

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	2.2 kW 3.0 HP	
Type	HLP-2.2/2		Number of Poles	2	
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	3.9 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	890 %	
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	86.5 %	
Relative Humidity	Less than 80 %		Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)				
Duty Type	Continuous (S1)		100% Load	0.860	
Service Factor	1.15		Speed at Full Load	3485 r.p.m	
Mounting	B3		Torque		
Bearing	Type	Anti-Friction	Full Load	0.6 kg·m 6.0	
	DE/N-DE	6205ZZC3 / 6204ZZC3	Locked-rotor**	340 % 2.1 kg·m	
	Lubricant	Grease	Breakdown**	260 % 1.6 kg·m	
External Thrust	Not applicable		Moment of Inertia (J)		
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Load(Max.)	0.738 kg·m ²	
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Motor	0.002 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				
Type of Ex-Protection	Not applicable				
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)				
ACCESSORIES			SUBMITTAL DRAWING		
			Outline Dimension Drawing \ Motor Weight(Approx.)		
			B3 LM-T1095B3PLV01 30 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	
2021-04-26					

Note: Others not mentioned in this data sheet shall be in accordance with maker standard.

Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.

Inspection and performance test shall be maker standard, if not mentioned.

* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

Type : HLP-2.2/2

2.2 kW 2 P 60 Hz

Full Load Torque : 0.6 kg.m

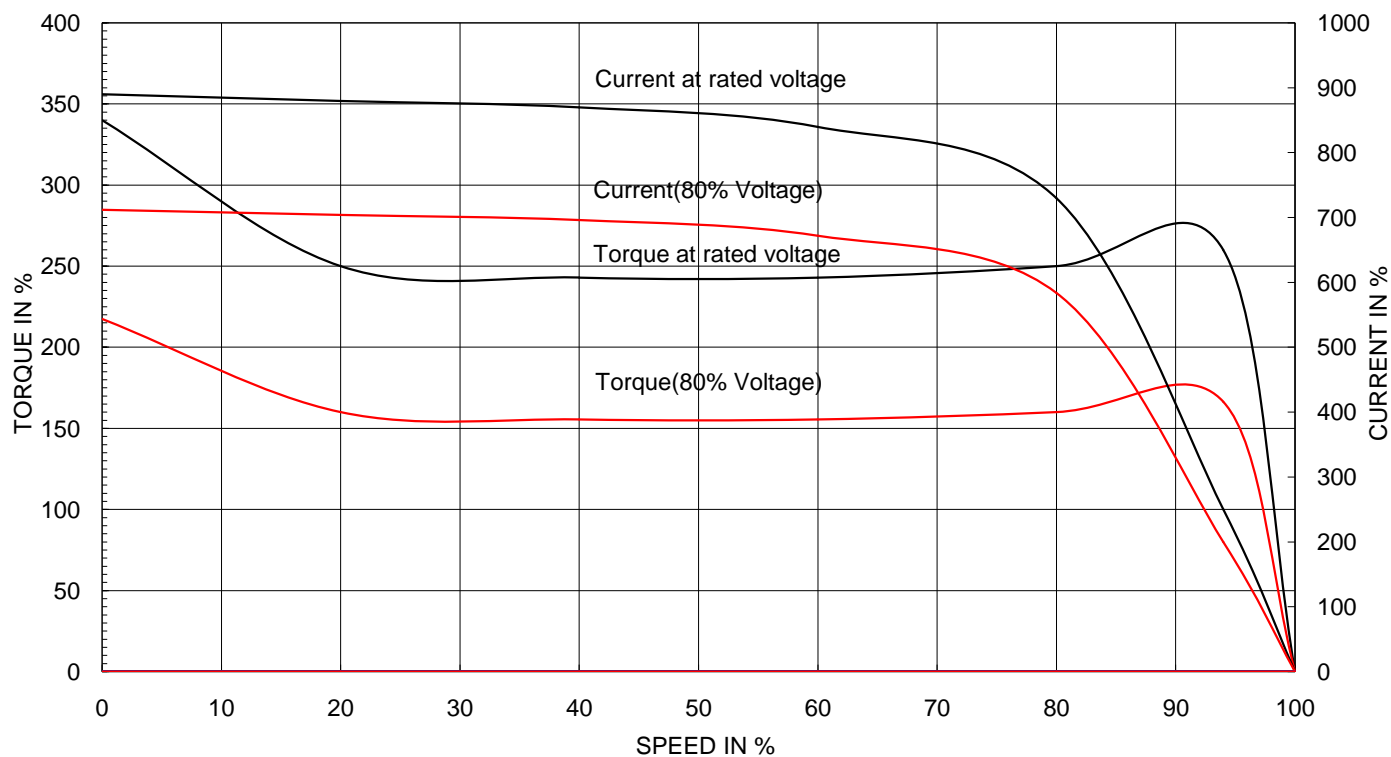
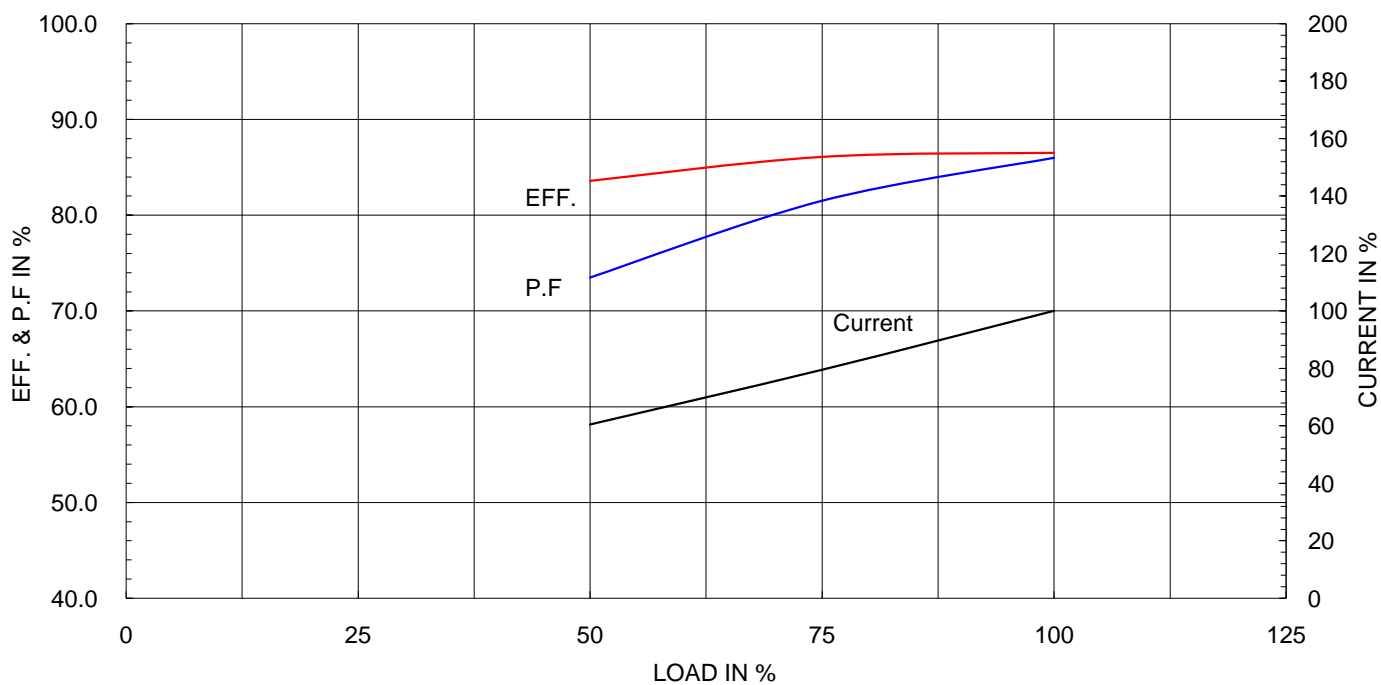
Speed at Full Load : 3485 RPM

Load moment of Inertia (J) : - kg.m²

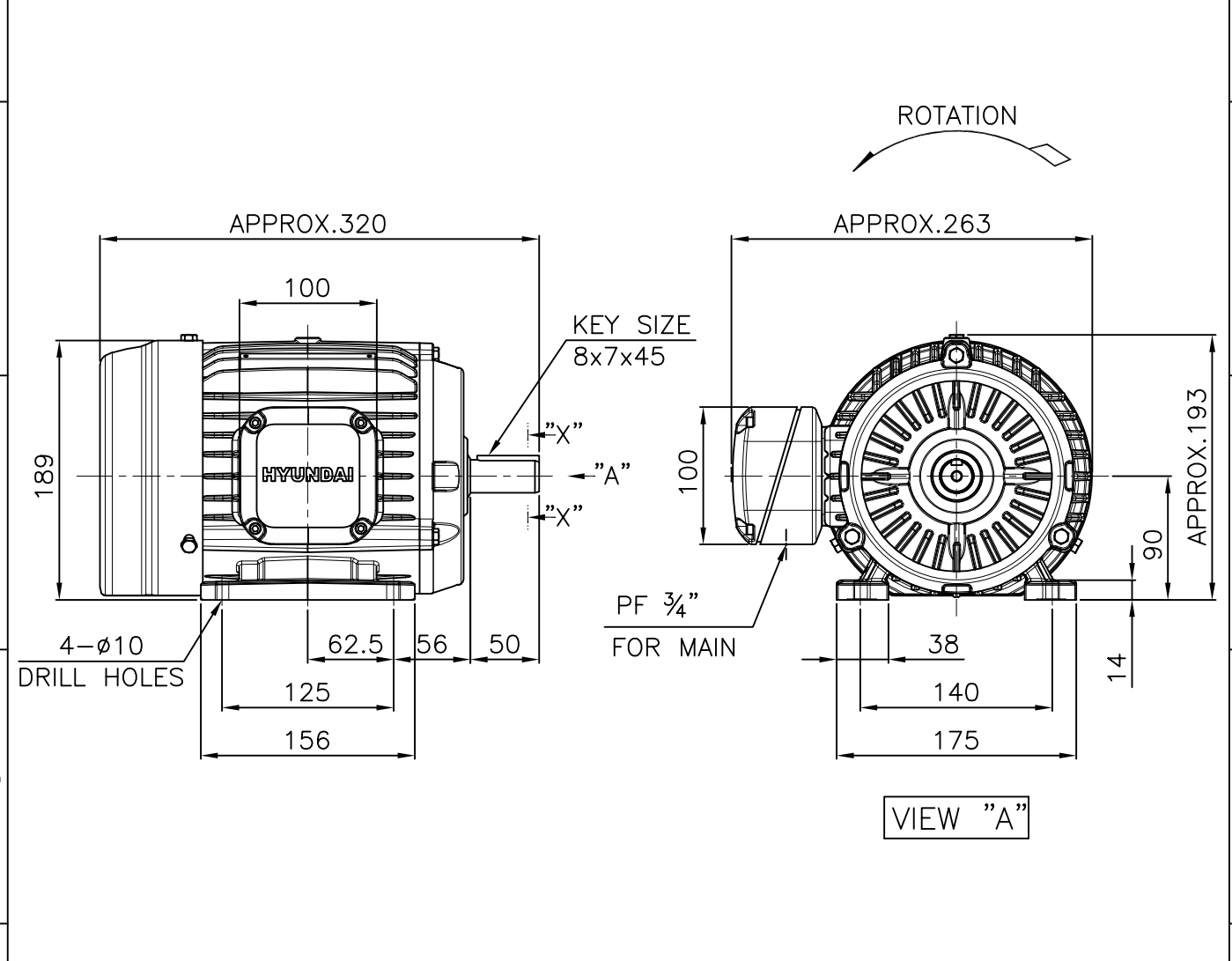
Rated Voltage 440

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

Full Load Current 3.9A

SPEED VS TORQUE & CURRENT CURVE

OUTPUT VS EFF., P.F & CURRENT CURVE


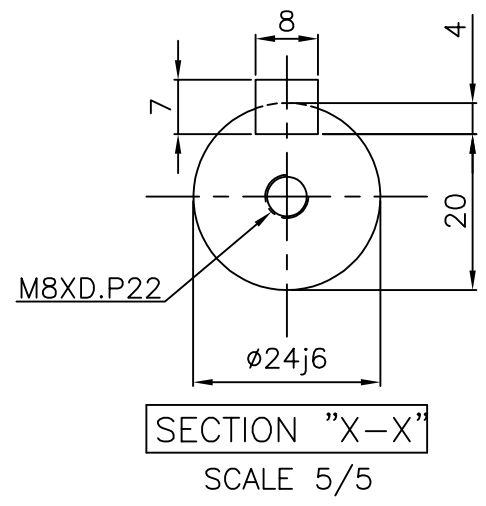
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



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	$\begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$

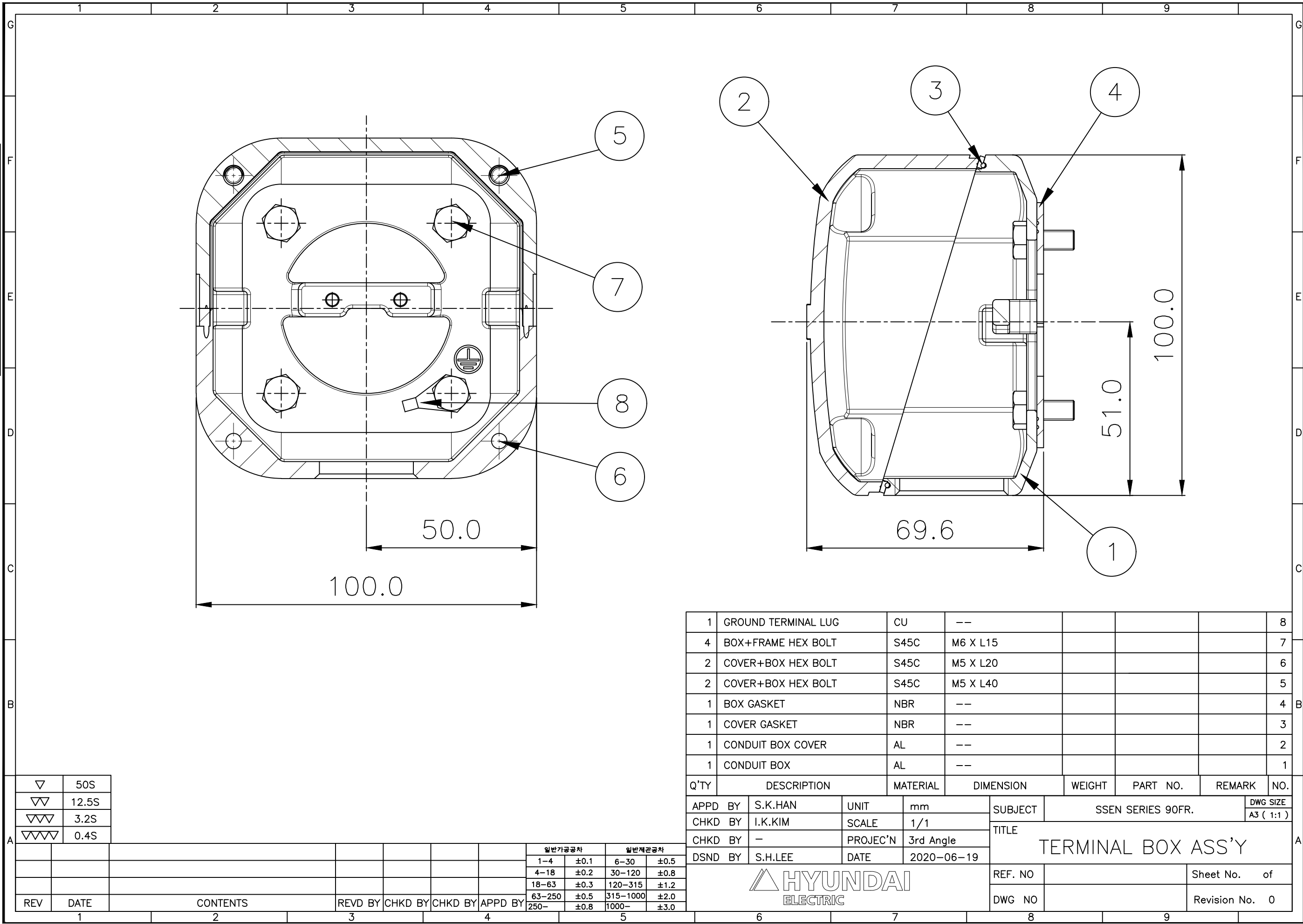


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.90L	DWG SIZE	A4 (16)
CHKD BY	S.Y.KIM	SCALE	1/6	TITLE	OUTLINE		
CHKD BY	I.K.KIM	PROJEC'N	3각법 (3rd Angle)				
DSND BY	S.H.LEE	DATE	2019.06.18				
HYUNDAI ELECTRIC				REF. NO		Sheet No.	of
				DWG NO	LM-T1095B3PLV01	Revision No.	0

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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	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 A3 (1:1)
CHKD BY	I.K.KIM	SCALE	1/1	TITLE TERMINAL BOX ASS'Y				
CHKD BY	—	PROJEC'N	3rd Angle					
DSND BY	S.H.LEE	DATE	2020-06-19					
				REF. NO		Sheet No. of		
				DWG NO		Revision No. 0		
6		7		8		9		