

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

SPECIFICATION for INDUCTION MOTOR



Contents

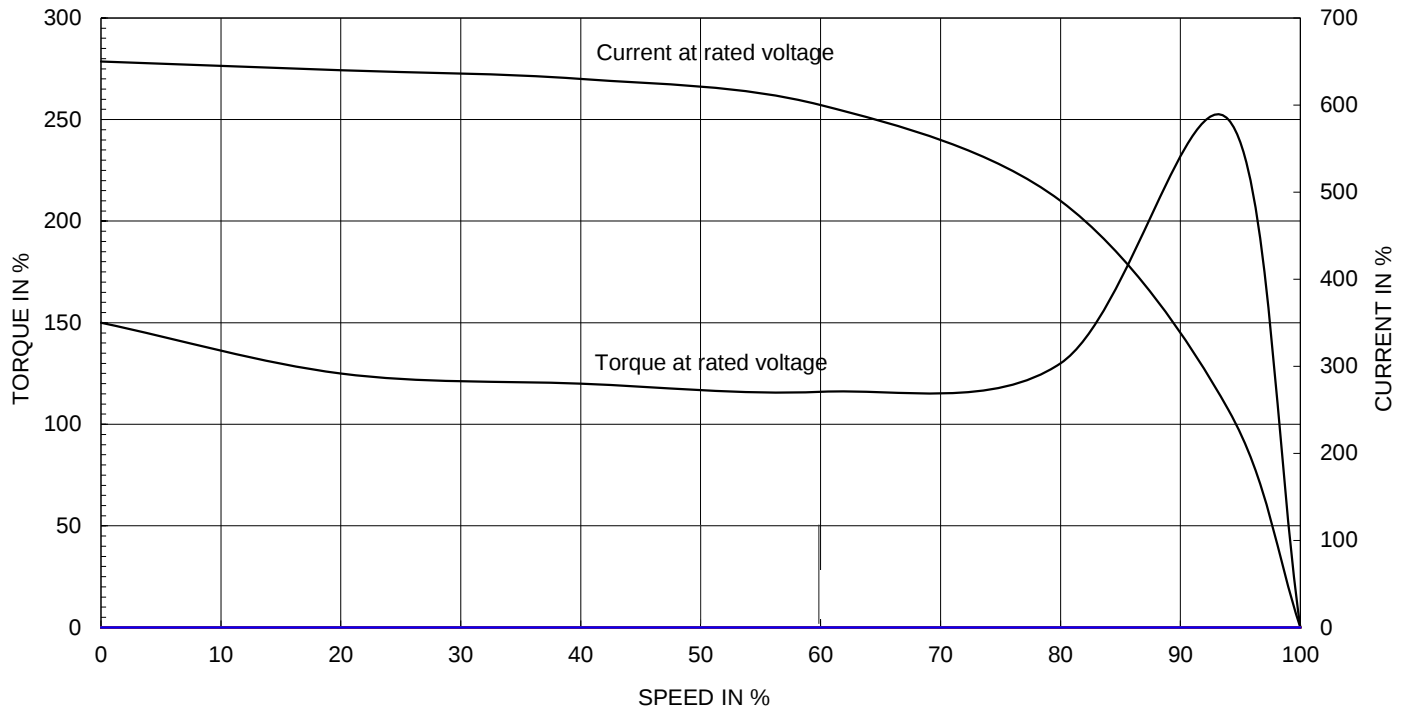
1 . Data Sheet of AC Induction Motor	- 1Sheets
2 . Speed-Torque & Current Curve	- 1Sheets
3 . Outline Dimension Drawing	- 1Sheets
4 . Main Terminal Box Drawing	- 1Sheets

		AC INDUCTION MOTOR DATA SHEET							
Model No.or RFQ No.		3806KSTD40SSDS1STFE3351DL0SDS		Item No.		Rev. No.		[]	
Project Name				Project No.		Quantity			
GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size		180L		Rated Output		18.5 kW		25 HP	
Type		HLP-18.5/6		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		380 V			
Number of Phases		3		Current		Full Load		38.9 A	
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		840 %	
Temp. Rise at full load (by resistance method)				Efficiency					
at 1.0 S.F		80 deg. C				50% Load		92.4 %	
Motor Location		☒ Indoor ☐ Outdoor				75% Load		93.1 %	
Altitude		Less than 1000				100% Load		93.0 %	
Relative Humidity		Less than 80 %		Power Factor(p.u)					
Ambient Temp.		40 deg. C (Max.)				50% Load		0.599	
Duty Type		Continuous(S1)				75% Load		0.716	
Service Factor		1.15				100% Load		0.777	
Mounting		☐ B3 ☐ B5 ☐ V1 ☒ B3/B5		Speed at Full Load		1175 r.p.m			
Bearing	Type	Anti-Friction		Torque					
	DE/N-DE	6312ZZC3 / 6310ZZC3				Full Load		15.3 kg·m	
	Lubricant	Grease(Polyrex-EM)				Locked-rotor**		160 %	
External Thrust		Not applicable				Breakdown**		220 %	
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)					
Shaft Extension		☒ Single ☐ Double				Load(Max.)		33.000 kg·m²	
Terminal Box	Main	☐ Steel ☒ Cast Iron				Motor		0.257 kg·m²	
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)					
	Location	Refer to Outline Drawing						68 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.)	
				B3/B5		LM-T1185B4PL001		199 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	
				2018-04-25		R.G. KIM		-	
						CHKD		APPD	
						O.J. KIM		S.K. HAN	
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.									

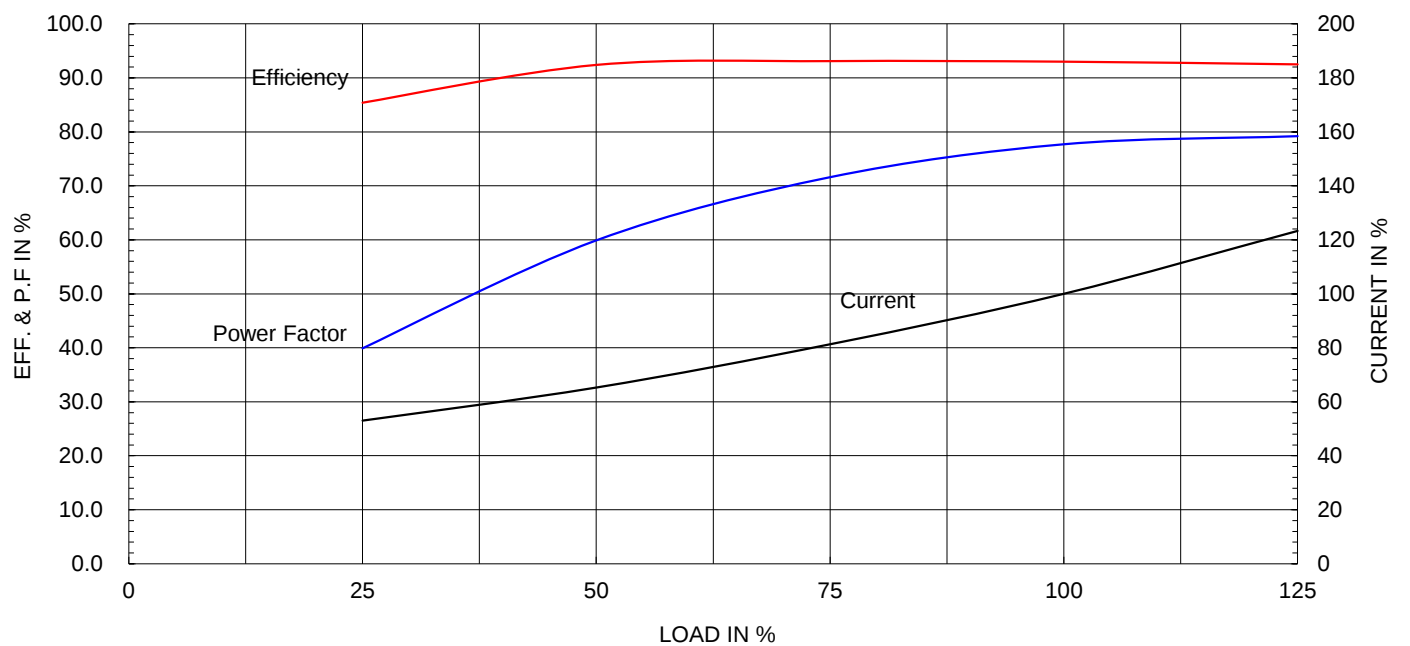
Type :	HLP-18.5/6	
Full Load Torque :	15.3	kg.m
Motor moment of Inertia (J) :	0.257	kg.m ²
Load moment of Inertia (J) :	33.000	kg.m ²

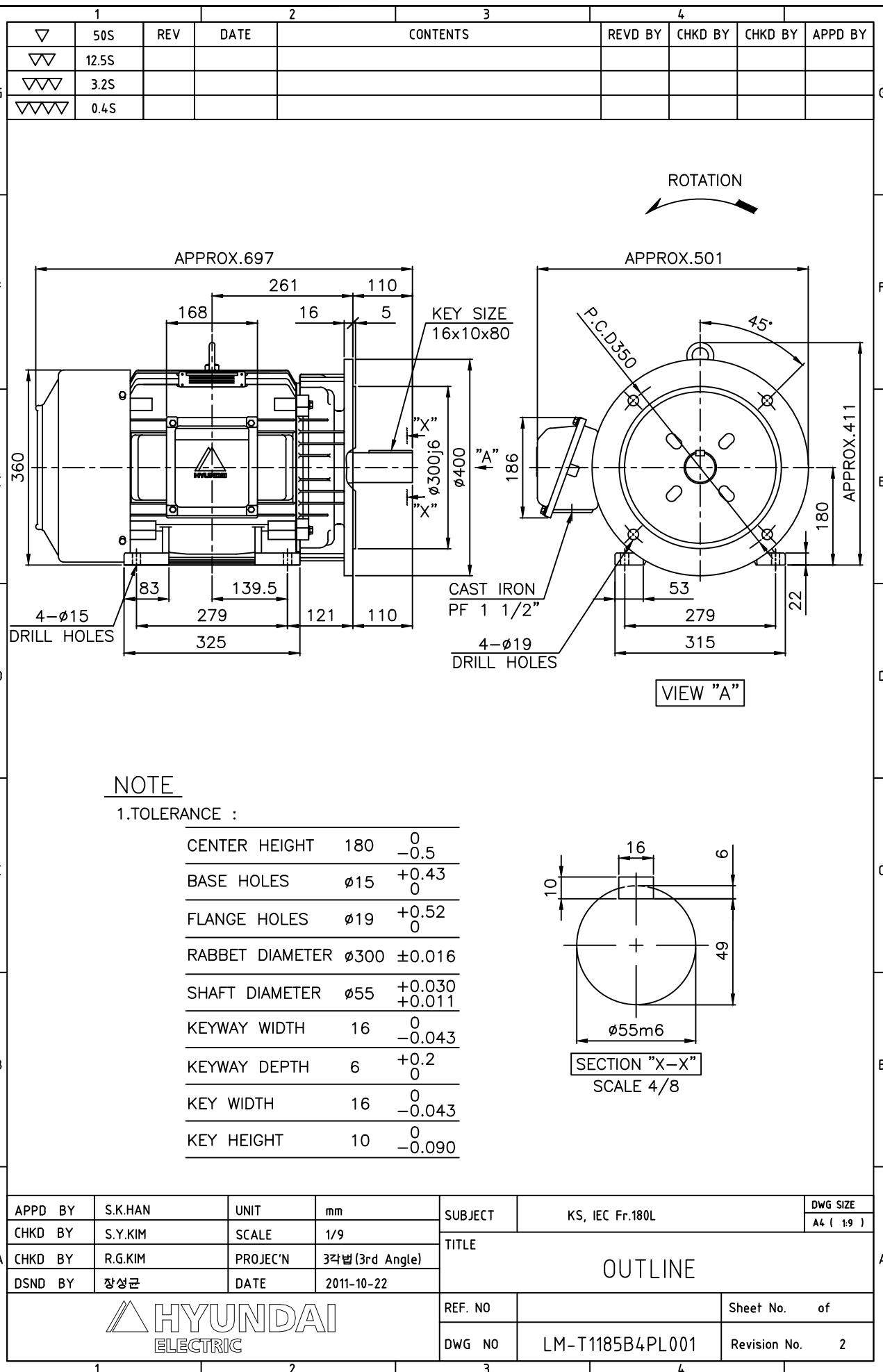
18.5 kW	6 P	60 Hz
Speed at Full Load : 1175 RPM		
Rated Voltage	380V	
Full Load Current	38.9A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

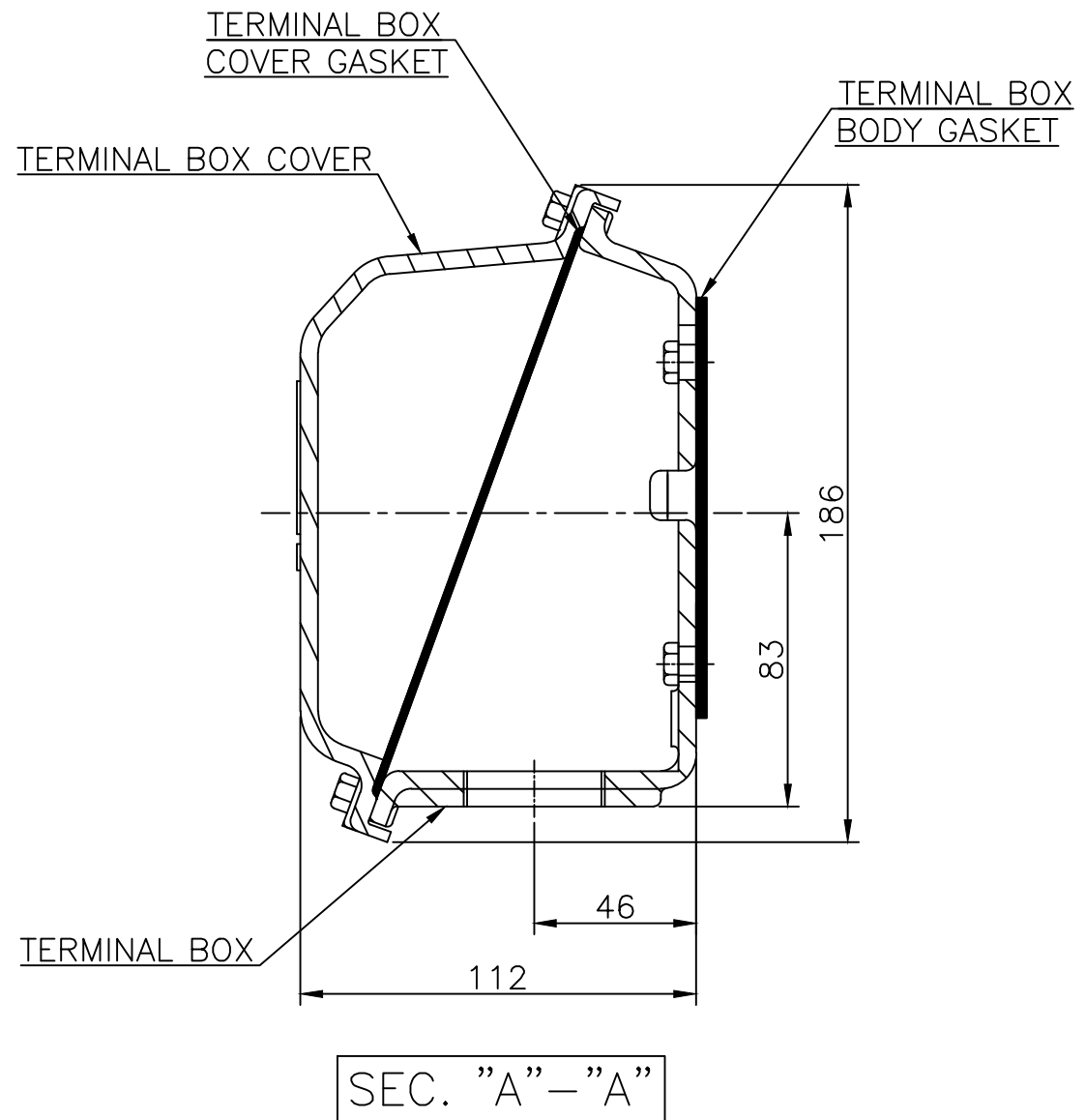
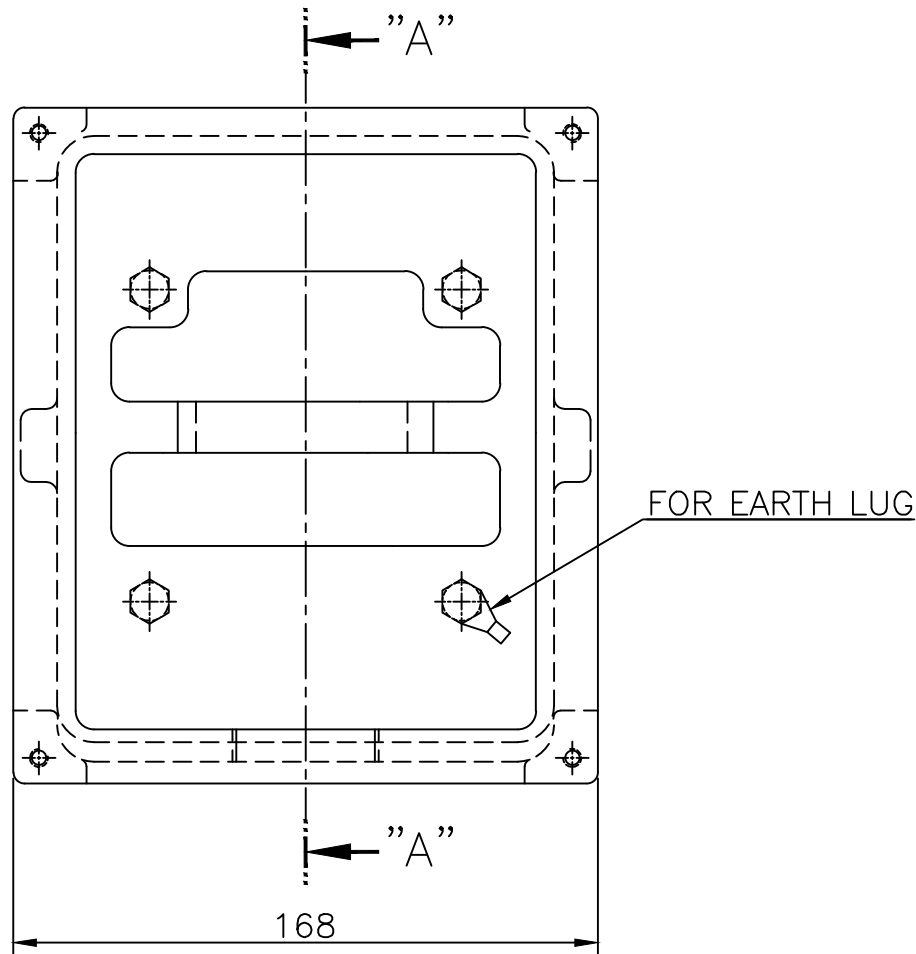




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HYUNDAI
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▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

일반가공공차		일반재관공차	
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

Q'TY	DESCRIPTION		MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.K.HAN		UNIT	mm	SUBJECT	FR.160~180 (CAST IRON)	DWG SIZE	
CHKD BY	S.Y.KIM		SCALE	1/2			A3 (1:2)	
CHKD BY	R.G.KIM		PROJEC'N	3각법 (3rd Angle)	TITLE 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
6			7		8		9	