



Sigma PC System Load Test Report

Customer

Name: Type test HFV series - 50 - 125kVA

Engineer: EZEQUIEL MARTINEZ

Test Centre: HIMOINSA, S.L.

Supply

Model: HYW-25 T5

Rating: 23kVA cosφ=1 23kW
 400V 50Hz 3ph 4Wire

Class:

G3	Steady state	Transient Increase	Transient Decrease	Recovery Time (s)	Tolerance Band
Voltage:	0,91%	11,32%	-10,9%	4	
Frequency:	0,20%	4,06%	-4,00%	3	

Engine

Make:	YANMAR	Type No.:	4TNV98IGEHR
Serial No:	154236	Speed:	1500 rpm
Governor:	ELECTRONICO DIGITAL	Battery GND:	NEG

Alternator

Make:	Mec-Alte	Type No	ECP28.M4C
Serial No:		AVR:	DSR
Phase order:		Droop Kit:	

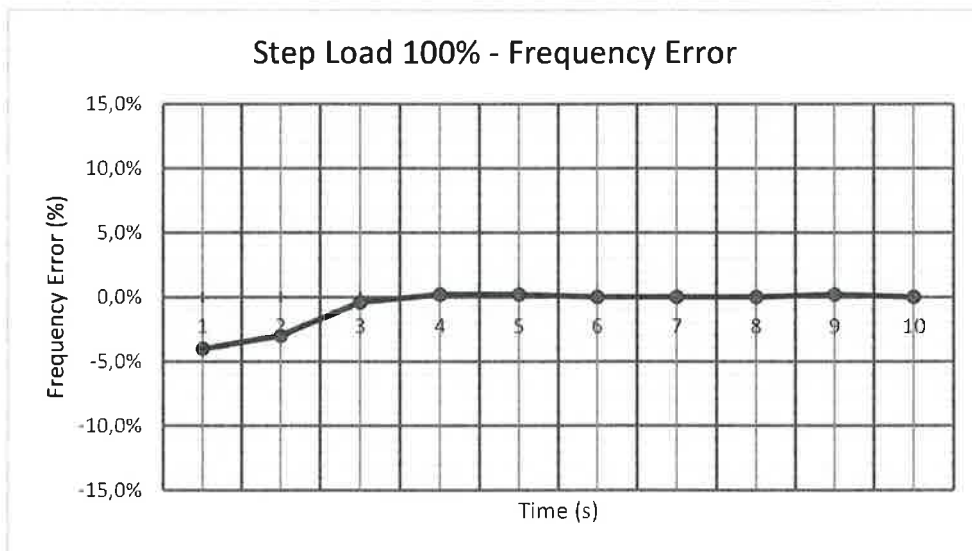
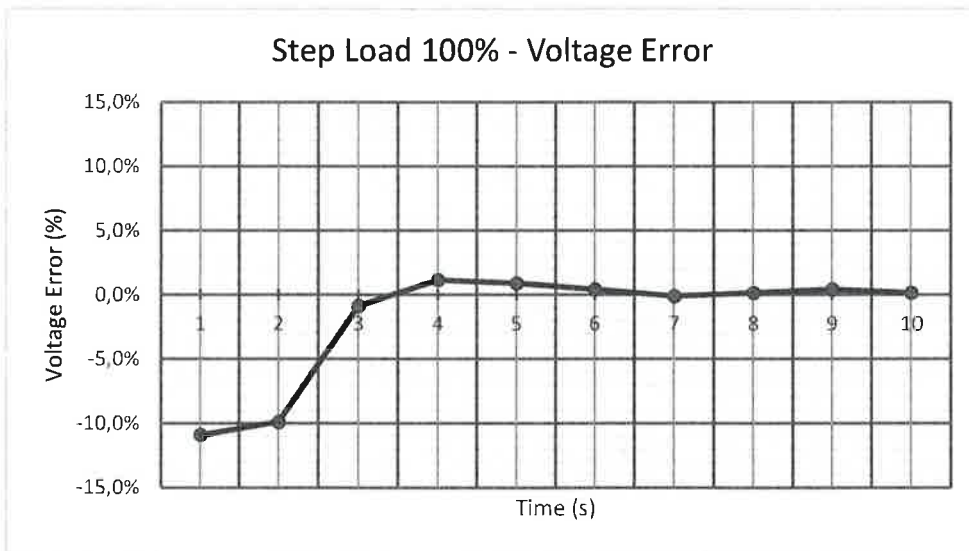
Test Summary

Step	Elapsed Time h:mm:ss	Power %kW	Power Factor cos_phi	Step Duration h:mm:ss	Power kVA	Power Factor cos_phi	Current A(L1)
1	0:00:00	0,0	1,00	0:01:00	0	1,00	0
2	0:01:00	25,0	1,00	0:01:01	5	1,00	7
3	0:02:01	50,0	1,00	0:02:00	11	1,00	16
4	0:04:01	75,0	1,00	0:03:00	17	1,00	25
5	0:07:01	100,0	1,00	0:06:59	23	1,00	33

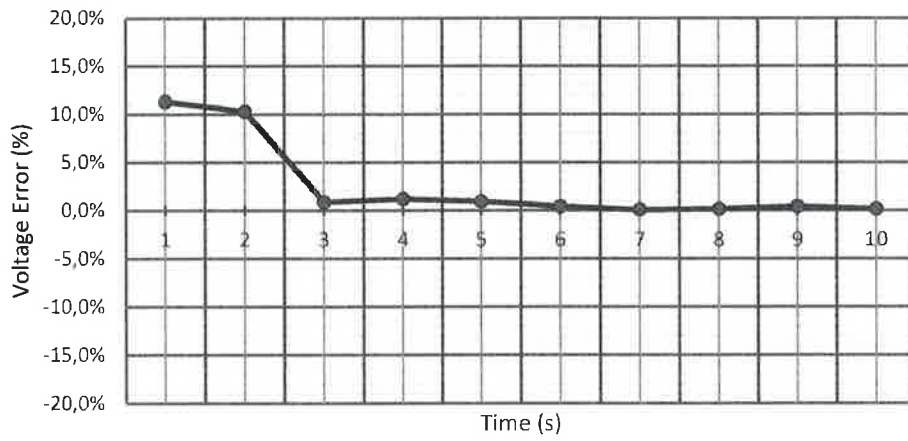
Elapsed Time	Power kVA	Power		Frequency Hz	Voltage V(L1-L2)	Voltage V(L2-L3)	Voltage V(L3-L1)	Current A(L1)	Current A(L2)	Current A(L3)
		Factor cos_phi								
Start										
Load Accepted:		0,0%	1,00	cos_φ	at	0:00:00				
0:00:26	0	1,00	50,1		400	401	401	0	0	0
0:00:52	0	1,00	50,1		400	401	401	0	0	0
Load Accepted:		25,0%	1,00	cos_φ	at	0:01:00				
0:01:18	5	1,00	50,1		400	401	401	7	7	7
0:01:44	5	1,00	50,1		401	401	400	7	7	7
Load Accepted:		50,0%	1,00	cos_φ	at	0:02:01				
0:02:10	11	1,00	50,1		398	400	399	15	15	15
0:02:36	11	1,00	50,1		400	401	400	15	15	15
0:03:02	11	1,00	50,1		402	402	402	15	15	15
0:03:28	11	1,00	50,0		401	401	401	15	15	15
0:03:54	11	1,00	50,0		400	401	400	15	15	15
Load Accepted:		75,0%	1,00	cos_φ	at	0:04:01				
0:04:20	17	1,00	50,0		398	399	398	24	24	24
0:04:46	17	1,00	50,0		400	400	400	24	24	24
0:05:12	17	1,00	50,0		402	402	401	24	24	24
0:05:38	17	1,00	50,0		401	399	401	24	24	24
0:06:04	17	1,00	50,0		400	400	400	24	24	24
0:06:30	17	1,00	50,0		401	400	401	24	24	24
0:06:56	17	1,00	49,9		400	400	400	24	24	24
Load Accepted:		100,0%	1,00	cos_φ	at	0:07:01				
0:07:02	23	1,00	48,0		355	362	363	37	36	36
0:07:03	23	1,00	48,5		359	370	369	36	35	35
0:07:04	23	1,00	49,8		395	400	398	33	33	33
0:07:05	23	1,00	50,1		403	405	412	32	32	32
0:07:06	23	1,00	50,1		402	407	407	33	32	32
0:07:07	23	1,00	50,0		400	404	410	33	32	32
0:07:08	23	1,00	50,0		398	402	408	33	33	32
0:07:09	23	1,00	50,0		399	402	408	33	33	32
0:07:10	23	1,00	50,1		400	405	409	33	32	32
0:07:11	23	1,00	50,0		399	400	402	33	33	32
0:07:22	23	1,00	50,0		400	402	401	33	33	33
0:07:48	23	1,00	50,0		400	401	400	33	33	33
0:08:14	23	1,00	50,0		400	400	399	33	33	33
0:08:40	23	1,00	50,0		400	399	399	33	33	33
0:09:06	23	1,00	50,0		400	400	400	33	33	33
0:09:32	23	1,00	50,0		400	399	400	33	33	33
0:09:58	23	1,00	50,0		400	399	400	33	33	33
0:10:24	23	1,00	50,0		400	399	400	33	33	33

0:10:50	23	1,00	50,0	401	399	400	33	33	33
0:11:16	23	1,00	50,0	399	399	400	33	33	33
0:11:42	23	1,00	50,0	399	399	400	33	33	33
0:12:08	23	1,00	50,0	399	399	400	33	33	33
0:12:34	23	1,00	50,0	400	399	400	33	33	33
0:13:00	23	1,00	50,0	400	399	400	33	33	33
0:13:26	23	1,00	50,0	400	399	400	33	33	33
0:13:52	23	1,00	50,0	400	399	400	33	33	33

Load Rejected at 0:14:18



Step Unload 100% - Voltage Error



Step Unload 100% - Frequency Error

