

I.C.P.E.-M.E.
FISA DE INCERCARI A
MOTORULUI

980

Date generale

Tip	ME	NR.	1	Fabr.	2006	P(kW)	4/2.2	U [V]	400	conexiune	Y	IP	54
F [Hz]	50	2p	4 cu 6	I [A]		cos (φ)		η[%]		s[%]		n[rpm]	
				cl. izol	F								

Rezistenta la rece

Rezistenta la rece

4 poli

faza		V1 - V2			V1 - V3			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	24.00
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 - V6			V1 - V3			V2 - V3					
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

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	57.5	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	6.15	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	6.15	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	0.1234	0.1244	0.1325	0.1407	0.1721	0.2033	0.2141	0.2475	Rfo	0.5977		
Pcu10	W	123	95	68	52	36	24	17	11	8	5				
Pfe+mv	W	567	496	424	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	324	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							

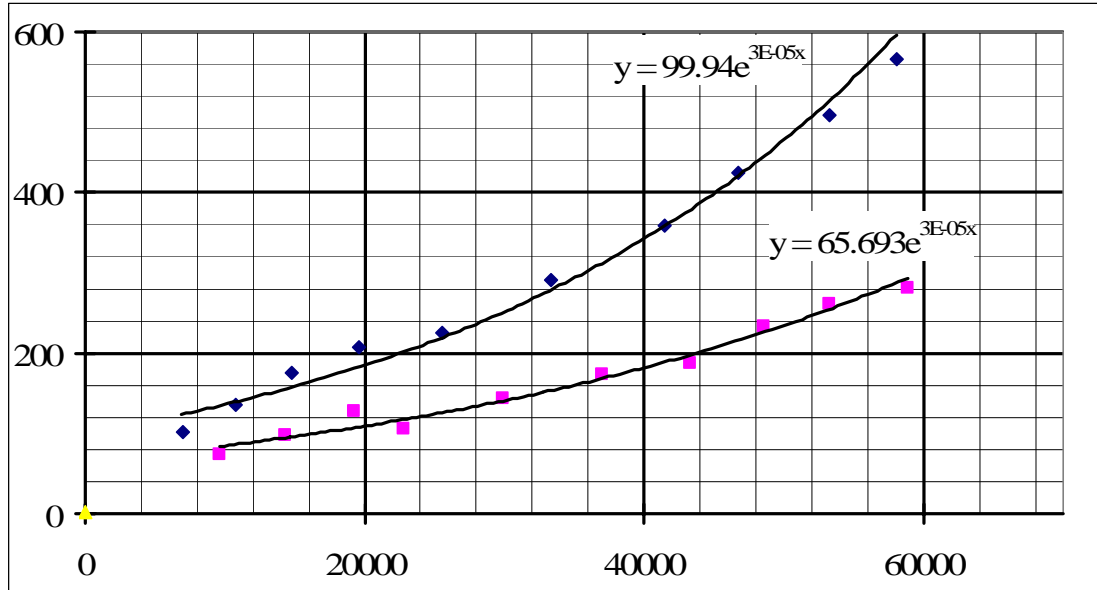
Rfo= 2.34 Ω

6 poli

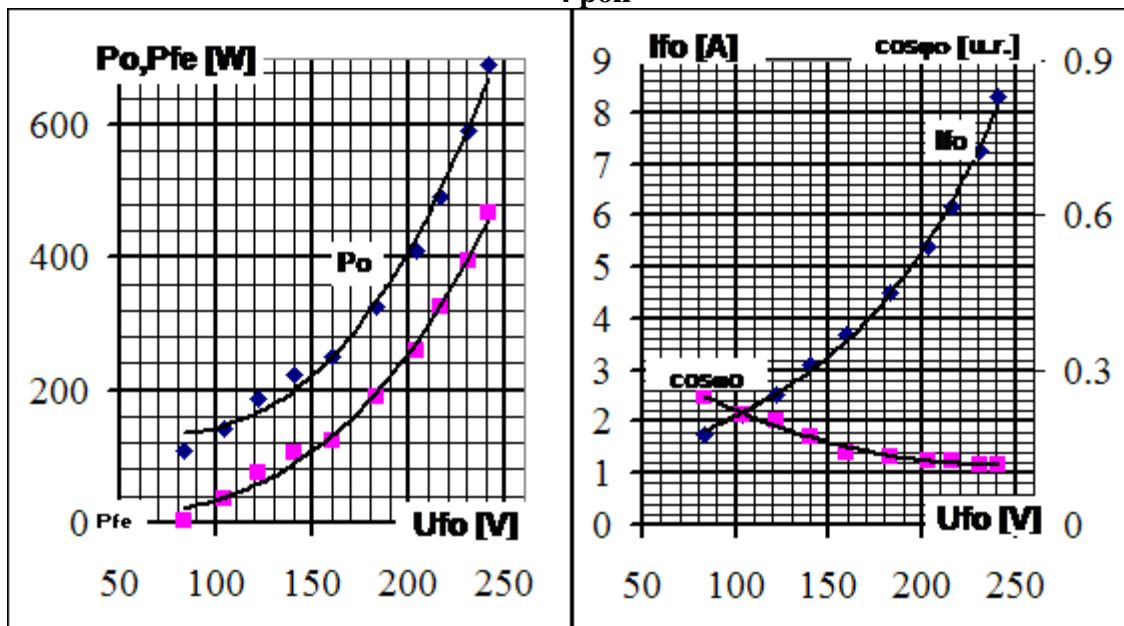
alfaV	div	140.1	133.3	127.2	120.2	111.1	99.8	87.2	120.0	103.7	84.8				
Cv	V/div	3	3	3	3	3	3	3	2	2	2				
Ufo	V	242.7	230.9	220.3	208.2	192.4	172.9	151.0	138.6	119.7	97.9				
A1	div	39.5	37.2	34.5	32.0	28.9	25.4	22.2	40.0	34.5	28.2				
A2	div	43.5	40.5	37.5	34.5	31.0	27.2	23.5	42.0	36.0	29.2				
A3	div	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
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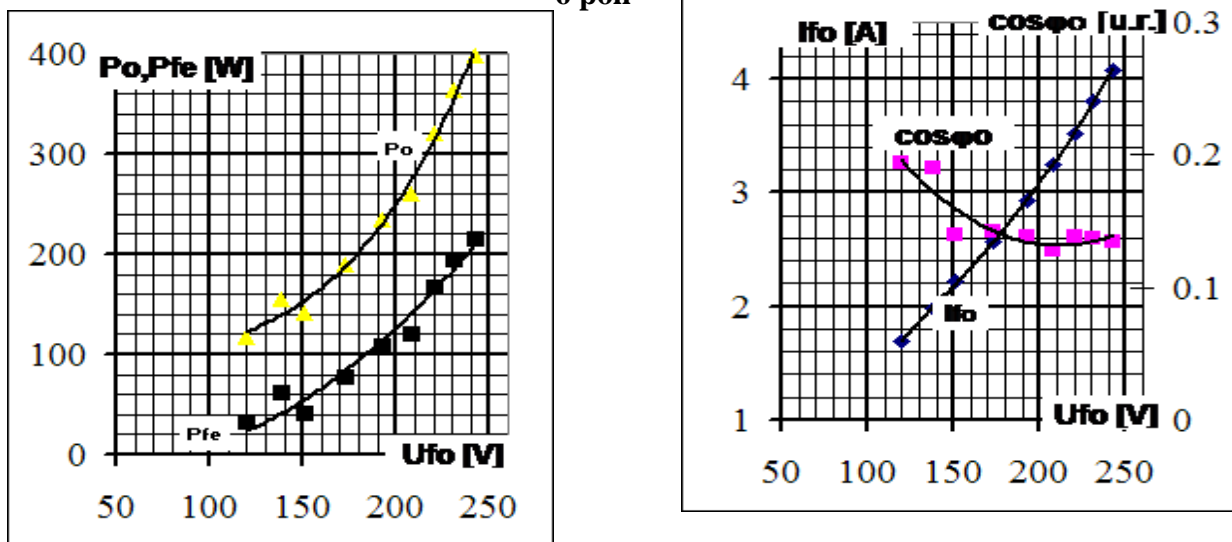
Ufo	230	V	Ifo	3.8	A	cosfo	0.137	u.r.
Po	362	W	Pfe	190	W	Pmv	65.69	W



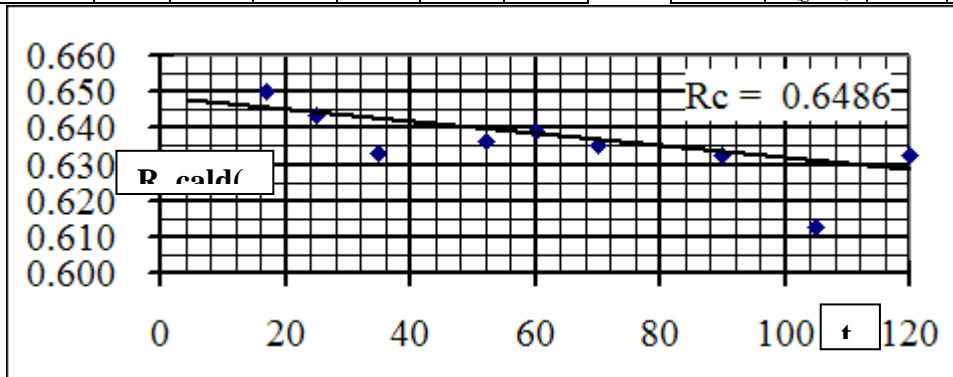
4 poli



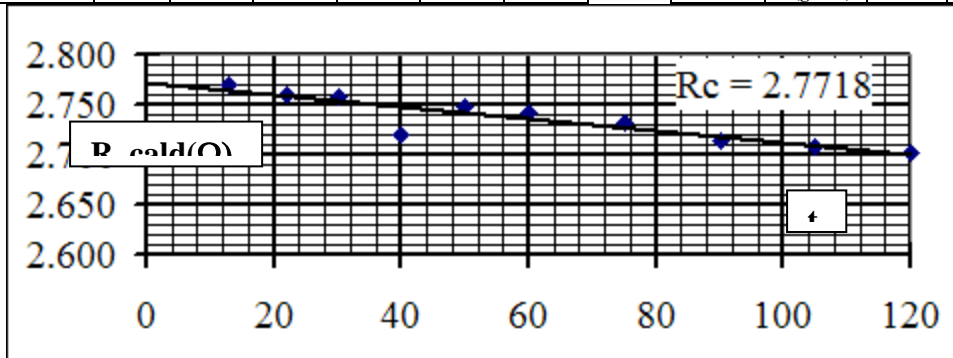
6 poli



Determinarea incalzirii											980		4 poli	
Timp	sec	17	25	35	52	60	70	80	90	105	120			
Cv	div	136.4	130.0	127.8	133.6	135.4	134.8	134.7	135.6	131.6	135.4			
Ca	div	104.9	101.0	100.9	105.0	105.9	106.1	101.6	107.2	107.4	107.00			
R_cald	Ω	0.6501	0.6436	0.6333	0.6362	0.6393	0.6352	0.6629	0.6325	0.6127	0.6327			
Cv	V/div	3.0	Ca	A/div	3.0	Rc	Ω	0.64860	tc(grade)	43.0	ΔΘ	32.5		



Determinarea incalzirii											980		6 poli	
Timp	sec	13	22	30	40	50	60	75	90	105	120			
Cv	div	90.0	90.0	90.0	89.0	90.0	90.5	90.5	90.0	90.00	90.0			
Ca	div	81.2	81.5	81.6	81.8	81.9	82.5	82.8	82.90	83.10	83.30			
R_cald	Ω	2.7709	2.7607	2.7574	2.7200	2.7473	2.7424	2.7325	2.7141	2.7076	2.7011			
Cv	V/div	7.5	Ca	A/div	1.5	Rc	Ω	2.77180	tc(grade)	50.0	ΔΘ	47.6		



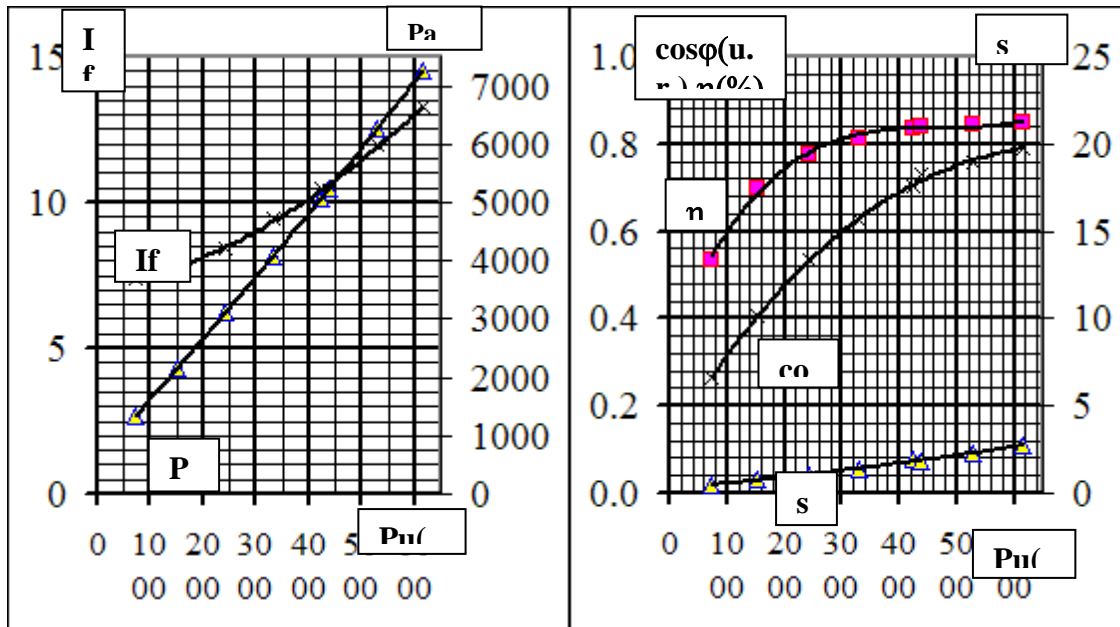
Caracteristicile de functionare										980		4 poli	
A1	div	54.7	68.8	62.7	55.2	50.9	46.3	43.7	42.2				
A2	div	55.5	70.0	63.2	55.2	50.0	44.5	40.0	37.5				
A3	div	47.9	61.2	54.5	47.0	41.9	37.0	33.8	32.0				
Ca	A/div	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
Ilinie	A	10.47	13.26	11.95	10.42	9.45	8.45	7.76	7.37				
Ifaza	A	10.47	13.26	11.95	10.42	9.45	8.45	7.76	7.37				
w1	div	16.5	31.8	25.2	19.9	7.8	1.2	-6.9	-13.8				
w2	div	69.0	89.8	79.8	68.2	60.8	51.6	43.8	37.0				
Cw	W/div	60	60	60	60	60	60	60	60				
Pa	W	5082	7248	6252	5238	4068	3120	2166	1344				
n	rpm	1471	1459	1465	1473	1479	1484	1488	1493				
s	%	1.93	2.73	2.33	1.80	1.40	1.07	0.80	0.47				
cos fi	u.r.	0.7037	0.7922	0.758	0.7286	0.6241	0.5353	0.4045	0.2642				
Pcu1	W	240.7	386.4	314.0	238.6	196.1	156.8	132.3	119.5				
Pcu2	W	86.0	176.8	129.3	82.9	48.7	27.4	13.1	3.9				
Ps	W	25.41	36.24	31.26	26.19	20.34	15.60	10.83	6.72				
Pu	W	4235	6153.8	5282.6	4395.5	3308	2425.4	1514.9	719.08				
Ran	%	0.83	0.85	0.84	0.84	0.81	0.78	0.70	0.54				
M	kgfm	2.72	3.80	3.15	2.58	2.03	1.30	0.98	0.48				

Ufn	230	V	Ifn	10.1	A	cosfn	0.69	u.r.	s	1.80	%		
Pu	4000	W	Mn	2.6	kgfm	Pa	4800	w	ran	83.3	%		

										6 poli			
A1	div	60.2	97.2	74.2	61.0	49.8	42.0	38.5					
A2	div	61.3	98.9	75.8	64.0	49.8	41.8	38.5					
A3	div	59.6	97.0	73.9	60.0	48.5	41.0	38.0					
Ca	u.r.	0.100	0.100	0.100	0.100	0.100	0.100	0.100					
Ilinie	A	5.96	9.70	7.39	6.09	4.86	4.09	3.76					
Ifaza	A	5.96	9.70	7.39	6.09	4.86	4.09	3.76					
w1	div	20.0	43.0	31.0	21.5	9.0	-3.5	-12.0					
w2	div	76.0	127.0	96.5	78.5	61.2	46.0	37.5					
Cw	u.r.	30	30	30	30	30	30	30					
Pa	W	2832	5052	3777	2952	2058	1227	717					
n	rpm	970	921	949	962	975	980	994					
s	%	3.00	7.90	5.10	3.80	2.50	2.00	0.60					

cos fi	u.r.	0.688	0.755	0.741	0.702	0.613	0.435	0.276			
Pcu1	W	316.5	206.6	120.0	81.6	52.0	36.7	31.1			
Pcu2	W	69.8	367.8	176.8	101.9	45.4	20.0	3.0			
Ps	W	14.16	25.26	18.88	14.76	10.29	6.13	3.58			
Pu	W	2175.8	4196.5	3205.5	2498.0	1694.5	908.3	423.6			
Ran	%	0.77	0.83	0.85	0.85	0.82	0.74	0.59			
M	kgfm	1.75	3.00	2.40	1.90	1.30	0.64	0.20			

Ufn	230	V	Ifn	5.6	A	cosfn	0.68	u.r.	s	3.30	%
Pu	2,200	W	Mn	1.8	kgfm	Pa	2850	w	ran	77.2	%



6 poli

