

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

SPECIFICATION for INDUCTION MOTOR



Contents

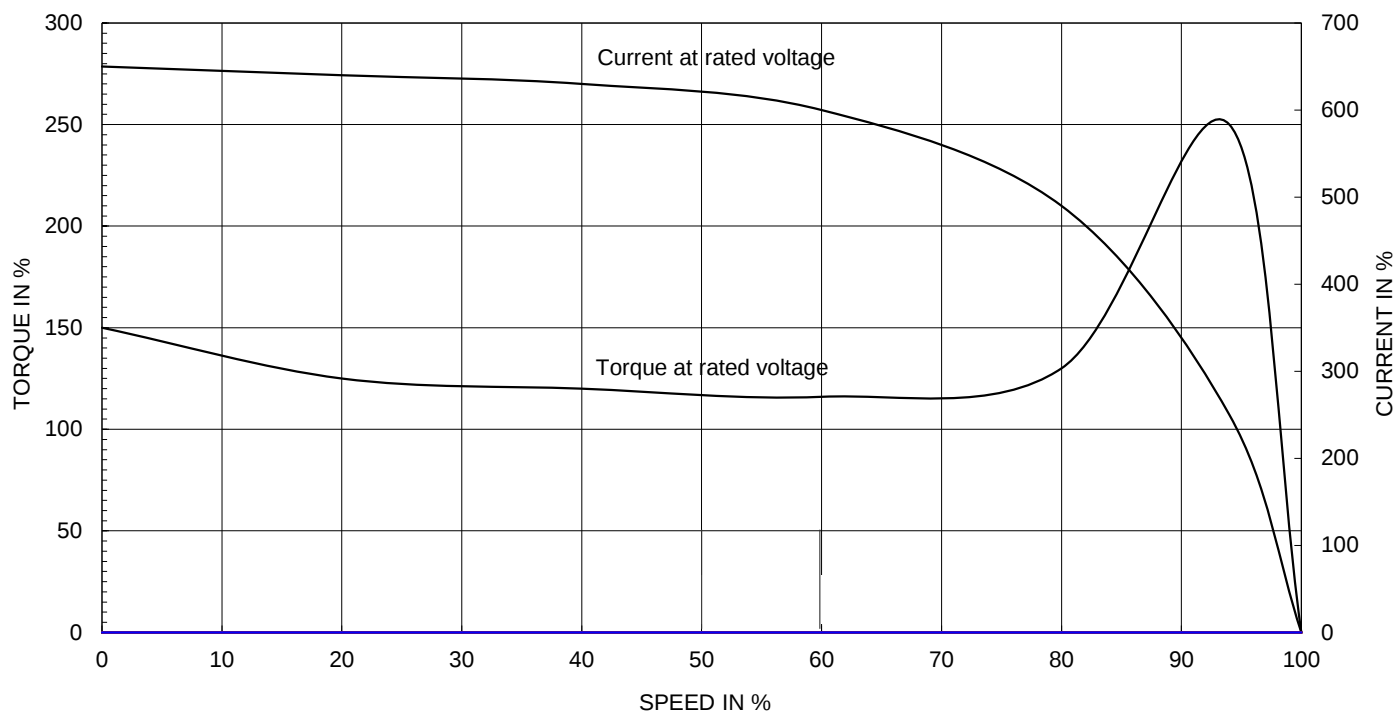
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3 . Outline Dimension Drawing	- 1Sheets
4 . Main Terminal Box Drawing	- 1Sheets

		AC INDUCTION MOTOR DATA SHEET									
Model No.or RFQ No.		4406KSTD40SSDS1STFE3B51DL0SD3		Item No.				Rev. No.		[]	
Project Name				Project No.				Quantity			
GENERAL SPECIFICATION				PERFORMANCE DATA							
Frame Size		160L		Rated Output		11 kW		15 HP			
Type		HLP-11/6		Number of Poles		6					
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					
Number of Phases		3		Current		Full Load		20.7 A			
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		670 %			
Temp. Rise at full load (by resistance method)				Efficiency							
at 1.0 S.F		80 deg. C				50% Load		91.0 %			
Motor Location		☒ Indoor ☐ Outdoor				75% Load		91.8 %			
Altitude		Less than 1000				100% Load		91.7 %			
Relative Humidity		Less than 80 %				Power Factor(p.u)					
Ambient Temp.		40 deg. C (Max.)				50% Load		0.635			
Duty Type		Continuous(S1)				75% Load		0.720			
Service Factor		1.15				100% Load		0.760			
Mounting		☐ B3 ☒ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		1175 r.p.m					
Bearing		Type		Anti-Friction		Torque					
		DE/N-DE		6309ZZC3 / 6309ZZC3		Full Load		9.1 kg·m			
		Lubricant		Grease(Polyrex-EM)		Locked-rotor**		160 %			
External Thrust		Not applicable				Breakdown**		240 %			
Coupling Method		☒ Direct ☐ V-Belt				Moment of Inertia (J)					
Shaft Extension		☒ Single ☐ Double				Load(Max.)		20.250 kg·m²			
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor		0.130 kg·m²			
		Aux.		☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)					
		Location		Refer to Outline Drawing				66 dB(A)			
Application						Vibration		2.2 mm/sec (r.m.s)			
Area classification		Not applicable				Permissible number of consecutive starts		Cold		3 times	
Type of Ex-Protection		Non-Hazardous						Hot		2 times	
Applicable Standard		KS, IEC, NEMA MG1 Part30(Vpeak)		Paint		Munsell No.		4.4PB5.5/5.6(VL-451)			
ACCESSORIES				SUBMITTAL DRAWING							
				Outline Dimension Drawing		\		Motor Weight(Approx.)			
				B5		LM-T1165B5PL001		141 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		CHKD	
				2018-04-25		R.G. KIM		-		O.J. 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 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)											

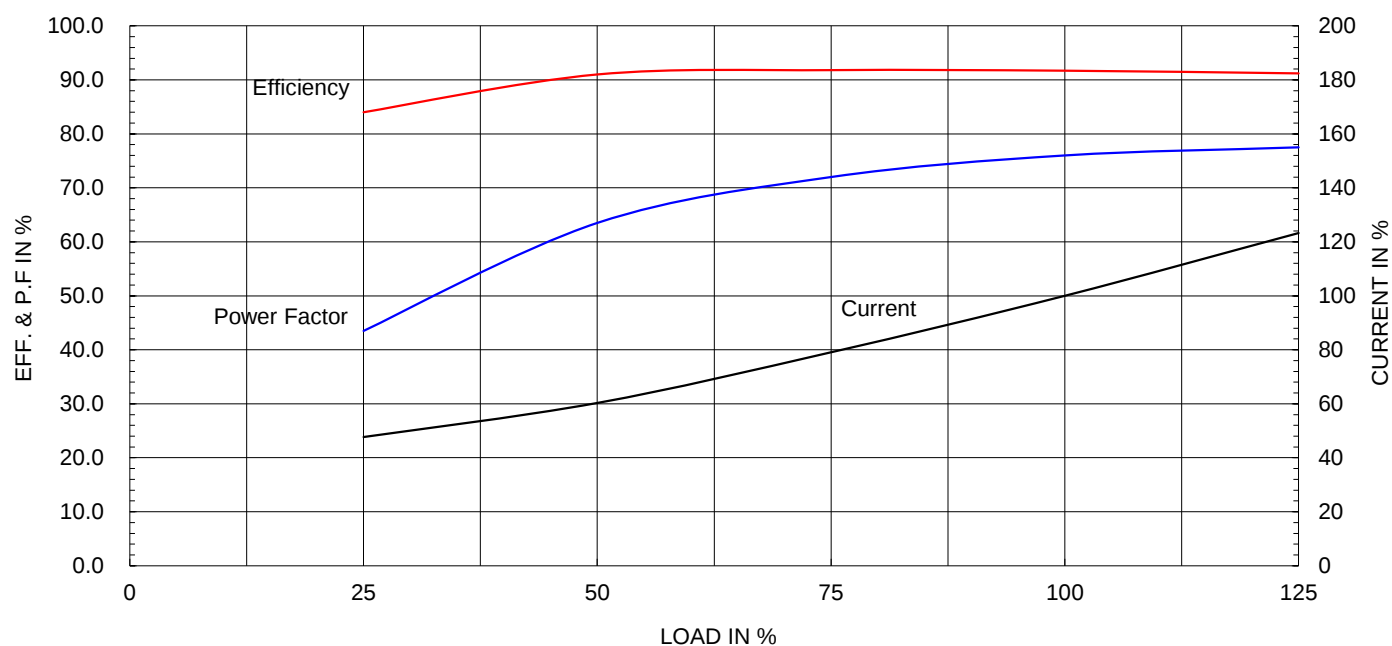
Type :	HLP-11/6	
Full Load Torque :	9.1	kg.m
Motor moment of Inertia (J) :	0.130	kg.m ²
Load moment of Inertia (J) :	20.250	kg.m ²

11 kW	6 P	60 Hz
Speed at Full Load : 1175 RPM		
Rated Voltage	440V	
Full Load Current	20.7A	

SPEED VS TORQUE & CURRENT CURVE



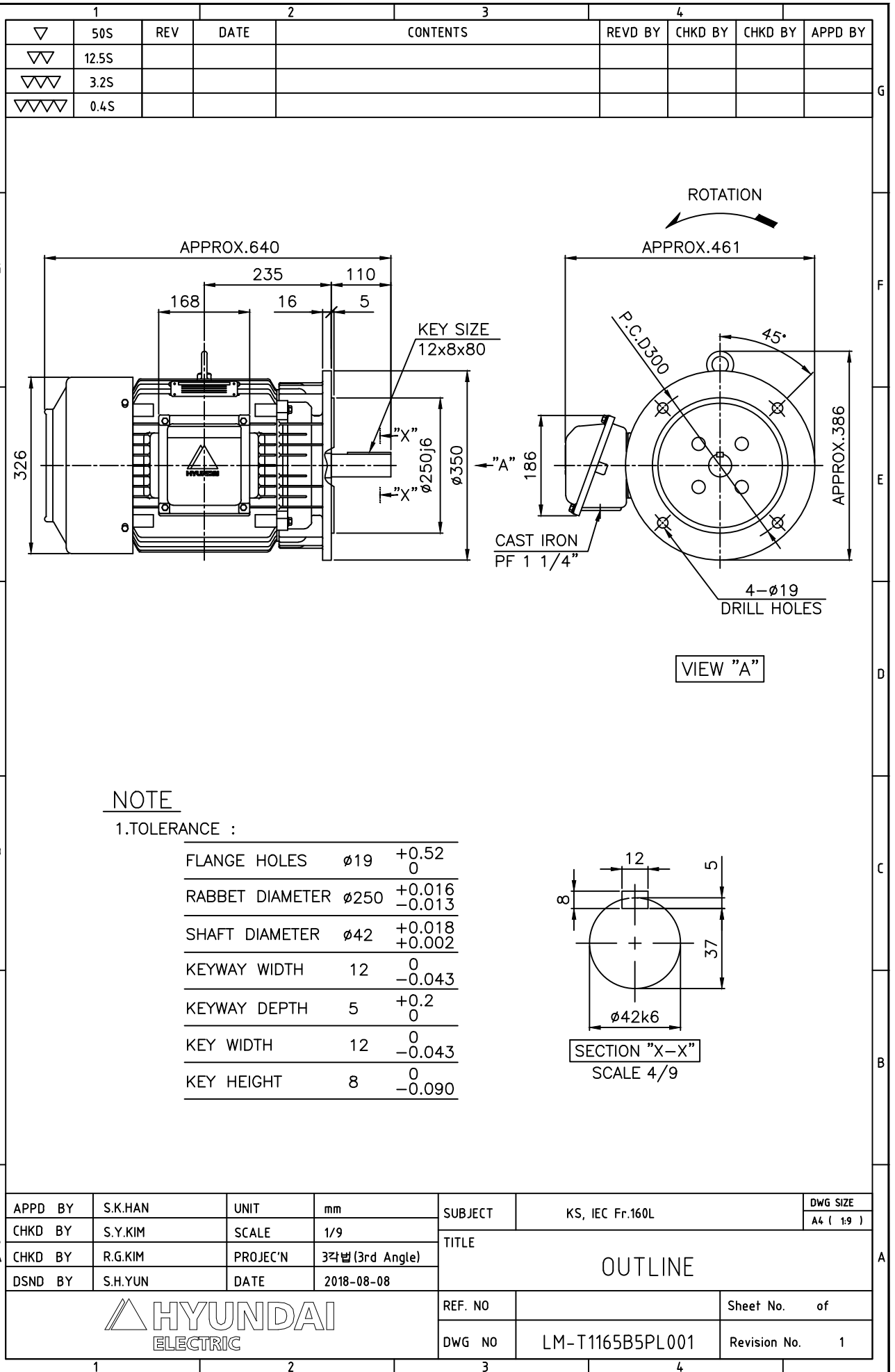
OUTPUT VS EFF., P.F & CURRENT CURVE



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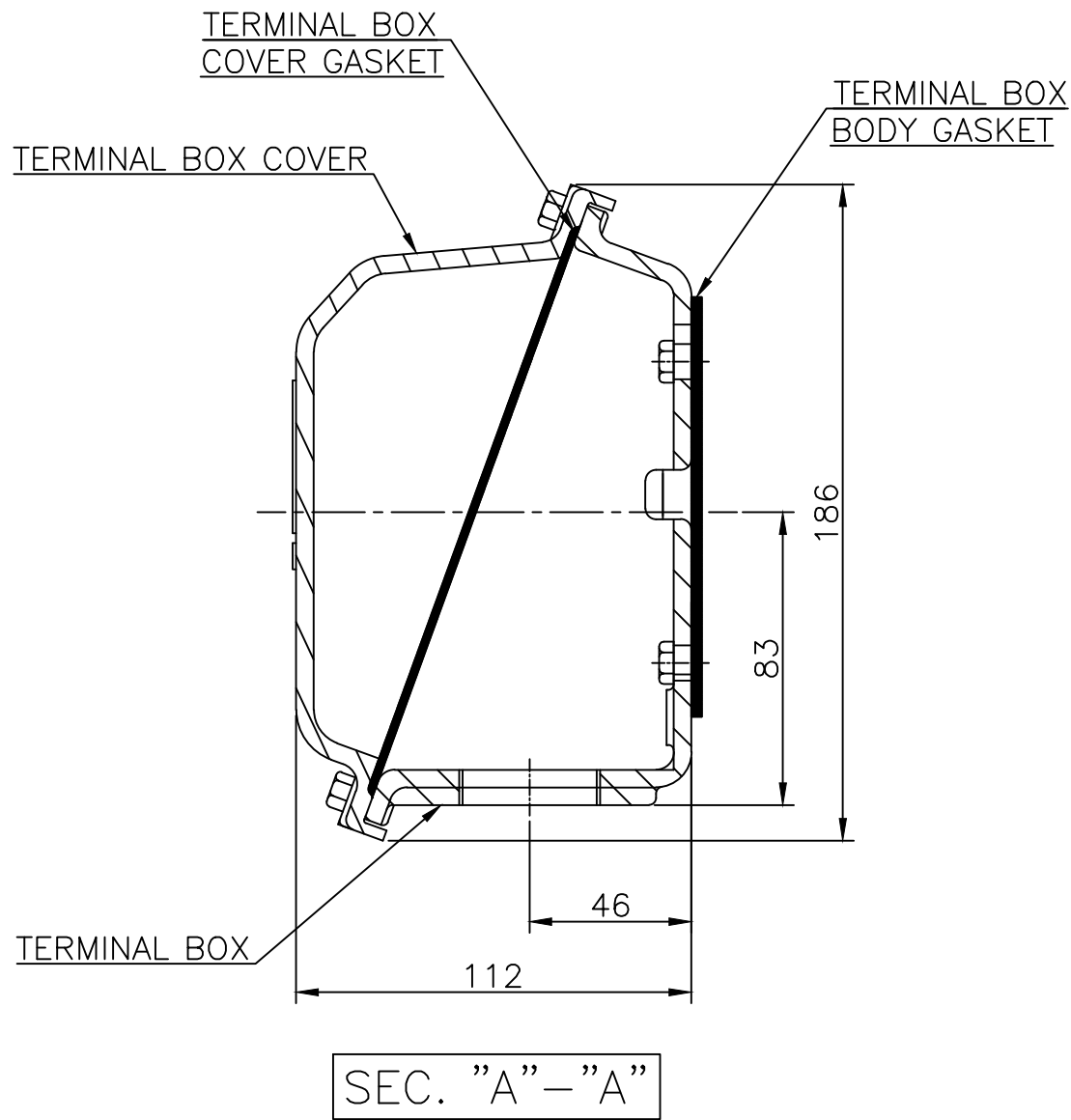
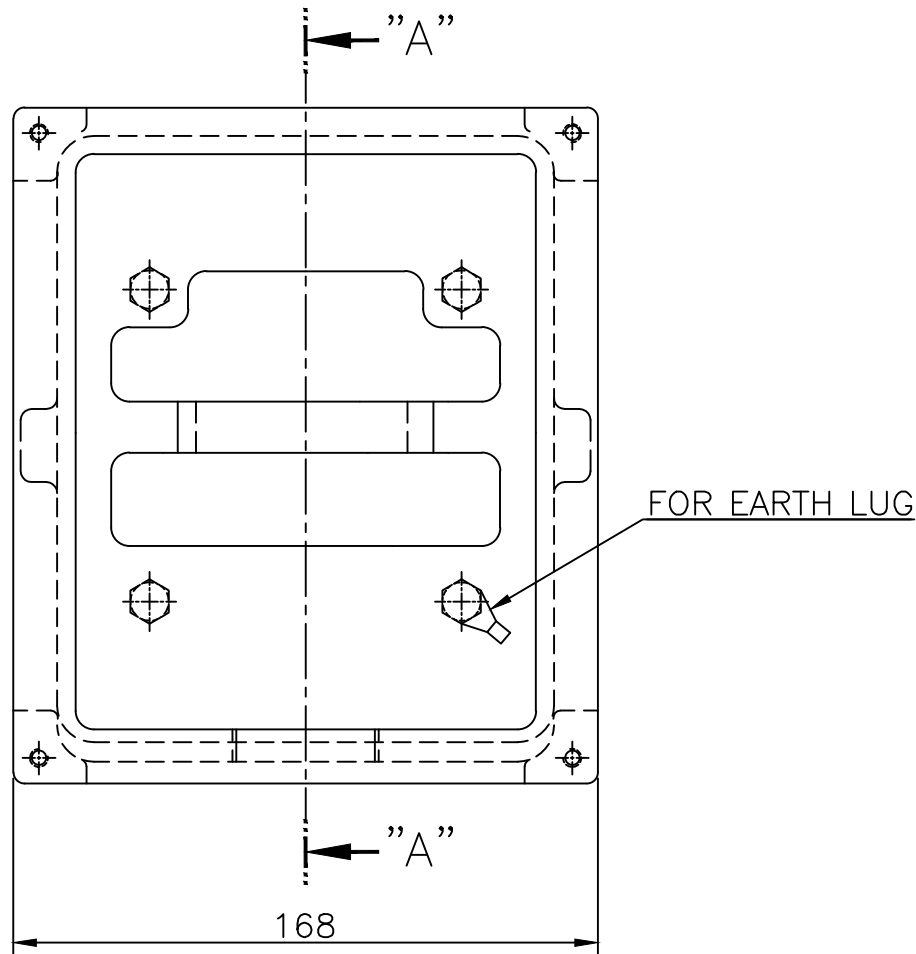
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SEC. "A" - "A"

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

일반가공공차				일반재관공차			
1-4	±0.1	6-30	±0.5	1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8	4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2	18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0	63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0	250-	±0.8	1000-	±3.0

Q'TY	DESCRIPTION		MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.K.HAN		UNIT	mm	SUBJECT	FR.160~180 (CAST IRON)	TITLE	DWG SIZE
CHKD BY	S.Y.KIM		SCALE	1/2				A3 (1:2)
CHKD BY	R.G.KIM		PROJEC'N	3각법 (3rd Angle)	Main Terminal Box Assembly			
DSND BY	H.K.LEE		DATE	2011-08-30				
					REF. NO	227B8008LA2	Sheet No.	of
					DWG NO	3M-145860	Revision No.	2
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