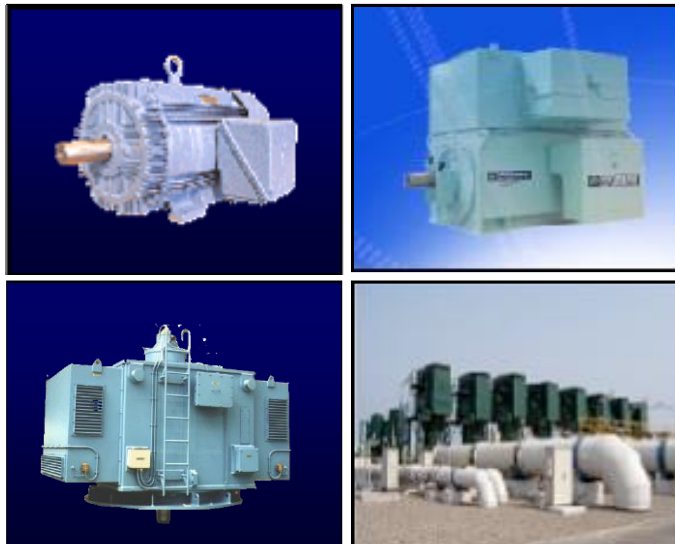


Customer :
Project Name :
Project No. :
Revision No. :

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.		3806KSTD40SSDS1STFE3B31DL0SDS		Item No.		Rev. No.		[]					
Project Name				Project No.		Quantity							
GENERAL SPECIFICATION				PERFORMANCE DATA									
Frame Size		112M		Rated Output		3.7 kW		5 HP					
Type		HKP-3.7/2		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		380 V							
Number of Phases		3		Current		Full Load		7.4 A					
Insulation Class		☒ F ☐ B ☐ H				Locked-rotor**		915 %					
Temp. Rise at full load (by resistance method)				Efficiency									
at 1.0 S.F		80 deg. C				50% Load		79.8 %					
Motor Location		☒ Indoor ☐ Outdoor				75% Load		87.4 %					
Altitude		Less than 1000				100% Load		88.5 %					
Relative Humidity		Less than 80 %		Power Factor(p.u)									
Ambient Temp.		40 deg. C (Max.)				50% Load		0.750					
Duty Type		Continuous(S1)				75% Load		0.825					
Service Factor		1.15				100% Load		0.860					
Mounting		☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load		3515 r.p.m							
Bearing		Type		Anti-Friction		Torque							
		DE/N-DE		6206ZZC3 / 6206ZZC3		Full Load		1.0 kg·m					
		Lubricant		Grease(Polyrex-EM)		Locked-rotor**		190 %					
External Thrust		Not applicable				Breakdown**		260 %					
Coupling Method		☒ Direct ☐ V-Belt		Moment of Inertia (J)									
Shaft Extension		☒ Single ☐ Double				Load(Max.)		0.800 kg·m²					
Terminal Box		Main		☐ Steel ☒ Cast Iron		Motor		0.007 kg·m²					
		Aux.		☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)							
		Location		Refer to Outline Drawing				73 dB(A)					
Application				Vibration		1.6 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		LM-T0113B3PL001		48 kg					
				Main T-Box Ass'y		3M-148549							
				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		APPD	
				2018-04-25		R.G. KIM		-		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.

HEES W230-131-1

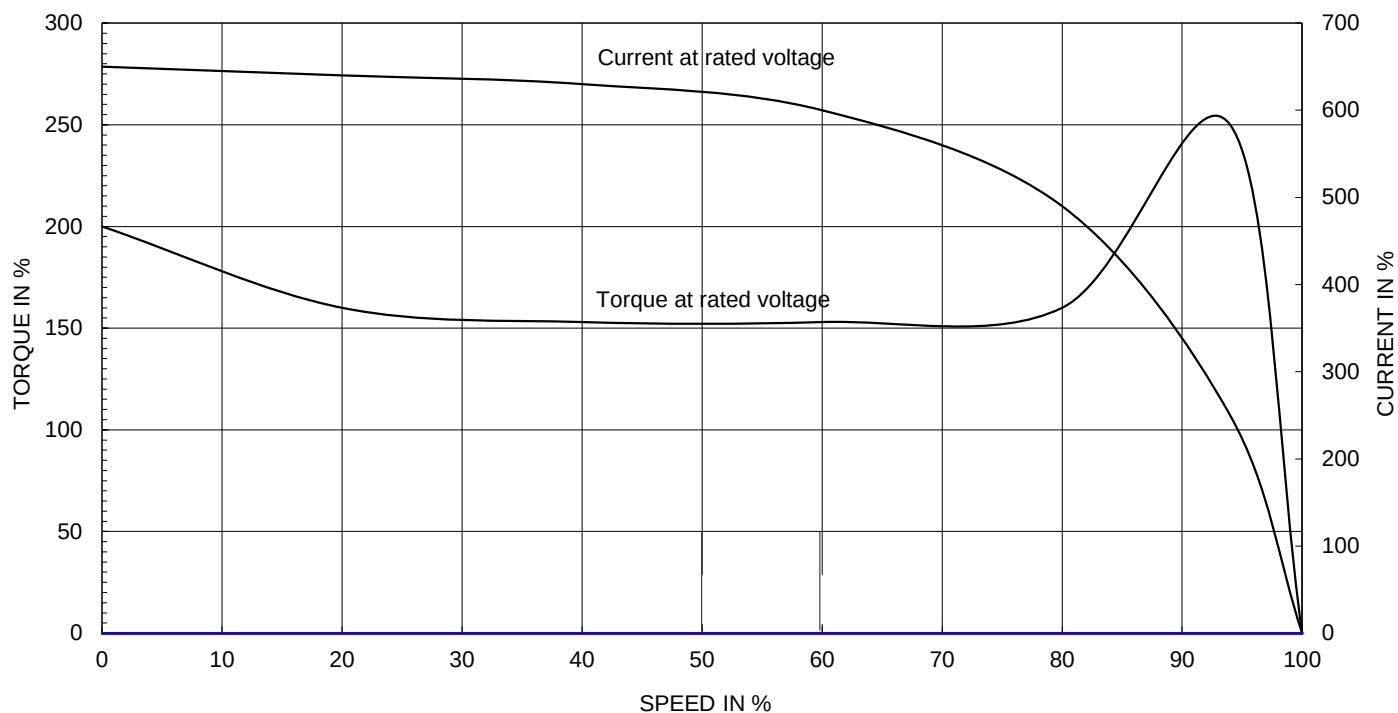
* In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests.

A4(210mm X 297mm)

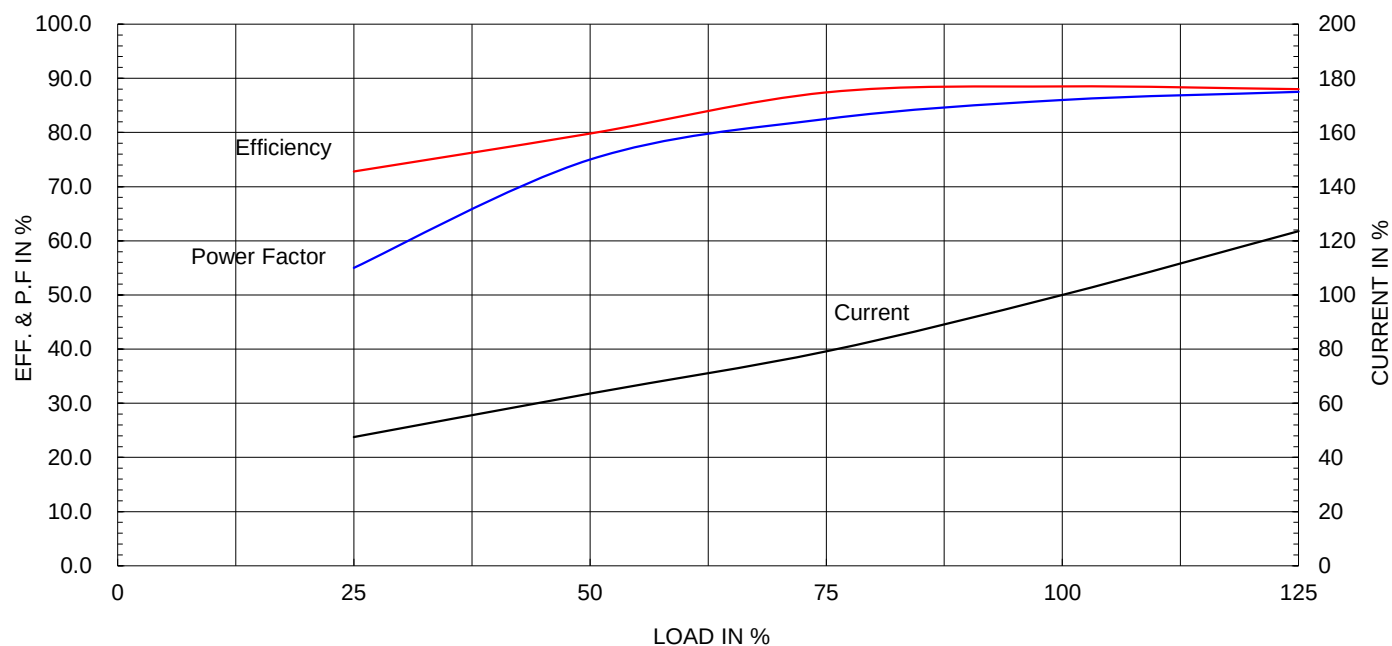
Type :	HKP-3.7/2	
Full Load Torque :	1.0	kg.m
Motor moment of Inertia (J) :	0.007	kg.m ²
Load moment of Inertia (J) :	0.800	kg.m ²

3.7 kW	2 P	60 Hz
Speed at Full Load : 3515 RPM		
Rated Voltage	380V	
Full Load Current	7.4A	

SPEED VS TORQUE & CURRENT CURVE



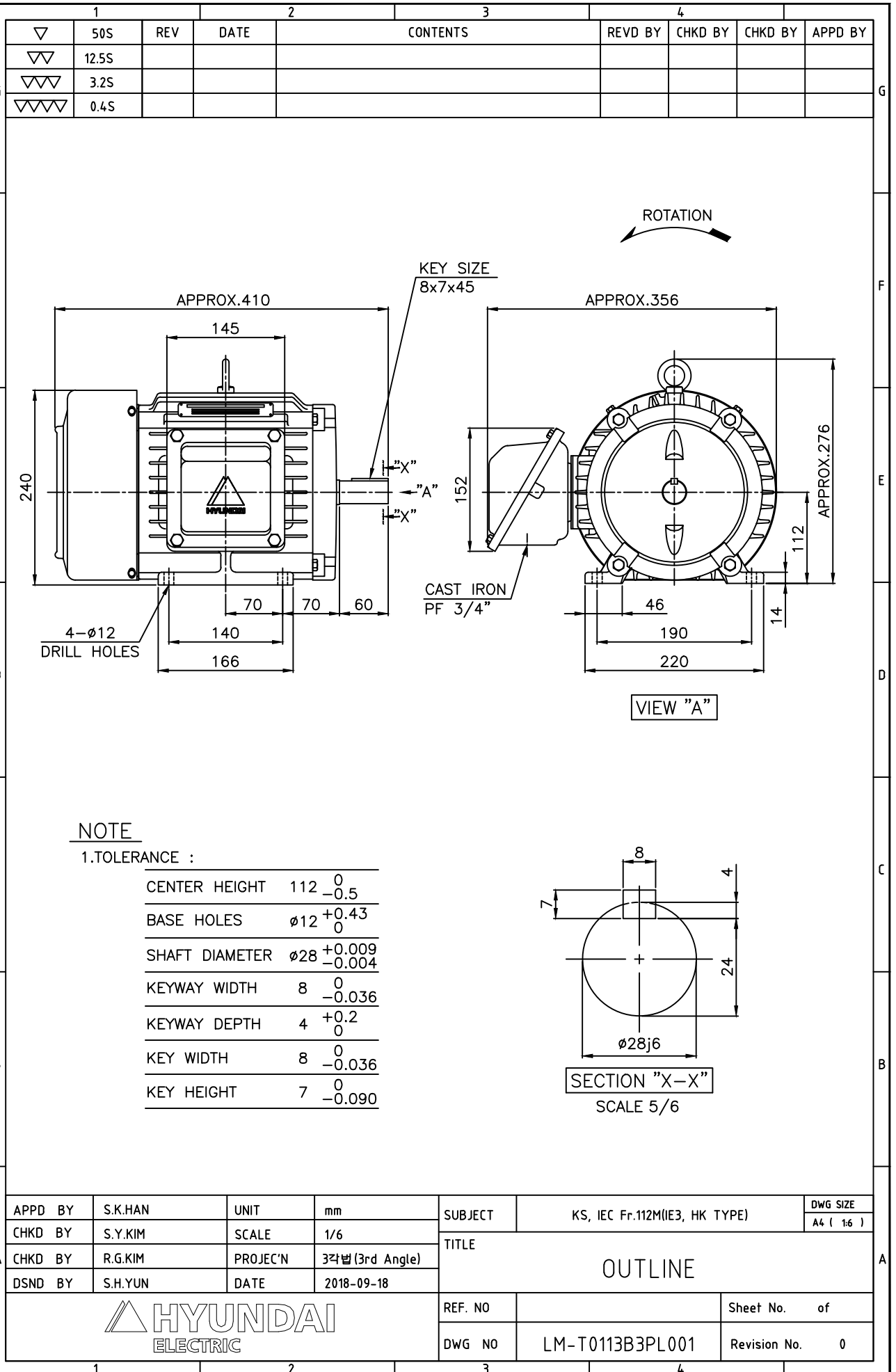
OUTPUT VS EFF., P.F & CURRENT CURVE

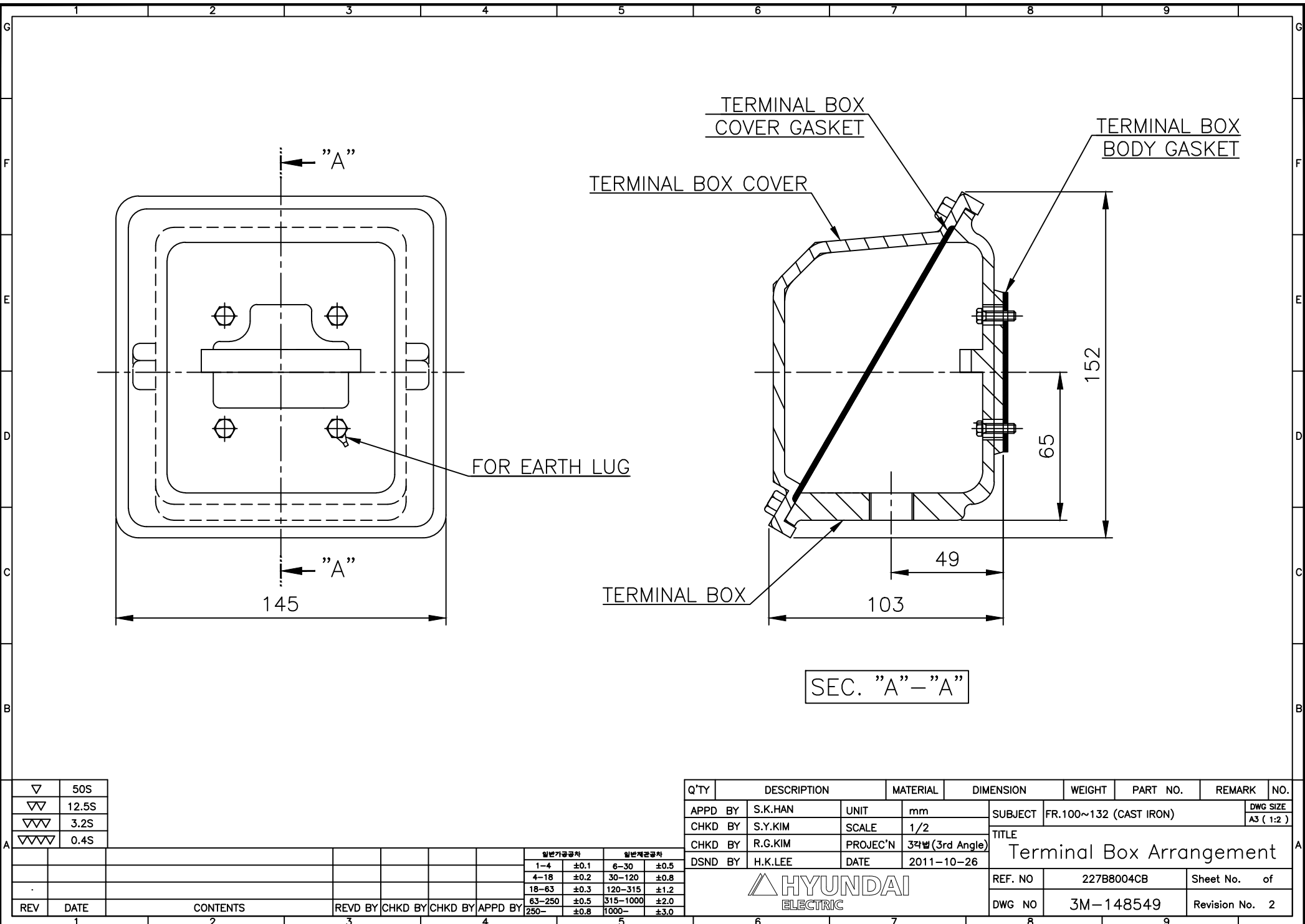


THIS DRAWING IS PROPRIETARY TO HYUNDAI ELECTRIC. NO PART OF THIS DRAWING
MAYBE REPRODUCED WITHOUT THE PERMISSION OF HYUNDAI ELECTRIC.

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

HYUNDAI
ELECTRIC





▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

일반가공공차		일반재공공차	
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.100~132 (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				
DSND	BY	H.K.LEE		DATE	2011-10-26		Terminal Box Arrangement				
							REF. NO	227B8004CB		Sheet No.	of
							DWG NO	3M-148549		Revision No.	2
6		7			8		9				