

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	180M		Rated Output	15 kW      20.0 HP			
Type	HLP-15/6		Number of Poles	6			
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	380 V			
Number of Phases	3		Current	Full Load	32.3 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	750 %			
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F      80 deg. C							
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor						
Altitude	Less than 1000 meter		100% Load      91.7 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)						
Duty Type	Continuous (S1)		100% Load      0.770				
Service Factor	1.15		Speed at Full Load      1175 r.p.m				
Mounting	B3		Torque				
Bearing	Type	Anti-Friction					
	DE/N-DE	6310ZZC3 / 6310ZZC3	Full Load	12.4 kg·m      121.9			
	Lubricant	Grease	Locked-rotor**	150 %      18.7 kg·m			
External Thrust	Not applicable		Breakdown**	230 %      28.6 kg·m			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.)      27.355 kg·m <sup>2</sup>				
Terminal	Main	<input checked="" type="checkbox"/> Aluminum <input type="checkbox"/> Cast Iron	Motor      0.257 kg·m <sup>2</sup>				
Box	Aux.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	65 dB(A)				
Application			Vibration      2.2 mm/sec (peak)				
Area classification	Non-Hazardous		Permissible number of				
Type of Ex-Protection	Not applicable		consecutive starts				
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)		Cold      20 times				
			Hot      15 times				
			Paint	Munsell No.	PHANTONE 279C		
<b>ACCESSORIES</b>			<b>SUBMITTAL DRAWING</b>				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3      LM-T1183B3PLV01      172 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: 20px; text-align: center; font-size: 2em; color: red;">FOR BIDDING</div>				
			Date	DSND	CHKD	CHKD	APPD
			2021-04-29				

Type : HLP-15/6

Full Load Torque : 12.4 kg.m

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

Motor moment of Inertia (J) : 0.257 kg.m<sup>2</sup>

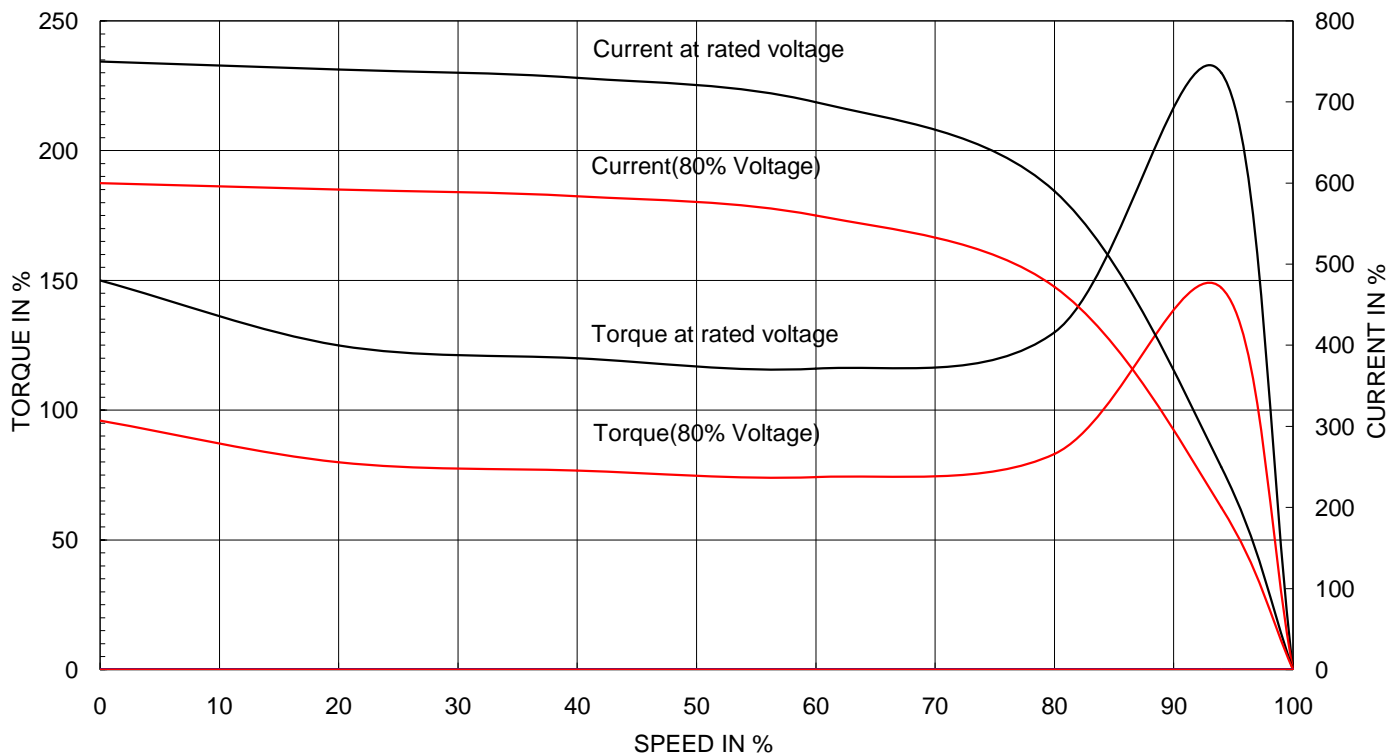
15 kW 6 P 60 Hz

Speed at Full Load : 1175 RPM

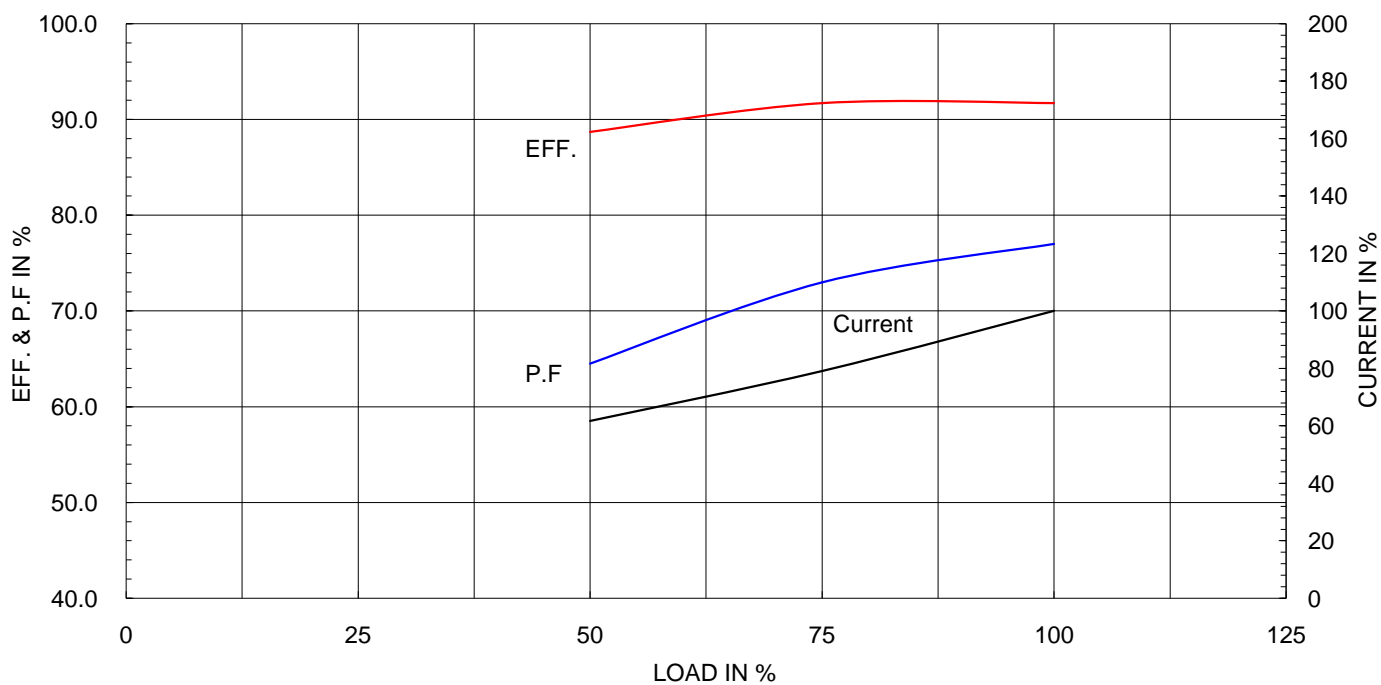
Rated Voltage 380

Full Load Current 32.3A

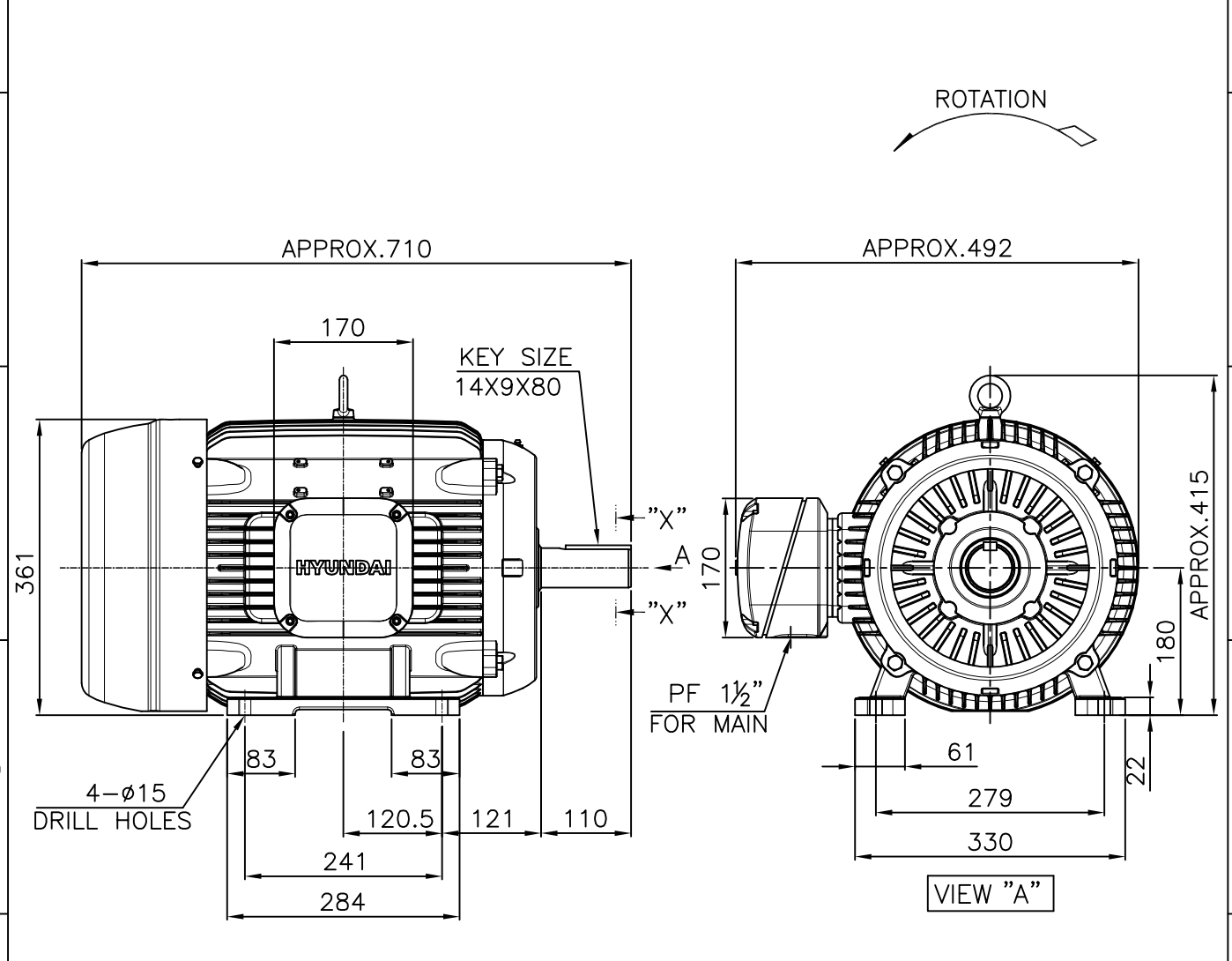
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



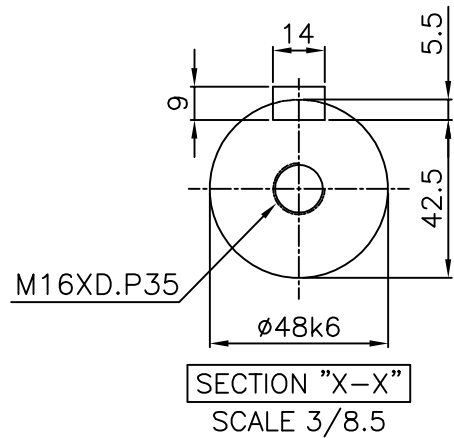
1			2		3		4		
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



NOTE

1.TOLERANCE :

CENTER HEIGHT	180	$0_{-0.5}$
BASE HOLES	Ø15	$+0.43_0$
SHAFT DIAMETER	Ø48	$+0.018_{+0.002}$
KEYWAY WIDTH	14	$0_{-0.043}$
KEYWAY DEPTH	5.5	$+0.2_0$
KEY WIDTH	14	$0_{-0.043}$
KEY HEIGHT	9	$0_{-0.090}$

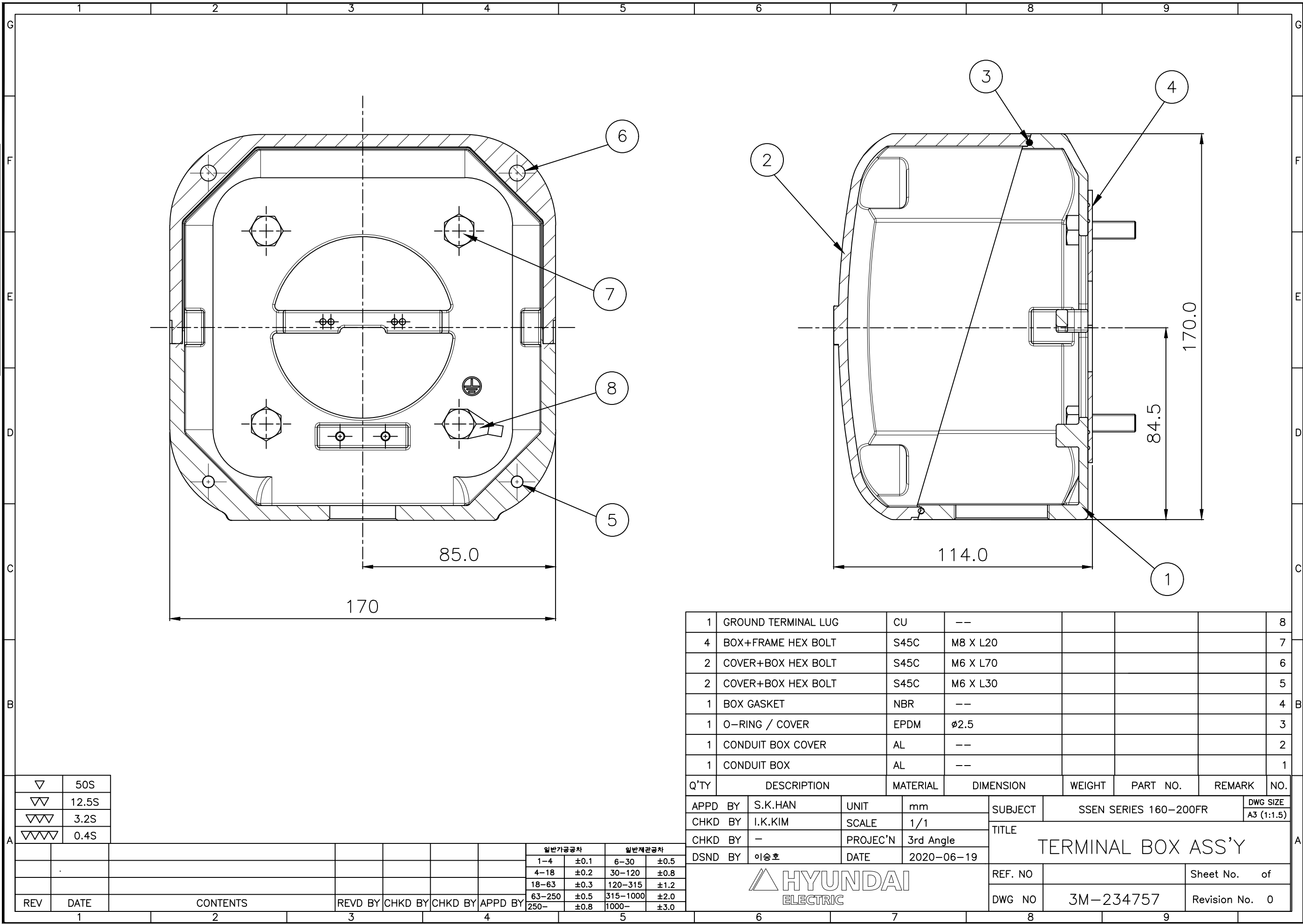


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.180M	DWG SIZE	A4 (6.5)
CHKD BY	S.Y.KIM	SCALE	1/8.5	TITLE Outline			
CHKD BY	I.K.KIM	PROJEC'N	(3rd Angle)				
DSND BY	S.H.LEE	DATE	2019.06.17	REF. NO		Sheet No.	of
HYUNDAI ELECTRIC				DWG NO	LM-T1183B3PLV01	Revision No.	0

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본 도면은 현대일렉트릭(주) 재산이므로  
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