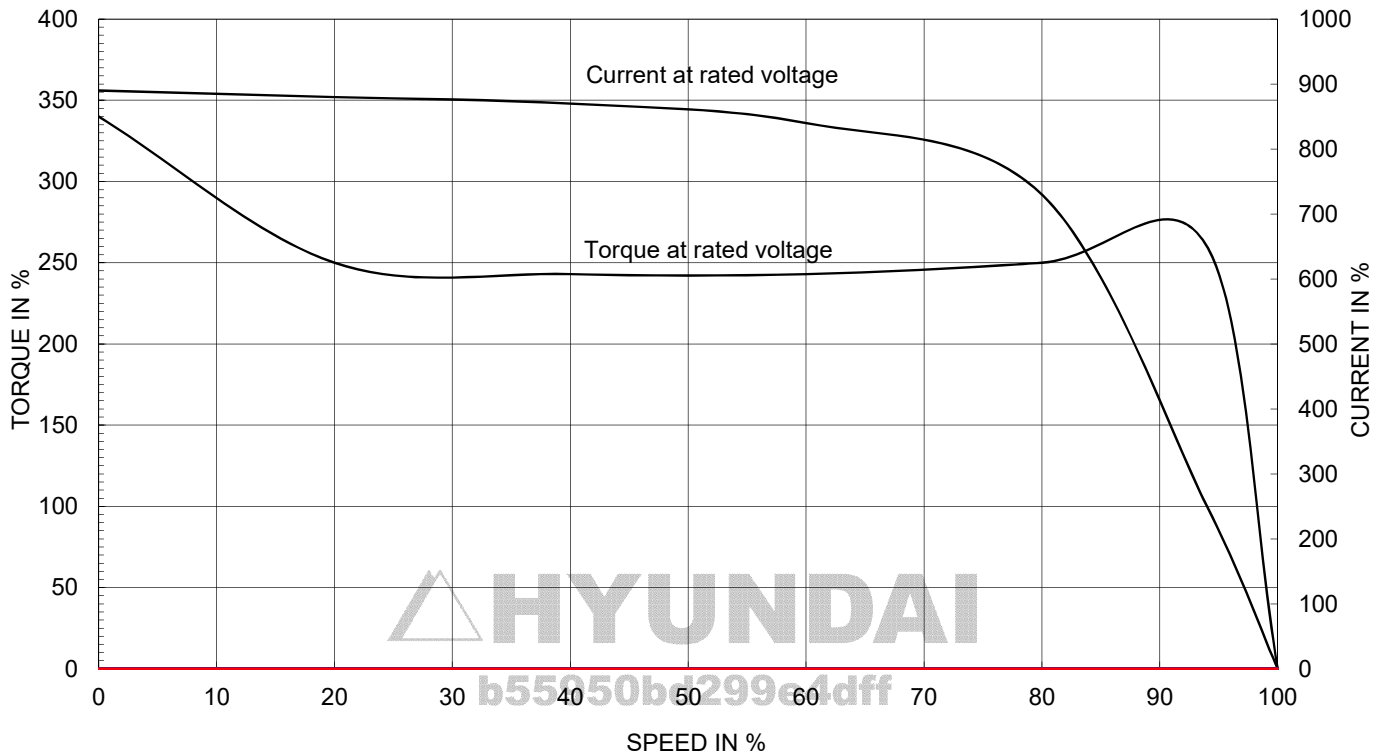
** The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

HEES W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

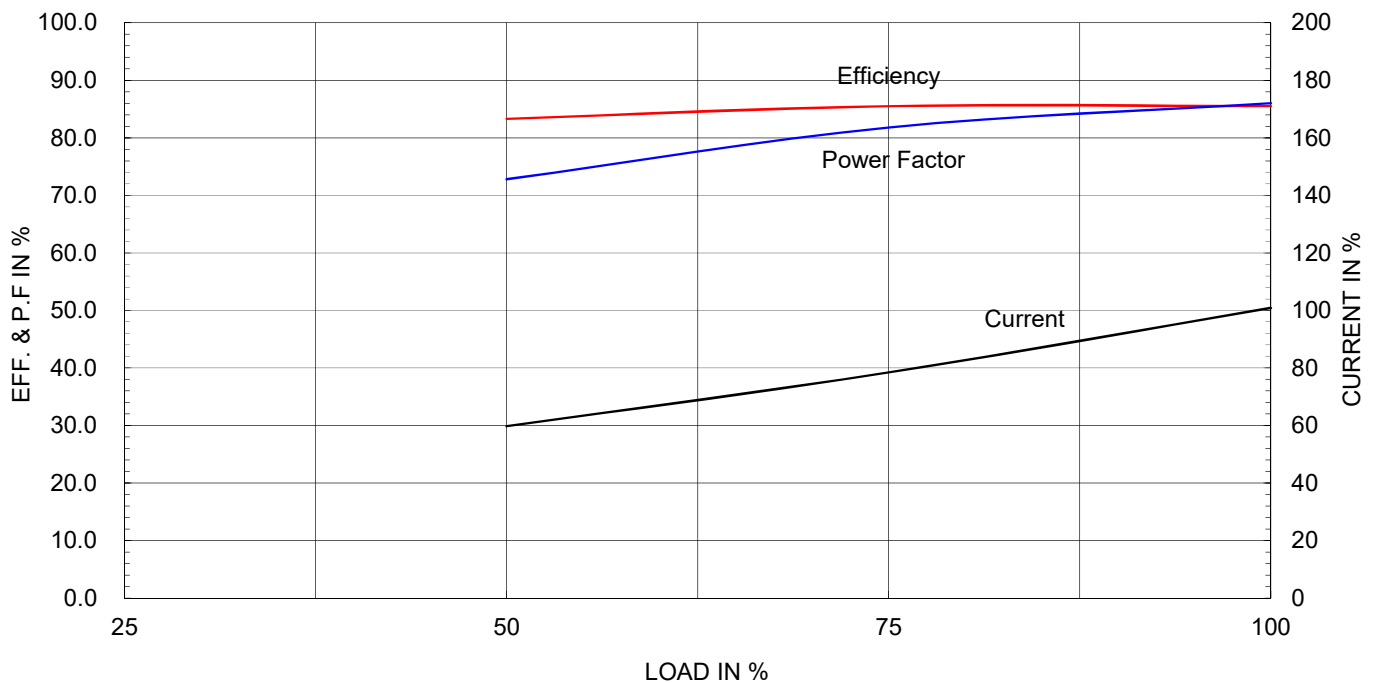
Type	:	HLP-1.5/2
Full Load Torque :	0.4	Kg-m
Load moment of Inertia (J) :	0.504	Kg-m ²
Motor moment of Inertia (J) :	0.002	Kg-m ²

1.5kW	2HP	2P	60 Hz
Speed at Full Load : 3480 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	2.7A	3.1A	5.4A

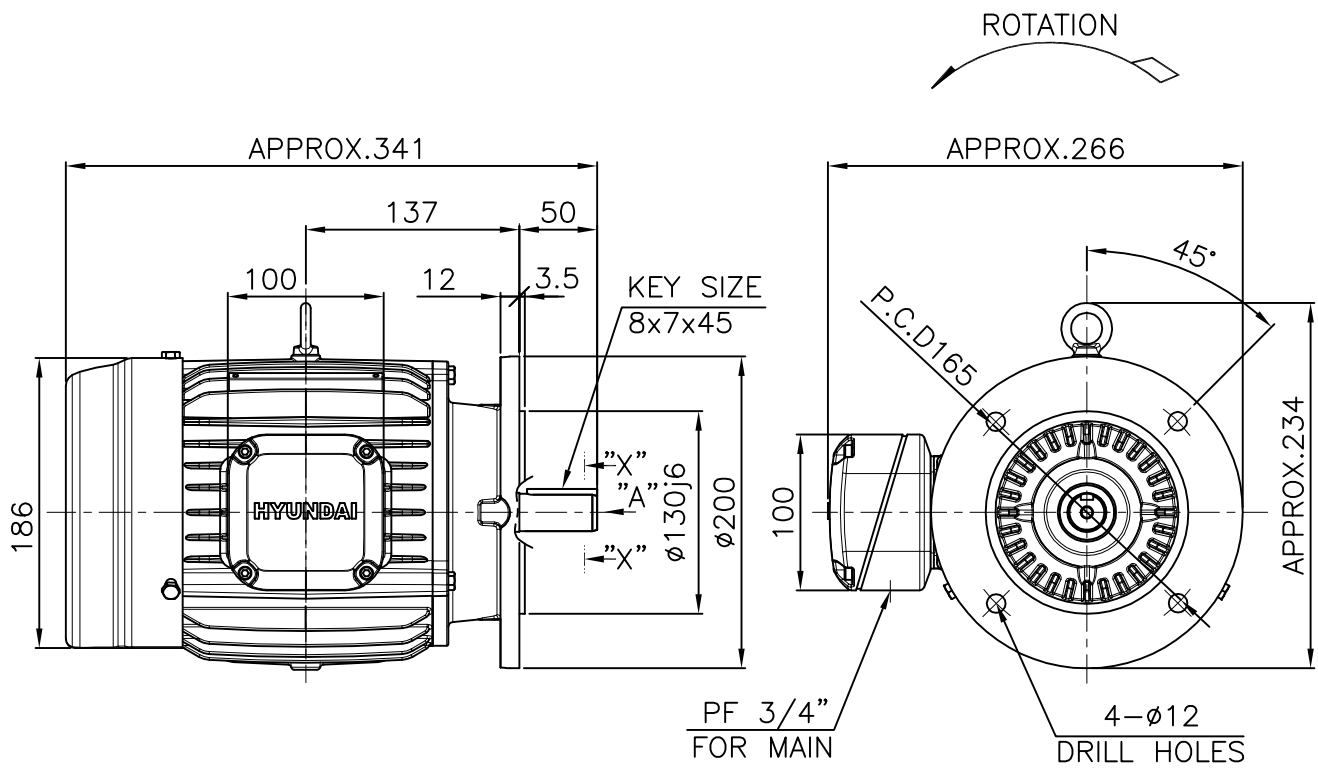
SPEED VS TORQUE & CURRENT CURVE



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								

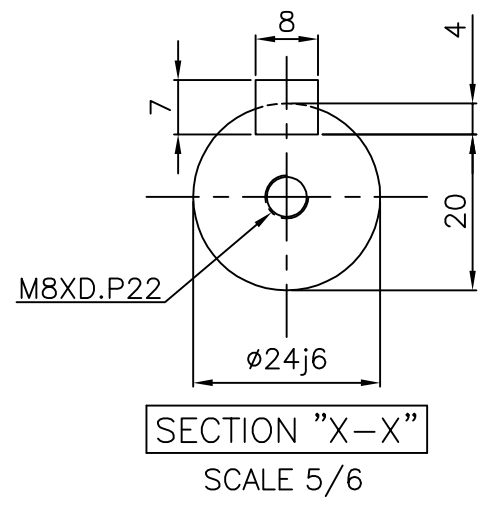


VIEW "A"

NOTE

1.TOLERANCE :

FLANGE HOLES	ø12	+0.43 0
RABBET DIAMETER	ø130	+0.014 -0.011
SHAFT DIAMETER	ø24	+0.009 -0.004
KEYWAY WIDTH	8	0 -0.036
KEYWAY DEPTH	4	+0.2 0
KEY WIDTH	8	0 -0.036
KEY HEIGHT	7	0 -0.090

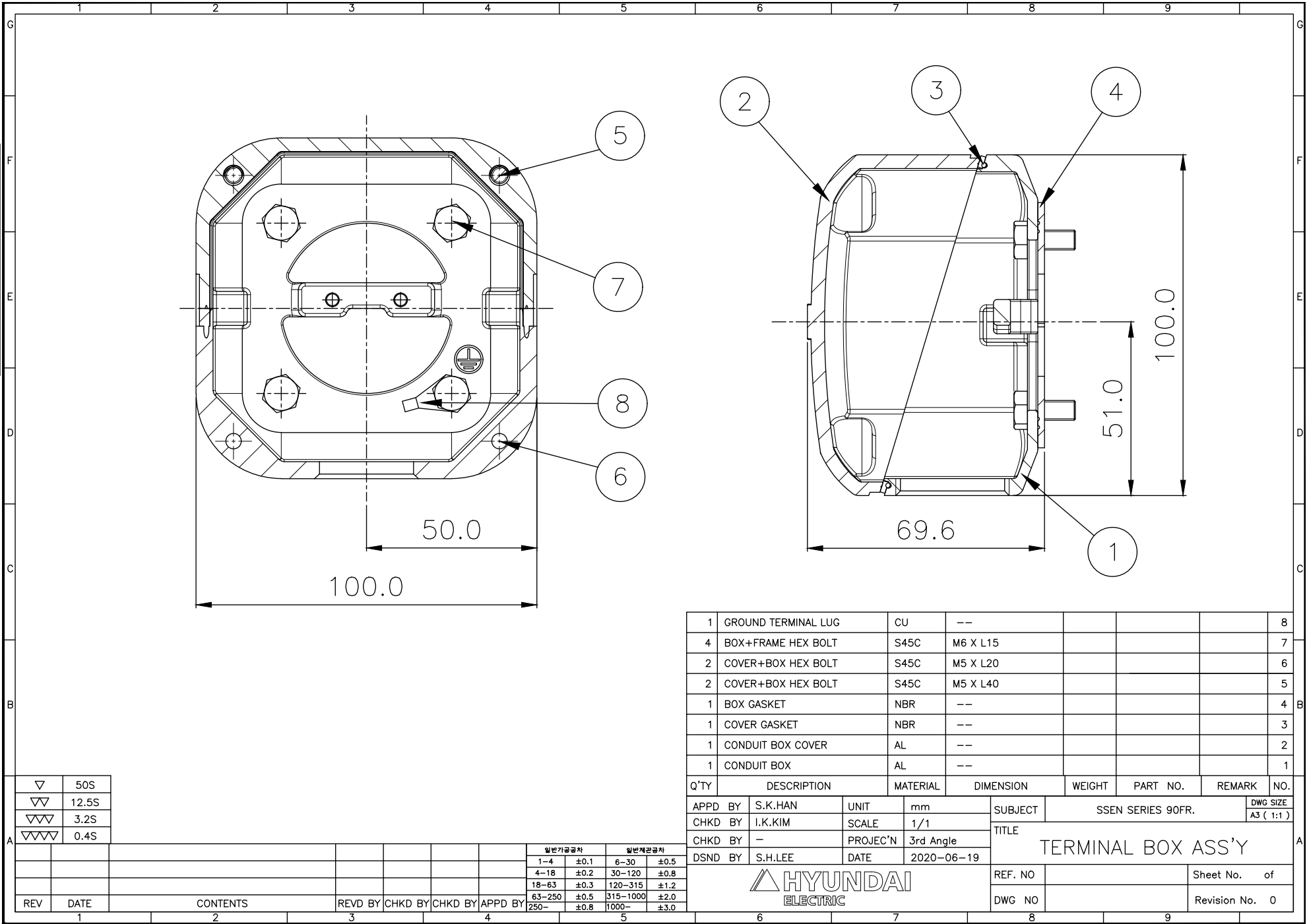


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS Fr.90L	DWG SIZE	A4 (1/6)
CHKD BY	I.K.KIM	SCALE	1/6	TITLE OUTLINE			
CHKD BY	S.H.LEE	PROJEC'N	3각법 (3rd Angle)				
DSND BY	S.R.KIM	DATE	2020.06.19				
				REF. NO		Sheet No.	of
				DWG NO	LM-T1095B5PLV01	Revision No.	0

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허가없이 복사할 수 없음 (취급유의)

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▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						
5						
6						
7						
8						
9						

1	GROUND TERMINAL LUG	CU	--					8		
4	BOX+FRAME HEX BOLT	S45C	M6 X L15					7		
2	COVER+BOX HEX BOLT	S45C	M5 X L20					6		
2	COVER+BOX HEX BOLT	S45C	M5 X L40					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 90FR.			DWG SIZE	
CHKD BY	I.K.KIM		SCALE	1/1	TITLE TERMINAL BOX ASS'Y					A3 (1:1)
CHKD BY	-		PROJEC'N	3rd Angle						
DSND BY	S.H.LEE		DATE	2020-06-19						
					REF. NO				Sheet No. of	
					DWG NO				Revision No. 0	
6		7		8		9				

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