

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	90L		Rated Output	0.75 kW 1.0 HP				
Type	HLP-0.75/6		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	220 V				
Number of Phases	3		Current	Full Load	3.4 A			
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	510 %				
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	82.5 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)					
Ambient Temp.	40 deg. C (Max.)							
Duty Type	Continuous (S1)		100% Load	0.694				
Service Factor	1.15		Speed at Full Load	1140 r.p.m				
Mounting	B3		Torque					
Bearing	Type	Anti-Friction	Full Load	0.6 kg·m 6.3				
	DE/N-DE	6205ZZC3 / 6204ZZC3	Locked-rotor**	200 % 1.3 kg·m				
	Lubricant	Grease	Breakdown**	265 % 1.7 kg·m				
External Thrust	Not applicable		Moment of Inertia (J)					
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Load(Max.)	1.602 kg·m ²				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Motor	0.003 kg·m ²				
Terminal	Main	<input checked="" type="checkbox"/> Aluminum <input type="checkbox"/> Cast Iron	Sound Pressure Level (No-load & mean value at 1m from motor)	69 dB(A)				
Box	Aux.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Vibration	1.6 mm/sec (peak)				
	Location	Refer to Outline Drawing	Permissible number of consecutive starts	Cold 20 times Hot 15 times				
Application			Paint	Munsell No.	PHANTONE 279C			
Area classification	Non-Hazardous		SUBMITTAL DRAWING					
Type of Ex-Protection	Not applicable		Outline Dimension Drawing	\ Motor Weight(Approx.)				
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)		B3	LM-T1095B3PLV01	30 kg			
ACCESSORIES			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					
			<div style="border: 2px solid red; padding: 10px; text-align: center; font-size: 2em; color: red;">FOR BIDDING</div>					
SPARE PARTS			Date	DSND	CHKD	CHKD	APPD	
			2021-04-22					

Type : HLP-0.75/6

Full Load Torque : 0.6 kg.m

Load moment of Inertia (J) : - kg.m²

Motor moment of Inertia (J) : 0.003 kg.m²

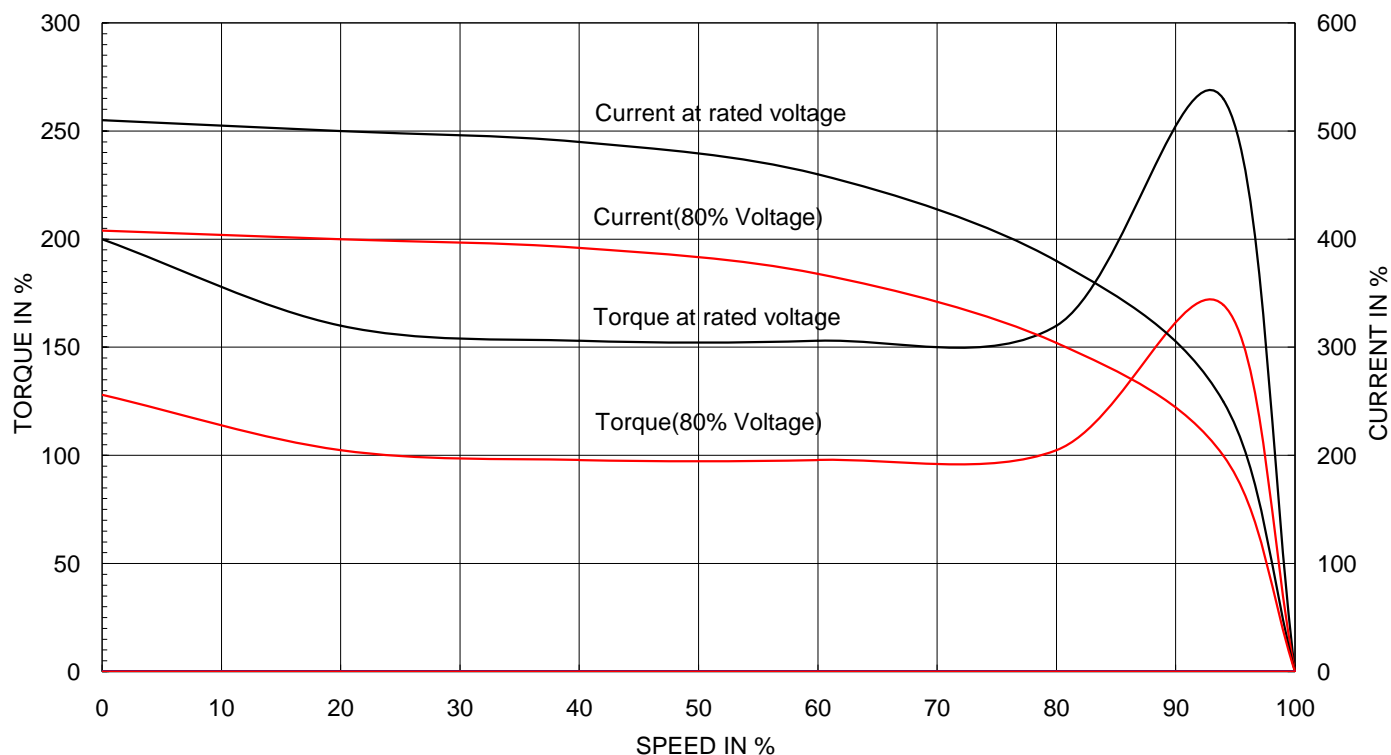
0.75 kW 6 P 60 Hz

Speed at Full Load : 1140 RPM

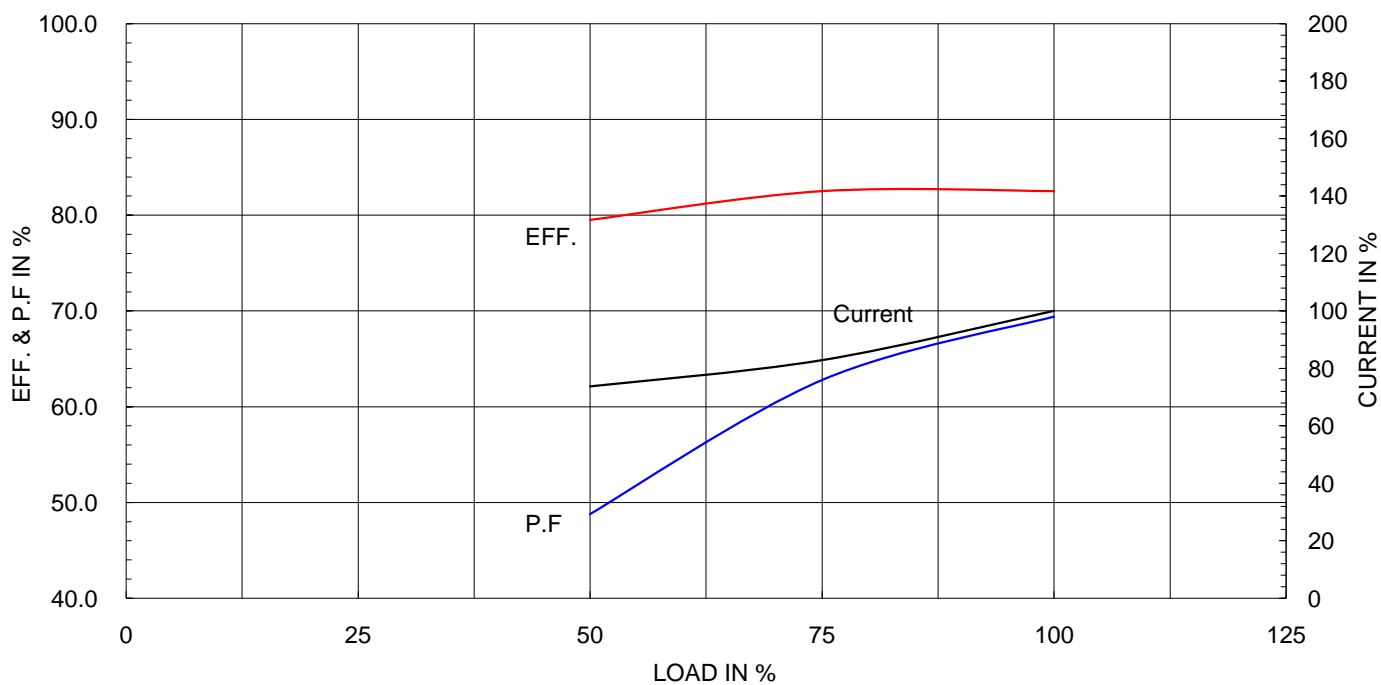
Rated Voltage 220

Full Load Current 3.4A

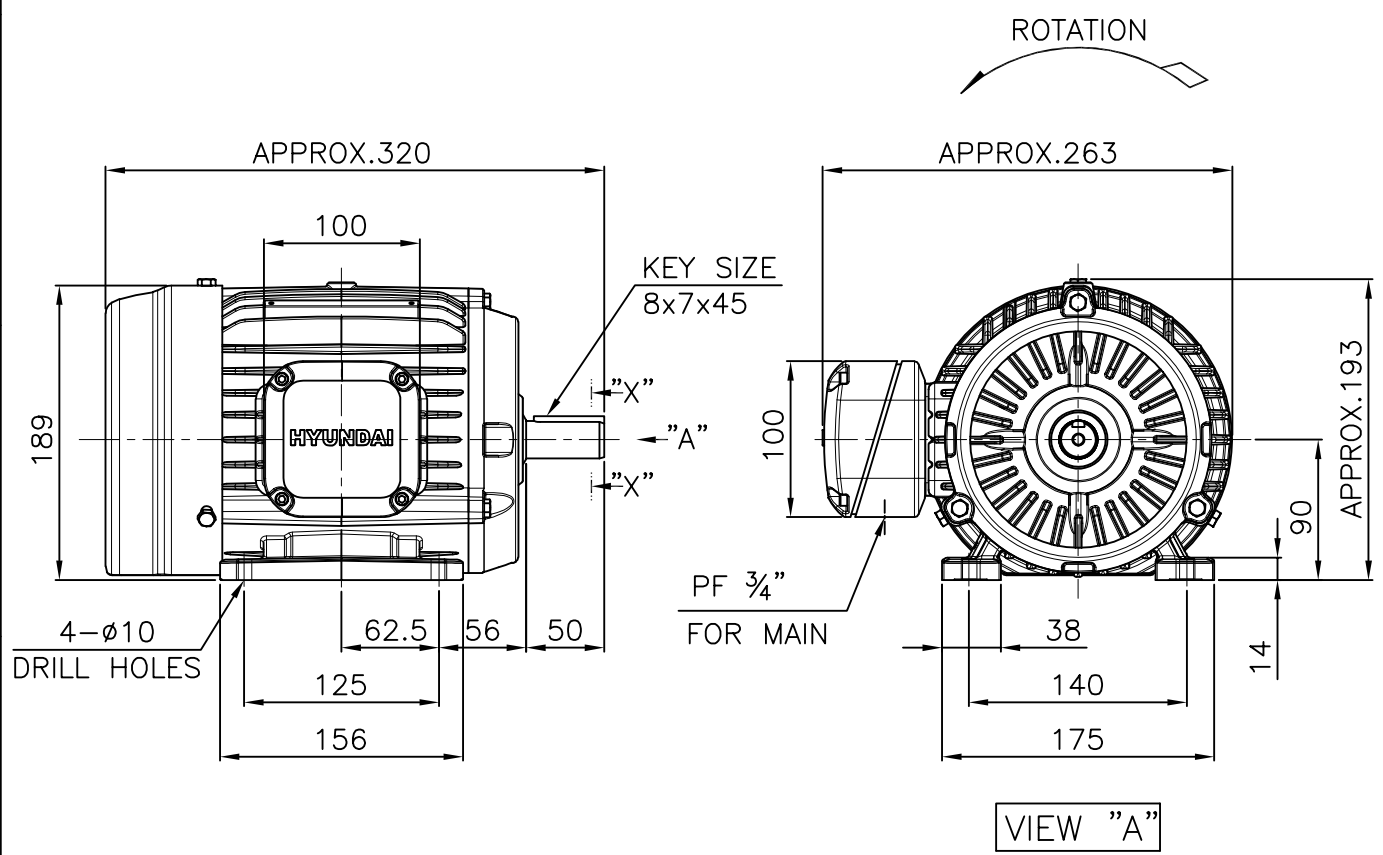
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



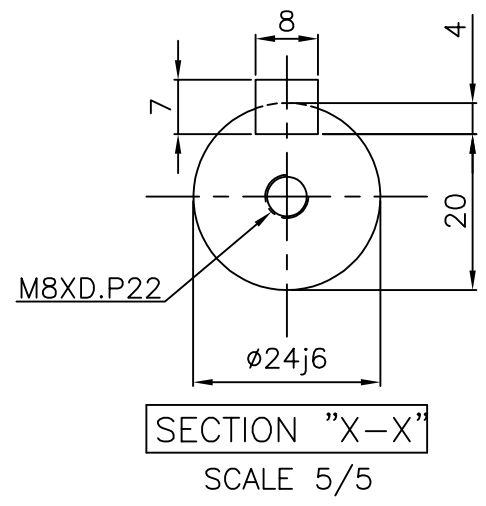
1			2			3			4		
▽	50S	REV	DATE	CONTENTS			REVD BY	CHKD BY	CHKD BY	APPD BY	
▽▽	12.5S										
▽▽▽	3.2S										
▽▽▽▽	0.4S										




NOTE

1.TOLERANCE :

CENTER HEIGHT	90	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	Ø10	$\begin{smallmatrix} +0.36 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	Ø24	$\begin{smallmatrix} +0.009 \\ -0.004 \end{smallmatrix}$
KEYWAY WIDTH	8	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEYWAY DEPTH	4	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEY WIDTH	8	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEY HEIGHT	7	$\begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$

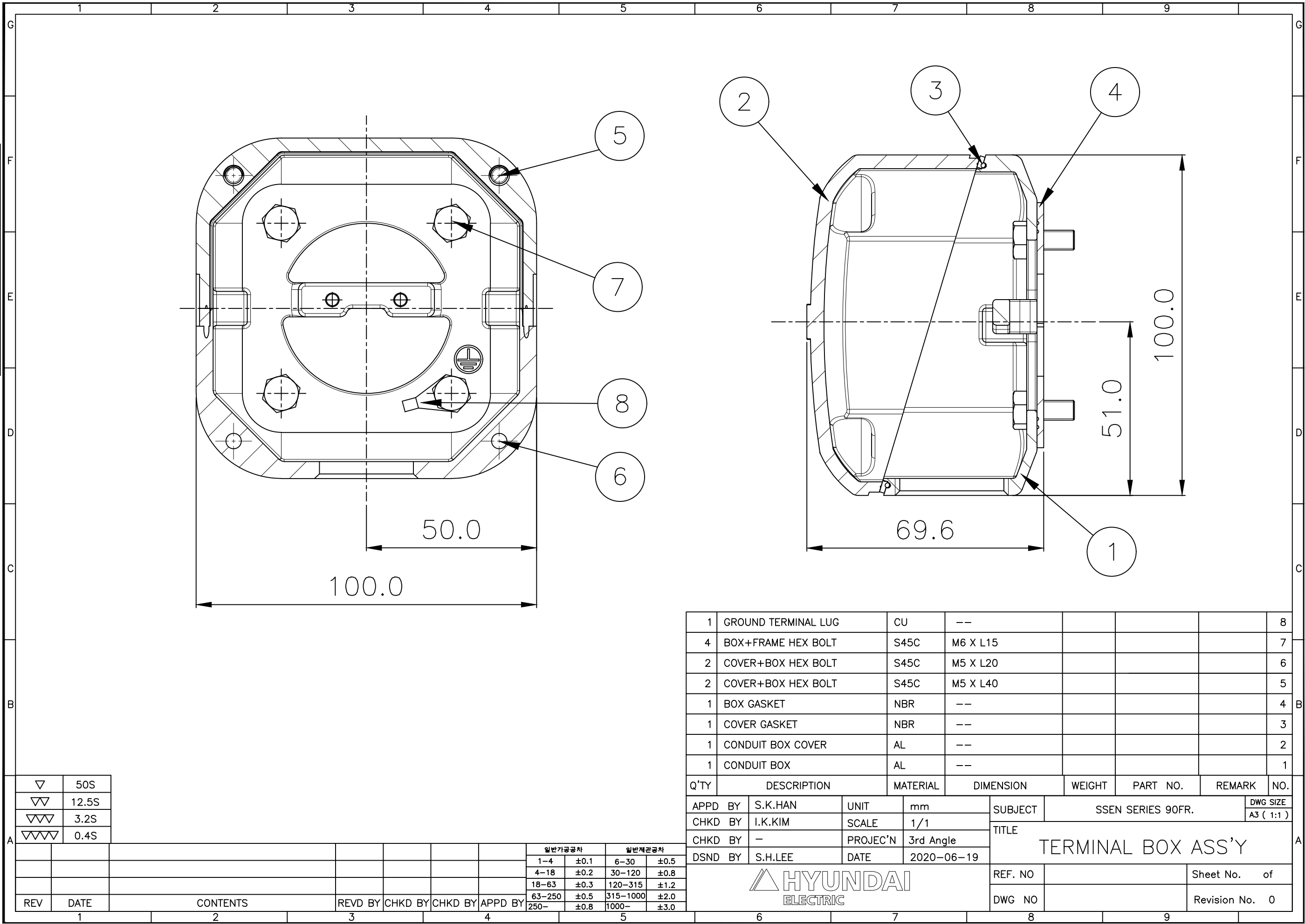


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.90L		DWG SIZE	
CHKD BY	S.Y.KIM	SCALE	1/6	TITLE OUTLINE				A4 (16)
CHKD BY	I.K.KIM	PROJEC'N	3각법 (3rd Angle)					
DSND BY	S.H.LEE	DATE	2019.06.18					
				REF. NO		Sheet No.	of	
				DWG NO	LM-T1095B3PLV01	Revision No.	0	
1		2		3		4		

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허가없이 복사할 수 없음 (취급유의)

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▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY	일반기공차	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	--					8
4	BOX+FRAME HEX BOLT	S45C	M6 X L15					7
2	COVER+BOX HEX BOLT	S45C	M5 X L20					6
2	COVER+BOX HEX BOLT	S45C	M5 X L40					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 90FR.			DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/1	TITLE	TERMINAL BOX ASS'Y			A3 (1:1)
CHKD BY	-	PROJEC'N	3rd Angle	REF. NO	Sheet No. of			
DSND BY	S.H.LEE	DATE	2020-06-19	DWG NO	Revision No. 0			

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