

VALIADIS S.A.

NAMEPLATE DATA	4	POLE	50	HZ / CYCLES	7,50 KW					
K132M-4 FRAME	3	PHASE	F	INS.CLASS	N/A EFF2					
400 VOLTS	14,8	AMPS	DELTA	CONNECTION						
1440 RPM	S1	DUTY			STANDARD					
MAJOR CONTENTS	UNIT	TEST VALUE	STANDARD VALUE							
(95°C) PHASE RESISTANCE OF WINDING	OHM	2,2535								
NO LOAD CURRENT	AMP	4,617								
NO LOAD INPUT	W	358,8								
CORE LOSS(Pfe)	W	195,2								
WINDAGE FRICTION LOSS(Pfw)	W	123,2								
STATOR WINDING LOSS(Pcu1)	W	458,8								
ROTOR WINDING LOSS(Pcu2)	W	264,7								
STRAY LOAD LOSS(Ps)	W	40,1								
LOCKED ROTOR CURRENT	A	101,9								
LOCKED ROTOR INPUT @ FULL LOAD	W	40587,9								
LOCKED ROTOR TORQUE	N.m	128,0								
PULL OUT TORQUE	N.m	147,1								
LOCKED ROTOR CURRENT/RATED CURRENT	P.U.	6,88		≤ 8,4						
LOCKED ROTOR TORQUE/RATED TORQUE	P.U.	2,57		≥ 1,955						
PULL OUT TORQUE/RATED TORQUE	P.U.	2,98		≥ 2,07						
FULL LOAD TORQUE	N.m	49,4								
FULL LOAD CURRENT	A	14,269								
FULL LOAD SLIP	%	3,339								
INPUT @ FULL LOAD	KW	8,581								
FULL LOAD SPEED	r/min	1450								
EFFICIENCY @ FULL LOAD	%	87,4		87 -1,95						
POWER FACTOR @ FULL LOAD		0,87		≥ 0,81						
STATOR WINDING TEMPERATURE RISE	K	70		≤ 80						
D.E. BEARINGS TEMPERATURE BY PT100	°C	62,0		≤ 95						
SOUND PRESSURE LEVEL	dB(A)	58		≤ 74						
VIBRATION	mm/s	1,6		≤ 1,8						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 40%; text-align: center; vertical-align: middle;">VALIADIS S.A.</td> <td style="width: 20%; text-align: center;">Manufacturing Date</td> <td style="width: 40%; text-align: center;">Manufacturing Code</td> </tr> <tr> <td style="text-align: center;">Test Date</td> <td style="text-align: center;">Report Number</td> </tr> </table>						VALIADIS S.A.	Manufacturing Date	Manufacturing Code	Test Date	Report Number
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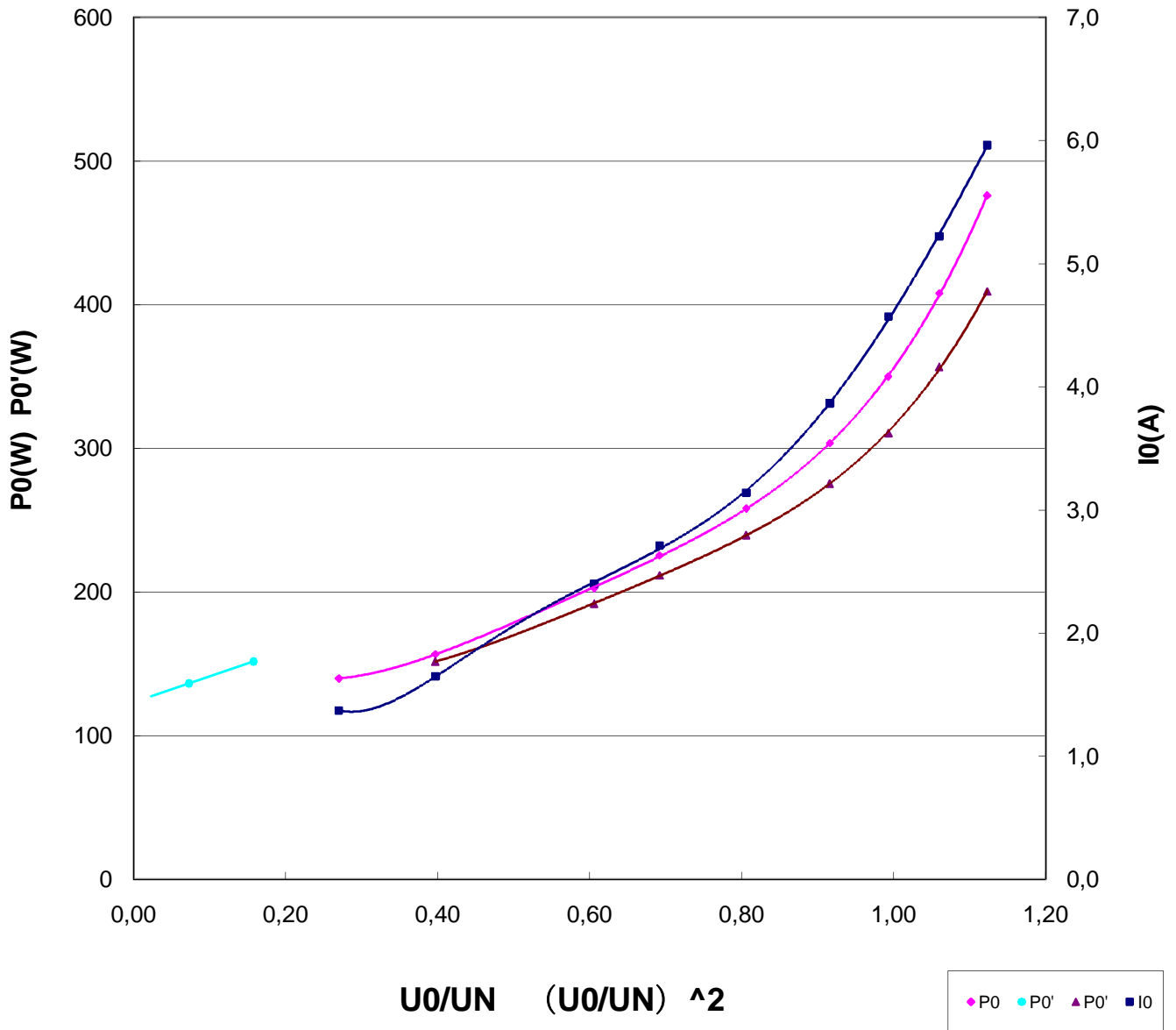
NAMEPLATE DATA		4	POLE	50	HZ / CYCLES	7,50 KW			
K132M-4	FRAME	3	PHASE	F	INS.CLASS	N/A EFF2			
400	VOLTS	14,8	AMPS	DELTA	CONNECTION	STANDARD			
1440	RPM	S1	DUTY						
NO LOAD TEST									
V (unit)	mul.	HZ	A1 (unit)	A2 (unit)	A3 (unit)	mul.	Pin (unit)	mul.	RESISTANCE
449,2	1	50	5,96	6,05	5,88	1	476,0	1	1,2539
424,0	1	50	5,24	5,30	5,13	1	408,0	1	1,2539
397,2	1	50	4,56	4,68	4,48	1	350,0	1	1,2539
366,4	1	50	3,80	3,90	3,90	1	303,6	1	1,2539
322,4	1	50	3,07	3,16	3,19	1	258,2	1	1,2539
276,8	1	50	2,66	2,75	2,73	1	225,5	1	1,2539
242,4	1	50	2,30	2,50	2,40	1	202,8	1	1,2539
158,8	1	50	1,60	1,70	1,65	1	156,8	1	1,2539
108,0	1	50	1,34	1,39	1,39	1	139,9	1	1,2539
data calculation of no load									
V%	U0/UN	I0	P0	(U0/UN)^2	P0cu1	P0'			
112,3%	1,12	5,963	476,0	1,261	66,87	409,13			
106,0%	1,06	5,221	408,0	1,124	51,27	356,73			
99,3%	0,99	4,571	350,0	0,986	39,30	310,70			
91,6%	0,92	3,867	303,6	0,839	28,12	275,48			
80,6%	0,81	3,140	258,2	0,650	18,54	239,66			
69,2%	0,69	2,710	225,5	0,479	13,81	211,69			
60,6%	0,61	2,400	202,8	0,367	10,83	191,97			
39,7%	0,40	1,648	156,8	0,158	5,11	151,69			
27,0%	0,27	1,372	139,9	0,073	3,54	136,36			
RESULTS AT:		400	Volts						
N.L.AMP	N.L.LOSS			WINDAGE/FRICTION Pfw			CORE LOSS Pfe		
4,617	358,81			123,2			195,2		
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No load test

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NAMEPLATE DATA	4	POLE	50	HZ / CYCLES	7,5 KW
K132M-4	FRAME	3	PHASE	F	INS.CLASS
400	VOLTS	14,8	AMPS	DELTA	CONNECTION
1440	RPM	S1	DUTY		STANDARD

NO LOAD



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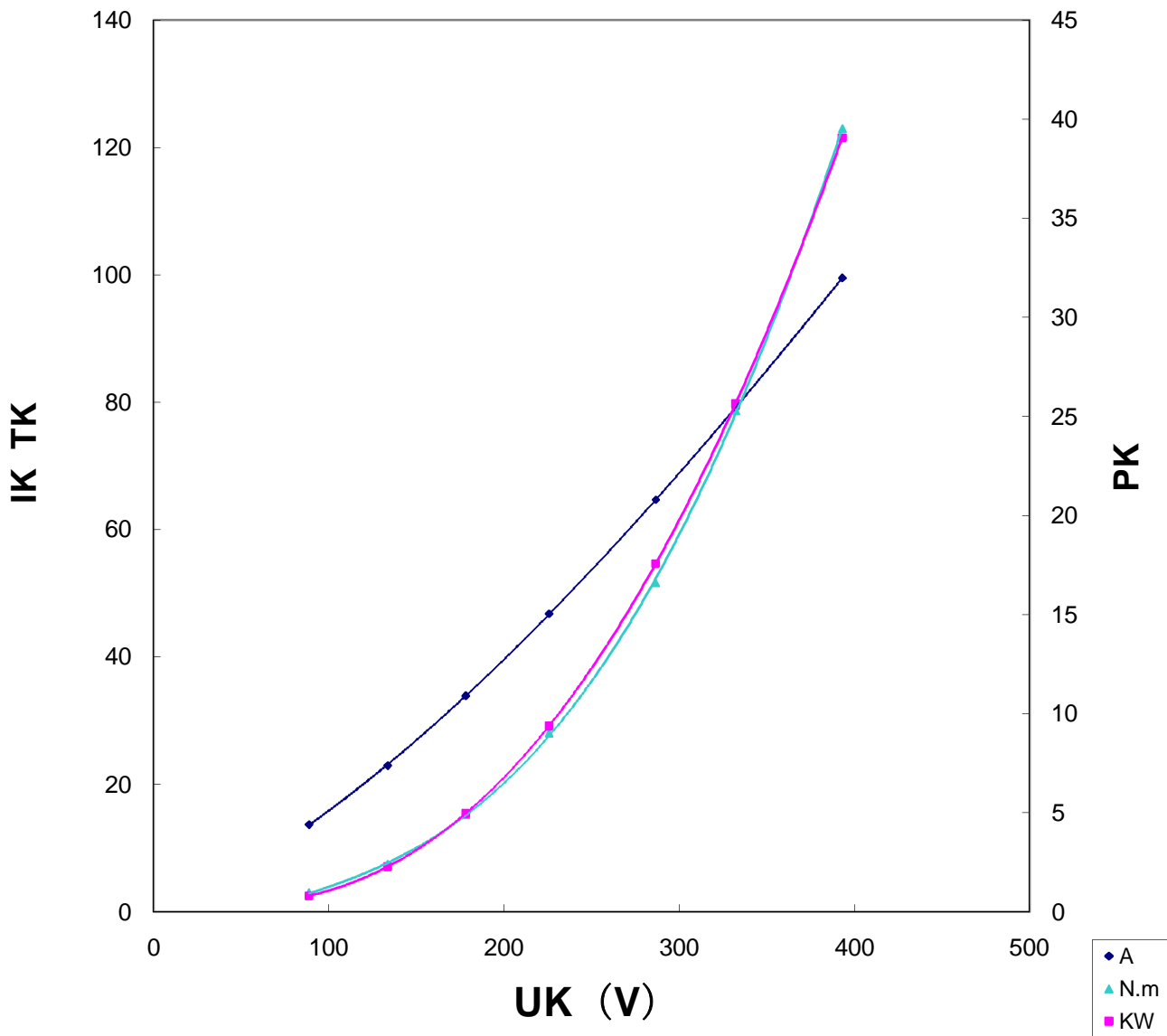
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400	VOLTS	14,8	AMPS	DELTA	CONNECTION	STANDARD			
1440	RPM	S1	DUTY						
LOCKED ROTOR TEST									
V	mul.	A1 (unit)	A2 (unit)	A3 (unit)	mul.	P	mul.	TORQUE (Kg.m)	
393,1	1	99,1	98,4	101,1	1	39056,0	1	12,54	
332,2	1	78,7	78,1	80,3	1	25644,0	1	8,02	
286,6	1	64,4	63,9	65,7	1	17560,0	1	5,27	
225,7	1	46,6	46,2	47,5	1	9372,0	1	2,86	
178,2	1	33,8	33,5	34,4	1	4956,0	1	1,55	
133,6	1	22,9	22,7	23,3	1	2274,0	1	0,76	
88,8	1	13,6	13,5	13,9	1	804,0	1	0,30	
data calculation of locked rotor									
UK		IK	PK	TK		LOG	LOG	LOG	
V		A	KW	N.m	cosφ	UK	IK	LOGPK	TK
393,1		99,53	39,056	122,90	0,576	2,5944	1,9980	1,5917	2,0896
332,2		79,05	25,644	78,60	0,564	2,5214	1,8979	1,4090	1,8954
286,6		64,69	17,560	51,60	0,547	2,4573	1,8109	1,2445	1,7126
225,7		46,79	9,372	28,01	0,512	2,3535	1,6701	0,9718	1,4473
178,2		33,91	4,956	15,20	0,474	2,2508	1,5303	0,6951	1,1818
133,6		22,95	2,274	7,42	0,428	2,1258	1,3608	0,3568	0,8704
88,8		13,69	0,804	2,94	0,382	1,9482	1,1363	-0,0947	0,4683
performance collection of locked rotor									
	at rated		at rated		at 2.5 times rated		at 100V		
	volts		current		current				
VOLTS (V)	400		95,063		193,0		100,0		
AMPS (A)	101,9		14,8		37,00		15,938		
INPUT (KW)	40,588		0,981		5,5		1,123		
TORQUE (N.m)	127,960		3,209						
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400	VOLTS	14,8	AMPS	DELTA	CONNECTION	
1440	RPM	S1	DUTY		0,000	STANDARD

LOCKED



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Locked curve

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400	VOLTS	14,8	AMPS	DELTA	CONNECTION	
1440	RPM	S1	DUTY			STANDARD

TEMPERATURE RISE TEST

TIME (h:min)	V	A1 (unit)	A1 (unit)	A1 (unit)	mul.	P	mul.	T1 °C	T2 °C	T3 °C	T4 °C
13,40	399,3	14,4	14,4	14,4	1,0	8849,0	1	79,7		68,6	6
14,10	401,2	14,3	14,3	14,3	1,0	8711,0	1	75,4		64,6	6,2
14,40	399,1	14,3	14,3	14,3	1,0	8706,0	1	73,3		62,6	5,8
15,10	399,3	14,3	14,3	14,3	1,0	8667,0	1	72,9		62,1	5,7
15,40	402,5	14,3	14,3	14,3	1,0	8682,0	1	72,5		61,8	5,5
average value of the last three points				14,26 A		4342,5	W	72,7		62,0	5,6

T1 : CORE TEMPERATRE

T3 : DE BEARING TEMPERATURE

T2 : DE WINDING TEMPERATURE

T4 : AMBIENT TEMPERATURE

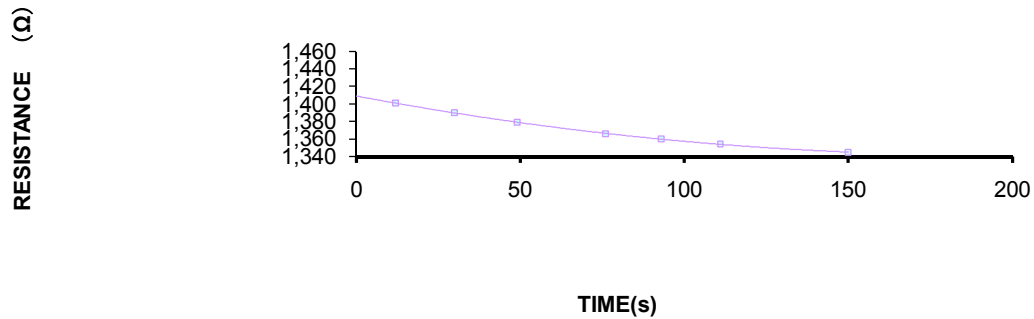
WINDING RESISTANCE (HOT) AT END OF TEMPERATURE RISE TEST

TIMES (S)	12	30	49	76	93	111	150				
RESISTANCE (Ω)	1,4008	1,39	1,379	1,366	1,36	1,354	1,345				

WINDING RESISTANCE(COLD)

Δ	U1 to V1	U1 to W1	V1 to W1	AVERAGE RESISTANCE	MINIMUM RESISTANCE	AMBIENT TEMPERATURE
	1,093	1,095	1,098	1,0953333	1,093	5,6
Y	U	V	W	AVERAGE RESISTANCE	MINIMUM RESISTANCE	AMBIENT TEMPERATURE
				#ΔIAIP/0!	0	

resistance curve when break off electricity



resistance value at 0 sec	1,40903	calculation value of temp.rising	69,57
30 S (Ω)	1,39013	calculation value of temp.rising	65,41
full load curent	14,80 A	modify value of temp. rising	70,5

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1440	RPM	S1	DUTY						

LOAD TEST

V	HZ	A1 (unit)	A2 (unit)	A3 (unit)	mul.	W1 (unit)	W2 (unit) ()	mul.	RPM
400	50	17,36	17,70	17,26	1	10733		1	1438
400	50	15,54	15,85	15,45	1	9469		1	1447
400	50	13,96	14,24	13,88	1	8427		1	1454
400	50	12,68	12,93	12,61	1	7468		1	1461
400	50	11,44	11,67	11,37	1	6585		1	1467
400	50	9,94	10,14	9,88	1	5460		1	1475
400	50	8,81	8,98	8,76	1	4588		1	1480
400	50	7,24	7,38	7,20	1	3389		1	1488

95	SE RESISTAN CE OF	2,2535 Ω $\theta =$ 69,57	Ω K	Pfe= 195,2 W t2= 5,6	W	Pfw= 123,2 W	$^{\circ}$ C		
Calculated Results	OUTPUT W	INPUT W	AMPS A	Pcu1 W	SLIP %	Pcu2 W	Ps W	EFF %	P.F.
123,1	9235,1	10733,0	17,44	685,5	4,406	434,1	59,9	86,04	0,888
109,7	8224,7	9469,0	15,61	549,3	3,767	328,6	48,0	86,86	0,875
98,3	7372,0	8427,0	14,03	443,3	3,269	254,6	38,7	87,48	0,867
87,5	6560,5	7468,0	12,74	365,7	2,772	191,4	31,9	87,85	0,846
77,3	5800,0	6585,0	11,49	297,7	2,345	142,9	26,0	88,08	0,827
64,1	4807,7	5460,0	9,99	224,8	1,777	89,6	19,6	88,05	0,789
53,6	4017,7	4588,0	8,85	176,6	1,421	59,9	15,4	87,57	0,748

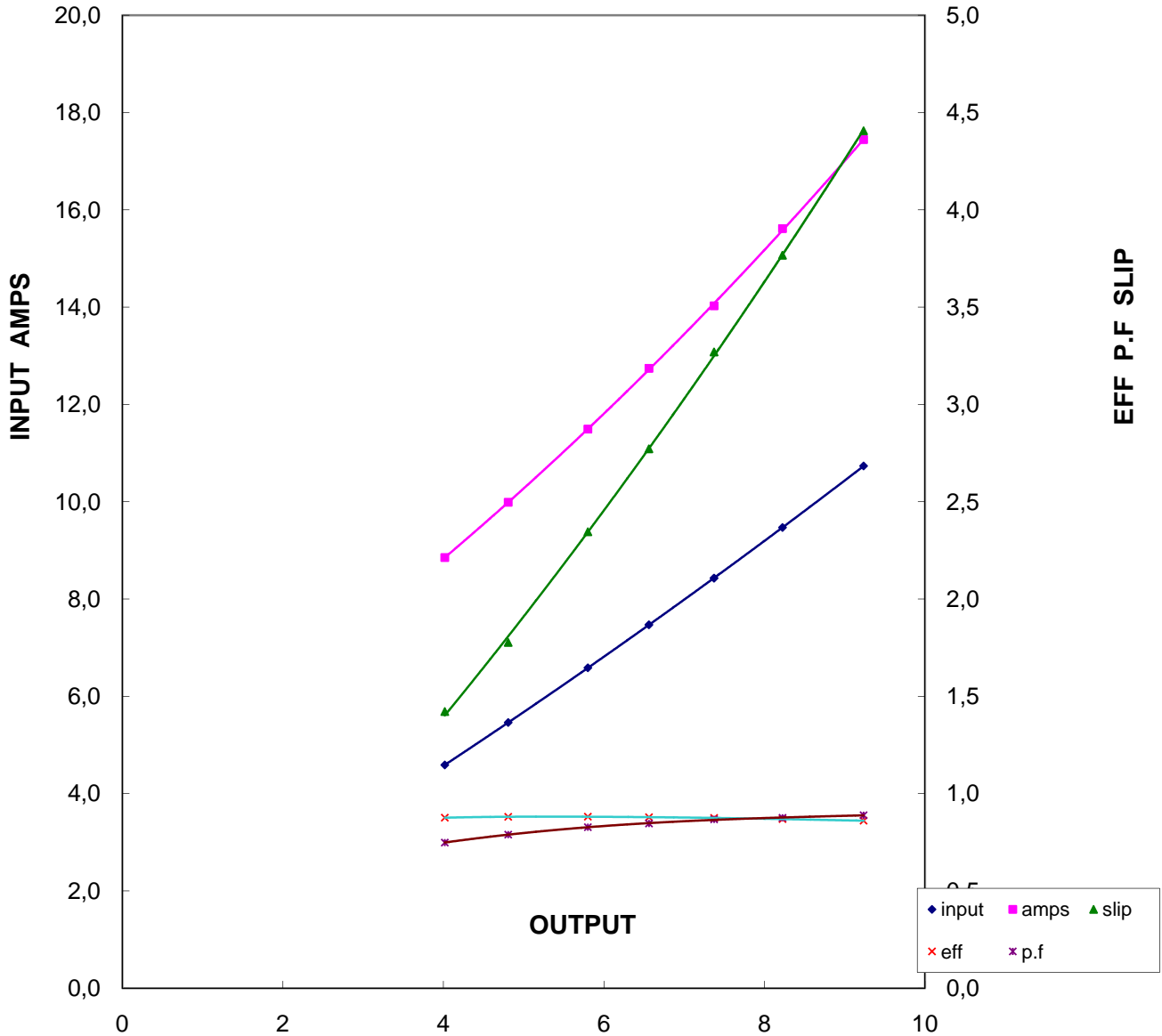
% LOAD	OUTPUT W	INPUT W	AMPS A	Pcu1 W	SLIP %	Pcu2 W	Ps W	EFF %	P.F.
125	9375	10902,2	17,56	695,1	4,46	446,4	60,70	85,99	0,896
110	8250	9509,3	15,64	551,5	3,80	332,8	48,16	86,76	0,877
100	7500	8580,7	14,27	458,8	3,339	264,7	40,07	87,41	0,868
75	5625	6392,4	11,3	285,4	2,242	132,6	24,92	87,99	0,820
50	3750	4292,5	8,47	161,5	1,301	51,2	14,11	87,36	0,732
25	1875	2222,8	5,77	75,1	0,458	8,9	6,56	84,35	0,556

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1440	RPM	S1	DUTY	STANDARD	

LOAD CURVE



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