

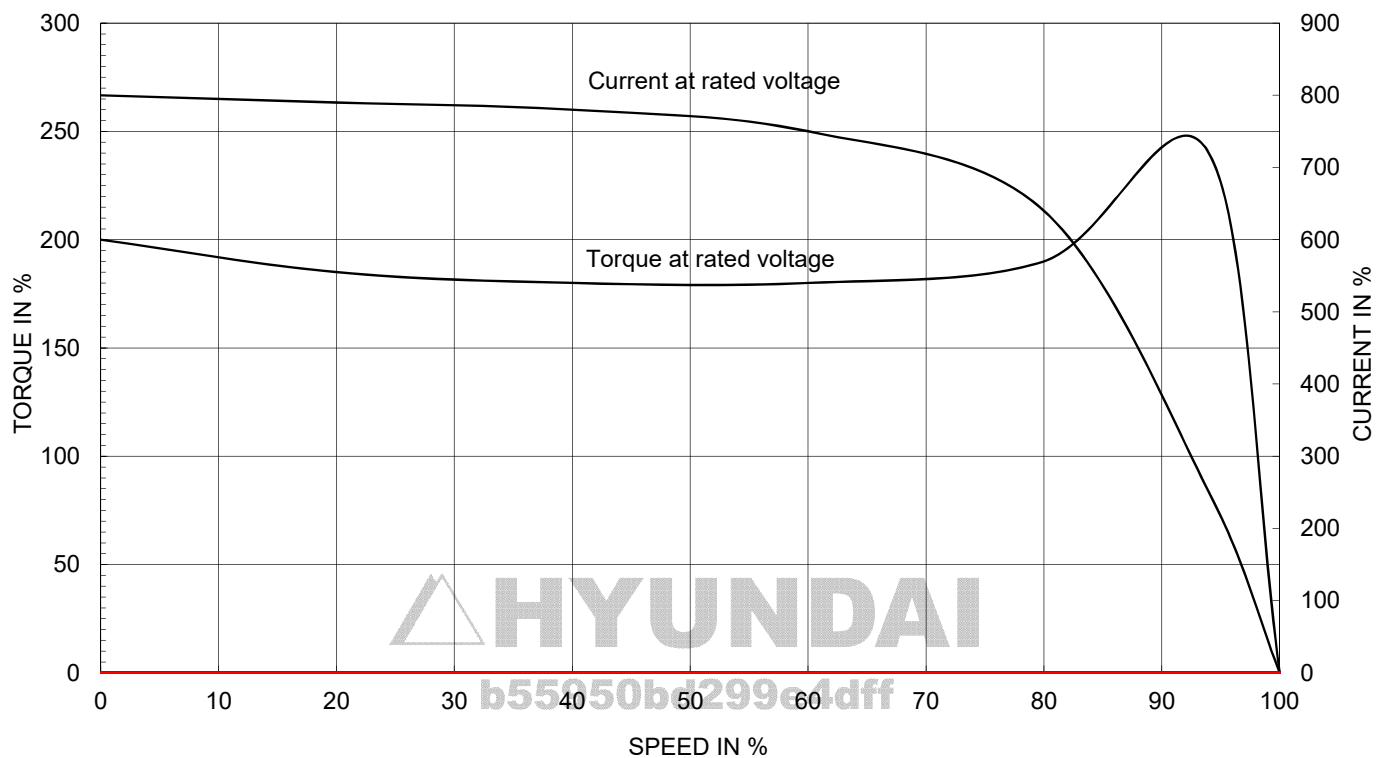
# AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No.		[ 0 ]		
Project Name		Project No.		Quantity		set		
<b>GENERAL SPECIFICATION</b>				<b>PERFORMANCE DATA</b>				
Frame Size		112M		Rated Output		3.7 kW 5 HP		
Type		HKP-3.7/4		Number of Poles		4		
Enclosure(Protection)		Totally Enclosed ( IP55 )		Rotor Type		Squirrel Cage		
Method of Cooling		IC411(FC)		Starting Method*		<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-Δ		
Rated Frequency		60 Hz		Rated Voltage		440 V 380 V 220 V		
Number of Phases		3		Current		Full Load 6.8 A 7.9 A 13.6 A		
Insulation Class		<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**		800 % 800 % 800 %		
Temp. Rise at full load (by resistance method)		at 1.0 S.F 80 °C		Efficiency		50% Load 89.5 %		
Motor Location		<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor				75% Load 90.0 %		
Altitude		Less than 1000m				100% Load 89.5 %		
Relative Humidity		Less than 80 %		Power Factor(p.u)		50% Load 0.670		
Ambient Temp.		40 °C MAX.				75% Load 0.760		
Duty Type		Continuous(S1)				100% Load 0.800		
Service Factor		1.15		Speed at Full Load		1760 r.p.m		
Mounting		<input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		Torque		Full Load 2.0 kg.m		
Bearing		Type Anti-Friction				Locked-rotor** 200 %		
		DE/N-DE 6206ZZC3 / 6206ZZC3				Breakdown** 240 %		
		Lubricant Grease(Polyrex-EM)		Moment of Inertia (J)		Load(Max.) 3.071420455 kg·m²		
External Thrust		Not applicable				Motor 0.013 kg·m²		
Coupling Method		<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Sound Pressure Level (No-load & mean value at 1m from motor)		64 dB(A)		
Shaft Extension		<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Vibration		1.6 mm/sec(r.m.s)		
Terminal Box		Main <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Permissible number of consecutive starts		Cold 3 times		
		Aux. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Hot 2 times		
		Location Refer to Outline Drawing		Paint		Munsell No. Panton279C		
Application								
Area classification		Non-Hazardous						
Type of Ex-Protection		Not applicable						
Applicable Standard		KS, IEC, NEMA MG1 Part30(Vpeak)						
<b>ACCESSORIES</b>				<b>SUBMITTAL DRAWING</b>				
				Outline Dimension Drawing \ Motor Weight(Approx.)				
				B3			kg	
				B5		LM-T1113B5PLV01	48 kg	
				V1			kg	
				B3/B5			kg	
				Main T-Box Ass'y		3M-148549		
				<b>REMARK</b>				
				*.Premium Efficiency(IE3)				
				*.For use on PWM VFD 10:1VT,3:1CT@ 1.0S.F&F Temp.rise				
<b>SPARE PARTS</b>								
				Date	DSND	CHKD	CHKD	APPD
				2018-11-23	R.G. KIM	---	O.J. KIM	S.K.HAN

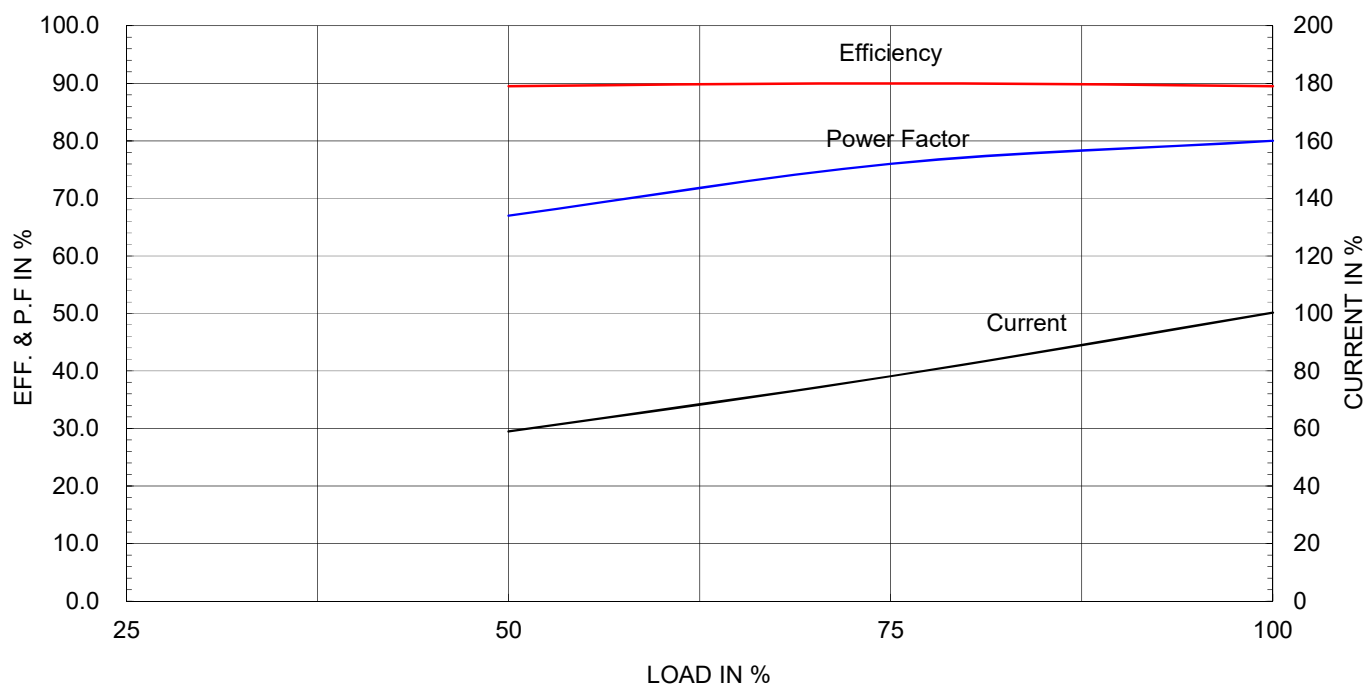
Type :	HKP-3.7/4
Full Load Torque :	2.0 Kg-m
Load moment of Inertia (J) :	3.071 Kg-m <sup>2</sup>
Motor moment of Inertia (J) :	0.013 Kg-m <sup>2</sup>

3.7kW	5HP	4P	60 Hz
Speed at Full Load : 1760 RPM			
Rated Voltage	440V	380V	220V
Full Load Current	6.8A	7.9A	13.6A

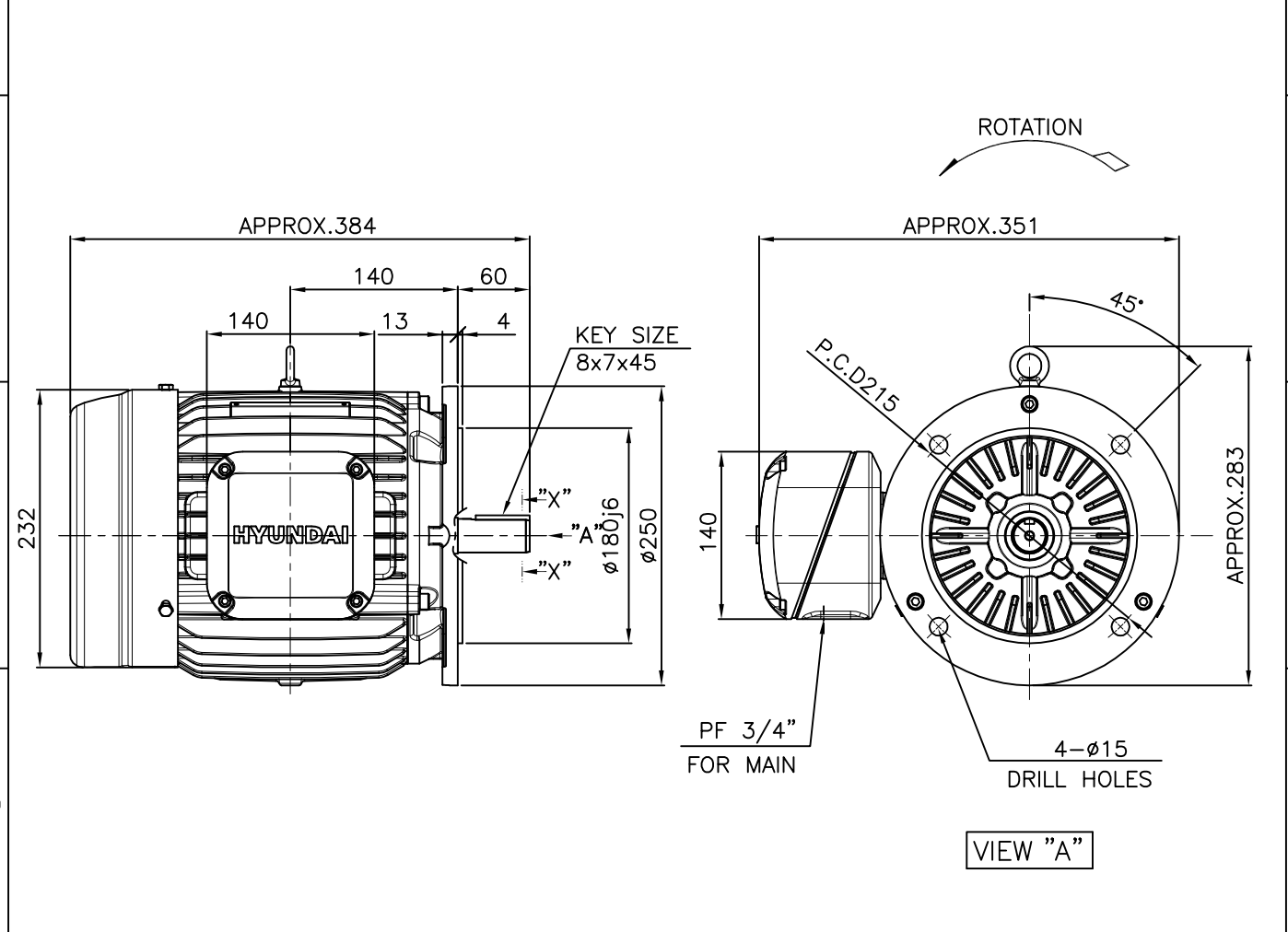
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



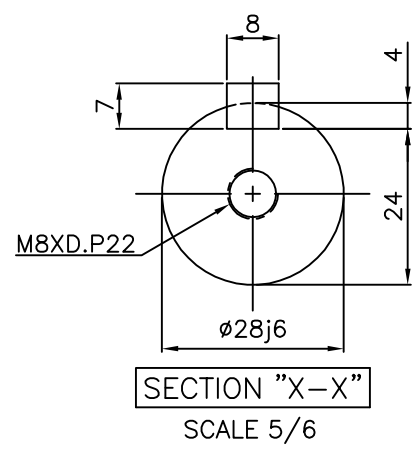
1			2		3		4		
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



# NOTE

1.TOLERANCE :

FLANGE HOLE	ø15	$+0.43$ $0$
RABBET DIAMETER	ø180	$+0.014$ $-0.011$
SHAFT DIAMETER	ø28	$+0.009$ $-0.004$
KEYWAY WIDTH	8	$0$ $-0.036$
KEYWAY DEPTH	4	$+0.2$ $0$
KEY WIDTH	8	$0$ $-0.036$
KEY HEIGHT	7	$0$ $-0.090$

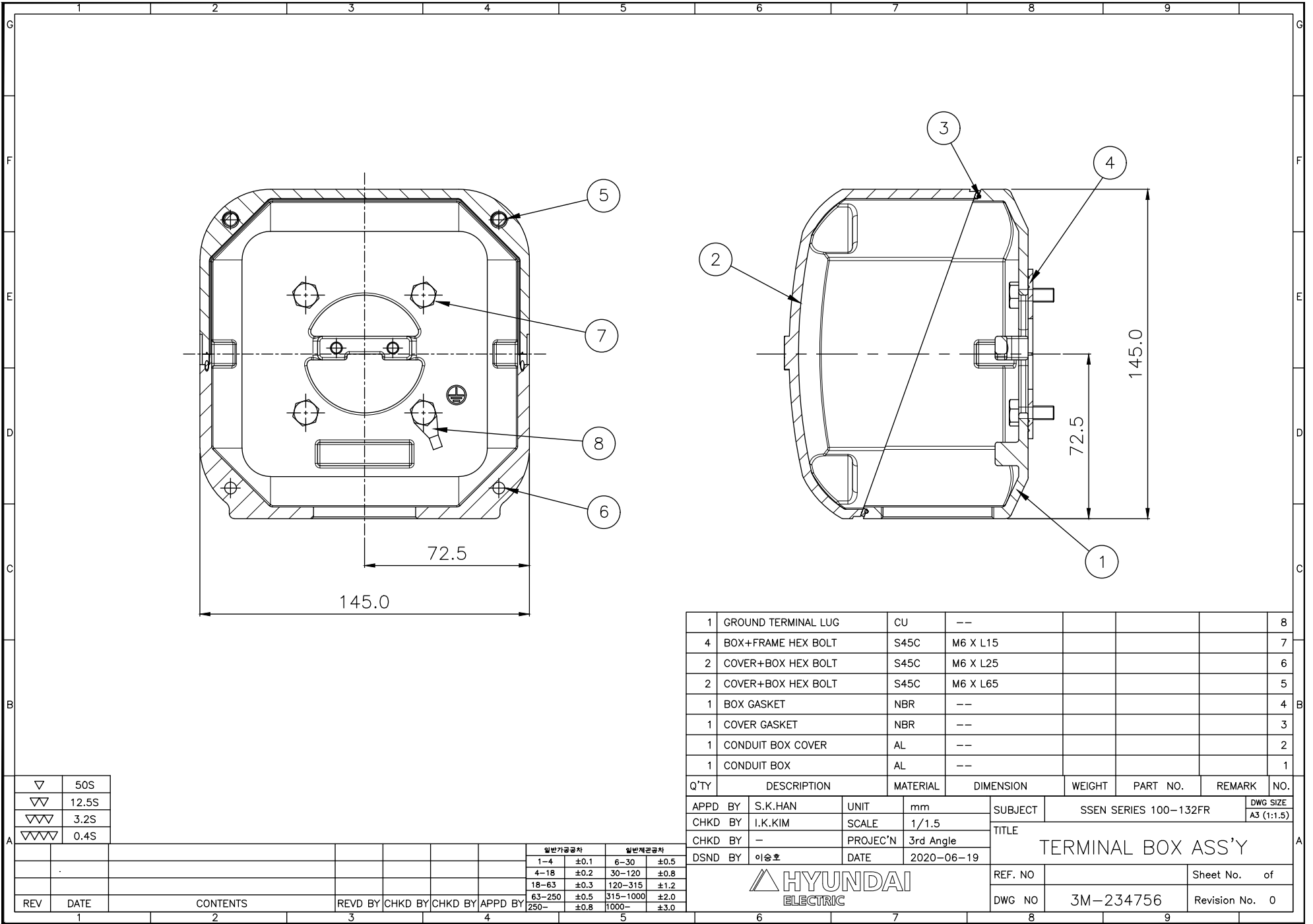


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS Fr.112M	DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/6	TITLE		A4 ( 16 )
CHKD BY	S.H.LEE	PROJEC'N	3각법 (3rd Angle)			
DSND BY	S.R.KIM	DATE	2020.06.19			
				REF. NO	Sheet No. of	
				DWG NO	LM-T1113B5PLV01	Revision No. 0

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

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


HYUNDAI  
ELECTRIC



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						

일반가공공차		일반계관공차	
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

1	GROUND TERMINAL LUG	CU	--					8
4	BOX+FRAME HEX BOLT	S45C	M6 X L15					7
2	COVER+BOX HEX BOLT	S45C	M6 X L25					6
2	COVER+BOX HEX BOLT	S45C	M6 X L65					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 100-132FR		DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/1.5		TITLE TERMINAL BOX ASS'Y			
CHKD BY	-	PROJEC'N	3rd Angle					
DSND BY	이승호	DATE	2020-06-19					
					REF. NO	Sheet No.		of
					DWG NO	3M-234756		Revision No. 0
6		7		8		9		

B

A