

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

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			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	80M		Rated Output	0.75 kW 1.0 HP			
Type	HLP-0.75/4		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			
Number of Phases	3		Current	Full Load	1.5 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	730 %			
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 83.5 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)						
Duty Type	Continuous (S1)		100% Load 0.800				
Service Factor	1.15		Speed at Full Load 1730 r.p.m				
Mounting	B3		Torque				
Bearing	Type	Anti-Friction					
	DE/N-DE	6204ZZC3 / 6203ZZC3	Full Load	0.4 kg·m 4.1			
	Lubricant	Grease	Locked-rotor**	300 % 1.3 kg·m			
External Thrust	Not applicable		Breakdown**	240 % 1.0 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.) 0.633 kg·m ²				
Terminal	Main	<input checked="" type="checkbox"/> Aluminum <input type="checkbox"/> Cast Iron	Motor 0.002 kg·m ²				
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	56 dB(A)				
Application			Vibration 1.6 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		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3 LM-A1080B3P3V01 18 kg				
			REMARK				
			*. 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				
SPARE PARTS			<div style="border: 2px solid red; padding: 10px; text-align: center; font-size: 2em; color: red;">FOR BIDDING</div>				
			Date	DSND	CHKD	CHKD	APPD
			2021-04-21				

Type : HLP-0.75/4

Full Load Torque : 0.4 kg.m

Load moment of Inertia (J) : - kg.m²

Motor moment of Inertia (J) : 0.002 kg.m²

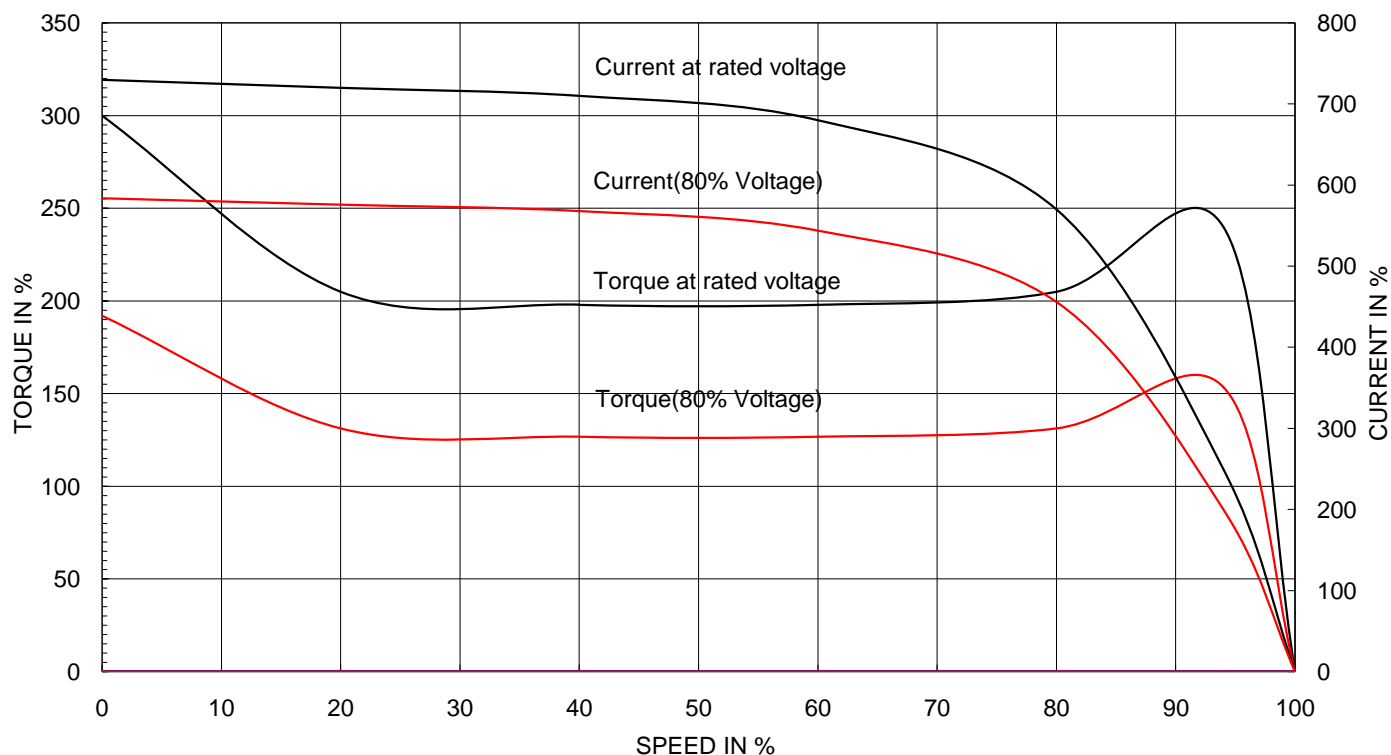
0.75 kW 4 P 60 Hz

Speed at Full Load : 1730 RPM

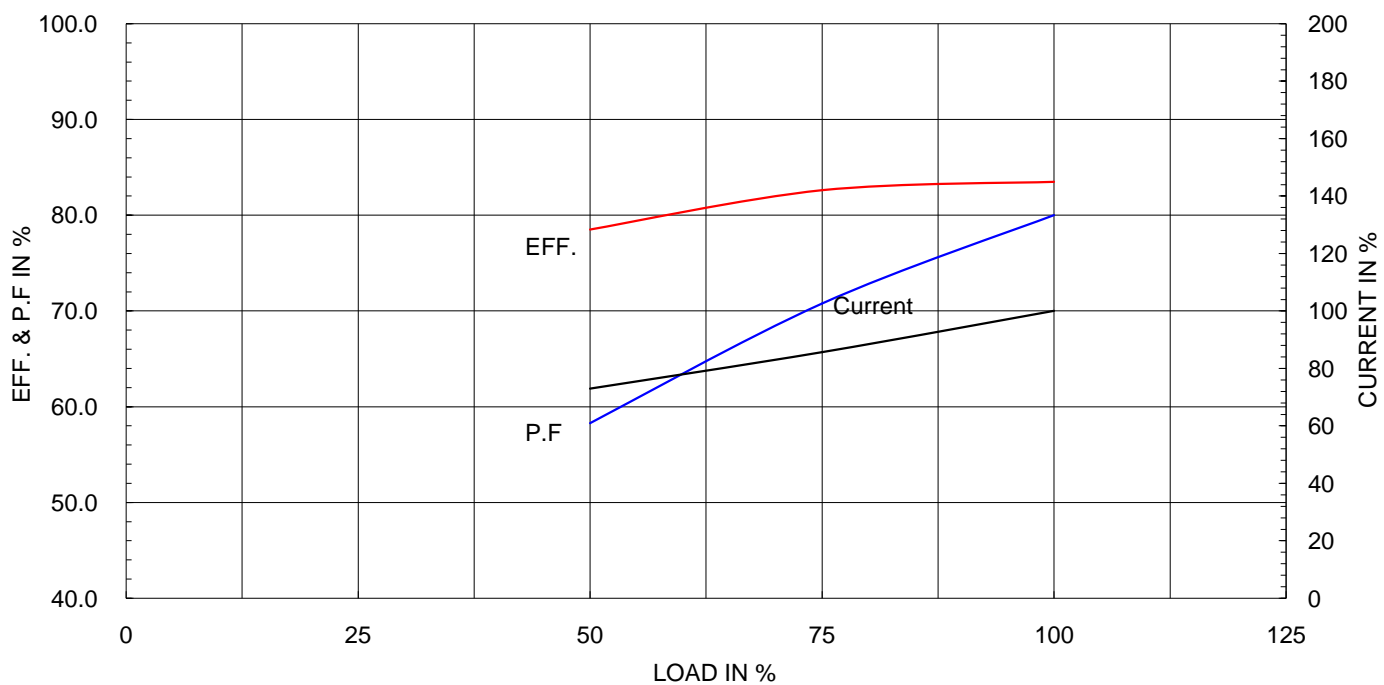
Rated Voltage 440

Full Load Current 1.5A

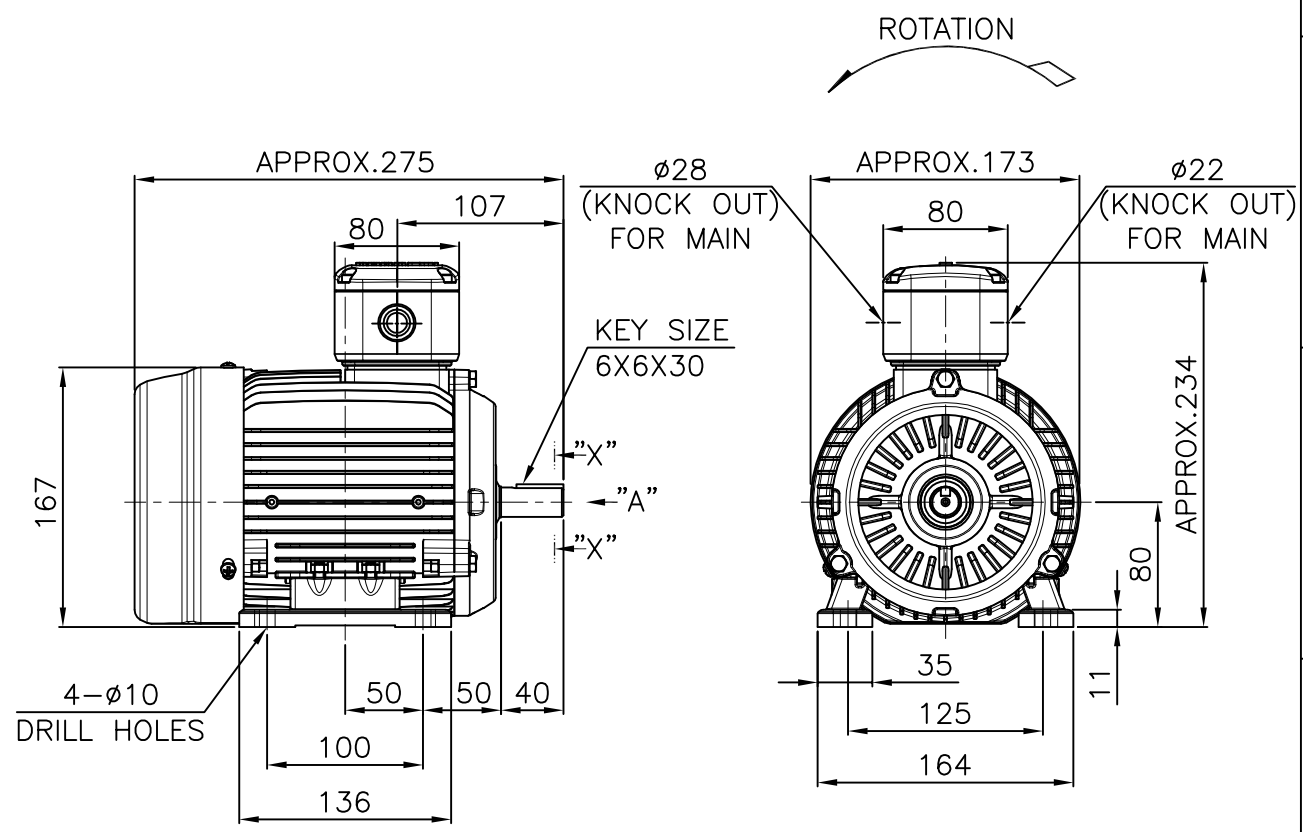
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



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

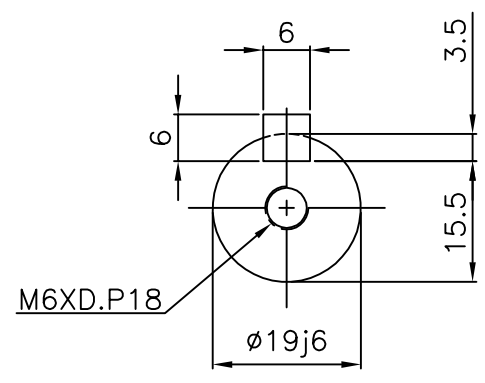


VIEW "A"


NOTE

1.TOLERANCE :

CENTER HEIGHT	80	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	$\phi 10$	$\begin{smallmatrix} +0.36 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 19$	$\begin{smallmatrix} +0.009 \\ -0.004 \end{smallmatrix}$
KEYWAY WIDTH	6	$\begin{smallmatrix} 0 \\ -0.030 \end{smallmatrix}$
KEYWAY DEPTH	3.5	$\begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$
KEY WIDTH	6	$\begin{smallmatrix} 0 \\ -0.030 \end{smallmatrix}$
KEY HEIGHT	6	$\begin{smallmatrix} 0 \\ -0.030 \end{smallmatrix}$



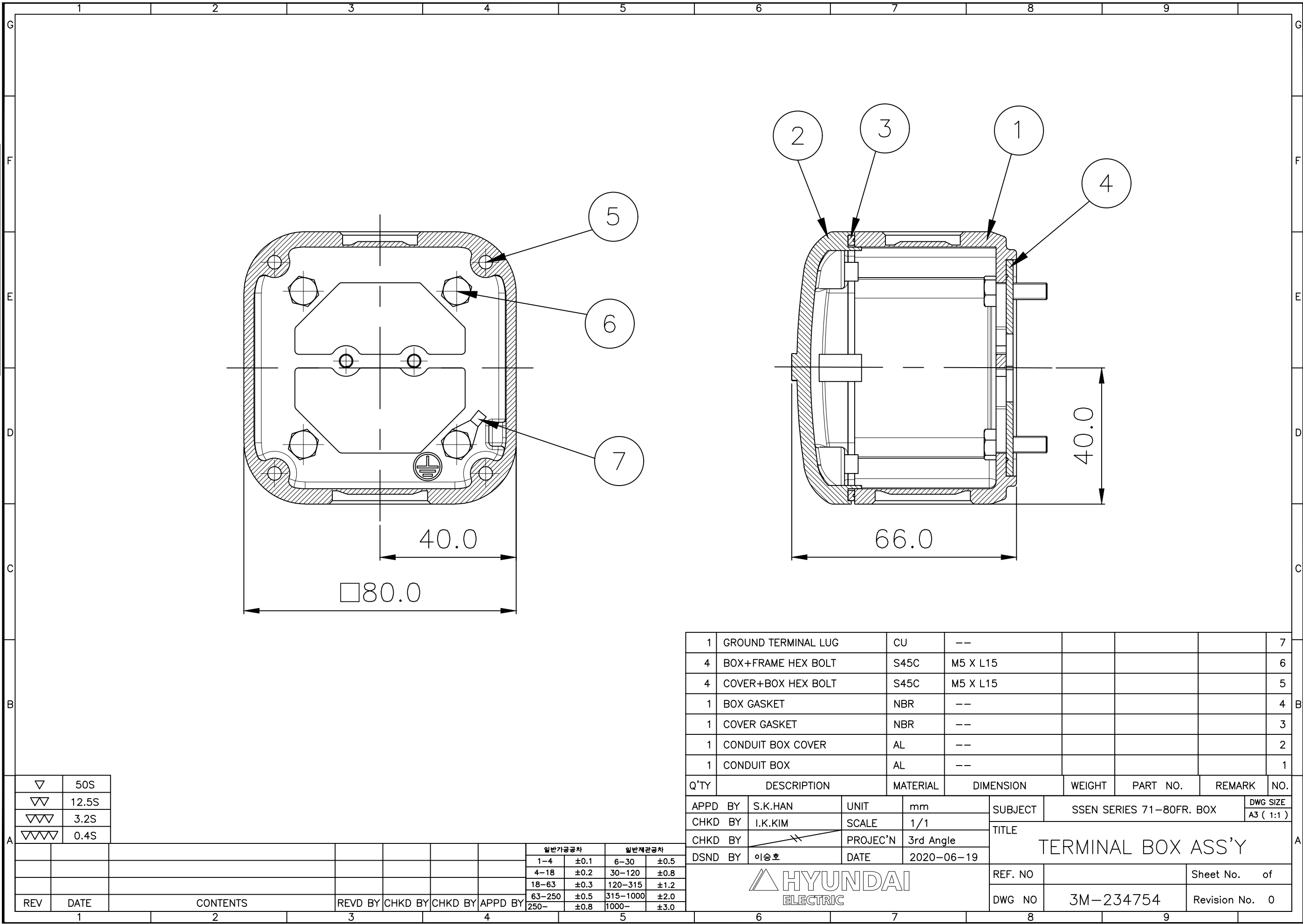
SECTION "X-X"
SCALE 5/4

APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.80M		DWG SIZE	
CHKD BY	S.Y.KIM	SCALE	1/5	TITLE OUTLINE				A4 (15)
CHKD BY	I.K.KIM	PROJEC'N	3각법 (3rd Angle)					
DSND BY	S.H.LEE	DATE	2020.06.16					
				REF. NO		Sheet No.	of	
				DWG NO	LM-A1080B3PTV01	Revision No.	0	
1		2		3		4		

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본 도면은 현대일렉트릭(주) 재산이므로
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	일반가공공차		일반재관공차	
							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	--					7
4	BOX+FRAME HEX BOLT	S45C	M5 X L15					6
4	COVER+BOX HEX BOLT	S45C	M5 X L15					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 71-80FR. BOX		DWG SIZE	
CHKD BY	I.K.KIM	SCALE	1/1	TITLE TERMINAL BOX ASS'Y			A3 (1:1)	
CHKD BY		PROJEC'N	3rd Angle					
DSND BY	이승호	DATE	2020-06-19					
				REF. NO	Sheet No. of			
				DWG NO	3M-234754 Revision No. 0			