

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No. [0]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	200LL		Rated Output	45 kW 60 HP			
Type	HLP-45/2		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 70.1 A 81.2 A 140.2 A			
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	800 % 800 % 800 %			
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 92.1 %				
Motor Location	☒ Indoor ☐ Outdoor		75% Load 93.6 %				
Altitude	Less than 1000 meter		100% Load 93.6 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.865				
Duty Type	Continuous (S1)		75% Load 0.890				
Service Factor	1.15		100% Load 0.900				
Mounting	☐ B3 ☐ B5 ☒ V1 ☐ B3/B5		Speed at Full Load 3560 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6212ZC3 / 6211ZC3	Full Load 12.3 kg·m				
	Lubricant	Grease(Gadus S2 V 100 2)	Locked-rotor** 150 %				
External Thrust	Not applicable		Breakdown** 200 %				
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.) 4.800 kg·m²				
Terminal	Main	☐ Steel ☒ Cast Iron	Motor 0.208 kg·m²				
Box	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	87 dB(A)				
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification	Non-Hazardous		Permissible number of				
Type of Ex-Protection	Not applicable		consecutive starts Cold 3 times				
Applicable Standard	KS,IEC, NEMA MG1 Part30(Vpeak)		Hot 2 times				
			Paint	Munsell No.	4.4PB5.5/5.6(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		LM-T1207B3CL001	320 kg	
			B5		LM-T1207B5CL001	330 kg	
			V1		LM-T1207V1CL001	330 kg	
			B3/B5		LM-T1207B4CL001	330 kg	
			Main T-Box Ass'y			3M-145864	
SPARE PARTS			REMARK				
			Premium Efficiency				
			*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
			Date	DSND	CHKD	CHKD	APPD
			2015-09-05	R.G. KIM	-	O.J. KIM	S.H. GO

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.

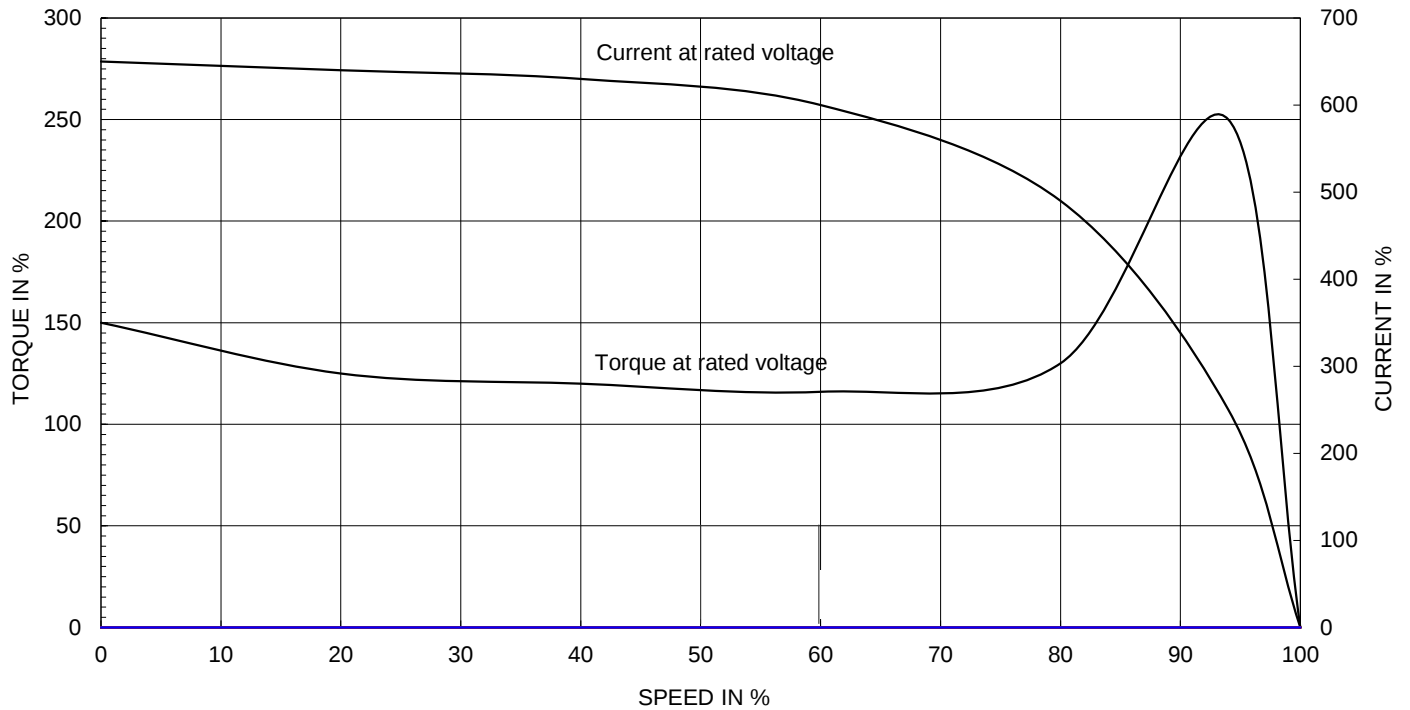
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

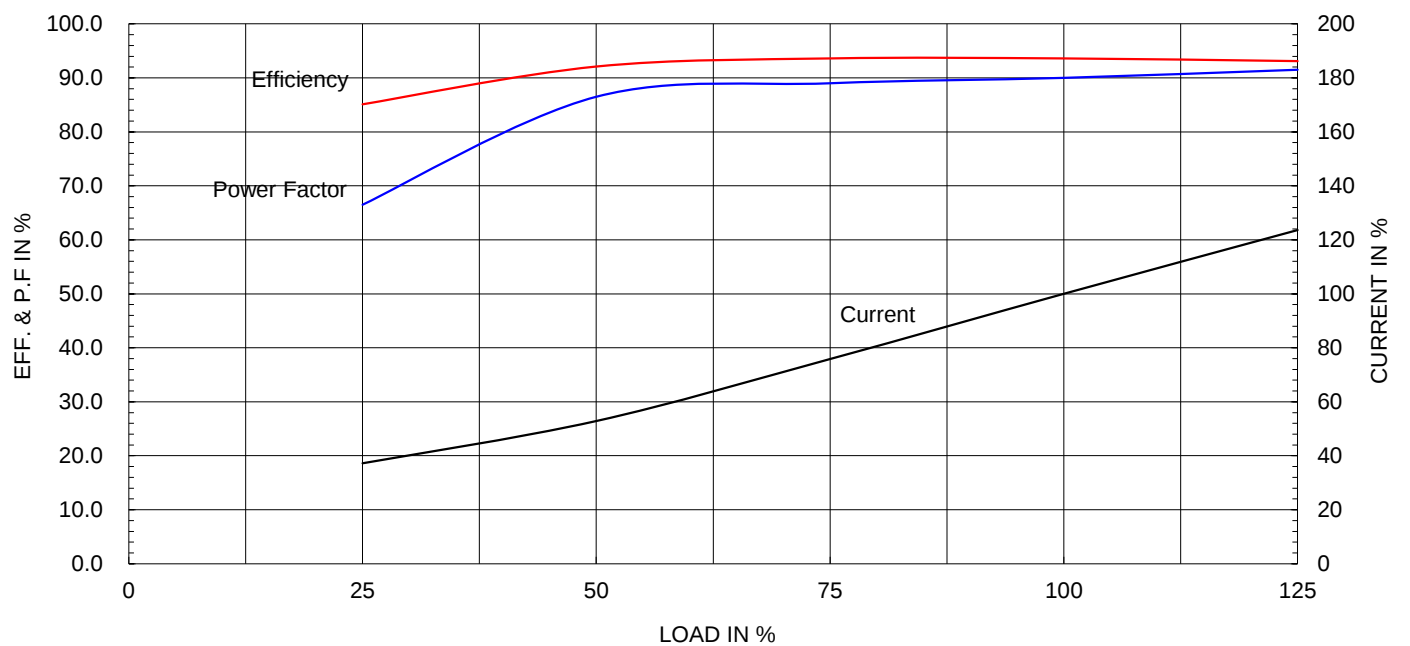
Type :	HLP-45/2	
Full Load Torque :	12.3	kg.m
Motor moment of Inertia (J) :	0.208	kg.m ²
Load moment of Inertia (J) :	4.800	kg.m ²

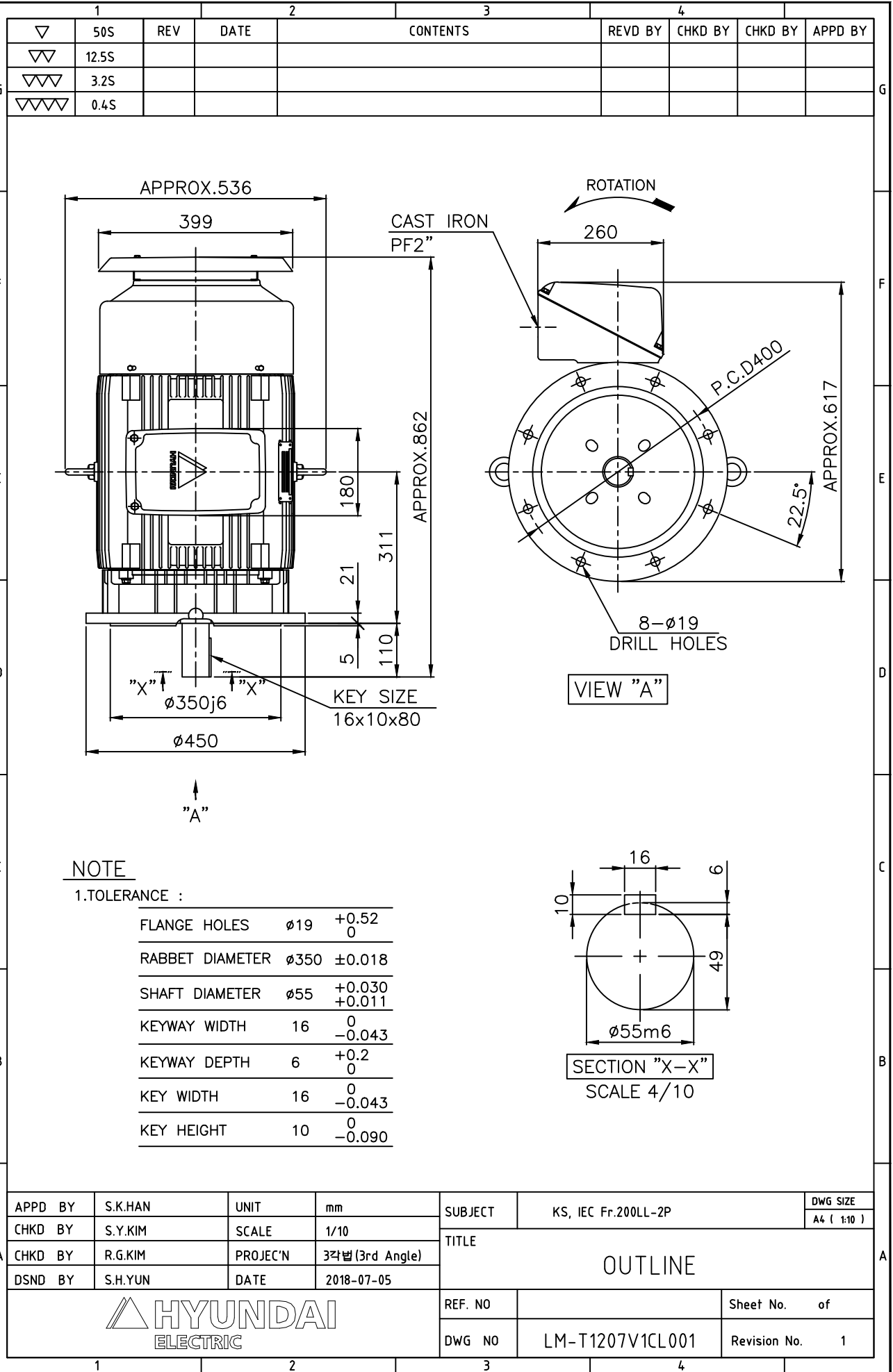
45 kW	2 P	60 Hz
Speed at Full Load : 3560 RPM		
Rated Voltage	220V	
Full Load Current	140.2A	

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

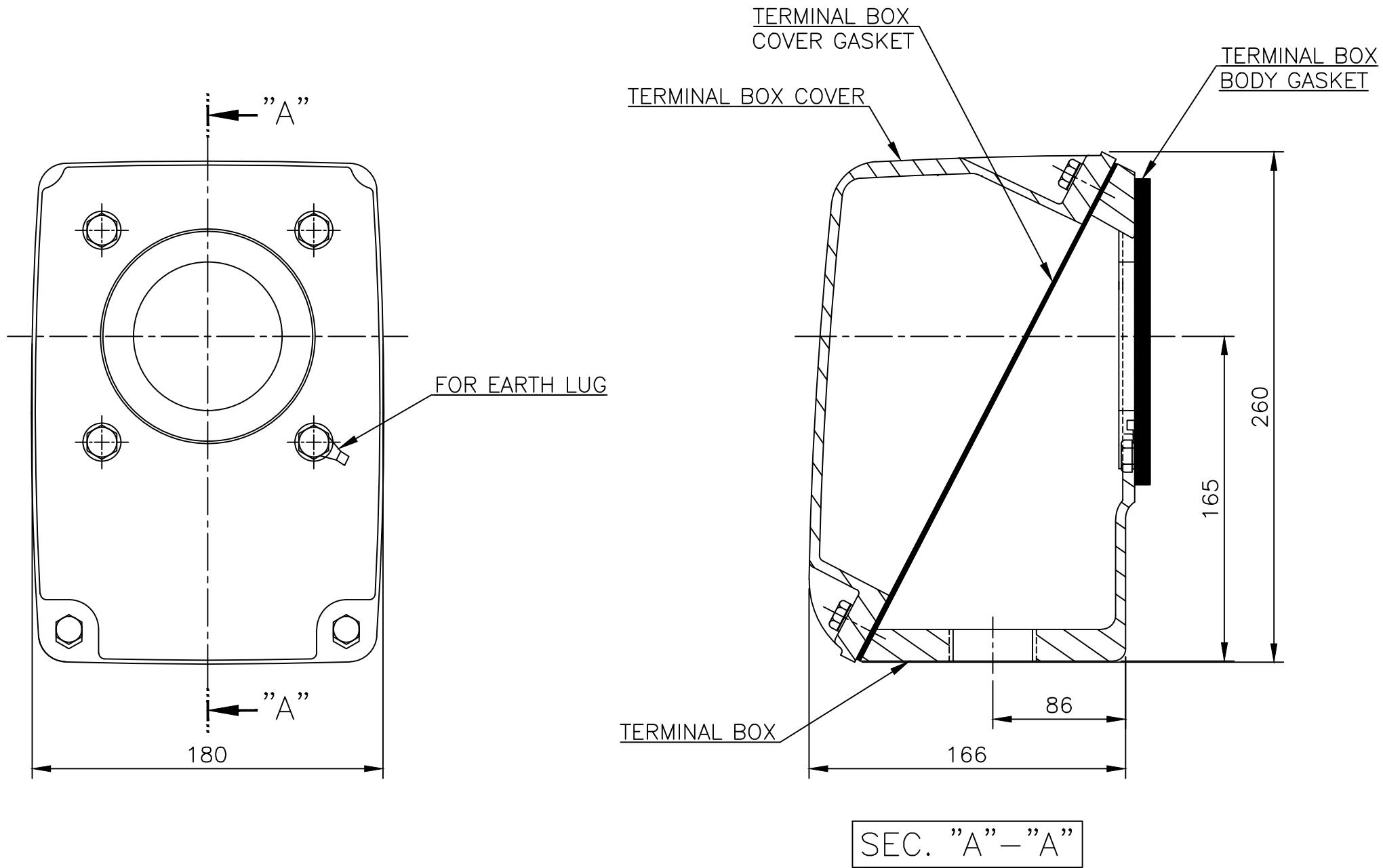




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허가없이 복사할 수 없음 (취급주의)

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

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY	일반기공차	일반재공차
							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.200 (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	227B8003CB5	Sheet No.	of
HYUNDAI ELECTRIC				DWG NO	3M-145864	Revision No.	2