

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

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# SPECIFICATION for INDUCTION MOTOR



0		For Bidding			
No.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

# AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No. [      ]			
Project Name		Project No.		Quantity      sets			
<b>GENERAL SPECIFICATION</b>			<b>PERFORMANCE DATA</b>				
Frame Size	160L		Rated Output	15 kW      20.0 HP			
Type	HLP-15/4		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	220 V			
Number of Phases	3		Current	Full Load	51.9 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	850 %			
Temp. Rise at full load (by resistance method)	at 1.0 S.F      80 deg. C		Efficiency				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor						
Altitude	Less than 1000 meter		100% Load	93.0 %			
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)						
Duty Type	Continuous (S1)		100% Load	0.815			
Service Factor	1.15		Speed at Full Load	1775 r.p.m			
Mounting	B3		Torque				
Bearing	Type	Anti-Friction	Full Load	8.2 kg·m      80.7			
	DE/N-DE	6309ZZC3 / 6309ZZC3	Locked-rotor**	200 %      16.5 kg·m			
	Lubricant	Grease	Breakdown**	240 %      19.8 kg·m			
External Thrust	Not applicable		Moment of Inertia (J)				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Load(Max.)	12.346 kg·m <sup>2</sup>			
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Motor	0.111 kg·m <sup>2</sup>			
Terminal	Main	<input checked="" type="checkbox"/> Aluminum <input type="checkbox"/> Cast Iron	Sound Pressure Level (No-load & mean value at 1m from motor)	70 dB(A)			
Box	Aux.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Vibration	2.2 mm/sec (peak)			
	Location	Refer to Outline Drawing	Permissible number of consecutive starts	Cold 19 times Hot 13 times			
Application			Paint	Munsell No.	PHANTONE 279C		
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      LM-T1165B3PLV01      136 kg				
			<b>REMARK</b>				
			*. Premium efficiency(IE3) acc. to KS C 4202				
			*. SSEN Series				
			*. For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise				
<b>SPARE PARTS</b>			<div style="border: 2px solid red; padding: 10px; text-align: center; font-size: 2em; color: red;">FOR BIDDING</div>				
			Date	DSND	CHKD	CHKD	APPD
			2021-04-29				

Type : HLP-15/4

Full Load Torque : 8.2 kg.m

Load moment of Inertia (J) : - kg.m<sup>2</sup>

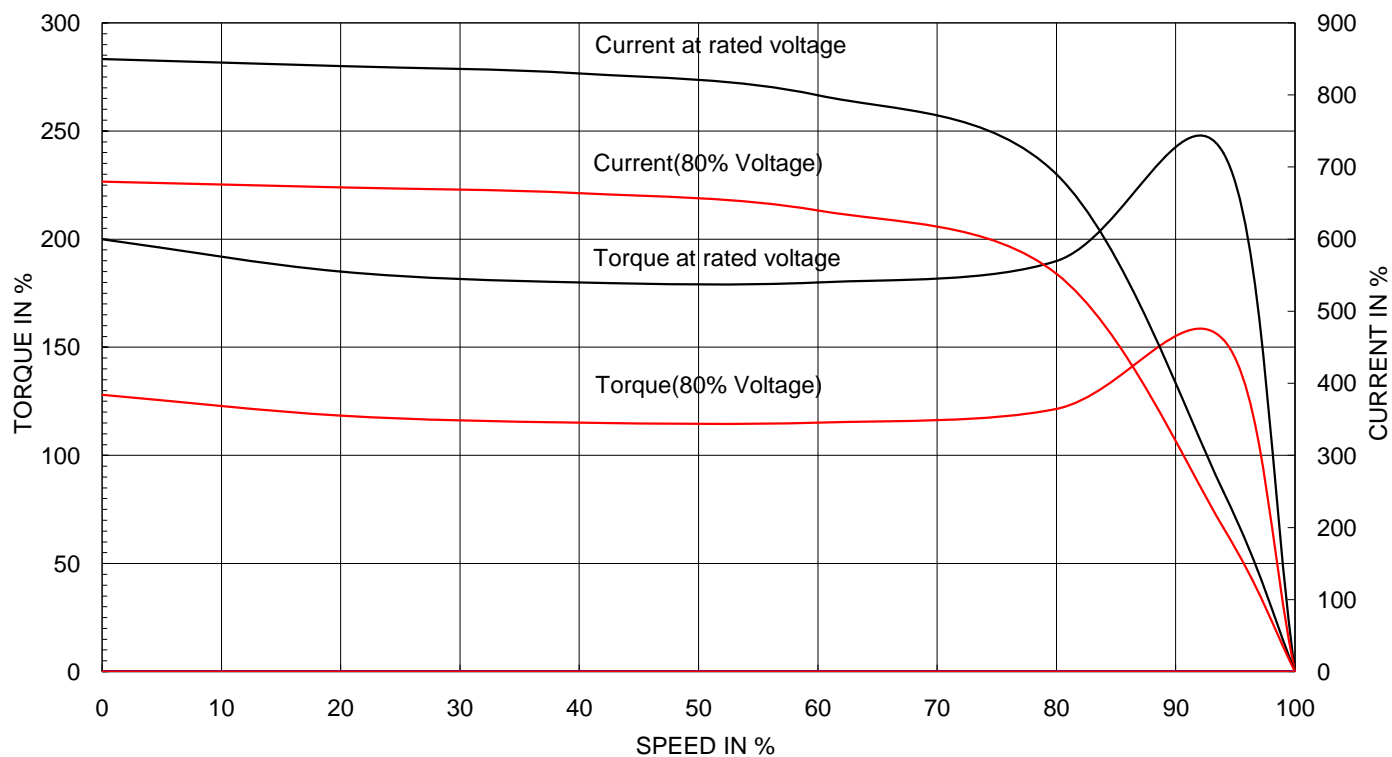
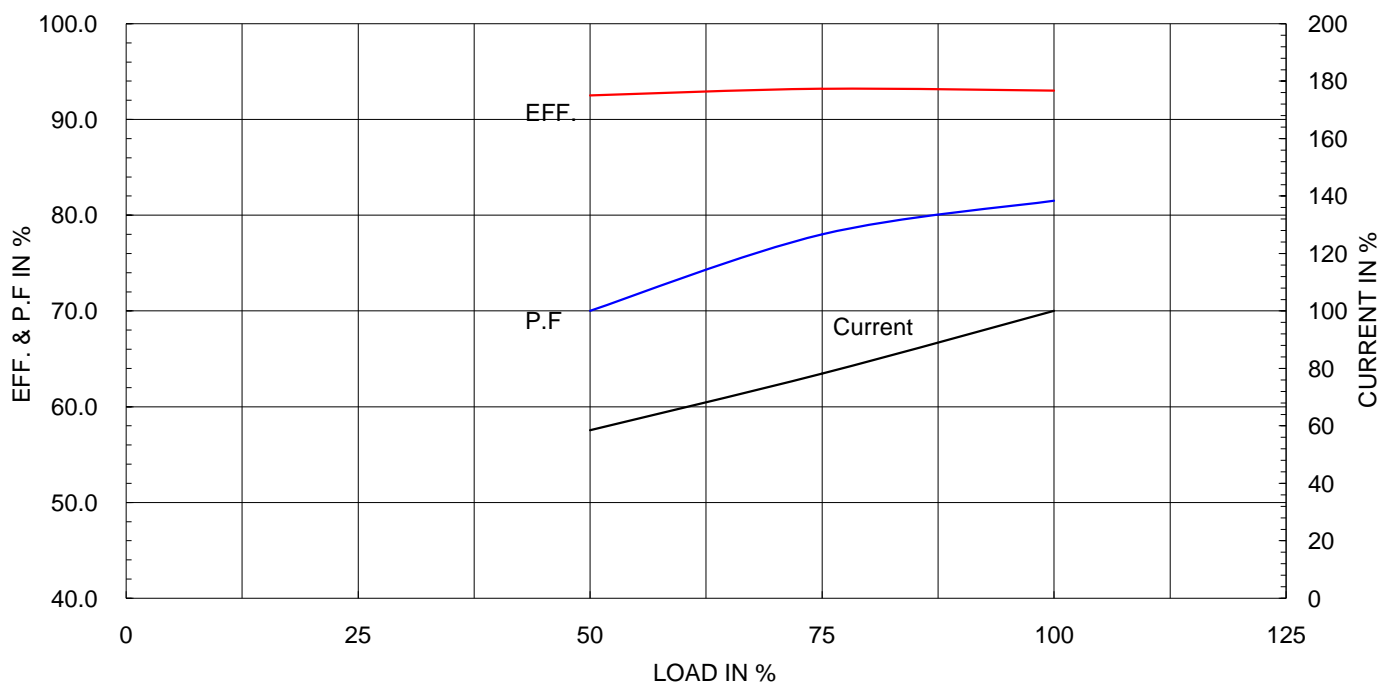
Motor moment of Inertia (J) : 0.111 kg.m<sup>2</sup>

15 kW 4 P 60 Hz

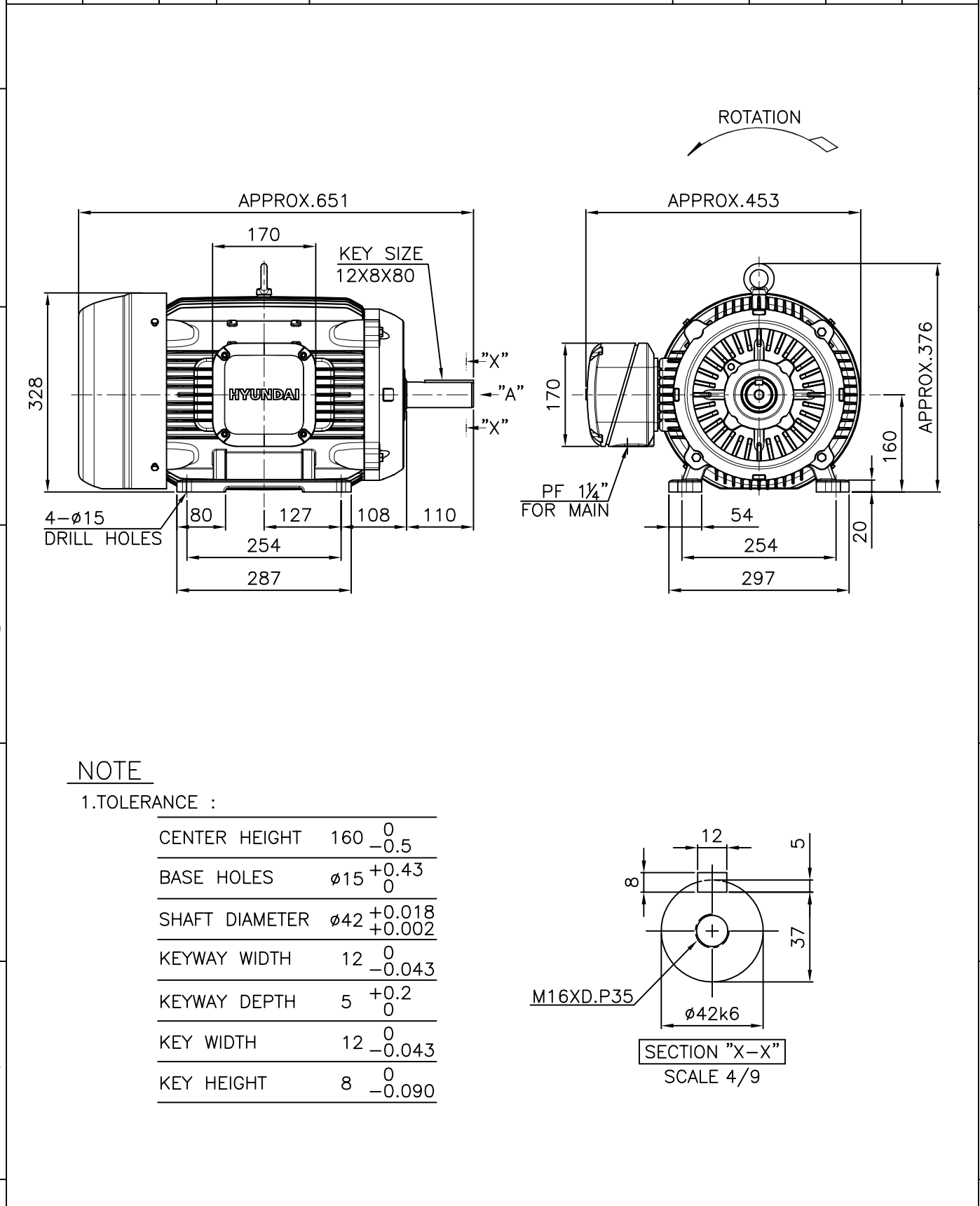
Speed at Full Load : 1775 RPM

Rated Voltage 220

Full Load Current 51.9A

**SPEED VS TORQUE & CURRENT CURVE**

**OUTPUT VS EFF., P.F & CURRENT CURVE**


1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		

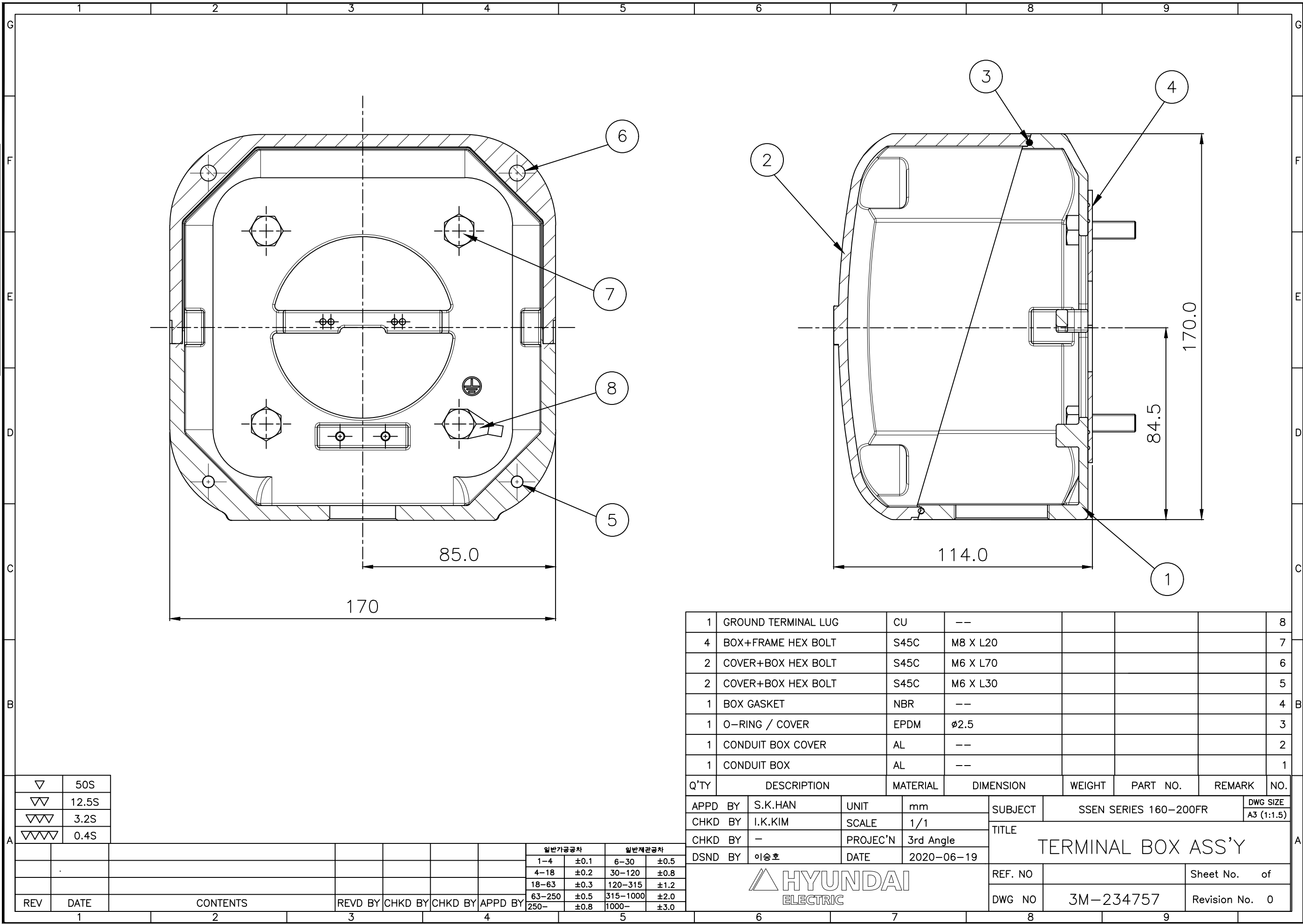


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.160L	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/9			A4 ( 1:9 )
CHKD BY	I.K.KIM	PROJEC'N	3각법 (3rd Angle)	TITLE	OUTLINE	
DSND BY	S.H.LEE	DATE	2019.06.17			
HYUNDAI ELECTRIC				REF. NO		Sheet No. of
				DWG NO	LM-T1165B3PLV01	Revision No. 0

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허가없이 복사할 수 없음 (취급유의)

HYUNDAI  
ELECTRIC



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY	일반기공차	일반제관공차
							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	M8 X L20					7
2	COVER+BOX HEX BOLT	S45C	M6 X L70					6
2	COVER+BOX HEX BOLT	S45C	M6 X L30					5
1	BOX GASKET	NBR	--					4
1	O-RING / COVER	EPDM	ø2.5					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 160-200FR			DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/1	TITLE TERMINAL BOX ASS'Y				A3 (1:1.5)
CHKD BY	-	PROJEC'N	3rd Angle					
DSND BY	이승호	DATE	2020-06-19					
				REF. NO				Sheet No. of
				DWG NO	3M-234757			Revision No. 0
6		7		8		9		