

Test Data Report

TDR-yymmddWrr

Type Name

Model Number

Tested by: _____

Date: yyyy-mm-dd

Reviewed by: _____

Date: yyyy-mm-dd

Assist CE Inc.

101, 1-7-9, Omorihoncho, Ota-ku, Tokyo
143-0011 Japan
tel: 03-4405-5112



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Contents

No	Test Items	Attached
1	General notes on tests	Form A1
2	Safety function test	Form C1
3	Sound pressure measurement	Form D1
4	Leakage current measurement	Form E1
5	Residual voltage measurement	Form F1
6	Continuity of protective circuit test	Form G1
7	Insulation resistance measurement	Form N1
8	Voltage withstanding test	Form O1

General notes on tests

Form A1
1 of 1

Equipment under test

Type name
Model number
Manufacturer name
Manufacturer address

EUT Specifications

Environments cc.c °C, hh %, aaaa hpa
Marked ratings AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Protection class I
IP code IPXX
Pollution degree 2
Note

Test Conditions

Test location Assist CE Inc.
101, 1-9-7, Omorihoncho, Ota-ku, Tokyo 143-0011 Japan
Reference standard Accordance with Cl.18 in EN 60204-1:2006+A1:2009

Safety function test

Form C1

1 of 2

Description	Accordance with Cl.18 in EN 60204-1:2006+A1:2009
EUT Specifications	
Marked ratings	AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode	A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Input Voltage	AC 200V, 50Hz
Test Method	Power Meter
Test Points	Following table
Test time	1 min

No.	Test Point	Result
	Interlocking switch / Front door of processing room	<p>When the door is open, the machine cannot activate power circuits relevant to moving parts.</p> <p>During the machine activate, the door cannot be opened if the power source cut off. The machine cannot restart without initializing process by voluntary action.</p> <p>[photo]</p> <p>FAIL</p> <p>The locking device releases immediately when the OFF button is pushed and the mode switch turned to maintenance, whether the spindle rotates still high.</p>
	Mode change switch / operation panel	<p>FAIL</p> <p>AS soon as the mode select switch turn to manual mode, it is possible that operator releases the interlock device on the door, whether the spindle rotetes still high.</p> <p>[photo]</p>
	EMO switch / operation panel, nearby front door of processing room	<p>All moving parts stop immediately. MCxx, MCxx are opened.</p> <p>The machine cannot restart unless initializing with voluntary action.</p> <p>[photo]</p>

Item	Equipment/Model, Manufacturer		Serial No.	Calibration Due		Note
—	—		—	—		—
			Date	yyyy-mm-dd	Tested by	S. Watanabe

SAMPLE

Sound pressure measurement

Form D1
1 of 2

Description	Accordance with Annex I of Machinery Directive
EUT Specifications	
Marked ratings	AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode	A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Input Voltage	AC 200V, 50Hz
Test Method	Sound level meter
Measurement Points	Following figure and table
Measurement distance	1 m from surface of EUT
Measurement height	1.6 m
Measurement time	120 s

No.	Measurement Point	Operation mode	Input Voltage [V]	Input Frequency [Hz]	L _A [dB(A)]	L _{Cpk} [dB]
1	A	A	220	60		
2	B	A	220	60		
3	C	A	220	60		
4	D	A	220	60		

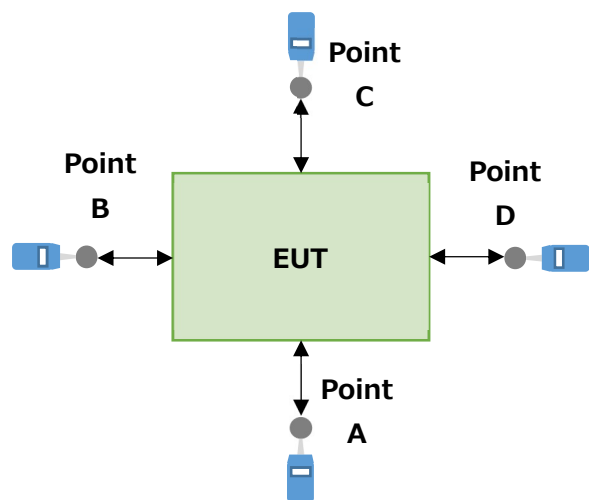
Note:

L_A: A-weighted emission sound pressure level

L_{Cpk}: The peak C weighted instantaneous sound pressure level

Sound pressure measurement

Form D1
2 of 2



[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note	
1	Sound Level Meter / NL52EX, RION	932279	2017-11	SL1	
		Date	yyyy-mm-dd	Tested by	S. Watanabe

Leakage current measurement

Form E1
1 of 2

Description	For Cl.8.2.8 in EN 60204-1:2006+A1:2009
EUT Specifications	
Marked ratings	AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode	A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Input Voltage	AC 200V
Input Frequency	50Hz
L-N condition	Normal / Reverse
Abnormal condition	—: (Normal), A: Open PE
Measurement Method	Leakage Current Meter / Current Clamp (ground current)
Measurement Points	Following table
Measurement time	1 min

No.	Measurement Point	Test Condition				Measured [mA]
		Input Voltage [V]	Input Frequency [Hz]	L-N Condition	Abnormal Condition	
1	Mains earth	220	60	Normal	—	
2	Mains earth	220	60	Reverse	—	
3	Enclosure	220	60	Normal	—	
4	Enclosure	220	60	Reverse	—	
5	Enclosure	220	60	Normal	A	
6	Enclosure	220	60	Reverse	A	

Leakage current measurement

Form E1
2 of 2

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note	
1	Leakage Crump Tester / ST5540, HIOKI	170348488	2018-05	LT1	
1	Leakage Clamp Meter / 3293-50, HIOKI	17030057	2018-05	LC1	
		Date	yyyy-mm-dd	Tested by	S. Watanabe

Residual voltage measurement

Form F1
1 of 2

Description	Accordance with Cl.18 in EN 60204-1:2006+A1:2009
EUT Specifications	
Marked ratings	AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode	A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Input Voltage	AC 200V, 50Hz
Measurement Method	Oscilloscope, Probe
Measurement Points	Following table
Measurement time	1 s, 5 s, 10 s

No.	Measurement Point	Working Voltage [V]	Measurement Voltage		
			10 s after [V]	5 s after [V]	1 s after [V]
1	L1 to PE / MAIN	220	—	—	
2	L2 to PE / MAIN	220	—	—	
3	L3 to PE / MAIN	220	—	—	
4	L1 to L2 / MAIN	220	—	—	
5	L2 to L3 / MAIN	220	—	—	
6	L3 to L1 / MAIN	220	—	—	

Residual voltage measurement

Form F1
2 of 2

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note	
1	Digital Oscilloscope / TDS3014, TEKTRONIX	B012142	2018-05		
2	Probe (100:1) / 701947, YOKOGAWA	—	2018-05	ACE-P1	
3	Probe (100:1) / 701947, YOKOGAWA	—	2018-05	ACE-P2	
4	Probe (100:1) / 701947, YOKOGAWA	—	2018-05	ACE-P3	
		Date	yyyy-mm-dd	Tested by	S. Watanabe

Continuity of protective circuit test

Form G1
1 of 2

Description	Accordance with Cl.18 in EN 60204-1:2006+A1:2009
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Test Method	Earth continuity tester
Test Points	Following table
Test Current	25 A
Test Frequency	60 Hz
Measurement time	120 s

No.	Test Point	Cross Section Size of PE Conductor	Max. Permitted Resistance [Ω]	Resistance [Ω]	Voltage [V]	Result Pass/Fail
1	Left door of control panel	—			—	
2	Right door of control panel	—			—	
3	Interconnection box 1	—				
4	M1	—				

Continuity of protective circuit test

Form G1
2 of 2

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note	
1	Earth Continuity Tester / TOS6210, KIKUSUI	XD001323	2018-05	EC1	
		Date	yyyy-mm-dd	Tested by	S. Watanabe

Insulation resistance measurement

Form N1
1 of 1

Description	Accordance with Cl.18 in EN 60204-1:2006+A1:2009
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Test Voltage	Following Teble
Test Time	1 min
Devices disconnected	Z1 for MAINS

No.	Test Point	Test Voltage [Vdc]	Measured [MΩ]	Result Pass/Fail
1	L1, L2, L3 / MAIN - PE	500	>100	
2	U1, V1, W1 / MC1 - PE	500	>100	

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note	
1	Insulation Tester / IR4042-11, HIOKI	170324334	2018-05	IT1	
		Date	yyyy-mm-dd	Tested by	S. Watanabe

Voltage withstanding test

Form O1
1 of 1

Description	Accordance with Cl.18 in EN 60204-1:2006+A1:2009
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Test Voltage	Following Table
Test Frequency	60 Hz
Test Time	1 s
Devices disconnected	Z1 for MAINS

No.	Test Point - Refer to Test Points Table for details	Test Voltage [V]	Result Pass/Fail
1	L1, L2, L3 / MAIN - PE		
2	U1, V1, W1 / MC1 - PE		

[photo]

<div>[photo]</div>						
Item	Equipment/Model, Manufacturer		Serial No.	Calibration Due	Note	
1	Voltage Withstand Tester / TOS5301 , KIKUSUI		WM001177	2018-05		
			Date	yyyy-mm-dd	Tested by	S. Watanabe