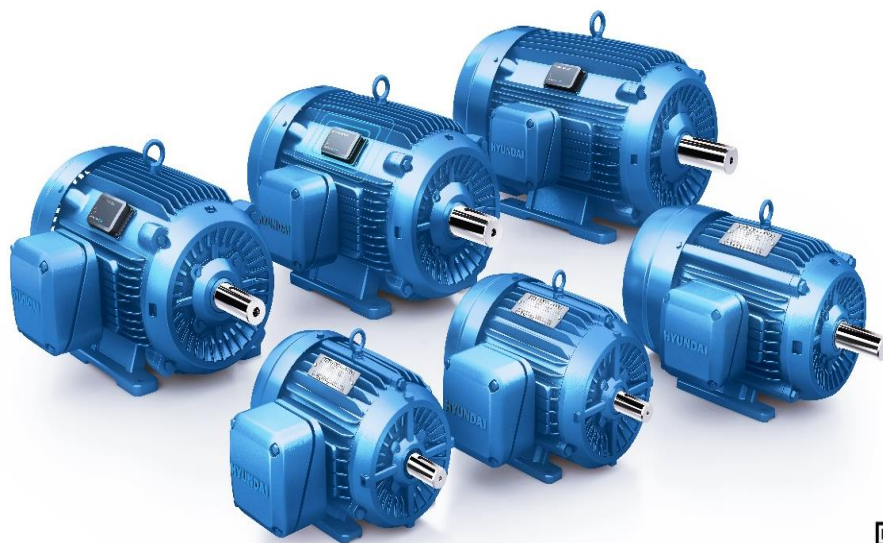


Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION for INDUCTION MOTOR



0		For Bidding			
No.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

AC INDUCTION MOTOR DATA SHEET

Catalog No.	HES7.5-18-132S	Item No.			Rev. No.	[]	
Project Name		Project No.			Quantity	sets	
GENERAL SPECIFICATION				PERFORMANCE DATA			
Frame Size	132S		Rated Output	5.5 kW		7.5 HP	
Type	PJP		Number of Poles	4			
Enclosure(Protection)	Totally Enclosed / IP55		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	D.O.L			
Rated Frequency	60 Hz		Rated Voltage		460 V	230 V	
Number of Phases	3		Current	Full Load	10.5 A	20.9 A	
Insulation Class	F			Locked-rotor**	750 %	750 %	
Temp. Rise at full load (by resistance method)			Efficiency				
	at 1.0 S.F	80 deg. C					
Motor Location	☐ Indoor ☐ Outdoor		50% Load 88.7 %				
Altitude	Less than 1,000 meter		75% Load 90.7 %				
Relative Humidity	Less than 80 %		100% Load 91.7 %				
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)				
Duty Type	Continuous (S1)		50% Load 0.570				
Service Factor	1.15		75% Load 0.670				
Mounting	B3		100% Load 0.720				
Bearing	Type	Anti-Friction	Speed at Full Load		1760 r.p.m		
	DE/N-DE	6208ZZC3 / 6208ZZC3	Torque				
	Lubricant	Grease(Polyrex-EM)	Full Load		22.02 lb.ft		
External Thrust	Not applicable		Locked-rotor**		200 %		
Coupling Method	☒ Direct ☐ V-belt		Breakdown**		240 %		
Shaft Extension	Single		Moment of Inertia (J)				
Terminal	Main	Cast Iron	Load(Max.)		46.037 lb.ft2		
Box	Aux.	No	Motor		0.570 lb.ft2		
	Location	Refer to Outline Drawing	Sound Pressure Level (No-load & mean value at 1m from motor)				
Application					62 dB(A)		
Area classification	Hazardous		Vibration		2.8 mm/s (r.m.s)		
Type of Ex-Protection	Class I&II, Division 2		Permissible number of consecutive starts		Cold 3 times		
Applicable Standard	IEC, CSA C390				Hot 2 times		
			Paint	PANTONE	PANTONE279C		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		LM-T2131B3PTV09	150 lb.	
SPARE PARTS			REMARK				
			1. IE3 (Premium efficiency) according to IEC60034-30-1				
			2. Inverter Duty @ 1.0 Service Factor & F Temperature rise				
			-. 10:1 VT (20:1 VT at 50% load)				
			-. 10:1 CT				
			-. CHP up to 1.5 times base speed, NEMA MG1 Part31				
			3. CSA Certification				
			-. Class I, Division 2, Group A, B, C & D				
			-. Class II, Division 2 Group E, F & G (Group E : up to 200Fr.)				
			4. Service Factor 1.15 and Temperature rise B are applicable under the condition of sine wave power.				
			5. Service Factor 1.25 is applicable to motors of 100HP or less with temperature rise F & Non-Hazardous.				
			6. Temp. code : T3C(160°C) at sine wave				
			Date	DSND	CHKD	CHKD	APPD
			2025-09-19	S.H. LEE	I.K. KIM	R.G. KIM	S.W. KIM

[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 done according to maker standard, if not mentioned.

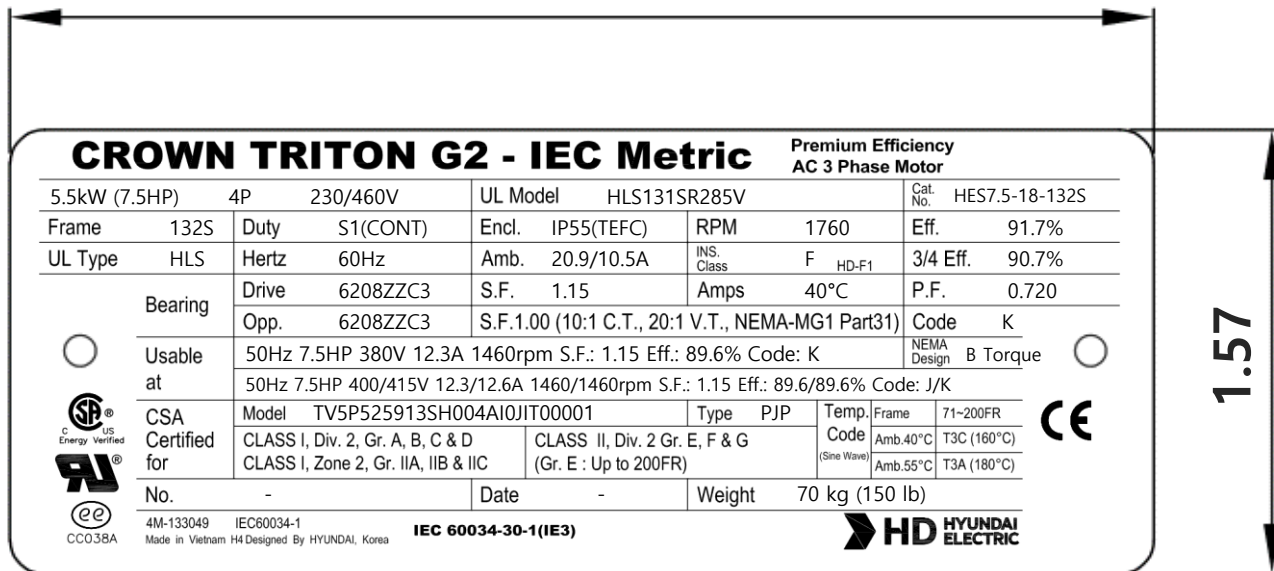
* In case of Inverter-Fed Motor, performance data is based on sine wave tests. It may be different from test data of Inverter combined motor.

** Data is based on rated voltage & frequency and is expressed as a percentage of full-load value.

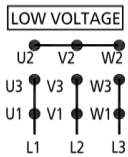
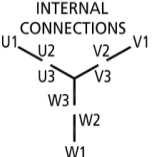
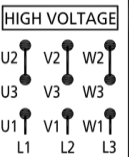
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY

MAIN NAMEPLATE

3.94



■ WIRING DIAGRAM

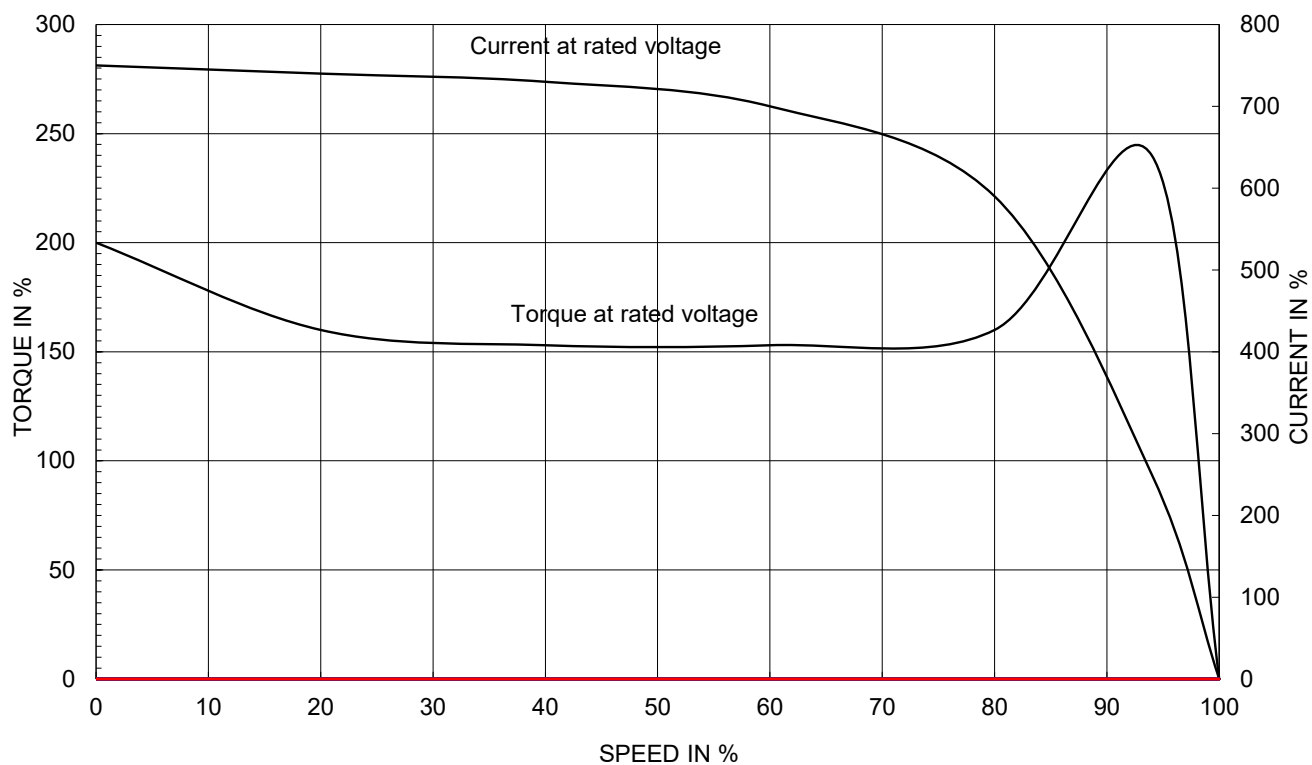
D.O.L (INVERTER & SOFT STARTER)	WYE-DELTA (Y-D)
 WARNING IMPROPER INSTALLATION, CONNECTION, OPERATION, GROUNDING OF THIS MOTOR MAY CAUSE SERIOUS INJURY TO PERSONNEL OR MOTOR FAILURE. READ INSTRUCTIONS CAREFULLY. GROUNDING SHOULD BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL SOUND PRACTICES. LOW VOLTAGE  INTERNAL CONNECTIONS  HIGH VOLTAGE  KEEP FINGERS AND FOREIGN OBJECTS AWAY FROM OPENINGS AND ROTATING PARTS DISCONNECT ALL POWER SOURCES BEFORE TOUCHING INTERNAL PARTS TO AVOID ELECTRICAL SHOCK. 4M-130355	N/A

APPD BY	S.Y.KIM	UNIT	INCH	SUBJECT	CSA Class I, Division2 Severe Duty (IEC, 71-132)	DWG SIZE
CHKD BY	I.K.KIM	SCALE	NONE			A4 (1:1)
CHKD BY	R.G.KIM	PROJEC'N	3rd Angle	TITLE	NAMEPLATE DRAWING	
DSND BY	S.H.LEE	DATE	2024.06.07			
				REF. NO	4M-133049 / 4M-130355	Sheet No. of
				DWG NO	NP-HES7.5-18-132S	Revision No. 0

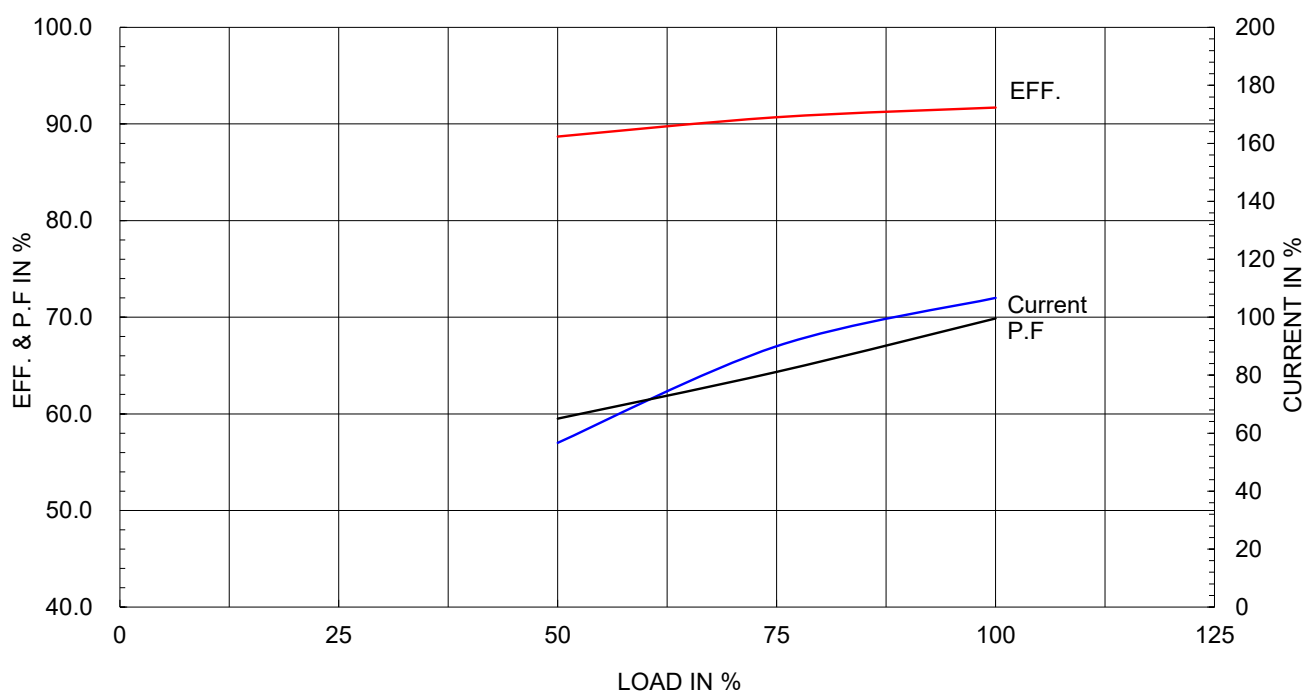
Type :	PJP	
Full Load Torque :	22.02	lb.ft
Load moment of Inertia (J) :	46.037	lb.ft2
Motor moment of Inertia (J) :	0.570	lb.ft2

5.5kW	7.5HP	4 P	60 Hz
Speed at Full Load :			1760 RPM
Rated Voltage		460V	230V
Full Load Current		10.5A	20.9A

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		

G

F

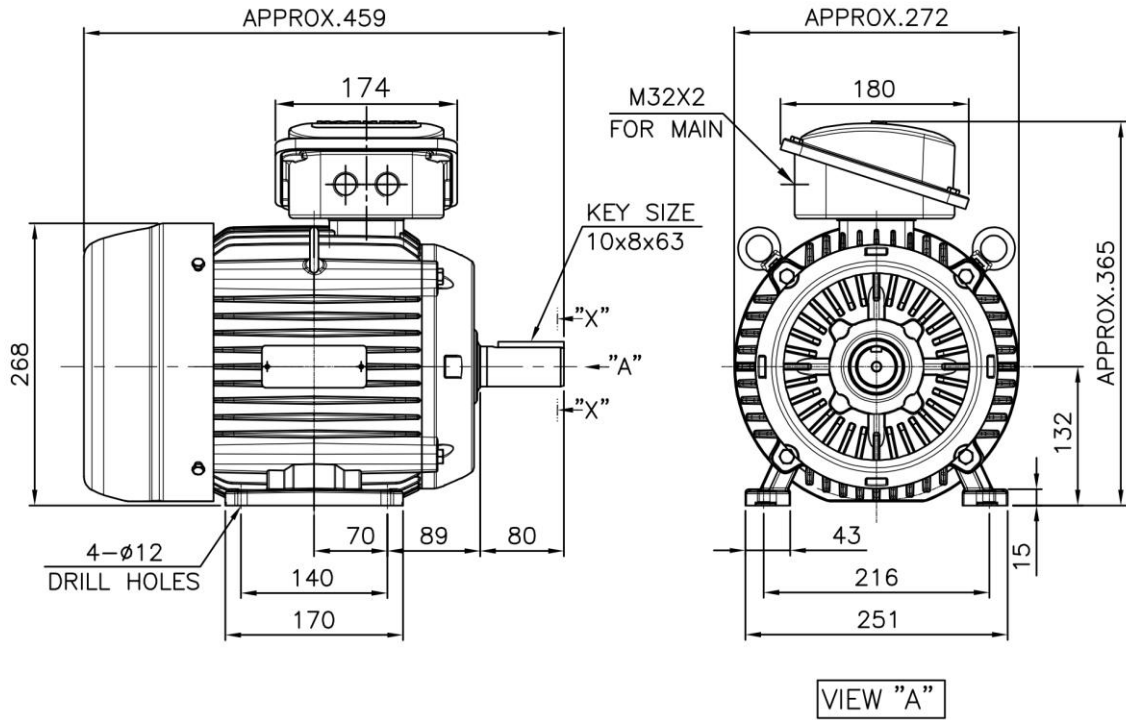
E

D

C

B

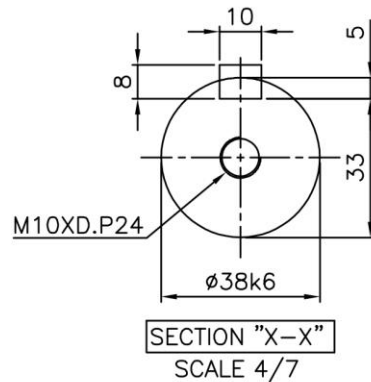
A



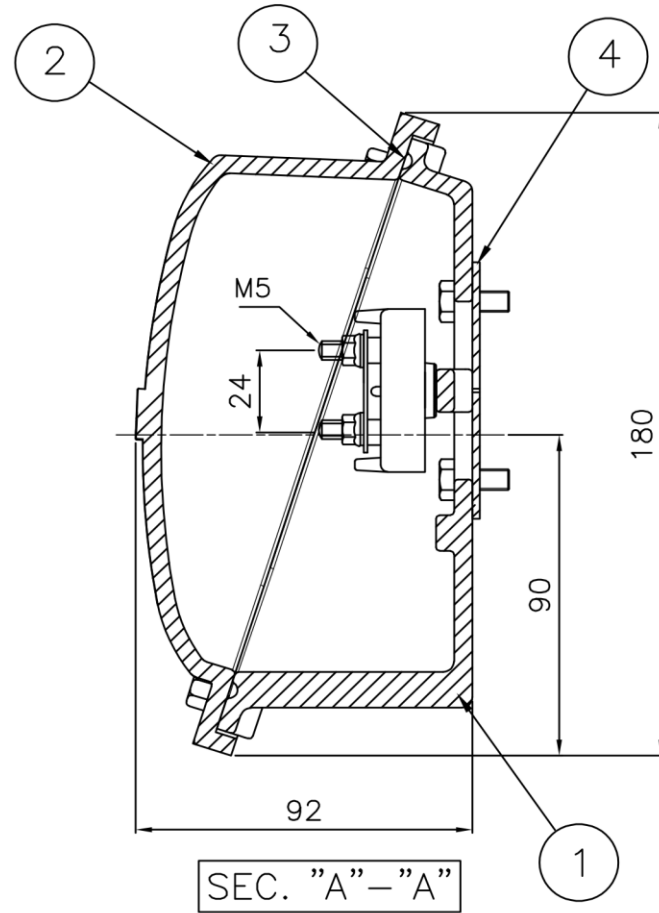
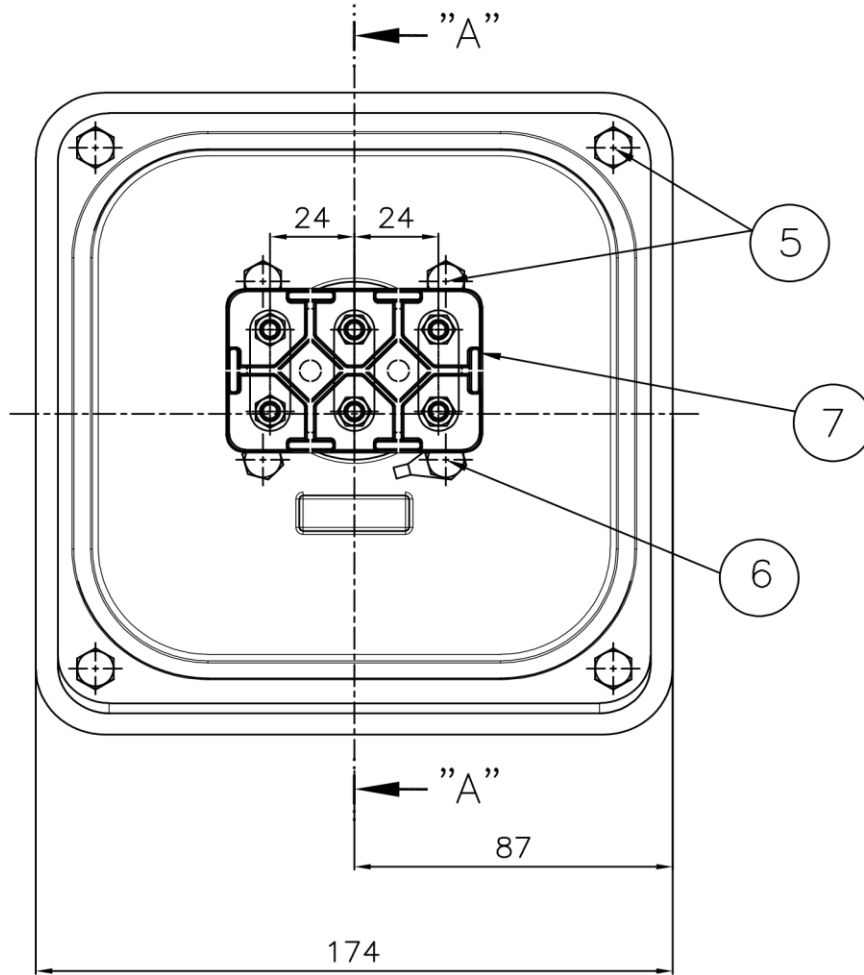
NOTE

1.TOLERANCE :

CENTER HEIGHT	132	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	$\phi 12$	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 38$	$\begin{smallmatrix} +0.018 \\ +0.002 \end{smallmatrix}$
KEYWAY WIDTH	10	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEYWAY DEPTH	5	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEY WIDTH	10	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEY HEIGHT	8	$\begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$



APPD BY	S.Y.KIM	UNIT	mm	SUBJECT	IEC 132S	DWG SIZE	A4 (1:7)
CHKD BY	I.K.KIM	SCALE	1/7	TITLE	OUTLINE	Sheet No.	of
CHKD BY		PROJEC'N	3rd Angle	REF. NO		DWG NO	LM-T2131B3PTV09
DSND BY	C.W.PARK	DATE	2022-04-15	Sheet No.	of	Revision No.	0



1	TERMINAL BLOCK	STD	M5					7
1	GROUND TERMINAL LUG	CU	--					6
8	BOX+FRAME HEX BOLT	S45C	M6					5
1	BOX GASKET	NBR	--					4
1	COVER GASKET (O--RING)	NBR	--					3
1	CONDUIT BOX COVER	CAST	--					2
1	CONDUIT BOX	CAST	--					1
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.	
APPD BY	S.Y.KIM	UNIT	mm	SUBJECT	FR.132 (CAST IRON)			DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/1.5	TITLE TERMINAL BOX ASS'Y				A3 (1:1.5)
CHKD BY	-	PROJEC'N	3rd Angle					
DSND BY	S.H.LEE	DATE	2021-12-17					
 HD HYUNDAI ELECTRIC				REF. NO		Sheet No.	of	
				DWG NO	3M-241772	Revision No.	0	
6	7	8	9					

일반가공공차				일반재공공차			
1-4	±0.1	6-30	±0.5	1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8	4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2	18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0	63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0	250-	±0.8	1000-	±3.0