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**INSPECTION & TEST REPORT**

PJT Name	삼성전자 화성공장		
Project No.	20213032RMH705	Serial No.	20213032RMH705001,002
Type	HLE6 403-46E	Quantity	2 Units
Specification	3Phase,750kW,4P,6600V,60Hz		

**TEST ITEMS**

**\* Final Inspection**

1. Visual & dimensional inspection
2. Measurement of winding resistance
3. Locked rotor test
4. No-load test and Direction of rotation check
5. Measurement of noise level
6. Measurement of vibration
7. Determination of characteristics
8. Temperature rise test
9. Measurement of insulation resistance
10. High voltage test
11. Other tests (WTD, BTD & Space heater)

**TEST RESULT: *Accept***

Approved By: \_\_\_\_\_



Reviewed and

Witnessed By: \_\_\_\_\_

Checked By: \_\_\_\_\_



Tested By: \_\_\_\_\_



PJT Name	삼성전자 화성공장	Project no.	20213032RMH705
model no.	HLE6 403-46E	Serial no.	20213032RMH705001
Item no.	***	shaft no.	1RMH705-1

**general rating**

Output kW	750	poles	4	voltage [V]	6600
Frequency [Hz]	60.0	speed [rpm]	1790.0	current [A]	80.6
Service factor	1.15(F/F)	insulation	F	max. amb. [°C]	40
time rating	S1	enclose	TEFC - IP55	weight [Kg]	4000
DE. bearing:	6324C3	NDE. bearing:	6324C3	efficiency [pu]	0.9580

**winding resistance in [Ω] at ambient temperature 9.4 [°C]**

phase	Ru-v:	Rv-w:	Rw-u:	averaged:	max. deviation [%]
stator	0.2935	0.2934	0.2937	0.2935	0.06
rotor	***	***	***	***	***

**no load and short circuit(locked rotor)**
**current unbalance**

item	[V]	[A]	[kW]	[Hz]	Iu [A]	Iv [A]	Iw [A]	deviation [%]
no load	6600.0	24.29	16.33	60.00	24.24	24.44	24.21	0.59
locked rotor	1445.73	81.20	22.74	60.00	***	***	***	***
rotor voltage	***	[V]	Direction of Rotation		C.C.W with U.W.V Connection (Viewed from D.E)			

**vibration measurement**

position	horizontal	vertical	axial	remark
DE	0.4	0.5	0.5	meas. Unit
NDE	0.3	0.4	0.4	mm/s(rms)

**temperature rise in [K]**

stator (R/E)	65.1 / 67.5	[V]	6600
rotor (R)	***	[Hz]	60
de. bearing	39.9	[A]	78.4
nde bearing	22.1	[kW]	***
slip ring	***	[Nm]	***
***	***	[rpm]	***

**noise level in dB(A) at 1 [m] distance from major frame**

averaged sound level (@)	remark
84.9	Background noise : 75

@ averaged value from 4 measured result (measured at front, rear, right, left side of machine)

This noise value is corrected by background noise

**insulation resistance in [MΩ]**

item	before test	after test	test voltage [V]
stator	11300	12200	2500
Rotor	***	***	***
E.T.D.	1000	1000	500
heater	1000	1000	500

**high voltage test**

item	test voltage [V]	duration [s]
stator	AC 14200	60
Rotor	***	***
E.T.D.	AC ***	***
heater	AC 1500	60

**over load and over speed**

item	test value	duration [s]	Remark
over load	*** [%] of rated load(current)	***	***
over speed	*** [%] of rated speed	***	***

**accessories and other data**

space heater	1	phase	200	[W]	220	[V]	243.8	[Ω]
name of item	accessory type	Q'ty	check result	Remark				
winding temperature	PT100	6	Good	***				
bearing temperature	PT100	2	Good	***				
air temperature	***	***	***	***				
additional	***	***	***	***				

\*\*\*

**Tested By**



We hereby confirm that the specified test were carried out in accordance with applicable standard(s) and that the satisfactory test result were obtained.

\* 삼성전자 화성공장

· 750kw, 4P, 660V, 60Hz

· 2021303) RMH705001

01 14.1 °C  
04 57.2 °C  
07 79.2 °C  
10 77.6 °C

02 14.3 °C  
05 54.0 °C  
08 81.6 °C  
11 81.5 °C

03 23.3 °C  
06 36.2 °C  
09 38.2 °C  
12 78.9 °C

1, 2      3      4, 5      7-12

1. Ambient temp

2. Air inlet

3. Air outlet

4. Frame

5. De bearing

6. W-de bearing

7-12. Windings

↑ 15 min



ATQ. 3773 (23519.4) - (235114.1)  
T.C. 2935

= 85.1k

SAM SUNG CHART

CHART NO. ET605

PJT Name	삼성전자 화성공장	Project no.	20213032RMH705
model no.	HLE6 403-46E	Serial no.	20213032RMH705001

**basic rating**

Output kW	750	poles	4	voltage [V]	6600
Frequency [Hz]	60.0	speed [rpm]	1790.0	current [A]	80.6
Service factor	1.15(F/F)	insulation	F	max. amb. [°C]	40

**winding resistance in [Ω]**

measured value at	9.4 [°C]	u-v:	0.2935	v-w:	0.2934	w-u:	0.2937
averaged phase resistance (refer to Y connection) [Ω]			0.198171	at specified temperature		95.00 [°C]	

**no load and short circuit(locked rotor) + actual load point for correction**

item	[V]	[A]	[kW]	[Hz]	[°C]	line-line [Ω]	[rpm]
no load	6600.0	24.29	16.330	60.00	13.80	***	***
locked rotor	389.55	80.81	9.754	15.00	9.60	***	***
	745.17	80.64	14.042	30.00	10.80	***	***
	1445.73	81.20	22.740	60.00	10.30	***	***
	2587.36	162.41	88.380	60.00	10.80	***	***
	***	***	***	***	***	***	***
actual load	***	***	***	***	***	***	***

**summary of constants**

temperature constant	stator: 235.0	Rotor: 235.0
constant loss	Wh = 7.098 [kW]	Wf = 8.968 [kW]
stray load loss	Wll = 3.914 [kW]	at primary current I1 = 80.60 [A]
reactance ratio	X1/X2 = 0.6700	

f2 [Hz]	1.200	15.00	30.00	60.00	60.00	60.00	***
stator current [A]	***	80.81	80.64	81.20	162.41	162.41	***
V1 [V]	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5	***
r1 [ohms]	0.198171	0.198171	0.198171	0.198171	0.198171	0.198171	***
r2 [ohms]	0.230673	0.515555	0.83238	1.452036	1.390603	1.390603	***
rfe [ohms]	5785.19	5790.3	5802.46	5813.91	5848.59	5848.59	***
X1 [ohms]	4.5756E+00	4.5082E+00	4.3478E+00	4.1971E+00	3.7415E+00	3.7415E+00	***
X2 [ohms]	6.8293E+00	6.7287E+00	6.4892E+00	6.2643E+00	5.5844E+00	5.5844E+00	***
bm [mhos]	6.5534E-03	6.5505E-03	6.5439E-03	6.5374E-03	6.5181E-03	6.5181E-03	***
gfe [mhos]	1.7286E-04	1.7270E-04	1.7234E-04	1.7200E-04	1.7098E-04	1.7098E-04	***
corrected constant from actual load point reading			Xm = ***	r2 = ***			

**summary of load characteristics**

load [pu]	0.25	0.50	0.75	1.00	1.25	2.83
current [A]	30.9	44.3	60.6	78.4	97.6	302.9
efficiency [pu]	0.9151	0.9513	0.9620	0.9657	0.9663	0.9047
power factor [pu]	0.5801	0.7780	0.8447	0.8668	0.8694	0.6784
slip [pu]	0.00111	0.00220	0.00334	0.00455	0.00588	0.04379
torque [kg.m]	101.6	203.4	305.5	407.8	510.5	1203.3

**locked rotor and break down characteristics**

locked rotor current [A]	495	break down torque [pu]	2.950
locked rotor torque [pu]	0.880	***	***



PJT Name	삼성전자 화성공장	Project no.	20213032RMH705
model no.	HLE6 403-46E	Serial no.	20213032RMH705001

**basic rating**

Output kW	750	poles	4	voltage [V]	6600
Frequency [Hz]	60.0	speed [rpm]	1790.0	current [A]	80.6
Service factor	1.15(F/F)	insulation	F	max. amb. [°C]	40

**winding resistance in [Ω]**

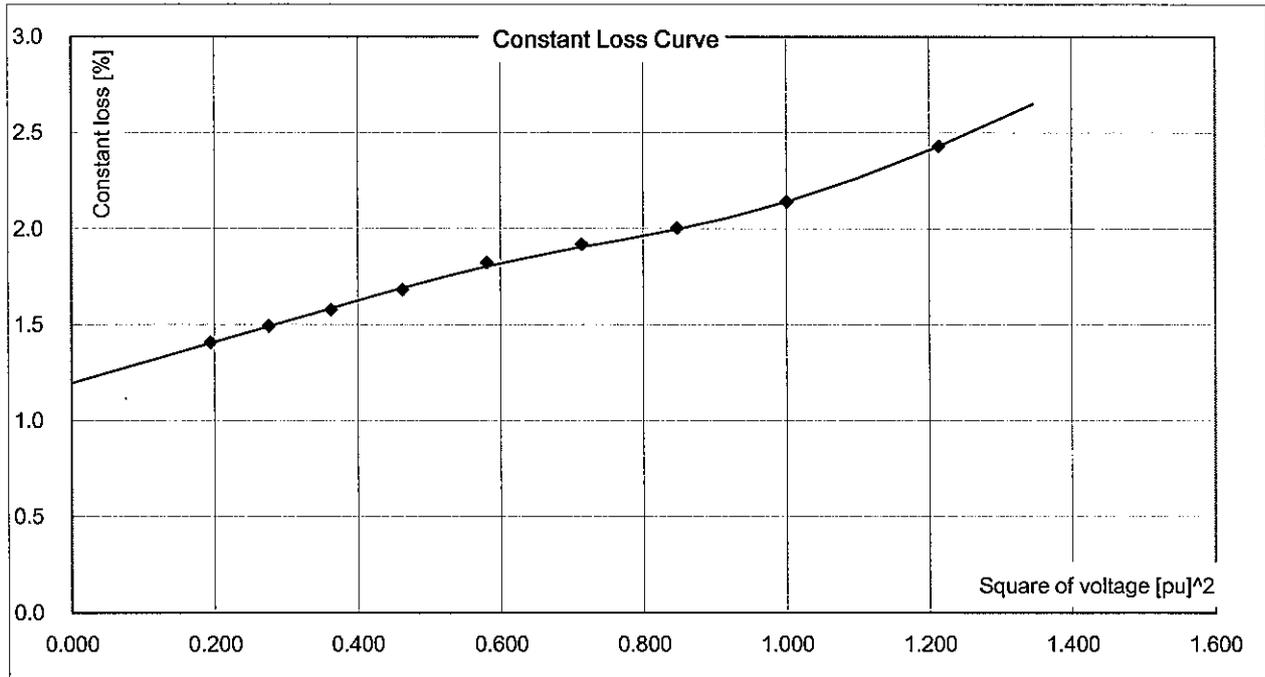
measured value at	9.40	[°C]	u-v:	0.2935	v-w:	0.2934	w-u:	0.2937
averaged phase resistance (refer to Y connection)			0.146767 [Ω]					

**no load reading**

[V]	[A]	[kW]	[Hz]	[rpm]	[°C]	line-line [Ω]
7269.30	31.06	18.660	60.00	***	13.80	***
6600.00	24.29	16.330	60.00	***	13.80	***
6072.80	21.12	15.240	60.00	***	13.80	***
5575.60	19.02	14.570	60.00	***	13.80	***
5028.90	17.07	13.820	60.00	***	13.80	***
4489.80	15.15	12.720	60.00	***	13.80	***
3973.00	13.24	11.920	60.00	***	13.80	***
3466.90	11.57	11.250	60.00	***	13.80	***
2907.20	9.76	10.600	60.00	***	13.80	***
***	***	***	***	***	***	***

**calculation and measured result**

no load core loss	[kW]	7.098
friction and windage loss	[kW]	8.968
no load current	[A]	24.30



PJT Name	삼성전자 화성공장	Project no.	20213032RMH705
model no.	HLE6 403-46E	Serial no.	20213032RMH705002
Item no.	***	shaft no.	1RMH705-2

**general rating**

Output kW	750	poles	4	voltage [V]	6600
Frequency [Hz]	60.0	speed [rpm]	1790.0	current [A]	80.6
Service factor	1.15(F/F)	insulation	F	max. amb. [°C]	40
time rating	S1	enclose	TEFC - IP55	weight [Kg]	4000
DE. bearing:	6324C3	NDE. bearing:	6324C3	efficiency [pu]	0.9580

**winding resistance in [Ω] at ambient temperature 9.6 [°C]**

phase	Ru-v:	Rv-w:	Rw-u:	averaged:	max. deviation [%]
stator	0.2939	0.2936	0.2937	0.2937	0.06
rotor	***	***	***	***	***

**no load and short circuit(locked rotor)**
**current unbalance**

item	[V]	[A]	[kW]	[Hz]	Iu [A]	Iv [A]	Iw [A]	deviation [%]
no load	6600.0	24.29	16.295	60.00	24.2	24.47	24.2	0.74
locked rotor	1442.66	80.66	22.376	60.00	***	***	***	***
rotor voltage	*** [V]		Direction of Rotation		C.C.W with U.W.V Connection			(Viewed from D.E)

**vibration measurement**

position	horizontal	vertical	axial	remark
DE	0.3	0.5	0.8	meas. Unit
NDE	0.4	0.4	0.6	mm/s(rms)

**temperature rise in [K]**

stator (R/E)	*** / ***	[V]	***
rotor (R)	***	[Hz]	***
de. bearing	***	[A]	***
nde bearing	***	[kW]	***
slip ring	***	[Nm]	***
***	***	[rpm]	***

**noise level in dB(A) at 1 [m] distance from major frame**

averaged sound level (@)	remark
***	***

@ averaged value from 4 measured result (measured at front, rear, right, left side of machine)

**insulation resistance in [MΩ]**

item	before test	after test	test voltage [V]
stator	50100	49700	2500
Rotor	***	***	***
E.T.D.	1000	1000	500
heater	1000	1000	500

**high voltage test**

item	test voltage [V]	duration [s]
stator	AC 14200	60
Rotor	***	***
E.T.D.	AC	***
heater	AC 1500	60

**over load and over speed**

item	test value	duration [s]	Remark
over load	*** [%] of rated load(current)	***	***
over speed	*** [%] of rated speed	***	***

**accessories and other data**

space heater	1	phase	200	[W]	220	[V]	243.2	[Ω]
name of item	accessory type	Q'ty	check result		Remark			
winding temperature	PT100	6	Good		***			
bearing temperature	PT100	2	Good		***			
air temperature	***	***	***		***			
additional	***	***	***		***			

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**Tested By**


We hereby confirm that the specified test were carried out in accordance with applicable standard(s) and that the satisfactory test result were obtained.

PJT Name	삼성전자 화성공장	Project no.	20213032RMH705
model no.	HLE6 403-46E	Serial no.	20213032RMH705002

**basic rating**

Output kW	750	poles	4	voltage [V]	6600
Frequency [Hz]	60.0	speed [rpm]	1790.0	current [A]	80.6
Service factor	1.15(F/F)	insulation	F	max. amb. [°C]	40

**winding resistance in [Ω]**

measured value at	9.6 [°C]	u-v:	0.2939	v-w:	0.2936	w-u:	0.2937
averaged phase resistance (refer to Y connection) [Ω]			0.198144	at specified temperature		95.00 [°C]	

**no load and short circuit(locked rotor) + actual load point for correction**

item	[V]	[A]	[kW]	[Hz]	[°C]	line-line [Ω]	[rpm]
no load	6600.0	24.29	16.295	60.00	14.10	***	***
locked rotor	390.34	80.77	9.873	15.00	9.90	***	***
	748.25	80.76	14.186	30.00	10.30	***	***
	1442.66	80.66	22.376	60.00	10.60	***	***
	2593.57	162.53	88.960	60.00	11.10	***	***
	***	***	***	***	***	***	***
actual load	***	***	***	***	***	***	***

**summary of constants**

temperature constant	stator: 235.0	Rotor: 235.0
constant loss	Wh = 6.792 [kW]	Wf = 9.238 [kW]
stray load loss	Wll = 3.914 [kW]	at primary current I1 = 80.60 [A]
reactance ratio	X1/X2 = 0.6700	

f2 [Hz]	1.200	15.00	30.00	60.00	60.00	60.00	***
stator current [A]	***	80.77	80.76	80.66	162.53	162.53	***
V1 [V]	3810.5	3810.5	3810.5	3810.5	3810.5	3810.5	***
r1 [ohms]	0.198144	0.198144	0.198144	0.198144	0.198144	0.198144	***
r2 [ohms]	0.247104	0.524472	0.842458	1.44623	1.397296	1.397296	***
rfe [ohms]	6044.73	6049.75	6062.35	6073.63	6110.96	6110.96	***
X1 [ohms]	4.5816E+00	4.5183E+00	4.3592E+00	4.2171E+00	3.7477E+00	3.7477E+00	***
X2 [ohms]	6.8382E+00	6.7437E+00	6.5062E+00	6.2942E+00	5.5935E+00	5.5935E+00	***
bm [mhos]	6.5537E-03	6.5509E-03	6.5444E-03	6.5383E-03	6.5184E-03	6.5184E-03	***
gfe [mhos]	1.6543E-04	1.6530E-04	1.6495E-04	1.6465E-04	1.6364E-04	1.6364E-04	***
corrected constant from actual load point reading			Xm = ***	r2 = ***			

**summary of load characteristics**

load [pu]	0.25	0.50	0.75	1.00	1.25	2.82
current [A]	30.9	44.3	60.6	78.4	97.7	303.2
efficiency [pu]	0.9152	0.9512	0.9618	0.9654	0.9659	0.9007
power factor [pu]	0.5801	0.7780	0.8446	0.8667	0.8692	0.6785
slip [pu]	0.00119	0.00236	0.00358	0.00488	0.00630	0.04778
torque [kg.m]	101.6	203.5	305.6	408	510.7	1204.3

**locked rotor and break down characteristics**

locked rotor current [A]	496	break down torque [pu]	2.952
locked rotor torque [pu]	0.901	***	***



PJT Name	삼성전자 화성공장	Project no.	20213032RMH705
model no.	HLE6 403-46E	Serial no.	20213032RMH705002

**basic rating**

Output kW	750	poles	4	voltage [V]	6600
Frequency [Hz]	60.0	speed [rpm]	1790.0	current [A]	80.6
Service factor	1.15(F/F)	insulation	F	max. amb. [°C]	40

**winding resistance in [Ω]**

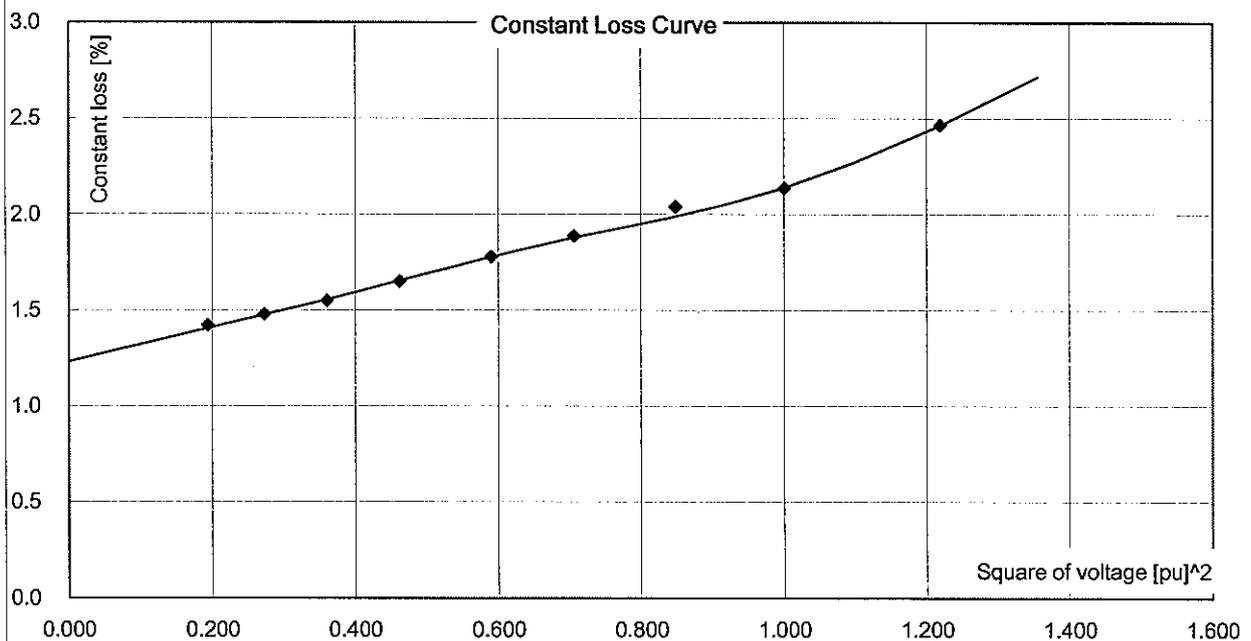
measured value at	9.60	[°C]	u-v:	0.2939	v-w:	0.2936	w-u:	0.2937
averaged phase resistance (refer to Y connection)			0.146867		[Ω]			

**no load reading**

[V]	[A]	[kW]	[Hz]	[rpm]	[°C]	line-line [Ω]
7285.70	31.04	18.940	60.00	***	14.10	***
6600.00	24.29	16.300	60.00	***	14.10	***
6076.40	21.04	15.500	60.00	***	14.10	***
5546.10	18.89	14.320	60.00	***	14.10	***
5069.90	16.97	13.480	60.00	***	14.10	***
4489.80	15.00	12.490	60.00	***	14.10	***
3962.20	13.24	11.700	60.00	***	14.10	***
3445.80	11.42	11.140	60.00	***	14.10	***
2903.20	9.71	10.690	60.00	***	14.10	***
***	***	***	***	***	***	***

**calculation and measured result**

no load core loss	[kW]	6.792
friction and windage loss	[kW]	9.238
no load current	[A]	24.30

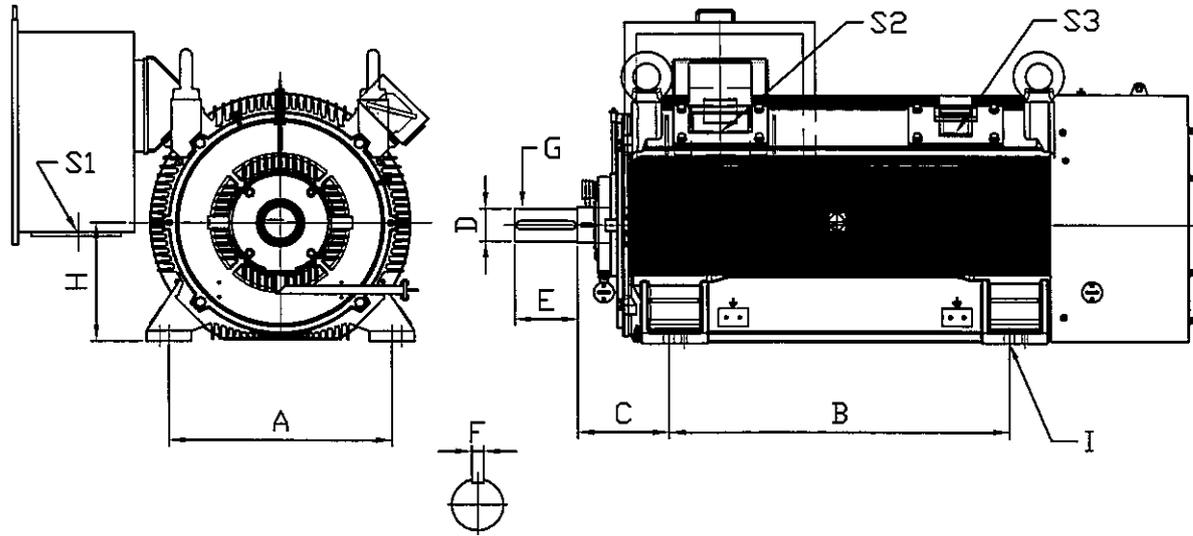


### Measuring Equipment List of Motor Test(M10M)

NO.	Name	Serial No	Calibration Date	Recalibration Date	Remarks
1	Mega ohm tester (1V~5000V)	829065	2021.09.03	2022.09.03	MEGGER
2	Temperature recorder	S5P609025	2021.09.16	2022.09.16	YOKOGAWA
3	Resistance ohm meter	MY42003423	2021.11.05	2022.11.05	AGILENT
4	Sound level meter	00821018	2021.05.28	2022.05.28	RION
5	Vibration meter	34347908	2021.04.09	2022.04.09	RION
6	Digital Power Meter	91G111567	2021.05.26	2022.05.26	YOKOGAWA
7	High voltage tester	9843-9	2021.05.04	2022.05.04	SIEMENS
8	Digital multi-meter	24070055	2021.05.28	2022.05.28	FLUKE
9	AC-Voltage Meter	76AE0582	2021.11.09	2022.11.09	YOKOGAWA
10	AC-Ampere Meter	73AE1163	2021.12.10	2022.12.10	YOKOGAWA
11	Mega ohm tester (500V/1000MΩ)	84NA1008	2021.11.11	2022.11.11	YOKOGAWA
12	TACHO METER(RPM)	N560326	2021.08.20	2022.08.20	LUTRON

	<b>INSPECTION REPORT</b> 검사 성적서			CHECKED BY : 검토자		
	PROJ. NO. 수주번호	20213032RMH705	SPEC 용량, 형식	750kW.4P,6600V	INSP. DATE 검사일	
PROJ. NAME 수주명	삼성전자 화성공장	DWG. NO. 도면번호	HM-101098-1/R.0	INSPECTOR 검사자		
		Q'TY 수량	1SET	SERIAL NO. 일련번호	20213032RMH70500	

FINAL CHECK SHEET(D)



# CHECK POINT : 'G' SHAFT RUN OUT

# CHECK DEVICE : V-CALIPERS, MICROMETER, DEPTH GAUGE

PART \ MK	A	B	C	D	E	F	G	H	I
SPEC	±1.5 750	±2.5 1120	±1.0 254	±0.075 ø110	±0.5 210	±0.022 28	max. 0.070	0 -1.0 400	4-ø35
CHECK	-0.2	-0.1	+0.3	+0.021	-0.1	-0.021	0.01	-0.2	4-ø35

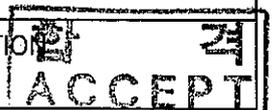
PART \ MK	S1	S2	S3
SPEC	1-ø90	2-PF3/4"	1-PF3/4"
CHECK	1-ø90	2-PF3/4"	1-PF3/4"

NOTE(특기)

# VISUAL INSPECTION : AC

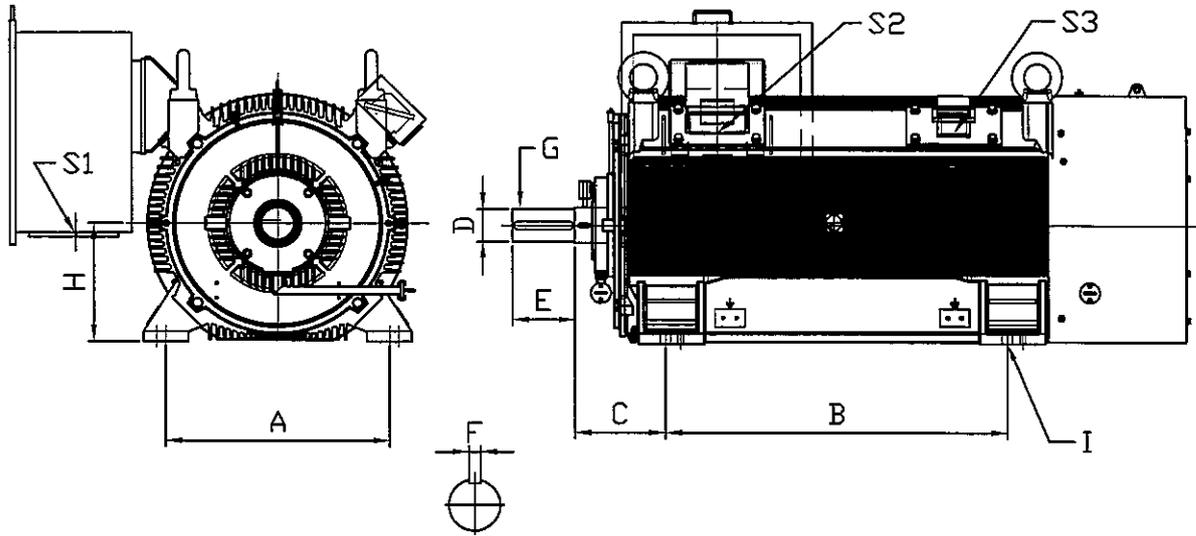
AC : ACCEPT (양호)    RJ : REJECT (불량)    NA : NOT APPLICATION (해당없음)

FINAL INSPECTION  
최종판정



	<b>INSPECTION REPORT</b> 검사 성적서			CHECKED BY : 검토자	
	PROJ. NO. 수주번호	20213032RMH705	SPEC 용량, 형식	750kW.4P,6600V	
PROJ. NAME 수주명	삼성전자 화성공장	DWG. NO. 도면번호	HM-101098-1/R.0	INSPECTOR 검사자	SERIAL NO. 일련번호
		Q'TY 수량	1SET	20213032RMH70500 2	

FINAL CHECK SHEET(D)



# CHECK POINT : 'G' SHAFT RUN OUT

# CHECK DEVICE : V-CALIPERS, MICROMETER, DEPTH GAUGE

PART \ MK	A	B	C	D	E	F	G	H	I	
SPEC	±1.5 750	±2.5 1120	±1.0 254	±0.075 ø110	±0.5 210	±0.075 28	max. 0.070	0 400	-1.0 4-ø35	
CHECK	-0.2	-0.1	+0.5	+0.033	-0.1	-0.033	0.01	-0.4	4-ø35	

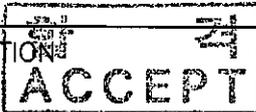
PART \ MK	S1	S2	S3						
SPEC	1-ø90	2-PF3/4"	1-PF3/4"						
CHECK	1-ø90	2-PF3/4"	1-PF3/4"						

NOTE(특기)

# VISUAL INSPECTION : AC

AC : ACCEPT (양호)    RJ : REJECT (불량)    NA : NOT APPLICATION (해당없음)

FINAL INSPECTION  
최종판정



	<b>INSPECTION REPORT</b> <b>검사 성적서</b>			CHECKED BY : 	
	PROJ.NO 수주번호	20213032RMH705	SPEC 용량, 형식	750kW, 4P, 6600V, 60Hz	INSP.DATE 검사일
PROJ.NAME 수주명	삼성전자 화성공장	DWG.NO 도면번호	P-20213032 Rev. 0	INSPECTOR 검사자	
		Q'TY 수량	2 SET	SERIAL.NO 일련번호	20213032RMH70500 1 - 2

**FINAL PAINT CHECK SHEET**  
**페인트 검사**

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(UNIT : μm)

PART 구분	INSPECTION ITEM 검사 항목	SPEC 기준 값	CHECK (검사)			REMARK
			NO. 1	NO. 2	NO.	
Prime Coat.	PAINT MT'L(재질)	EP1160(H)	EP1160(H)	EP1160(H)	*	
	COLOR(색상)	Gray	Gray	Gray	*	
	THICKNESS(두께)	60 μm	68 μm	69 μm	μm	
	T,Hu,D/P : 5~40℃ , 85%이하↓		AIR TEMP 25 ℃ HUMIDITY 62 % DEW POINT 17.2			
Intermedia te Coat.	PAINT MT'L(재질)	EH6270	EH6270	EH6270	*	
	COLOR(색상)	N7.0	N7.0	N7.0	*	
	THICKNESS(두께)	60 μm	129 μm	130 μm	μm	
	T,Hu,D/P : 5~40℃ , 85%이하↓		AIR TEMP 22 ℃ HUMIDITY 37 % DEW POINT 6.7			
Finish Coat.	PAINT MT'L(재질)	UT6780(S)	UT6780(S)	UT6780(S)	*	
	COLOR(색상)	7.5 BG 6/1	7.5 BG 6/1	7.5 BG 6/1	*	
	THICKNESS(두께)	40 μm	169~270 μm	170~280 μm	μm	
	T,Hu,D/P : 5~40℃ , 85%이하↓		AIR TEMP 24 ℃ HUMIDITY 35 % DEW POINT 7.6			
Total Dry film thickness		Min 160 μm	169~270 μm	170~280 μm	μm	

\* VISUAL (외관): AC

\* NOTE (노트):

AC : ACCEPT 양 호	RJ : REJECT 불 량	NA : NOT APPLICABLE 해 당 없 음	FINAL DECISION 최 종 판 정	<b>합 격</b> <b>ACCEPT</b>
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# Measuring Equipment List of Motor Test

NO.	Name	Size	Serial NO.	Calibration Date	Recalibration Date	Remarks
1	버니어캘리퍼스(Vernier Calipers)	0 - 300 mm	7077047	2021-09-02	2022-09-02	MITUTOYO
2	버니어캘리퍼스(Vernier Calipers)	0 - 1 500 mm	521604	2021-09-02	2022-09-02	MITUTOYO
3	다이얼게이지(Dial gauge)	0 - 10 mm	ZAK956	2021-08-19	2022-08-19	MITUTOYO
4	깊이게이지(Depth gauge)	0 - 300 mm	71102543	2021-09-03	2022-09-03	MITUTOYO
5	내측 마이크로미터(Caliper Micrometer)	5 - 30 mm	602216	2021-09-03	2022-09-03	MITUTOYO
6	외측 마이크로미터(Outside Micrometer)	100 - 125 mm	544755	2021-09-04	2022-09-04	MITUTOYO
7	Digital Coating Thickness Tester	0 - 1.5 mm	645063	2021-09-07	2022-09-07	MITUTOYO
8	줄자(Tape Measure)	5.0M	RM-0002	2021-05-28	2023-05-28	KOMELON
9			Blank			
10			Blank			
11			Blank			
12			Blank			
13			Blank			
14			Blank			
15			Blank			