

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	90L		Rated Output	1.5 kW      2.0 HP			
Type	HLP-1.5/4		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	380 V			
Number of Phases	3		Current	Full Load	3.3 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	930 %			
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      86.5 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)						
Duty Type	Continuous (S1)		100% Load      0.810				
Service Factor	1.15		Speed at Full Load      1745 r.p.m				
Mounting	B3		Torque				
Bearing	Type	Anti-Friction	Full Load      0.8 kg·m      8.2				
	DE/N-DE	6205ZZC3 / 6204ZZC3	Locked-rotor**      320 %      2.7 kg·m				
	Lubricant	Grease	Breakdown**      300 %      2.5 kg·m				
External Thrust	Not applicable		Moment of Inertia (J)				
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Load(Max.)      1.256 kg·m <sup>2</sup>				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Motor      0.003 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)				
Box	Aux.	<input type="checkbox"/> Yes <input type="checkbox"/> No	55 dB(A)				
	Location	Refer to Outline Drawing	Vibration      1.6 mm/sec (peak)				
Application			Permissible number of consecutive starts				
Area classification	Non-Hazardous		Cold      20 times				
Type of Ex-Protection	Not applicable		Hot      15 times				
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)		Paint	Munsell No.	PHANTONE 279C		
<b>ACCESSORIES</b>			<b>SUBMITTAL DRAWING</b>				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3      LM-T1095B3PLV01      30 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
			2021-04-26				

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-1.5/4

Full Load Torque : 0.8 kg.m

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

 Motor moment of Inertia (J) : 0.003 kg.m<sup>2</sup>

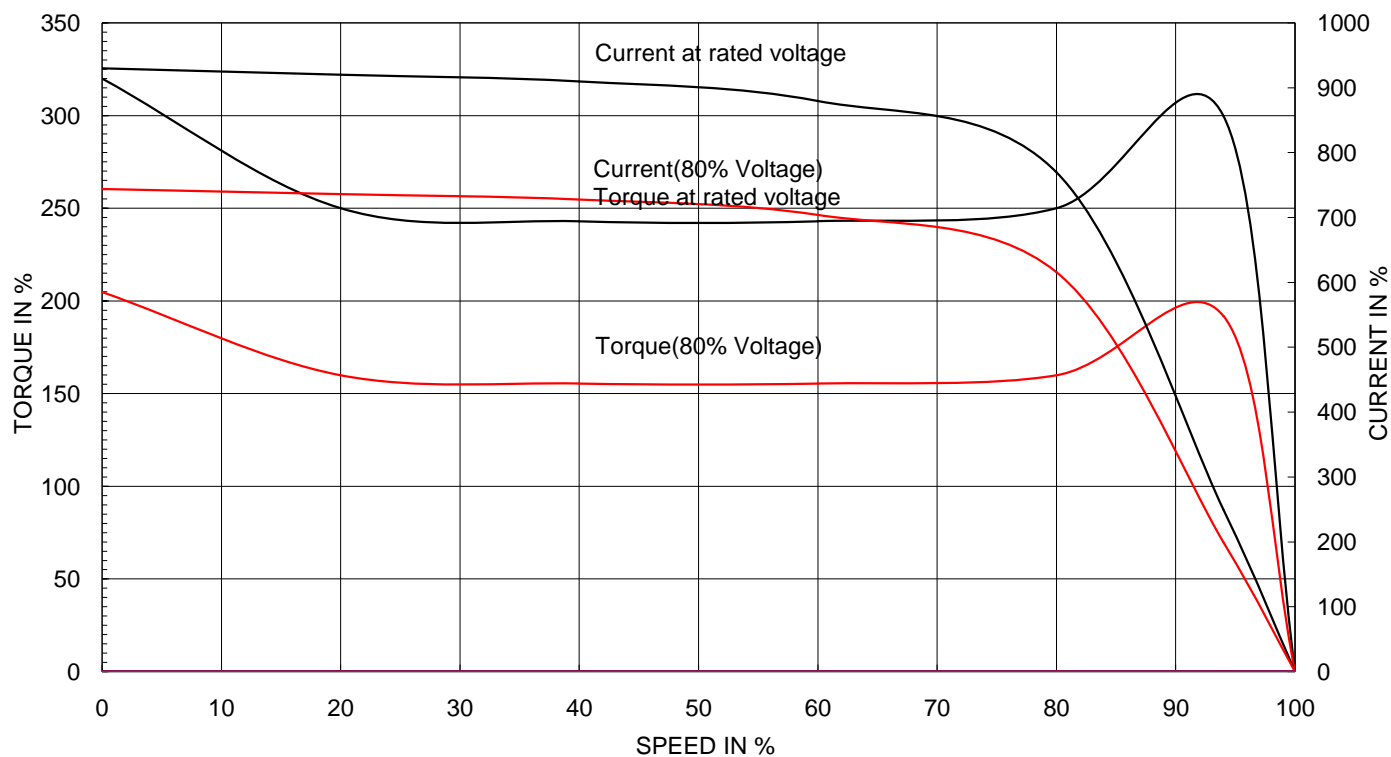
1.5 kW 4 P 60 Hz

Speed at Full Load : 1745 RPM

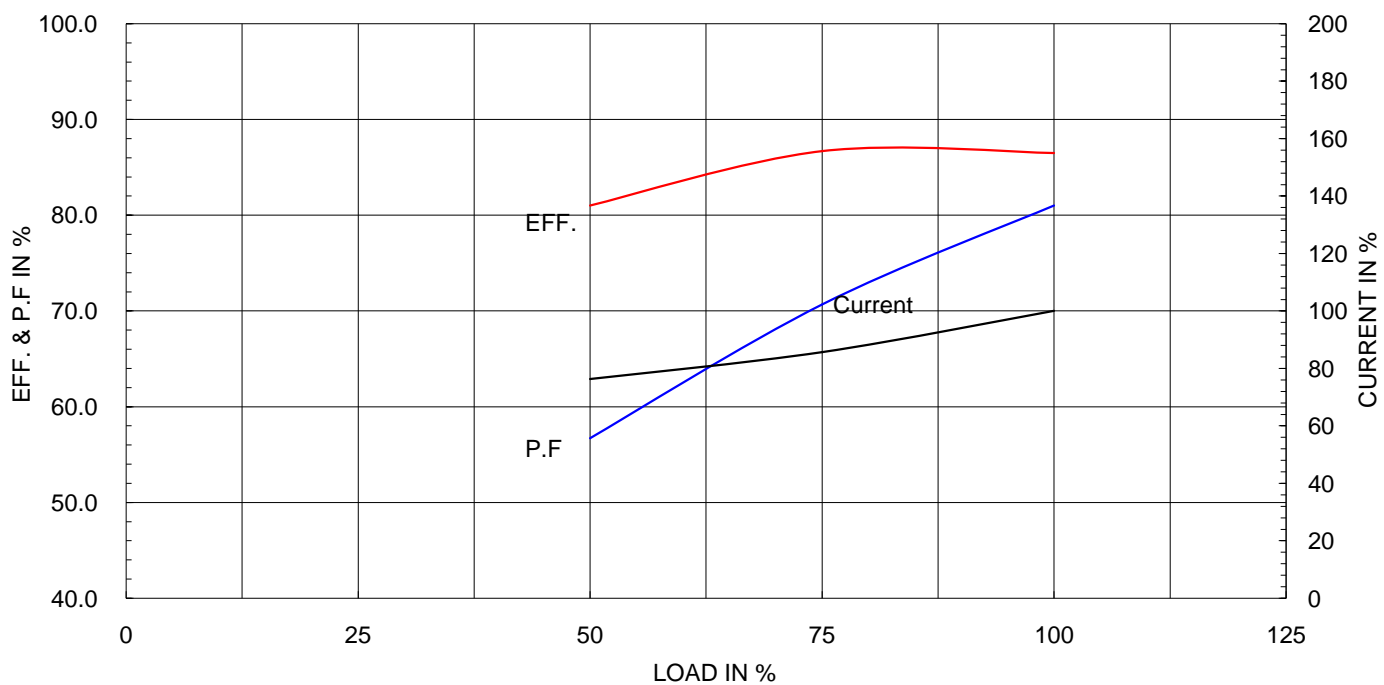
Rated Voltage 380

Full Load Current 3.3A

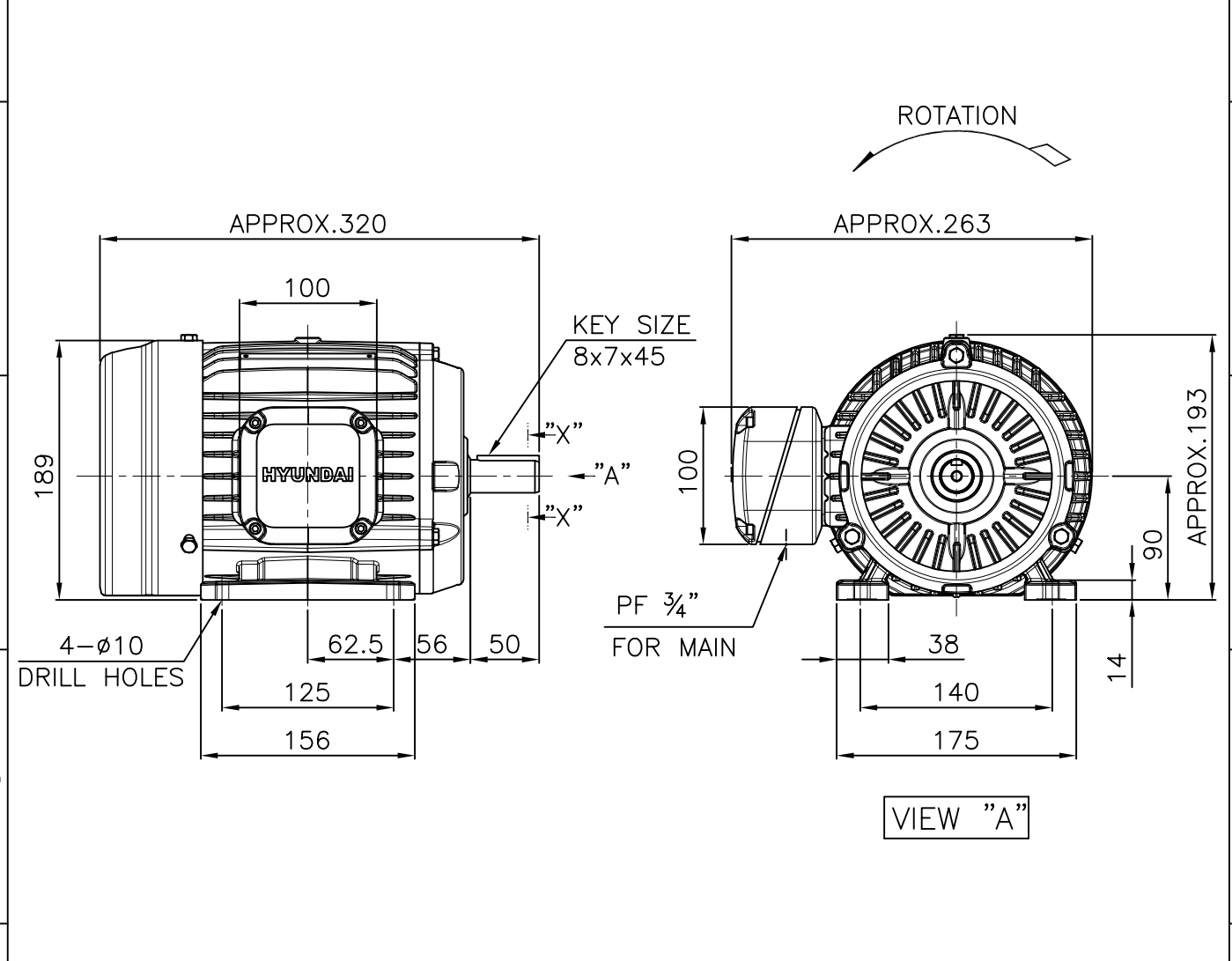
SPEED VS TORQUE &amp; CURRENT CURVE



OUTPUT VS EFF., P.F &amp; CURRENT CURVE



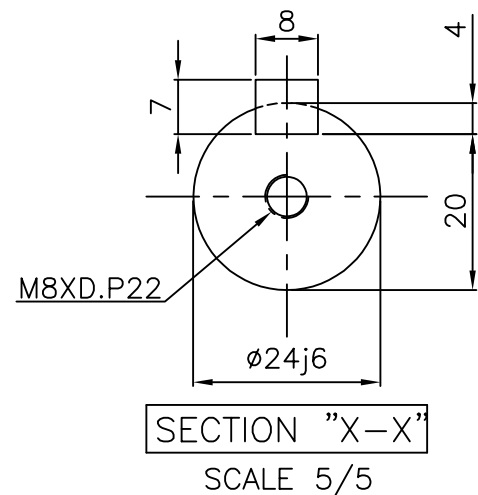
1	2	3	4
▽	50S	REV	DATE
▽▽	12.5S		
▽▽▽	3.2S		
▽▽▽▽	0.4S		



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

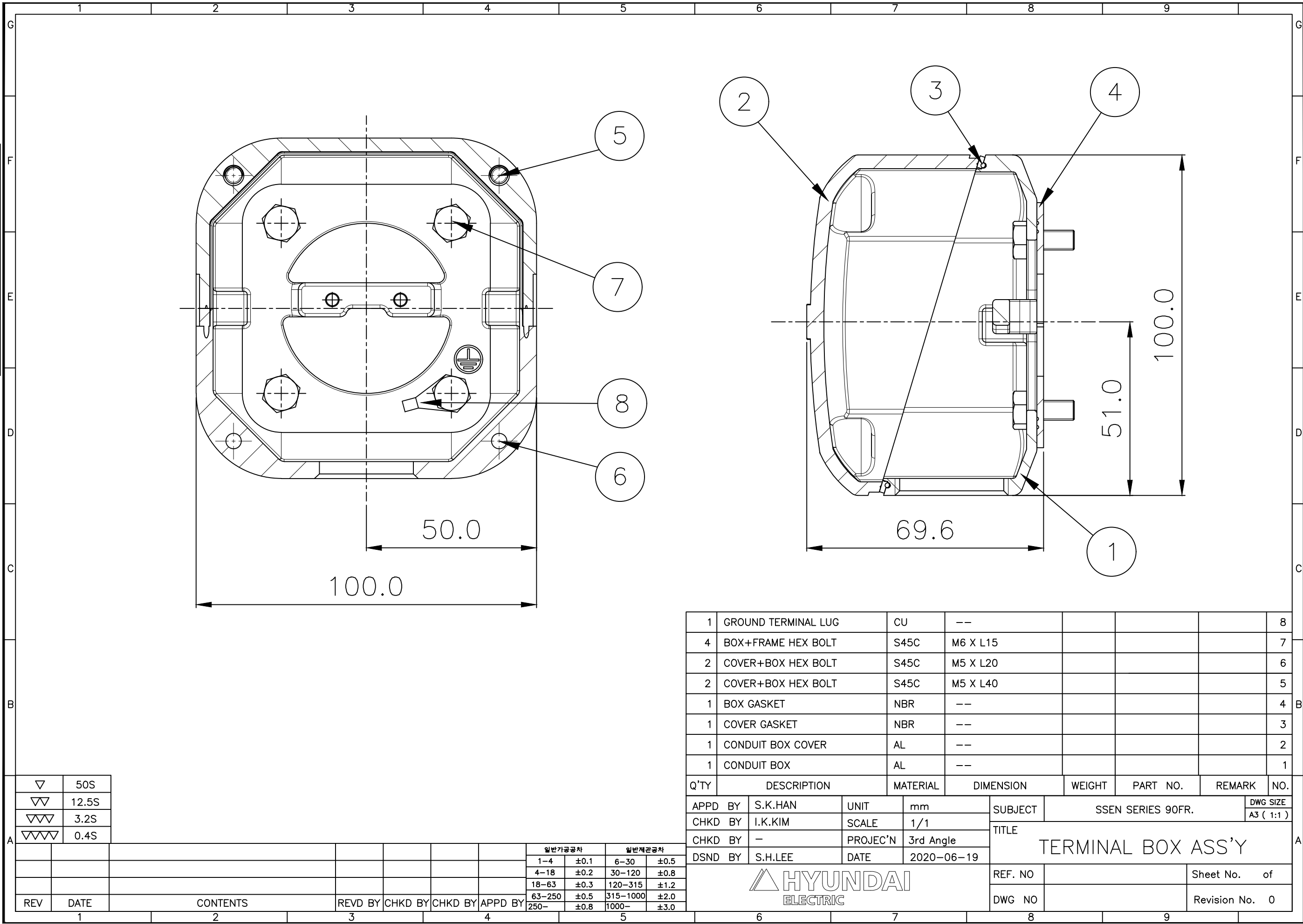


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.90L	DWG SIZE	A4 ( 16 )
CHKD BY	S.Y.KIM	SCALE	1/6	TITLE	OUTLINE		
CHKD BY	I.K.KIM	PROJEC'N	3각법 (3rd Angle)				
DSND BY	S.H.LEE	DATE	2019.06.18				
HYUNDAI ELECTRIC				REF. NO		Sheet No.	of
				DWG NO	LM-T1095B3PLV01	Revision No.	0

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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		