

## 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

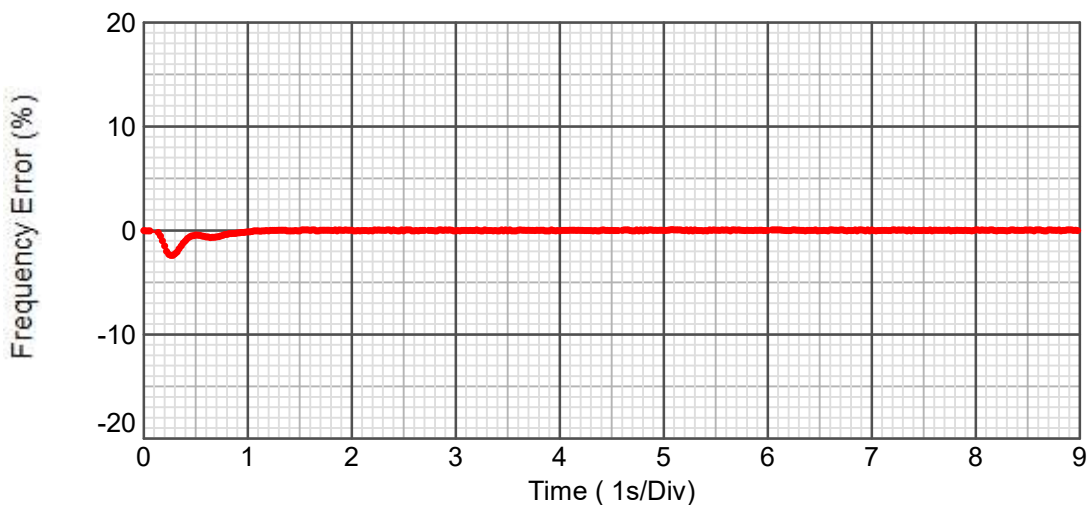
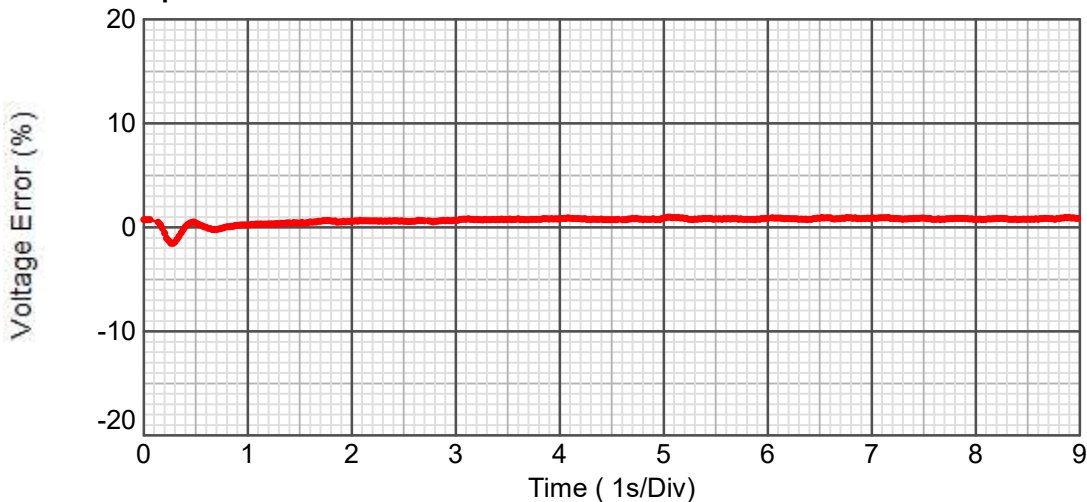
### Test Summary

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	24	1,00	403,8
2	00:00:18	50,0	1,00	00:00:16	62	1,00	403,6
3	00:00:34	75,0	1,00	00:00:16	91	1,00	402,2
4	00:00:50	100,0	1,00	00:00:16	119	1,00	401,4
5	00:01:05	0,0	1,00	00:00:16	3	0,67	402,9
6	00:01:22	70,0	1,00	00:00:16	86	1,00	401,9
7	00:01:38	10,0	1,00	00:00:15	10	0,99	402,7

## Load Test Report

0,0% 1,00cosØ to 20,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	1,0%	PASS	0,1%	PASS
Maximum -ve Deviation	-1,5%	PASS	-2,4%	PASS
Recovery Time	0,0s	PASS	0,2s	PASS

### Steady State Readings

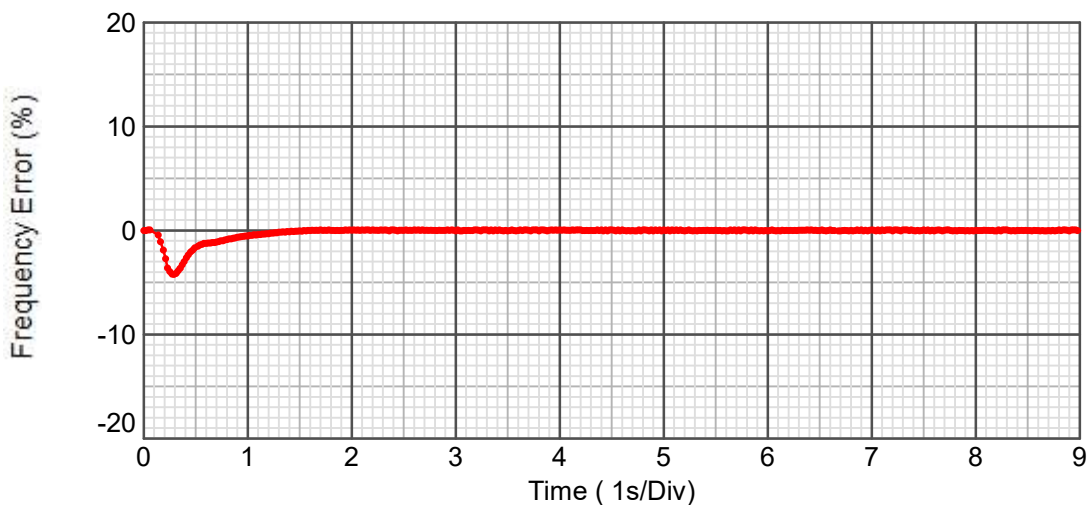
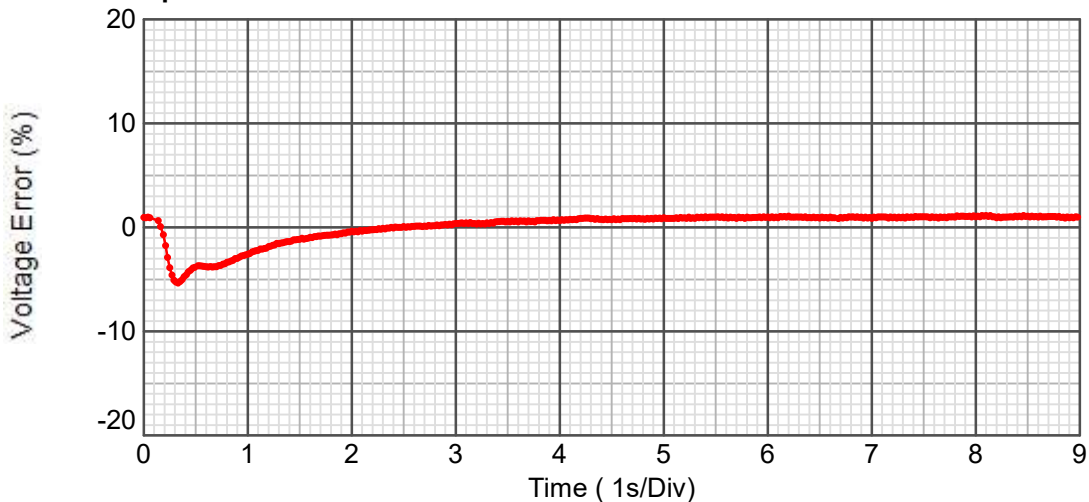
	Voltage		Frequency	
Steady State Value	403,8V		50,0Hz	
Maximum +ve Deviation	1,1%	PASS	0,1%	PASS
Maximum -ve Deviation	0,6%	PASS	0,0%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	24kVA	L1: 403,8V	233,3V	35A
	24kW	L2: 404,2V	233,4V	35A
	1,00cosØ	L3: 404,1V	233,2V	35A

## Load Test Report

20,0% 1,00cosØ to 50,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	1,1%	PASS	0,1%	PASS
Maximum -ve Deviation	-5,3%	PASS	-4,2%	PASS
Recovery Time	1,0s	PASS	0,6s	PASS

### Steady State Readings

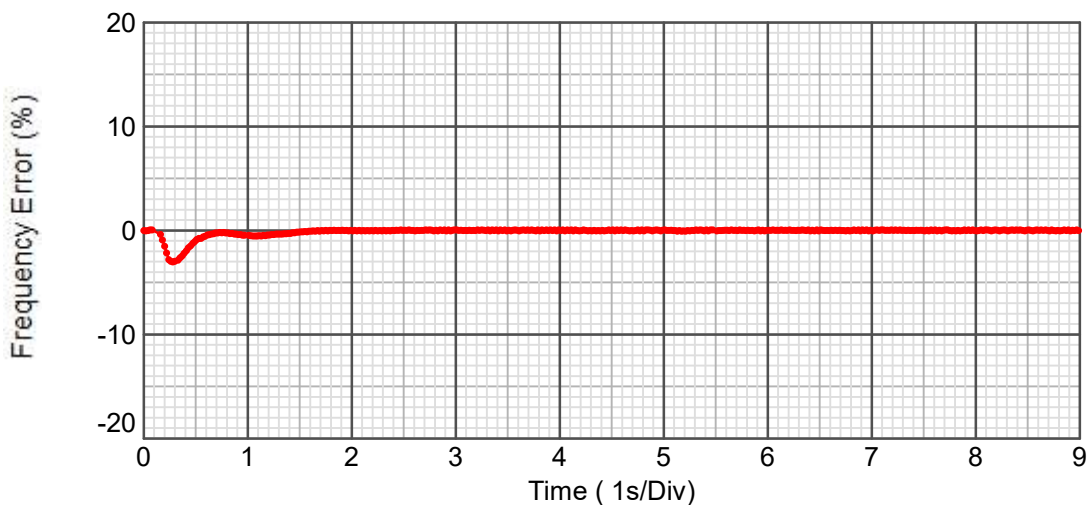
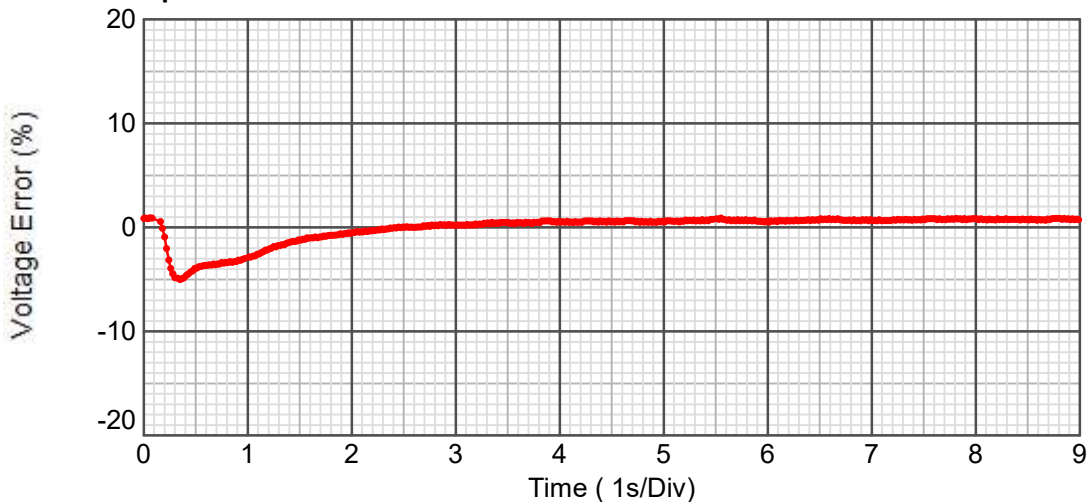
	Voltage		Frequency	
Steady State Value	403,6V		50,0Hz	
Maximum +ve Deviation	1,2%	PASS	0,1%	PASS
Maximum -ve Deviation	0,6%	PASS	0,0%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	62kVA	L1: 403,6V	233,0V	89A
	62kW	L2: 404,3V	233,2V	88A
	1,00cosØ	L3: 403,9V	233,3V	88A

## Load Test Report

50,0% 1,00cosØ to 75,0% 1,00cosØ

### Transient Response



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

### Steady State Readings

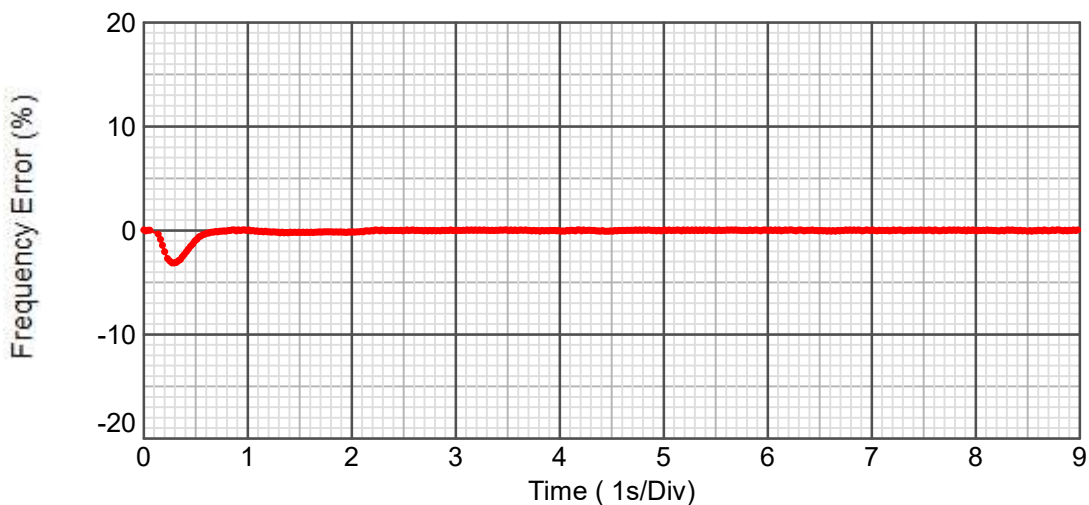
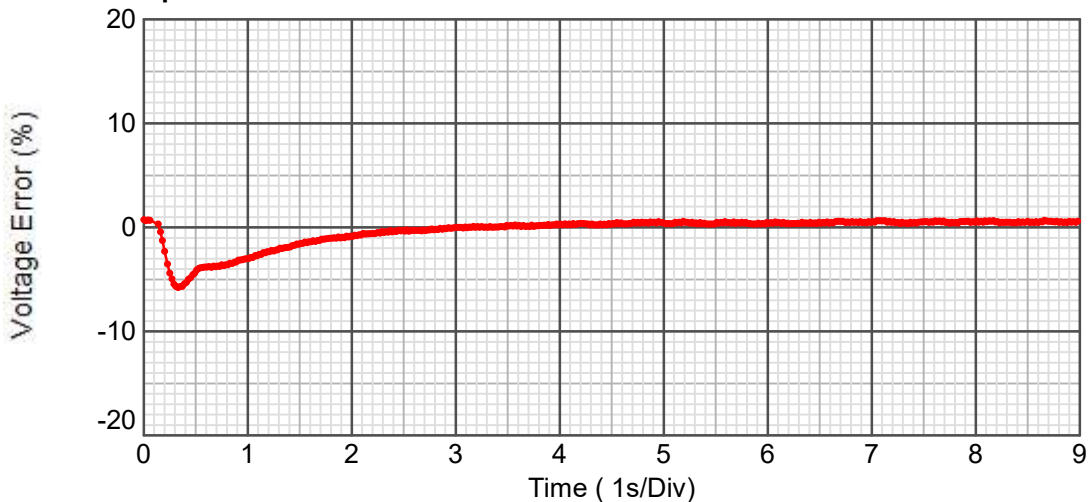
	Voltage		Frequency	
Steady State Value	402,2V		50,0Hz	
Maximum +ve Deviation	1,1%	PASS	0,1%	PASS
Maximum -ve Deviation	0,4%	PASS	-0,1%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	91kVA	L1: 402,2V	233,2V	131A
	91kW	L2: 403,6V	233,3V	130A
	1,00cosØ	L3: 403,8V	232,9V	130A

## Load Test Report

**75,0% 1,00cosØ to 100,0% 1,00cosØ**

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	0,8%	PASS	0,1%	PASS
Maximum -ve Deviation	-5,8%	PASS	-3,1%	PASS
Recovery Time	1,1s	PASS	0,4s	PASS

### Steady State Readings

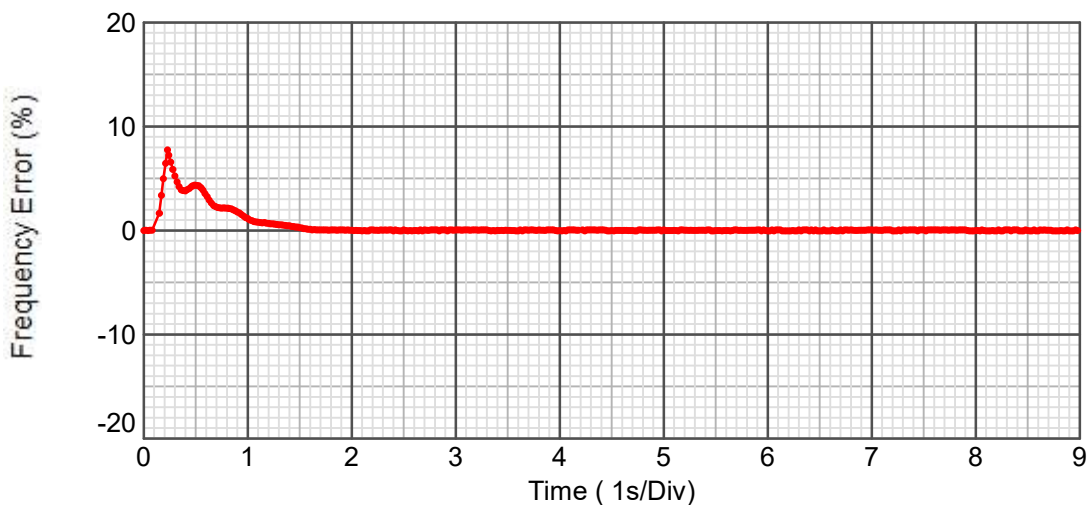
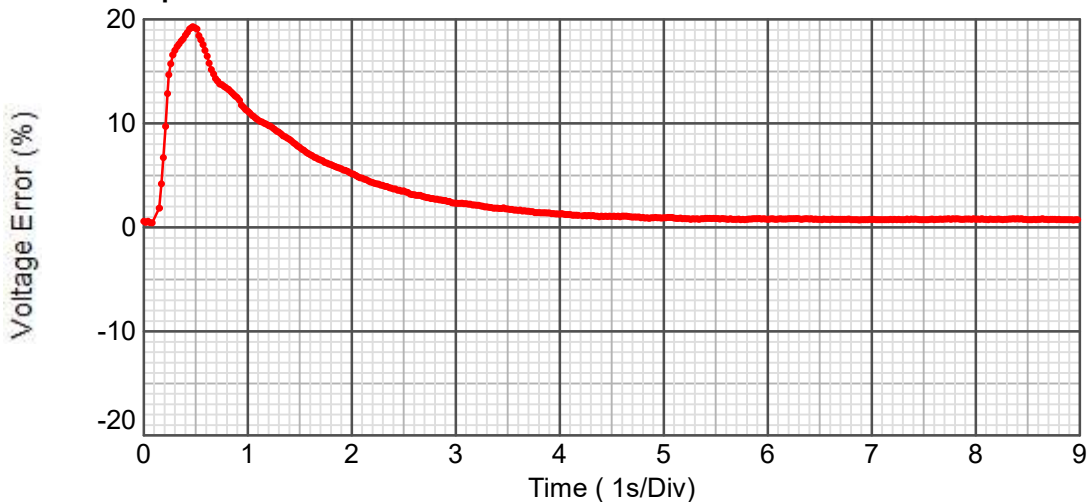
	Voltage		Frequency	
Steady State Value	401,4V		50,0Hz	
Maximum +ve Deviation	0,8%	PASS	0,1%	PASS
Maximum -ve Deviation	0,1%	PASS	-0,1%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	119kVA	L1: 401,4V	232,0V	171A
	119kW	L2: 402,8V	232,3V	171A
	1,00cosØ	L3: 402,2V	232,2V	171A

## Load Test Report

100,0% 1,00cosØ to 0,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	19,3%	PASS	7,8%	PASS
Maximum -ve Deviation	0,4%	PASS	0,0%	PASS
Recovery Time	3,0s	PASS	0,9s	PASS

### Steady State Readings

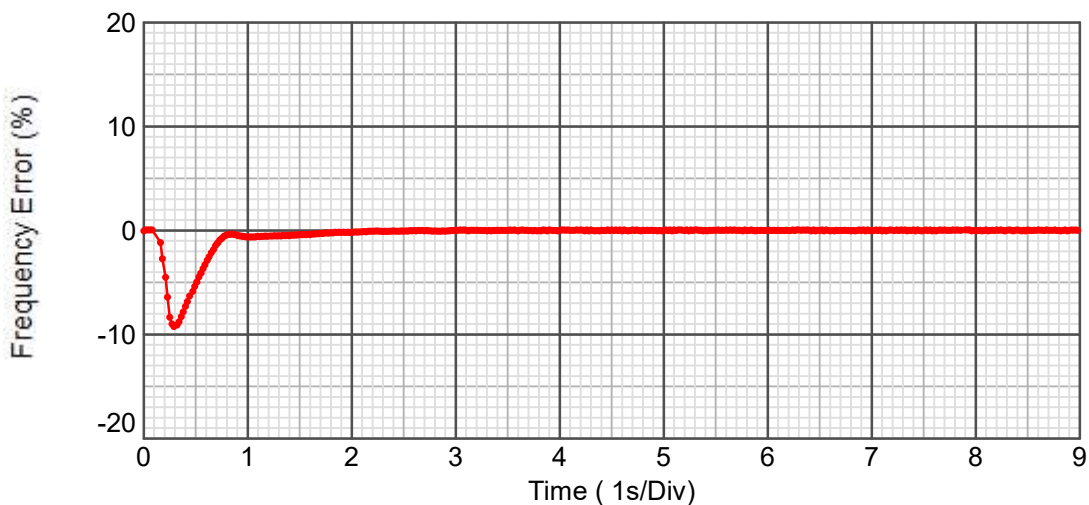
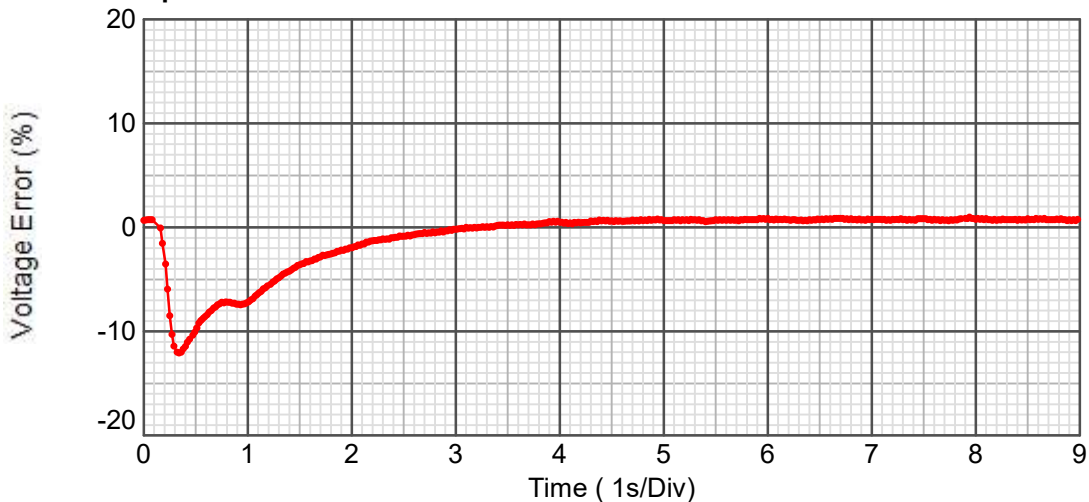
	Voltage		Frequency	
Steady State Value	402,9V		50,0Hz	
Maximum +ve Deviation	0,9%	PASS	0,0%	PASS
Maximum -ve Deviation	0,5%	PASS	0,0%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	3kVA	L1: 402,9V	232,6V	4A
	2kW	L2: 403,2V	232,6V	4A
	0,67cosØ	L3: 403,1V	232,8V	4A

## Load Test Report

0,0% 1,00cosØ to 70,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	1,0%	PASS	0,1%	PASS
Maximum -ve Deviation	-12,1%	PASS	-9,2%	PASS
Recovery Time	1,8s	PASS	0,6s	PASS

### Steady State Readings

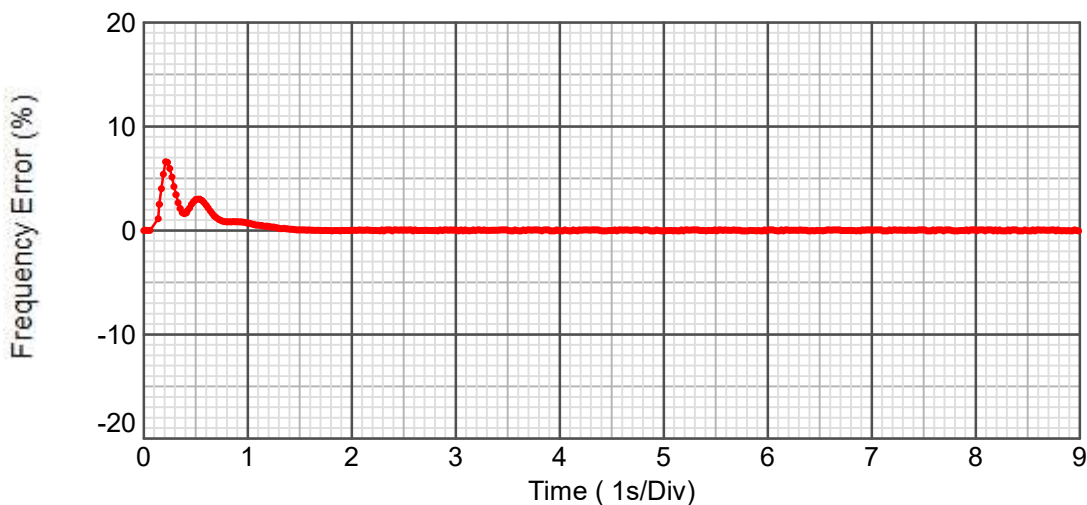
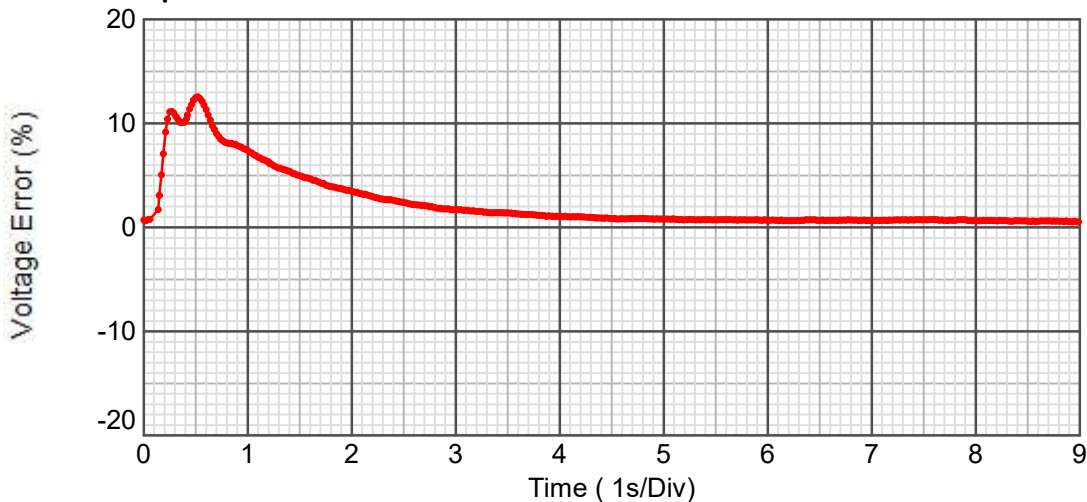
	Voltage		Frequency	
Steady State Value	401,9V		50,0Hz	
Maximum +ve Deviation	1,1%	PASS	0,1%	PASS
Maximum -ve Deviation	0,5%	PASS	0,0%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:16	86kVA	L1: 401,9V	232,8V	124A
	86kW	L2: 402,8V	233,0V	124A
	1,00cosØ	L3: 403,1V	232,4V	123A

## Load Test Report

70,0% 1,00cosØ to 10,0% 1,00cosØ

### Transient Response



	Voltage		Frequency	
Maximum +ve Deviation	12,6%	PASS	6,6%	PASS
Maximum -ve Deviation	0,5%	PASS	0,0%	PASS
Recovery Time	2,5s	PASS	0,6s	PASS

### Steady State Readings

	Voltage		Frequency	
Steady State Value	402,7V		50,0Hz	
Maximum +ve Deviation	0,9%	PASS	0,0%	PASS
Maximum -ve Deviation	0,5%	PASS	0,0%	PASS

Step Duration	Power	Voltage LL	Voltage LN	Current
00:00:15	10kVA	L1: 402,7V	232,4V	14A
	10kW	L2: 403,1V	232,3V	14A
	0,99cosØ	L3: 402,7V	232,4V	14A