

## Load Test Report

### Supply

Rating: 150kVA 0,80cosØ 120kW 400V 50Hz 3Ph 4Wire

### Performance Class

ISO 8528 G2	Steady State	Transient Increase	Transient Decrease	Recovery Time	Tolerance Band
Voltage:	2,5%	20,0%	25,0%	6s	5,0%
Frequency:	1,5%	10,0%	12,0%	5s	2,0%

### Engine

Make: Type No.:  
 Serial No.: Speed: 0  
 Governor: Battery GND: NEG

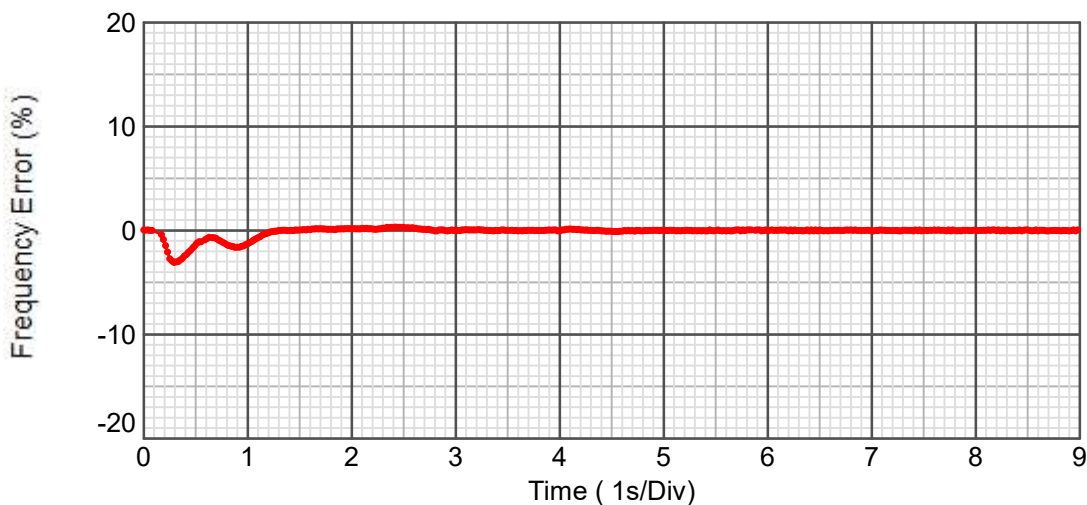
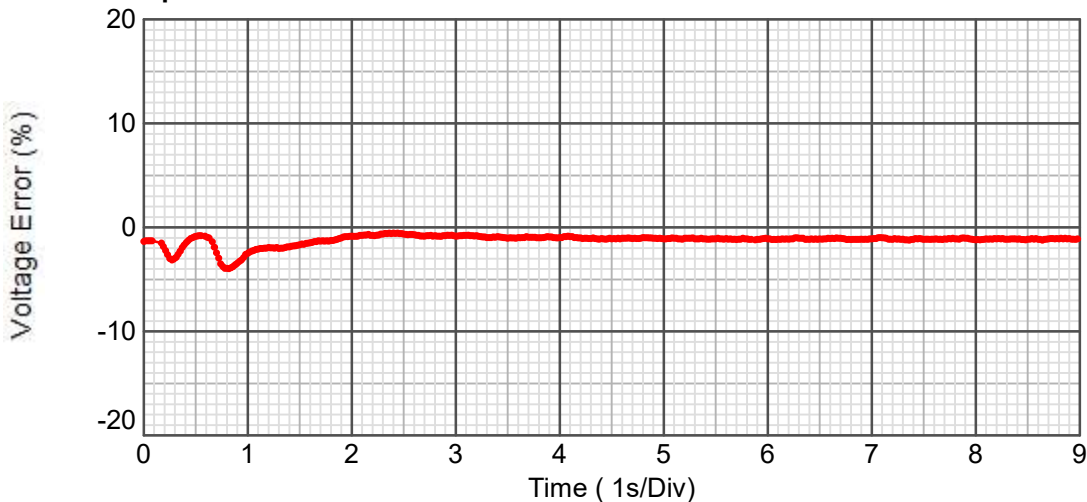
### Test Summary

Step	Elapsed Time h:mm:ss	Power % kW	Power Factor cosØ	Step Duration h:mm:ss	Power kVA	Power Factor cosØ	Voltage V
1	00:00:02	20,0	1,00	00:00:16	26	1,00	395,1
2	00:00:18	50,0	1,00	00:00:15	63	1,00	395,2
3	00:00:33	75,0	1,00	00:00:16	71	0,99	389,2
4	00:00:49	100,0	1,00	00:00:16	101	1,00	389,1
5	00:01:05	0,0	1,00	00:00:16	3	0,65	395,4
6	00:01:20	60,0	1,00	00:00:16	74	1,00	395,4
7	00:01:36	10,0	1,00	00:00:16	10	0,99	395,3

## Load Test Report

0,0% 1,00cosØ to 20,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	-0,5%	PASS	0,3%	PASS
Maximum -ve Deviation	-4,0%	PASS	-3,1%	PASS
Recovery Time	1,0s	PASS	0,9s	PASS

### Steady State Readings

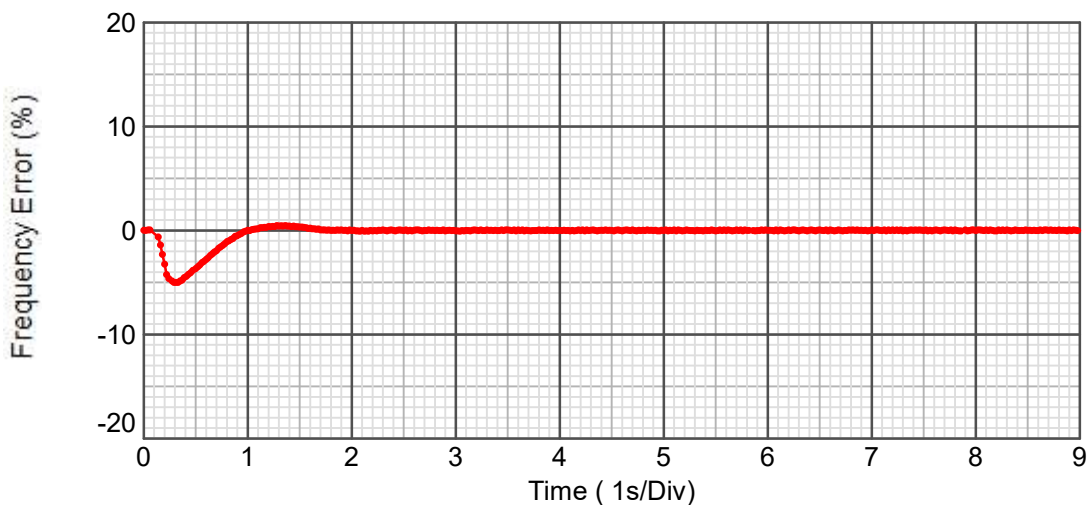
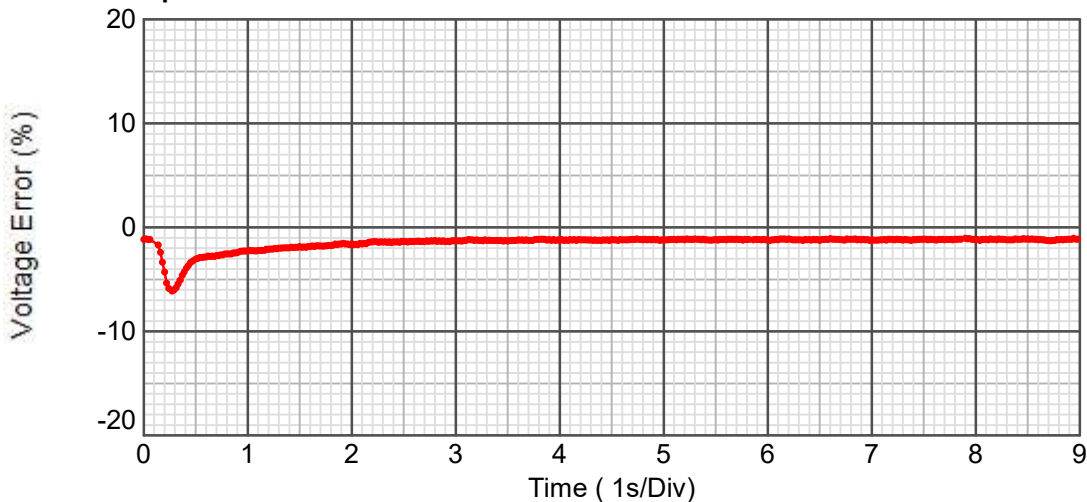
	Voltage		Frequency	
Steady State Value	395,1V		50,0Hz	
Maximum +ve Deviation	-1,0%	PASS	0,0%	PASS
Maximum -ve Deviation	-1,3%	PASS	0,0%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	26kVA	L1: 395,1V	228,1V	38A
	26kW	L2: 395,5V	228,3V	38A
	1,00cosØ	L3: 395,3V	228,2V	38A

## Load Test Report

20,0% 1,00cosØ to 50,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	-1,0%	PASS	0,5%	PASS
Maximum -ve Deviation	-6,1%	PASS	-5,0%	PASS
Recovery Time	0,9s	PASS	0,7s	PASS

### Steady State Readings

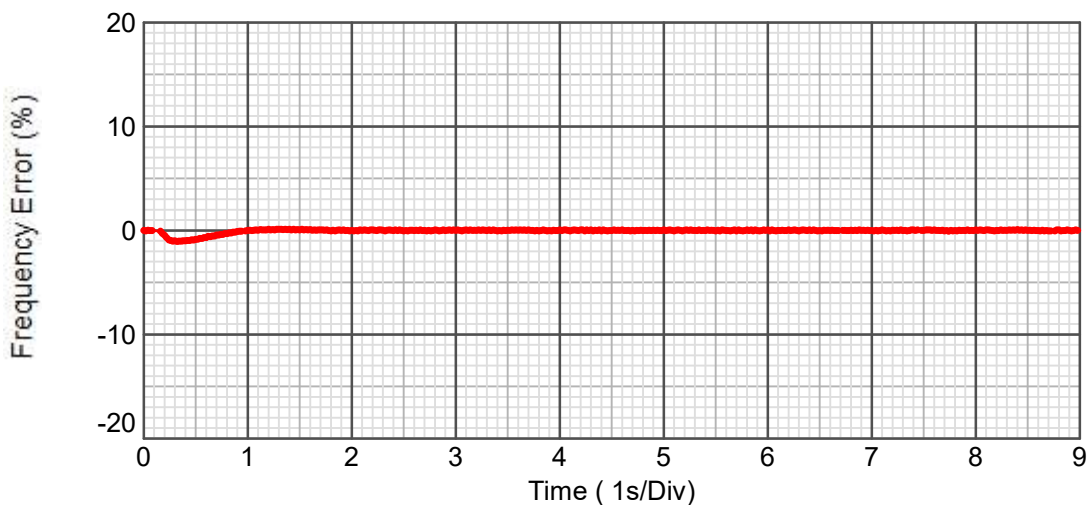
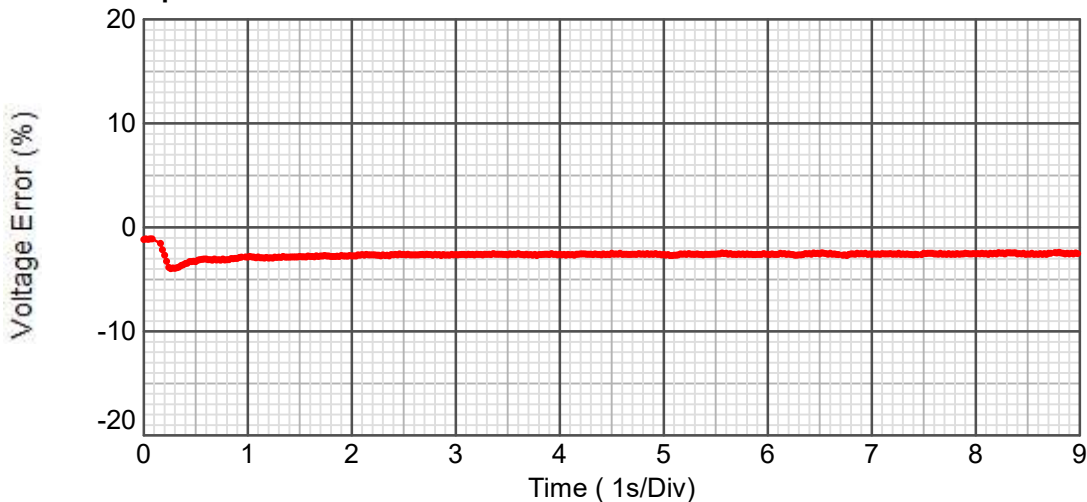
	Voltage		Frequency	
Steady State Value	395,2V		50,0Hz	
Maximum +ve Deviation	-1,0%	PASS	0,1%	PASS
Maximum -ve Deviation	-1,3%	PASS	-0,1%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:15	63kVA	L1: 395,2V	228,2V	92A
	63kW	L2: 396,2V	228,6V	91A
	1,00cosØ	L3: 395,7V	228,5V	91A

## Load Test Report

50,0% 1,00cosØ to 75,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	-1,1%	PASS	0,1%	PASS
Maximum -ve Deviation	-4,0%	PASS	-1,0%	PASS
Recovery Time	9,0s	FAIL	0,2s	PASS

### Steady State Readings

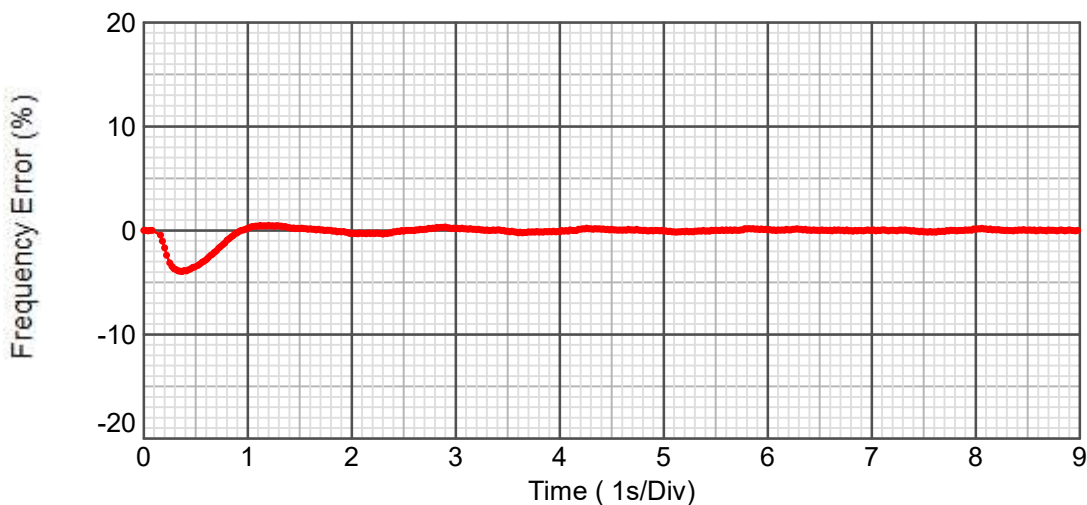
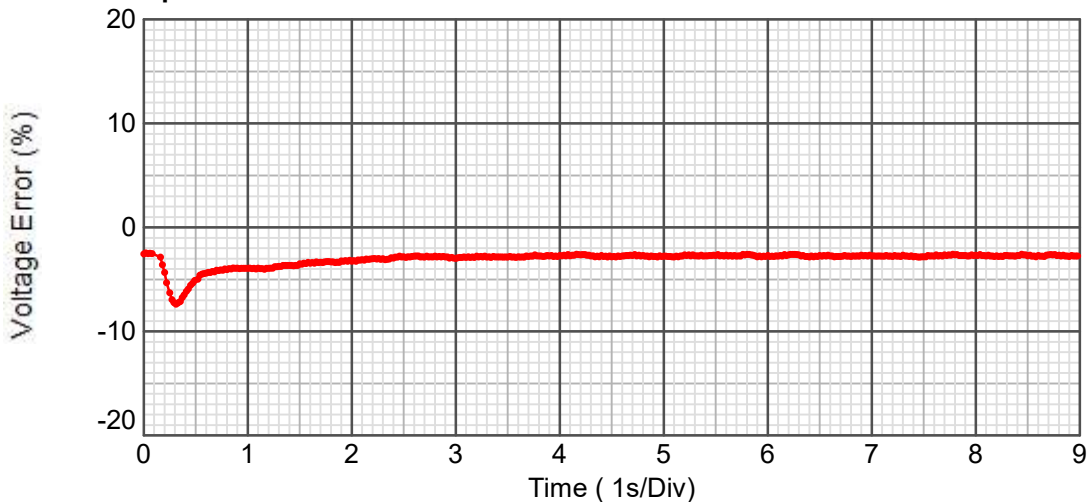
	Voltage		Frequency	
Steady State Value	389,2V		50,0Hz	
Maximum +ve Deviation	-2,3%	PASS	0,1%	PASS
Maximum -ve Deviation	-2,7%	FAIL	-0,1%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	71kVA	L1: 389,2V	232,4V	119A
	70kW	L2: 388,3V	221,6V	117A
	0,99cosØ	L3: 407,8V	231,3V	75A

## Load Test Report

75,0% 1,00cosØ to 100,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	-2,5%	PASS	0,5%	PASS
Maximum -ve Deviation	-7,4%	PASS	-3,9%	PASS
Recovery Time	>6,0s	FAIL	0,6s	PASS

### Steady State Readings

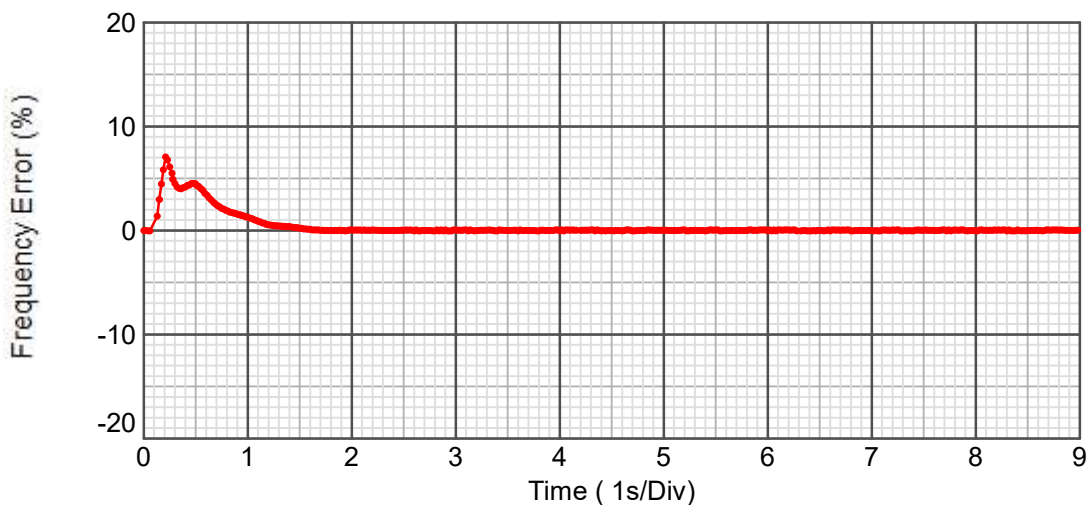
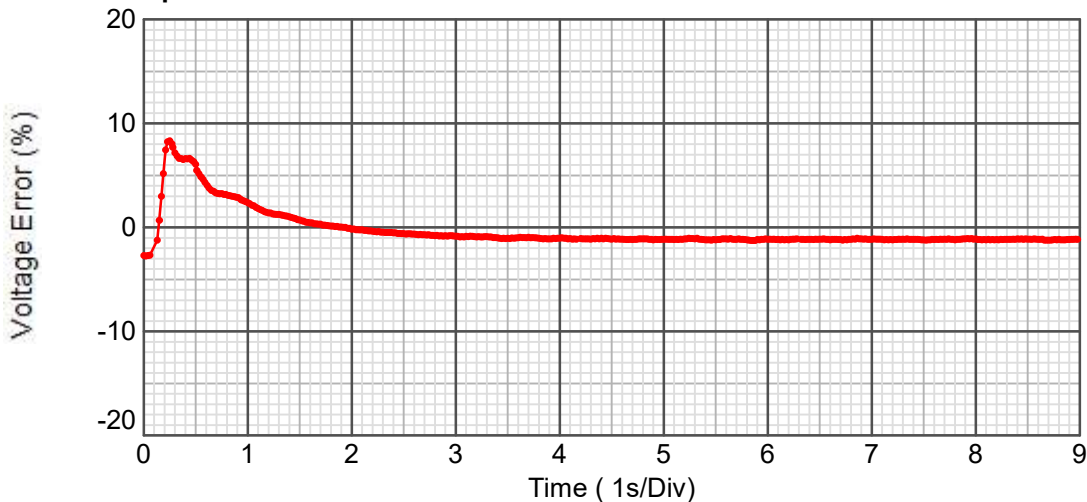
	Voltage		Frequency	
Steady State Value	389,1V		50,0Hz	
Maximum +ve Deviation	-2,4%	PASS	0,2%	PASS
Maximum -ve Deviation	-2,9%	FAIL	-0,2%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	101kVA	L1: 389,1V	231,9V	164A
	101kW	L2: 389,1V	222,1V	158A
	1,00cosØ	L3: 406,8V	231,1V	121A

## Load Test Report

100,0% 1,00cosØ to 0,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	8,3%	PASS	7,1%	PASS
Maximum -ve Deviation	-2,7%	PASS	0,0%	PASS
Recovery Time	1,0s	PASS	0,9s	PASS

### Steady State Readings

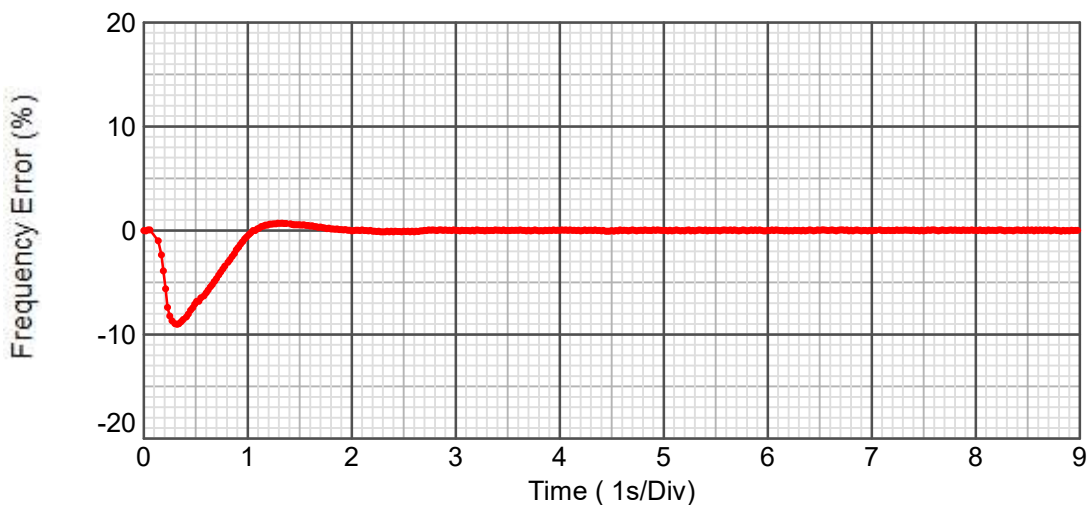
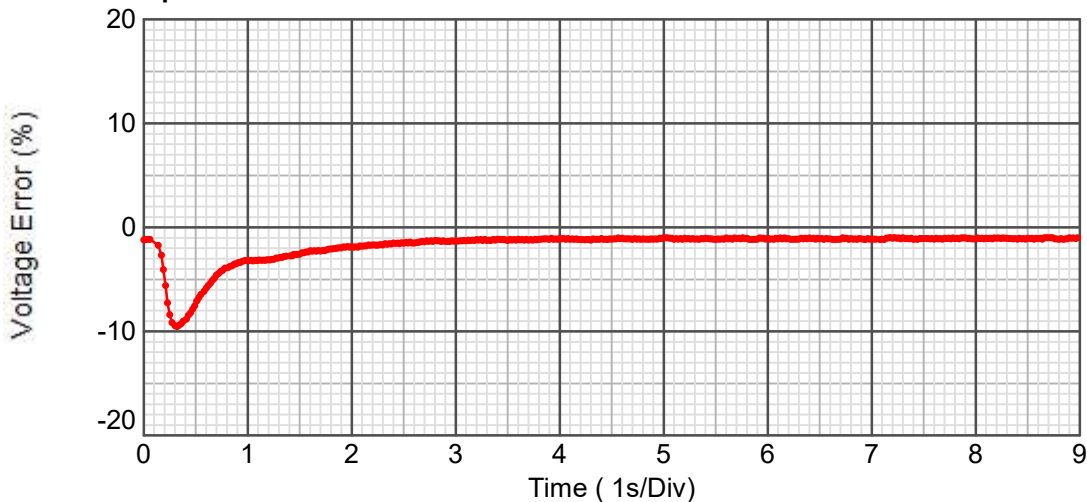
	Voltage		Frequency	
Steady State Value	395,4V		50,0Hz	
Maximum +ve Deviation	-1,0%	PASS	0,0%	PASS
Maximum -ve Deviation	-1,3%	PASS	0,0%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	3kVA	L1: 395,4V	228,2V	4A
	2kW	L2: 395,6V	228,0V	4A
	0,65cosØ	L3: 395,5V	228,3V	4A

## Load Test Report

0,0% 1,00cosØ to 60,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	-1,0%	PASS	0,7%	PASS
Maximum -ve Deviation	-9,5%	PASS	-9,0%	PASS
Recovery Time	1,5s	PASS	0,8s	PASS

### Steady State Readings

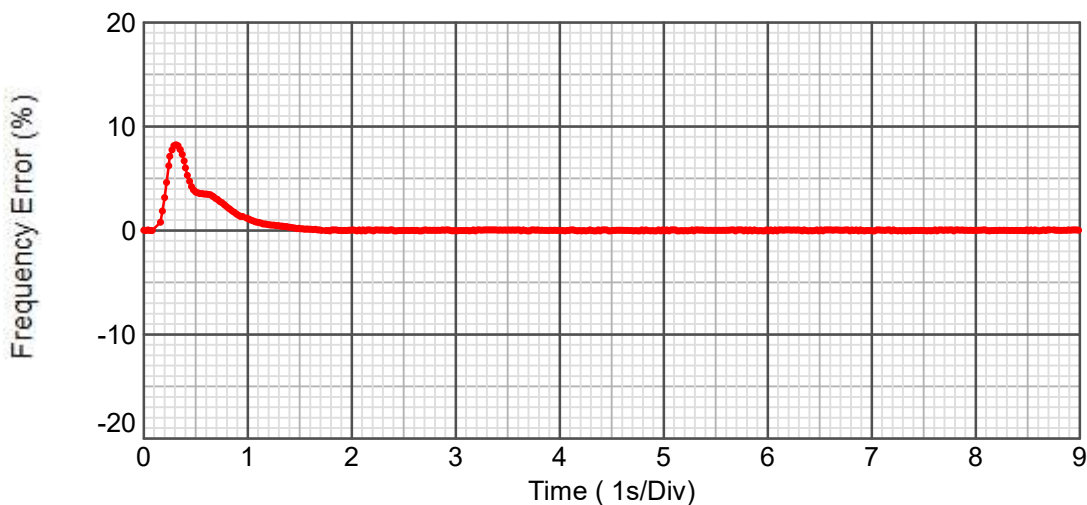
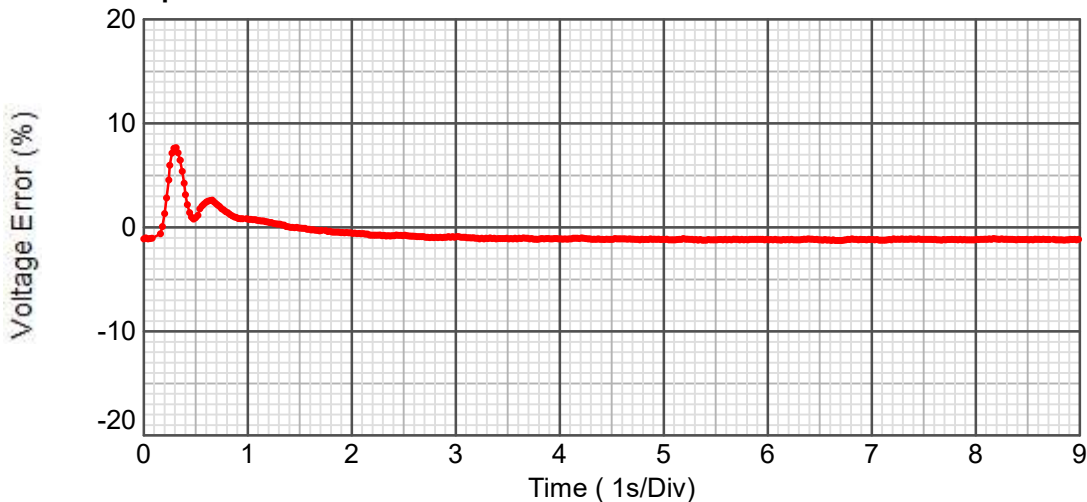
	Voltage		Frequency	
Steady State Value	395,4V		50,0Hz	
Maximum +ve Deviation	-0,8%	PASS	0,1%	PASS
Maximum -ve Deviation	-1,3%	PASS	-0,1%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	74kVA	L1: 395,4V	228,4V	107A
	74kW	L2: 396,2V	228,8V	108A
	1,00cosØ	L3: 395,9V	228,6V	108A

## Load Test Report

60,0% 1,00cosØ to 10,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	7,7%	PASS	8,3%	PASS
Maximum -ve Deviation	-1,2%	PASS	0,0%	PASS
Recovery Time	0,7s	PASS	0,9s	PASS

### Steady State Readings

	Voltage		Frequency	
Steady State Value	395,3V		50,0Hz	
Maximum +ve Deviation	-1,0%	PASS	0,0%	PASS
Maximum -ve Deviation	-1,3%	PASS	0,0%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	10kVA	L1: 395,3V	228,3V	16A
	10kW	L2: 395,6V	228,2V	15A
	0,99cosØ	L3: 395,6V	228,4V	15A