

Încercarea de mers în gol

980

Rfo= 0.5977 Ω

4 poli

alfaV	div	139.1	133.2	124.8	117.6	105.4	92.2	121.2	105.2	89.7	72.2				
Cv	V/div	3	3	3	3	3	3	2	2	2	2				
Ufo	V	240.9	230.7	216.2	203.7	182.6	159.7	139.9	121.5	103.6	83.4				
A1	div	81.5	71.8	61.0	54.0	45.5	38.0	63.8	54.5	45.9	37.0				
A2	div	92.0	80.7	68.2	60.0	49.5	40.2	68.2	57.8	48.2	38.2				
A3	div	77.5	68.0	37.5	50.2	42.0	34.2	58.2	42.0	38.0	32.0				
Ca	A/div	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.05	0.05	0.05		1	2	3
Ilinie	A	8.29	7.27	5.48	5.40	4.51	3.69	3.10	2.51	2.15	1.74	alfa V	52.20	52.20	51.20
Ifaza	A	8.29	7.27	5.48	5.40	4.51	3.69	3.10	2.51	2.15	1.74	alfa A	109.00	109.50	107.00
w1	div	-34.5	-28.8	-22.1	-18.8	-14.1	-10.2	-20.6	-13.9	-9.2	-5.2	R	0.598803	0.596068	0.59831
w3	div	57.5	48.5	38.5	32.5	25.0	18.5	43.0	32.5	23.5	16.0				
Cw	W/div	30	30	30	30	30	30	10	10	10	10	Cvo	7.5		
Po	W	690.0	591.0	492.0	411.0	327.0	249.0	224.0	186.0	143.0	108.0	Cao	3.000		
cos fio	u.r.	0.1152	0.1174	0.1384	0.1244	0.1325	0.1407	0.1721	0.2033	0.2141	0.2475	Rfo	0.5977		
Pcu10	W	123	95	54	52	36	24	17	11	8	5				
Pfe+mv	W	567	496	438	359	291	225	207	175	135	103				
Ufo**2	V^2	58046	53227	46725	41489	33327	25503	19586	14756	10728	6950				
Pfe	W	467	396	338	259	191	125	107	75	35	3				

Ufo	230	V	Ifo	7.25	A	cosfio	0.118	u.r.							
Po	591	W	Pfe	395	W	Pmv	99.74	W							

Rfo= 2.34 Ω

6 poli

alfaV	div	140.1	133.3	127.2	120.2	111.1	99.8	87.2	120.0	103.7	84.8				
Cv	V/div	3	3	3	3	3	3	3	2	2	2				
Ufo	V	242.7	230.9	220.3	208.2	192.4	172.9	151.0	138.6	119.7	97.9				
A1	div	39.5	37.2	34.5	32.0	28.9	25.4	22.2	40.0	34.5	28.2				
A2	div	43.5	40.5	37.5	34.5	31.0	27.2	23.5	42.0	36.0	29.2				
A3	div	42.0	39.0	36.0	33.2	30.0	26.2	22.5	41.0	35.0	28.4				
Ca	A/div	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.05	0.05		1	2	3
Ilinie	A	4.08	3.81	3.53	3.25	2.93	2.57	2.22	1.98	1.70	1.38	alfa V	62.80	62.80	63.10
Ifaza	A	4.08	3.81	3.53	3.25	2.93	2.57	2.22	1.98	1.70	1.38	alfa A	67.00	67.00	67.50
w1	div	-20.2	-17.9	-15.8	-14.8	-11.7	-9.2	-7.3	-15.4	-11.2	-7.2	R	2.346032	2.346032	2.339771
w2	div	33.5	30.0	26.5	23.5	19.5	15.5	12.0	31.0	23.0	16.0				
Cw	W/div	30	30	30	30	30	30	30	10	10	10	Cvo	7.5		
Po	W	399.0	363.0	321.0	261.0	234.0	189.0	141.0	156.0	118.0	88.0	Cao	1.500		
cos fio	u.r.	0.1342	0.1375	0.1377	0.1285	0.1383	0.1419	0.14	0.1895	0.1935	0.217	Rfo	2.3439		
Pcu10	W	117	102	87	74	60	46	35	28	20	13				
Pfe+mv	W	282	261	234	187	174	143	106	128	98	75				
Ufo**2	V^2	58884	53307	48540	43344	37030	29880	22812	19200	14338	9588				
Pfe	W	216	195	168	121	108	77	41	63	32	9				

Ufo	230	V	Ifo	3.8	A	cosfio	0.137	u.r.							
Po	362	W	Pfe	190	W	Pmv	65.69	W							

I.C.P.E.-M.E.
FISA DE INCERCAREA
MOTORULUI

980

Date generale

Tip	NR.	Fabr.	2006	P(kW)	U [V]	400	conexiune	Y	IP	54
F [Hz]	50	2p	I [A]	cos (φ)	η[%]		s[%]		n[rpm]	
				cl. izol	F					

Rezistenta la rece

4

poli

faza		U1			U2			U3								
nr.mas.		1	2	3	1	2	3	1	2	3						
alfa V	div	70.0	86.0	107.5	104.8			125.0	141.5	142.4	127.5	105.0	Cv	V/div	3	
alfa A	div	50.6	62.6	72.8	77.8			93.2	105.2	104.2	93.2	76.8	Ca	A/div	3	
Rf	Ω	0.692	0.687	0.739	0.674			0.671	0.673	0.684	0.684	0.684	t_amb	grade	19.00	
Rf-med	Ω	0.706 Ω						0.672 Ω			0.684 Ω					
		Rfmed	0.687	Ω	Rf_20	0.690 Ω			Rf_95	0.9201 Ω		Rf_115	0.947	Ω		

Rezistenta la rece

4

poli

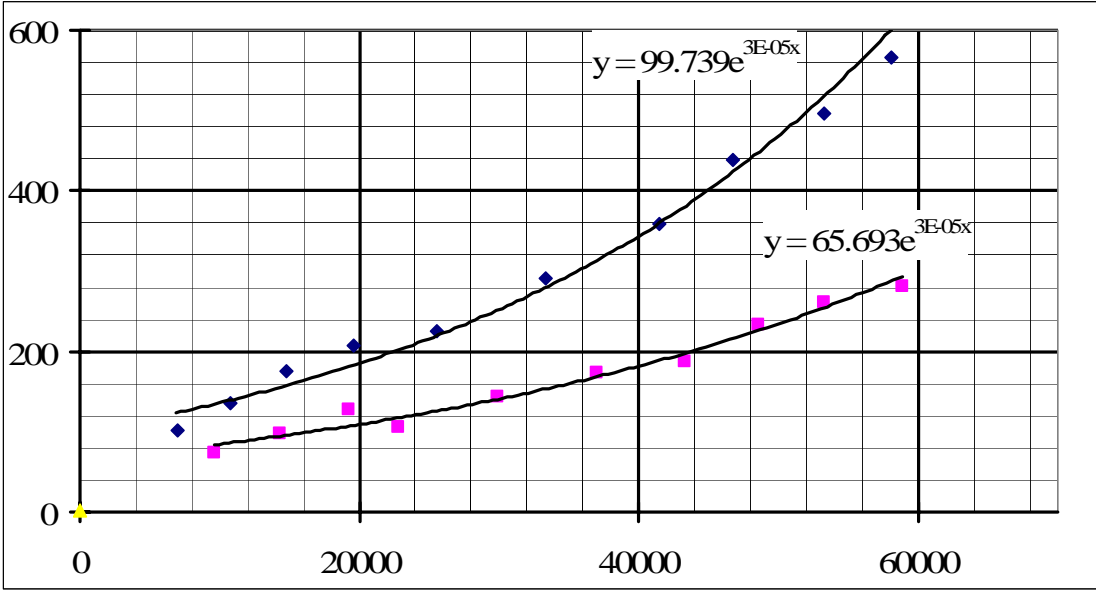
faza		V1			V2			V3								
nr.mas.		1	2	3	1	2	3	1	2	3						
alfa V	div	88.7	112.3	134.8									Cv	V/div	3	
alfa A	div	81.8	102.2	122.6									Ca	A/div	3	
Rf	Ω	0.5423	0.5496	0.5499									t_amb	grade	23.00	
Rf-med	Ω	0.5473 Ω														
		Rfmed	0.547	Ω	Rf_20	0.549 Ω			Rf_95	0.7326 Ω		Rf_115	0.754	Ω		

Rezistenta la rece

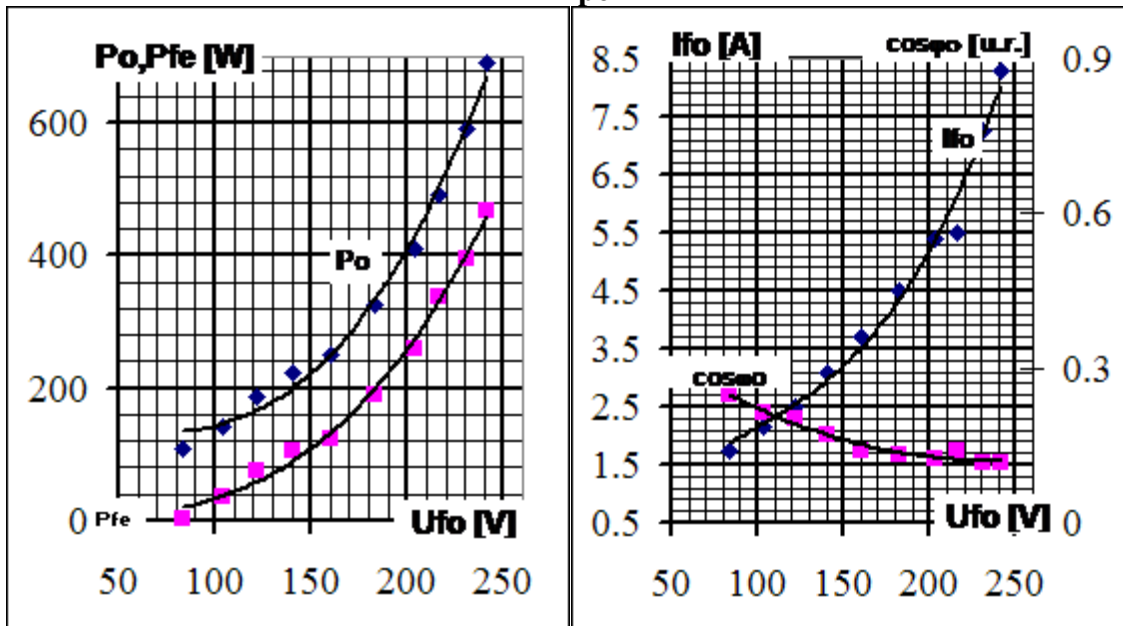
6

poli

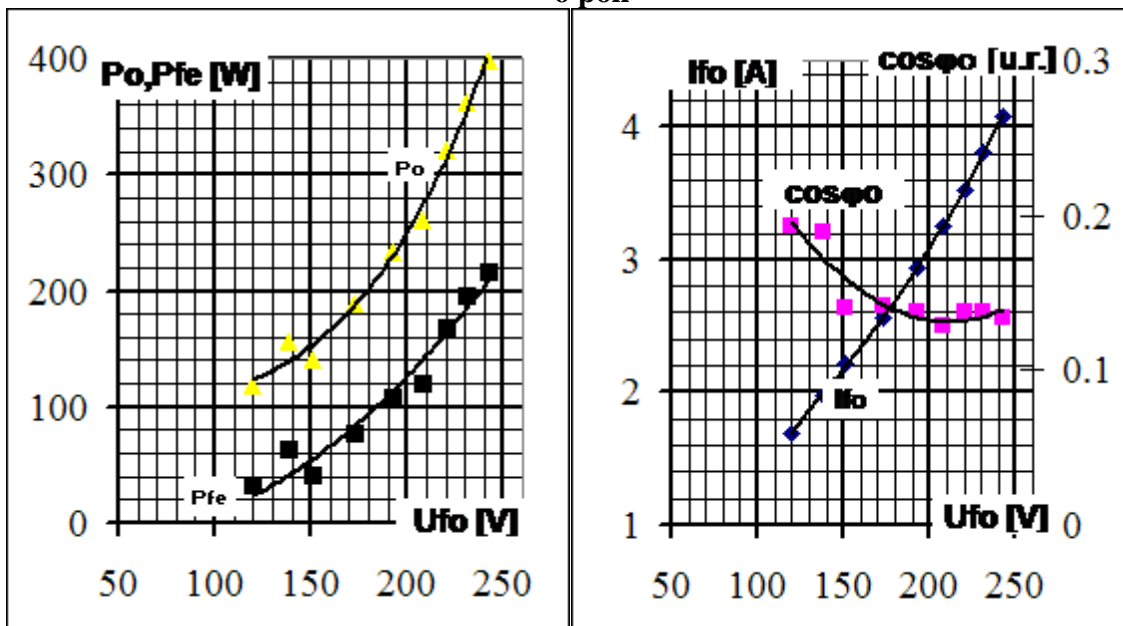
faza		U6			V3			V2								
nr.mas.		1	2	3	1	2	3	1	2	3						
alfa V	div	65.8	76.7	88.1									Cv	V/div	7.5	
alfa A	div	73.8	87.6	99.0									Ca	A/div	1.5	
Rf	Ω	2.2315	2.1913	2.2272									t_amb	grade	26.20	
Rf-med	Ω	2.2167 Ω														
		Rfmed	2.217	Ω	Rf_20	2.225 Ω			Rf_95	2.9672 Ω		Rf_115	3.054	Ω		



4 poli



6 poli



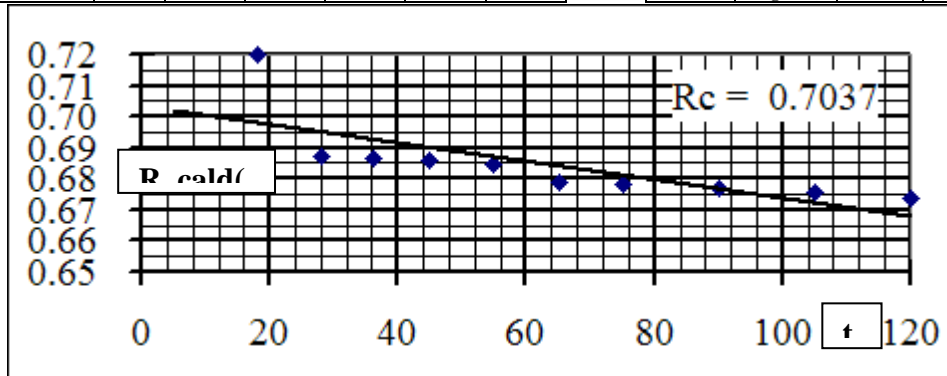
Caracteristicile de functionare				980								5,5 kW/		4 poli	
A1	div	65.2	60.6	81.0	70.2	66.2	60.0	53.5	48.5	44.5	42.5				
A2	div	66.7	61.2	83.0	71.2	67.0	60.0	52.9	46.2	40.5	37.2				
A3	div	58.2	62.3	73.5	62.0	57.9	51.0	44.5	38.7	34.0	32.0				
Ca	A/div	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
Ilinie	A	12.60	12.20	15.76	13.49	12.67	11.33	9.99	8.82	7.86	7.37				
Ifaza	A	12.60	12.20	15.76	13.49	12.67	11.33	9.99	8.82	7.86	7.37				
w1	div	30.6	22.3	43.5	33.0	28.5	21.5	13.0	4.0	-7.0	-13.5				
w2	div	82.7	77.0	106.8	91.5	85.1	76.1	66.2	55.9	45.3	38.1				
Cw	W/div	60	60	60	60	60	60	60	60	60	60				
Pa	W	6750	5910	8970	7422	6768	5808	4704	3546	2250	1428				
n	rpm	1458	1466	1444	1456	1460	1466	1473	1481	1488	1494				
s	%	2.80	2.27	3.73	2.93	2.67	2.27	1.80	1.27	0.80	0.40				
cos fi	u.r.	0.7764	0.7021	0.8249	0.7976	0.7744	0.7432	0.6827	0.5827	0.4149	0.2807				
Pcu1	W	348.9	327.1	545.8	399.7	352.6	281.9	219.2	170.9	135.8	119.5				
Pcu2	W	168.2	117.6	299.8	194.4	160.5	116.3	73.6	37.7	13.8	3.7				
Ps	W	33.75	29.55	44.85	37.11	33.84	29.04	23.52	17.73	11.25	7.14				
Pu	W	5704.3	4940.9	7584.7	6295.9	5726.2	4885.9	3892.8	2824.7	1594.4	802.87				
Ran	%	0.85	0.84	0.85	0.85	0.85	0.84	0.83	0.80	0.71	0.56				
M	kgfm	3.50	3.05	4.60	3.88	3.48	3.00	2.40	1.75	1.04	0.50				

Ufn	230	V	Ifn	12.3	A	cosfn	0.75	u.r.	s	2.50	%
Pu	5500	W	Mn	3.4	kgfm	Pa	6350	w	ran	86.6	%

				2,5 kW/								6 poli	
A1	div	84.2	77.0	65.5	94.0	77.0	64.5	55.2	48.5	41.0	38.5		
A2	div	86.2	78.8	66.8	96.8	78.5	65.8	56.2	48.8	41.0	38.0		
A3	div	83.7	76.4	64.9	94.5	76.8	64.0	54.3	47.5	40.0	37.2		
Ca	u.r.	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100		
Ilinie	A	8.40	7.67	6.50	9.44	7.67	6.40	5.45	4.75	3.99	3.72		
Ifaza	A	8.40	7.67	6.50	9.44	7.67	6.40	5.45	4.75	3.99	3.72		
w1	div	36.3	33.3	26.2	40.0	31.8	20.3	16.0	7.5	-2.0	-10.00		
w2	div	107.2	98.8	84.0	122.5	99.5	83.0	69.5	59.0	45.5	37.00		
Cw	u.r.	30	30	30	30	30	30	30	30	30	30		
Pa	W	4257	3915	3258	4827	3889	3049	2517	1947	1257	762		
n	rpm	932	936	951	923	944	958	969	976	986	993		
s	%	6.80	6.40	4.90	7.70	5.60	4.20	3.10	2.40	1.40	0.70		
cos fi	u.r.	0.735	0.740	0.726	0.741	0.735	0.690	0.669	0.594	0.456	0.297		
Pcu1	W	627.5	523.1	376.0	792.6	523.6	364.9	264.3	201.1	141.9	122.9		
Pcu2	W	233.9	204.9	131.9	296.0	177.8	104.8	63.9	37.3	12.9	3.1		
Ps	W	21.28	19.57	16.29	24.13	19.45	15.25	12.58	9.73	6.28	3.81		
Pu	W	3118.5	2911.6	2478.0	3458.4	2912.8	2308.7	1920.3	1443.0	840.0	376.3		
Ran	%	0.73	0.74	0.76	0.72	0.75	0.76	0.76	0.74	0.67	0.49		
M	kgfm	2.58	2.40	2.02	2.92	2.48	2.04	1.60	1.20	0.63	0.20		

Ufn	230	V	Ifn	6.6	A	cosfn	0.73	u.r.	s	7.50	%
Pu	2,500	W	Mn	2.1	kgfm	Pa	3260	w	ran	76.7	%

Determinarea incalzirii							980						5.5kW/ 4 poli	
Timp	sec	18	28	36	45	55	65	75	90	105	120			
Cv	div	60.0	55.0	57.0	57.0	57.0	56.0	57.0	57.0	57.2	57.0			
Ca	div	104.2	100.0	103.8	103.9	104.1	103.1	105.0	105.2	105.8	105.80			
R_cald	Ω	0.7198	0.6875	0.6864	0.6858	0.6844	0.6790	0.6786	0.6773	0.6758	0.6734			
Cv	V/div	7.5	Ca	A/div	3.0	Re	Ω	0.70370	tc(grade)	43.0	ΔΘ	59.5		



							2.5 kW/ 6 poli					
Timp	sec	13	23	33	42	52	60	70	80	90	105	120
Cv	div	91.0	90.5	91.0	91.0	91.0	91.0	91.2	90.9	90.90	91.0	90.2
Ca	div	82.0	82.2	83.0	83.2	83.4	83.5	83.8	84.00	84.20	84.20	84.20
R_cald	Ω	2.7744	2.7524	2.7410	2.7344	2.7278	2.7246	2.7208	2.7054	2.6989	2.7019	2.6781
Cv	V/div	7.5	Ca	A/div	1.5	Re	Ω	2.77150	tc(grade)	55.0	ΔΘ	43.8

