

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	1.5 kW 2.0 HP			
Type	HLP-1.5/2		Number of Poles	2			
Enclosure(Protection)	Totally Enclosed / IP55		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y-Δ			
Rated Frequency	60 Hz		Rated Voltage	220 V			
Number of Phases	3		Current	Full Load	5.4 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	890 %			
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C							
Motor Location	☒ Indoor ☐ Outdoor						
Altitude	Less than 1000 meter		100% Load 85.5 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)						
Duty Type	Continuous (S1)						
Service Factor	1.15		100% Load 0.860				
Mounting	B3		Speed at Full Load 3480 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6205ZZC3 / 6204ZZC3	Full Load 0.4 kg·m 4.1				
	Lubricant	Grease	Locked-rotor** 340 % 1.4 kg·m				
External Thrust	Not applicable		Breakdown** 260 % 1.1 kg·m				
Coupling Method	☒ Direct ☐ V-Belt		Moment of Inertia (J)				
Shaft Extension	☒ Single ☐ Double		Load(Max.) 0.504 kg·m ²				
Terminal	Main	☒ Aluminum ☐ Cast Iron	Motor 0.002 kg·m ²				
Box	Aux.	☐ Yes ☐ 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 Cold 20 times				
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)		Hot 15 times				
			Paint	Munsell No.	PHANTONE 279C		
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			FOR BIDDING				
			Date	DSND	CHKD	CHKD	APPD
			2021-04-22				

Type : HLP-1.5/2

Full Load Torque : 0.4 kg.m

Load moment of Inertia (J) : - kg.m²

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

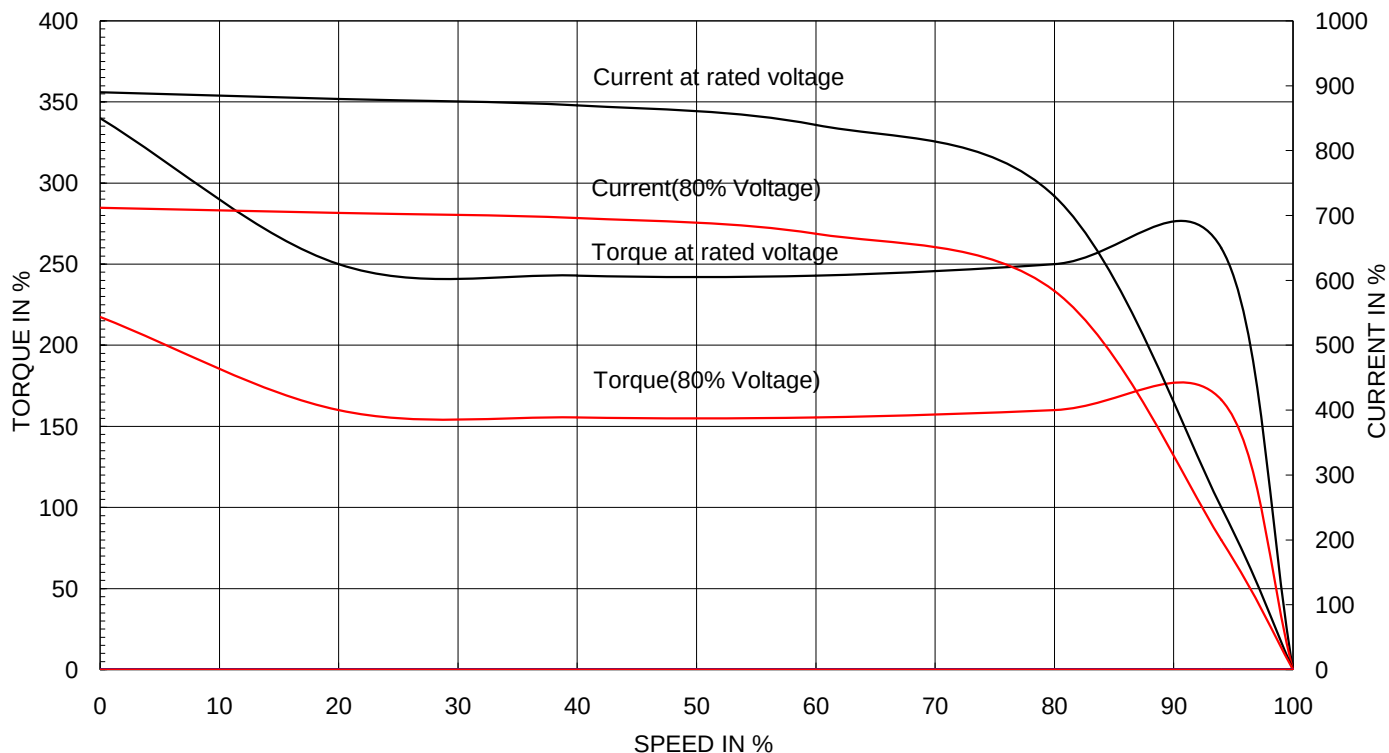
1.5 kW 2 P 60 Hz

Speed at Full Load : 3480 RPM

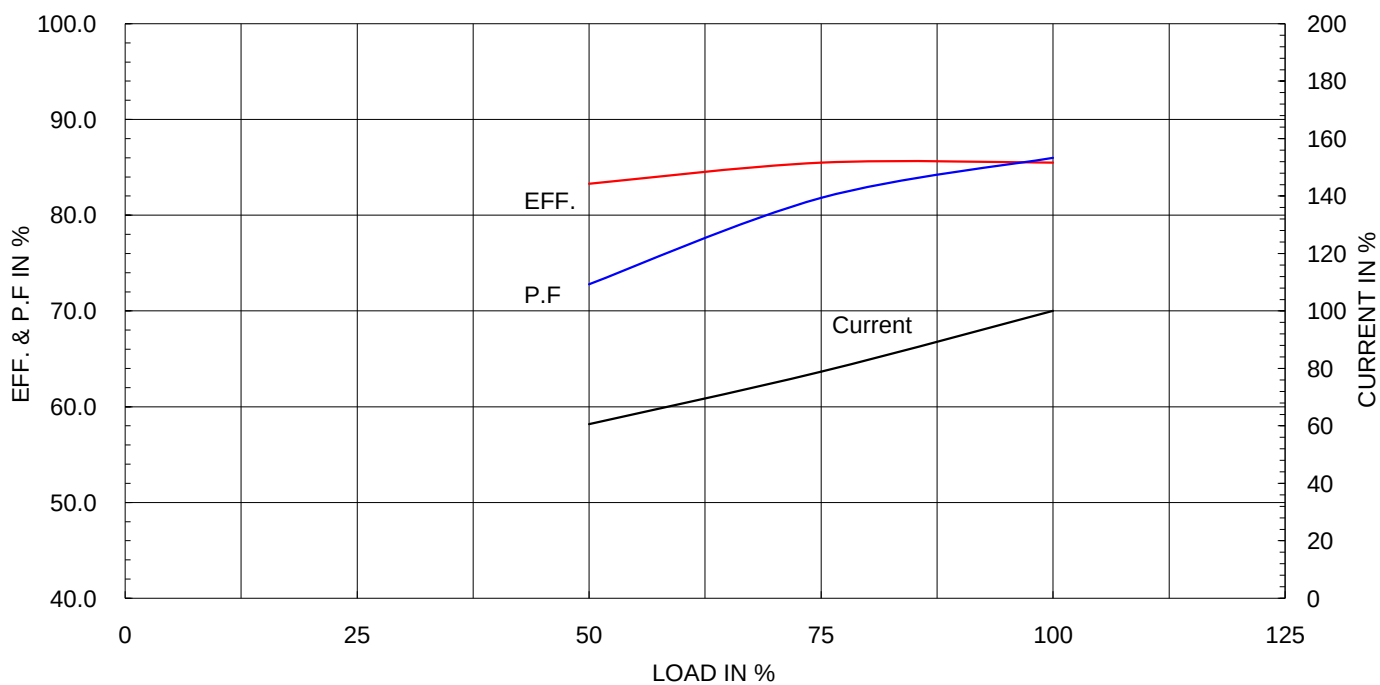
Rated Voltage 220

Full Load Current 5.4A

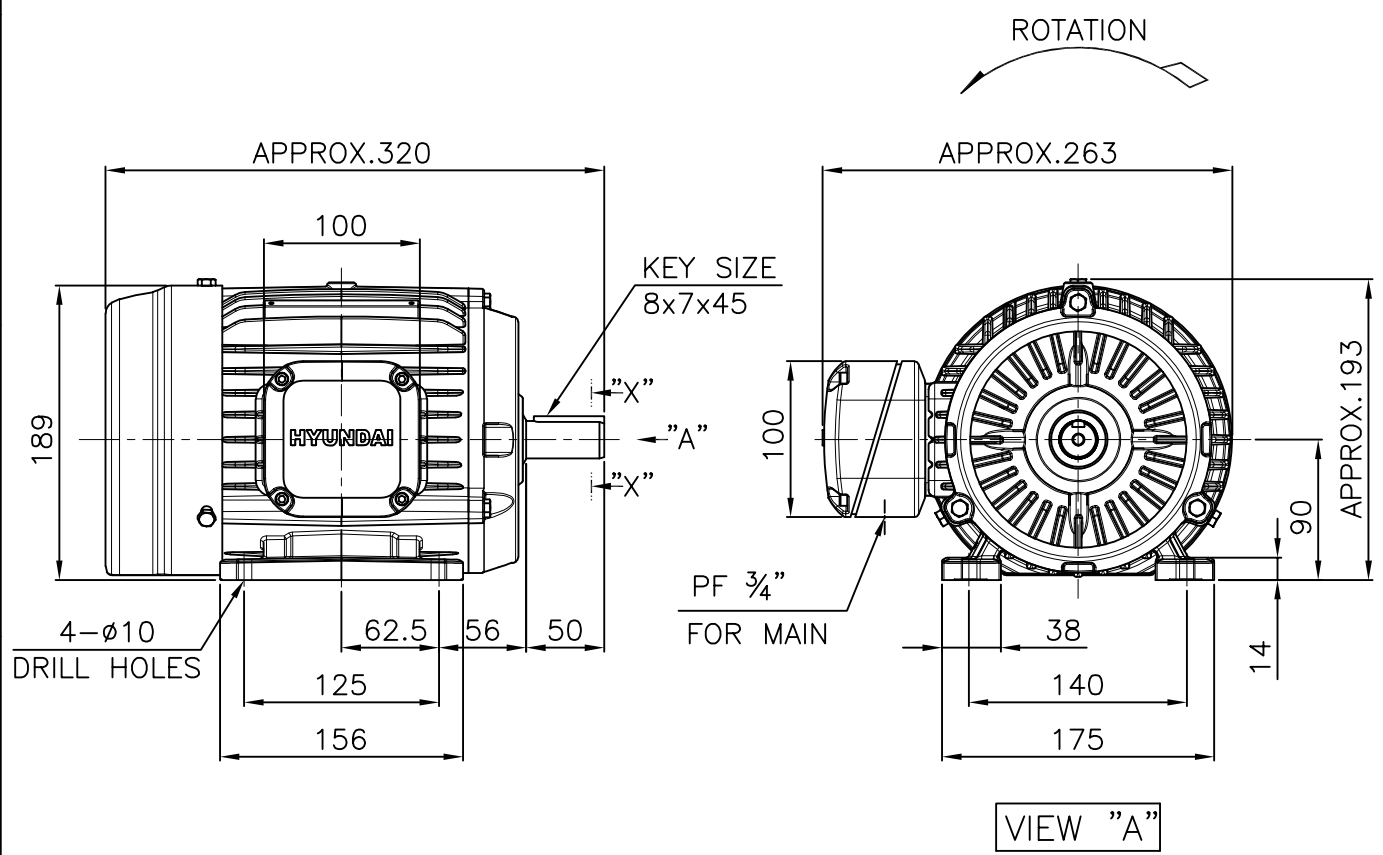
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



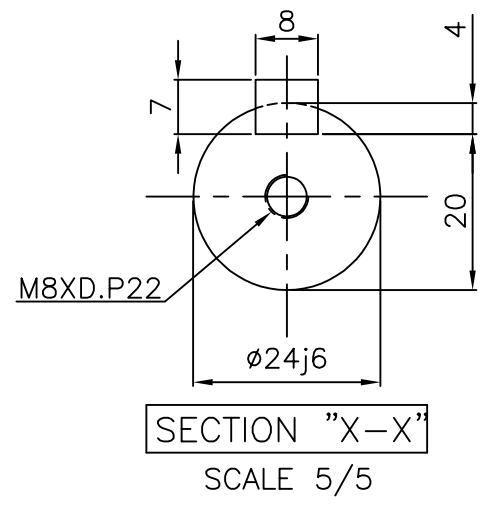
1			2		3		4		
▽	50S	REV	DATE	CONTENTS		REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S								
▽▽▽	3.2S								
▽▽▽▽	0.4S								



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

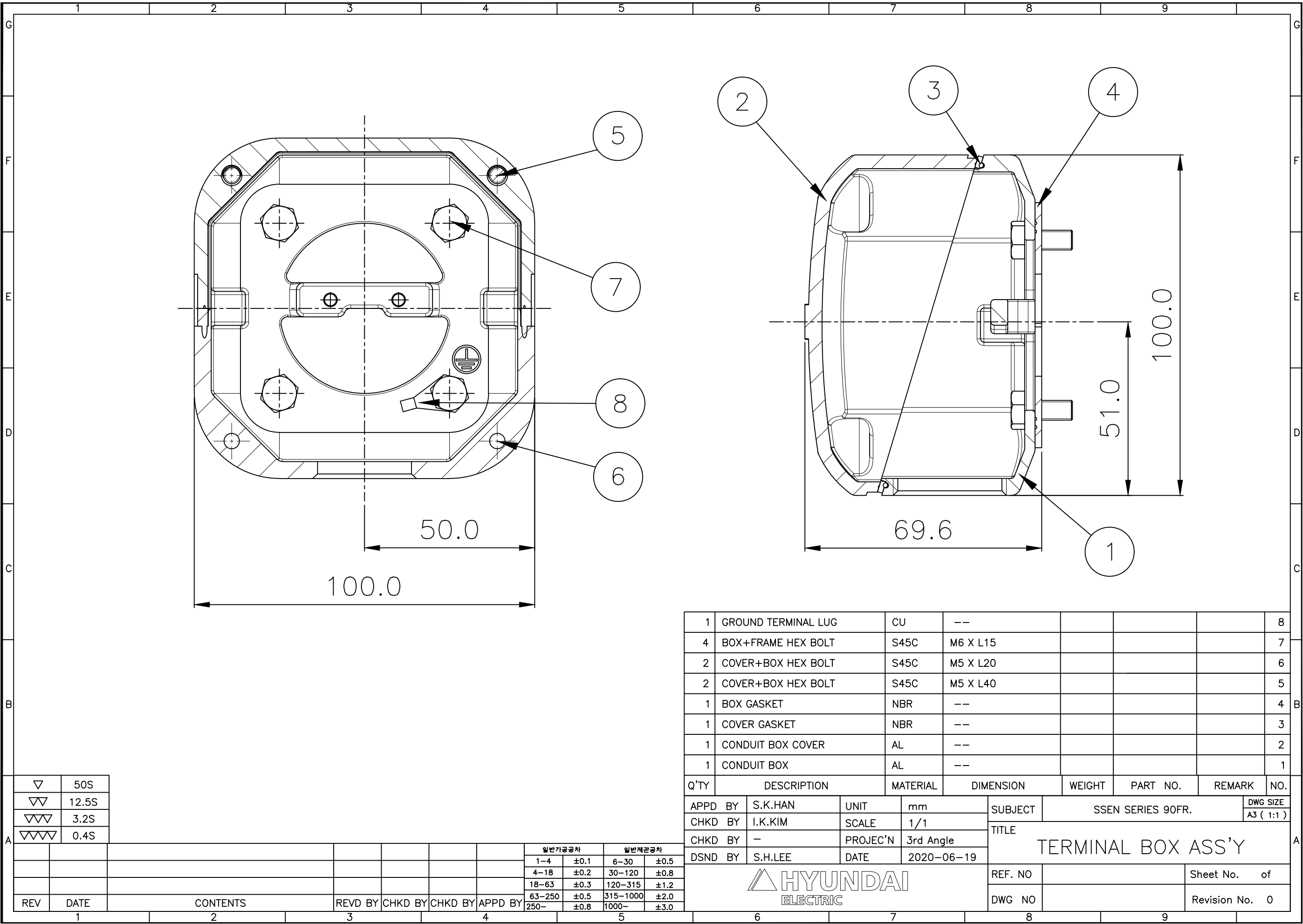


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.90L	DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/6	TITLE		A4 (16)
CHKD BY	I.K.KIM	PROJEC'N	3각법 (3rd Angle)			
DSND BY	S.H.LEE	DATE	2019.06.18			
				REF. NO	Sheet No. of	
				DWG NO	LM-T1095B3PLV01	Revision No. 0

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허가없이 복사할 수 없음 (취급유의)

HYUNDAI
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▽	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		