

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	6	POLE	50	HZ / CYCLES	3,00	KW
K132S-6	FRAME	3	PHASE	F	INS.CLASS	83,30 EFF(IE2)
400	VOLTS	6,5	AMPS	STAR	CONNECTION	IC411 IC
965	RPM	S1	DUTY			

MAJOR CONTENTS	UNIT	TEST VALUE	STANDARD VALUE
(95°C) PHASE RESISTANCE OF WINDING	OHM	1,8507	
NO LOAD CURRENT	AMP	3,645	
NO LOAD INPUT	kW	215,6	
CORE LOSS(Pfe)	kW	117,1	
WINDAGE FRICTION LOSS(Pfw)	kW	30,0	
STATOR WINDING LOSS(Pcu1)	kW	81,2	
ROTOR WINDING LOSS(Pcu2)	kW	147,8	
STRAY LOAD LOSS(Ps)	kW	16,7	
LOCKED ROTOR CURRENT	A	35,2	
LOCKED ROTOR INPUT @ FULL LOAD	W	15796,4	
LOCKED ROTOR TORQUE	N.m	58,3	
PULL OUT TORQUE	N.m	69,3	
LOCKED ROTOR CURRENT/RATED CURRENT	P.U.	5,43	
LOCKED ROTOR TORQUE/RATED TORQUE	P.U.	1,96	
PULL OUT TORQUE/RATED TORQUE	P.U.	2,31	
FULL LOAD TORQUE	N.m	30,0	
FULL LOAD CURRENT	A	6,624	
FULL LOAD SLIP	%	4,415	
INPUT @ FULL LOAD	KW	3,546	
FULL LOAD SPEED	r/min	956	
EFFICIENCY @ FULL LOAD	%	84,6	
POWER FACTOR @ FULL LOAD		0,77	
STATOR WINDING TEMPERATURE RISE	K	49	
D.E. BEARINGS TEMPERATURE BY PT100	°C	54,7	
SOUND PRESSURE LEVEL	dB(A)	62	
VIBRATION	mm/s	1,0	

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NO LOAD TEST

V (unit)	mul.	HZ	A1 (unit)	A2 (unit)	A3 (unit)	mul.	W1 (unit)	W2 (uni t)	mul.	RESISTANCE
448,1	1	50	2,620	2,473	2,516	2	-487,6	660,2	2	1,72670
424,1	1	50	2,195	2,108	2,104	2	-380,8	521,8	2	1,72670
399,4	1	50	1,881	1,782	1,797	2	-321,1	426,9	2	1,72670
359,9	1	50	1,507	1,457	1,448	2	-229,8	313,6	2	1,72670
317,7	1	50	1,233	1,195	1,179	2	-164,0	228,9	2	1,72670
277,8	1	50	1,030	1,007	0,982	2	-117,1	170,9	2	1,72670
230,8	1	50	0,828	0,806	0,782	2	-74,2	117,9	2	1,72670
187,5	1	50	0,659	0,642	0,624	2	-43,6	79,6	2	1,72670
140,3	1	50	0,493	0,472	0,458	2	-21,1	46,4	2	1,72670
94,7	1	50	0,357	0,333	0,327	2	-4,7	25,7	2	1,72670

data calculation of no load

V%	U0/UN	I0	P0	(U0/UN)^2	P0cu1	P0'
112,0%	1,12	5,073	345,2	1,255	133,29	211,91
106,0%	1,06	4,271	282,0	1,124	94,51	187,49
99,9%	1,00	3,640	211,6	0,997	68,63	142,97
90,0%	0,90	2,941	167,6	0,810	44,82	122,78
79,4%	0,79	2,405	129,8	0,631	29,95	99,85
69,5%	0,69	2,013	107,6	0,482	20,98	86,62
57,7%	0,58	1,611	87,4	0,333	13,44	73,96
46,9%	0,47	1,283	72,0	0,220	8,53	63,47
35,1%	0,35	0,949	50,6	0,123	4,66	45,94
23,7%	0,24	0,678	42,0	0,056	2,38	39,62

RESULTS AT: 400 Volts

N.L.AMP	N.L.LOSS	WINDAGE/FRICTION Pfw	CORE LOSS Pfe
3,645	215,624	30,0	117,1

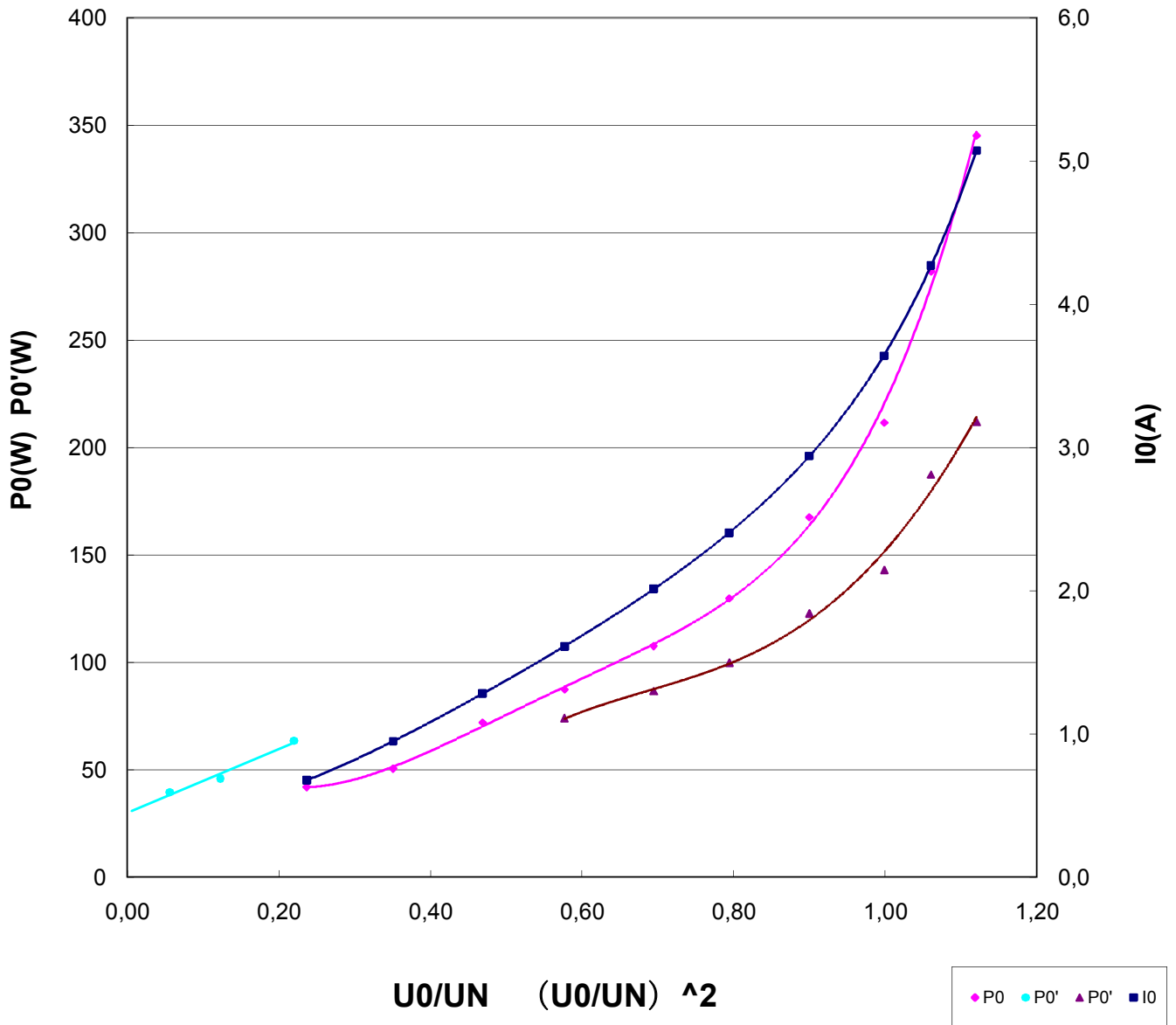
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965	RPM	S1	DUTY			

NO LOAD



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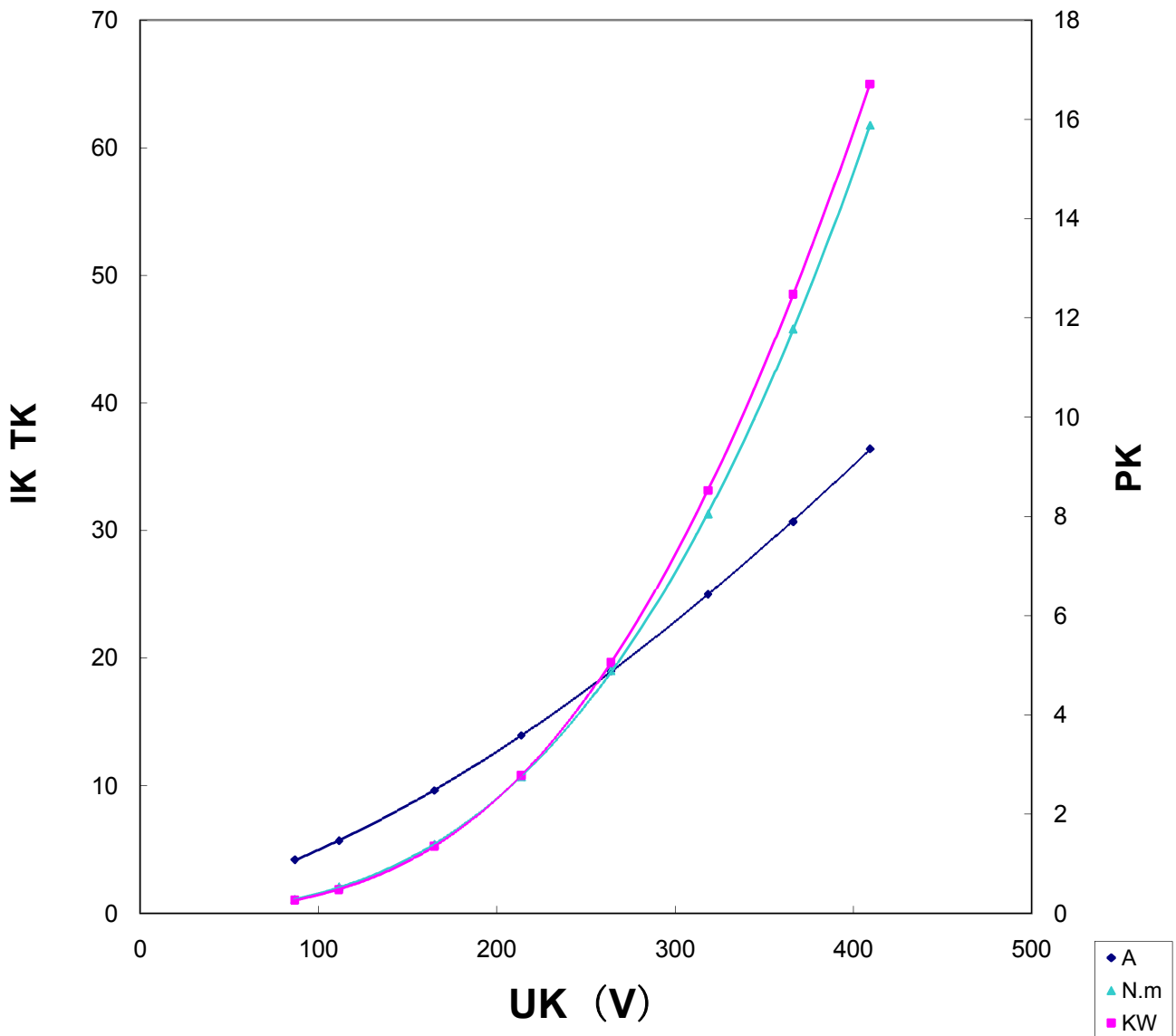
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965	RPM	S1	DUTY						
LOCKED ROTOR TEST									
V (unit)	mul.	A1 (unit)	A2 (unit)	A3 (unit)	mul.	W1 (unit)	W2 (unit)	mul.	TORQUE (Kg.m)
409,3	1	1,824	1,820	1,816	20	28,6	806,9	20	6,30
366,2	1	1,535	1,534	1,534	20	16,3	607,5	20	4,67
318,5	1	1,251	1,250	1,250	20	0,6	425,3	20	3,19
264,0	1	0,951	0,949	0,949	20	-9,6	262,4	20	1,94
213,7	1	1,399	1,391	1,391	10	-25,5	303,2	10	1,09
165,0	1	0,967	0,960	0,960	10	-21,5	156,9	10	0,55
111,5	1	0,573	0,564	0,564	10	-11,8	59,7	10	0,21
86,7	1	0,424	0,418	0,418	10	-7,5	34,1	10	0,11
data calculation of locked rotor									
UK V	IK A	PK KW	TK N.m	cosφ	LOG UK	LOG IK	LOGPK	LOG TK	
409,3	36,39	16,710	61,74	0,648	2,6120	1,5610	1,2230	1,7906	
366,2	30,68	12,476	45,78	0,641	2,5637	1,4869	1,0961	1,6607	
318,5	25,01	8,518	31,28	0,617	2,5031	1,3981	0,9303	1,4953	
264,0	18,99	5,056	19,00	0,582	2,4216	1,2786	0,7038	1,2788	
213,7	13,94	2,777	10,68	0,538	2,3298	1,1441	0,4436	1,0286	
165,0	9,62	1,354	5,39	0,492	2,2175	0,9834	0,1316	0,7316	
111,5	5,67	0,479	2,08	0,437	2,0473	0,7539	-0,3197	0,3181	
86,7	4,20	0,266	1,07	0,422	1,9380	0,6233	-0,5751	0,0294	
performance collection of locked rotor									
	at rated volts	at rated current	at 2.5 times rated current	at 100V					
VOLTS (V)	400	124,884	242,8	100,0					
AMPS (A)	35,2	6,5	16,18	4,991					
INPUT (KW)	15,796	0,594	3,3	0,380					
TORQUE (N.m)	58,296	2,625							
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LOCKED



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965	RPM	S1	DUTY				

TEMPERATURE RISE TEST

TIME (h:min)	V	A1 (unit)	A1 (unit)	A1 (unit)	mul.	W1 (unit)	W2 (unit)	mul.	T1 °C	T2 °C	T3 °C	T4 °C
18:00	400	1,288	1,286	1,289	5,0	638,2		5	59,0		54,1	30,1
18:30	400	1,291	1,293	1,292	5,0	661,8		5	55,5		53,9	30,4
19:00	400	1,289	1,295	1,296	5,0	654,0		5	55,8		54,3	30,75
19:30	400	1,303	1,314	1,334	5,0	662,1		5	55,9		54,9	30,65
20:00	400	1,301	1,312	1,305	5,0	663,1		5	56,3		55	30,8
average value of the last three points				6,527222 A		3298,667		W	56,0	#ΔIΔIP/0!	54,7	30,7

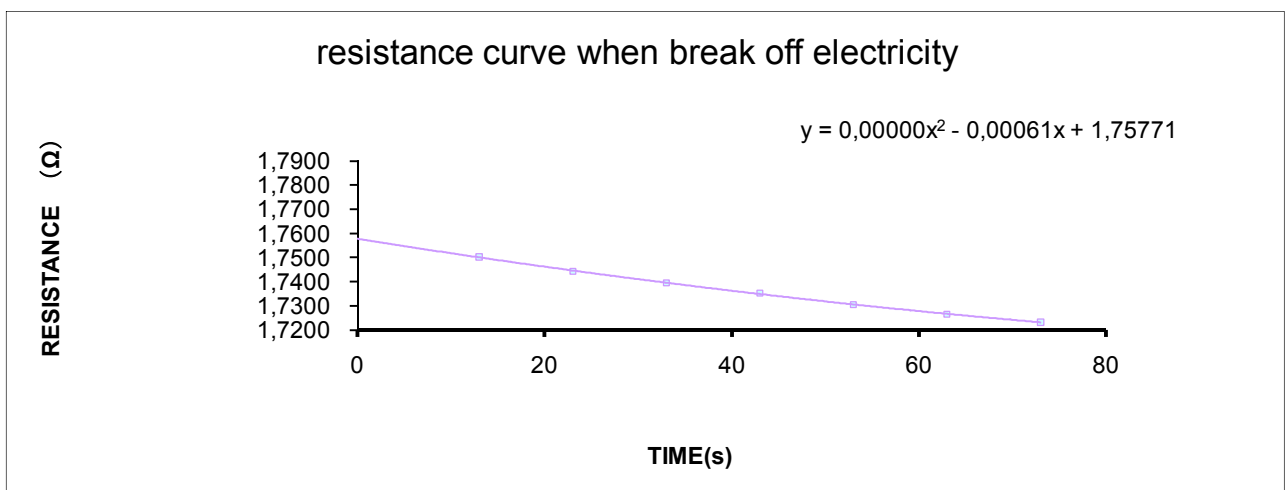
T1 : CORE TEMPERATRE
T2 : DE WINDING TEMPERATURE
T3 : DE BEARING TEMPERATURE
T4 : AMBIENT TEMPERATURE

WINDING RESISTANCE (HOT) AT END OF TEMPERATURE RISE TEST

TIMES (S)	13	23	33	43	53	63	73					
RESISTANCE (Ω)	1,7502	1,7443	1,7395	1,7352	1,7305	1,7265	1,7232					

WINDING RESISTANCE(COLD)

Δ	U1 to V1	U1 to W1	V1 to W1	AVERAGE RESISTANCE	MINIMUM RESISTANCE	AMBIENT TEMPERATURE
Y	U	V	W	AVERAGE RESISTANCE	MINIMUM RESISTANCE	AMBIENT TEMPERATURE
	1,4741	1,4966	1,4963	1,489	1,4741	30,5



resistance value at 0 sec	1,75771	calculation value of temp.rising	50,85
30 S (Ω)	1,740922	calculation value of temp.rising	47,82
full load curent	6,62 A	modify value of temp. rising	49

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965	RPM	S1	DUTY						

LOAD TEST

V	HZ	A1 (unit)	A2 (unit)	A3 (unit)	mul.	W1 (unit)	W2 (unit)	mul.	RPM
400	50	1,397	1,535	1,470	5	578,7	196,0	5	953,0
400	50	1,338	1,223	1,396	5	527,1	184,9	5	958,0
400	50	1,250	1,182	1,139	5	422,8	173,6	5	964,0
400	50	1,033	0,997	1,103	5	413,4	111,8	5	971,0
400	50	1,004	0,926	0,951	5	346,8	111,0	5	974,0
400	50	0,767	0,751	0,846	5	308,9	12,5	5	983,0
400	50	0,717	0,721	0,716	5	241,5	6,9	5	987,0

95	(°C) PHASE RESISTANCE OF WINDING	1,8507	Ω	Pfe=	117,1	W	Pfw=	30,0	W
	θ=	50,85	K	t2=	30,7	°C			

Calculated Results	OUTPUT W	INPUT W	AMPS A	Pcu1 W	SLIP %	Pcu2 W	Ps W	EFF %	P.F.
107,9	3237,6	3873,6	7,34	298,8	4,9057	169,6	20,5	83,58	0,762
100,5	3014,6	3560,0	6,59	241,4	4,384	140,3	16,5	84,68	0,779
84,1	2524,4	2981,8	5,95	196,7	3,758	100,3	13,5	84,66	0,723
74,9	2245,7	2625,9	5,22	151,4	3,027	71,4	10,4	85,52	0,726
65,0	1949,5	2288,9	4,80	128,1	2,714	55,5	8,8	85,17	0,688
44,8	1343,0	1607,0	3,94	86,2	1,774	24,9	5,9	83,57	0,589
33,5	1004,4	1242,2	3,59	71,5	1,357	14,3	4,9	80,86	0,500

% LOAD	OUTPUT W	INPUT W	AMPS A	Pcu1 W	SLIP %	Pcu2 W	Ps W	EFF %	P.F.
125	3750	4493,1	7,92	348,5	5,70	229,4	23,88	83,46	0,819
110	3300	3935,7	7,32	99,0	4,93	183,4	20,36	83,85	0,777
100	3000	3546,4	6,62	81,2	4,415	147,8	16,69	84,59	0,773
75	2250	2629,6	5,2	50,6	3,075	75,7	10,40	85,57	0,726
50	1500	1787,8	4,20	32,6	2,047	33,5	6,71	83,90	0,615

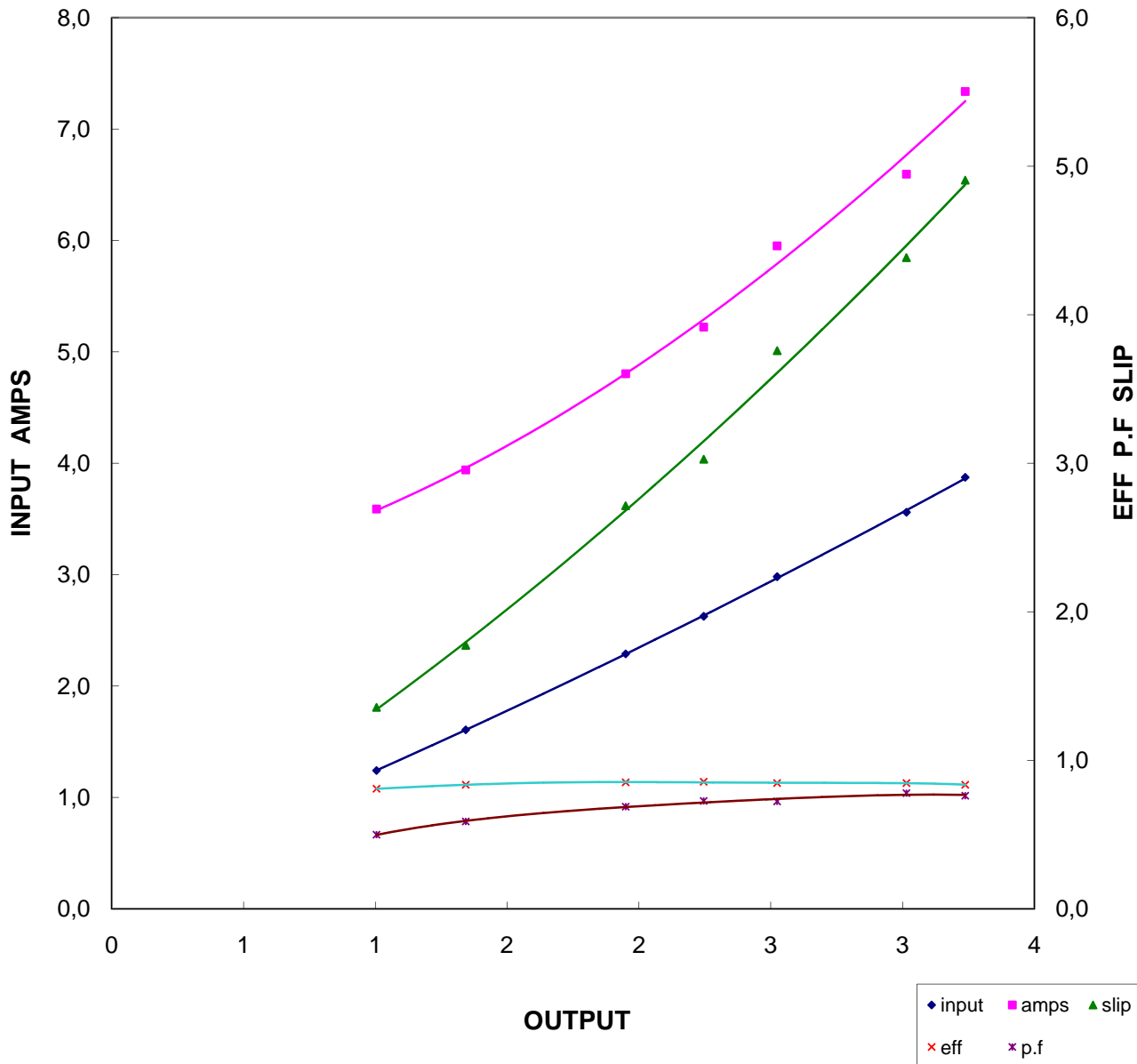
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LOAD CURVE



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