

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

VALIADIS S.A.

Type	K132S-2	Poles	2	Power	5,5	KW
Voltage	400 V	Current	10,2 A	Frequency	50	HZ
Speed	2875 r/min	Duty	S1	Connection	△	
Ins.class	F	Weight	64 Kg		IP55	

NO LOAD TEST

VOL	mul.	HZ	I01	I02	I03	mul.	W1	W2	mul.	°C	Ω
469,2	1	50	2,257	2,273	2,264	2	634,4	-424,5	2	69,4	1,46585
437,1	1	50	1,801	1,822	1,820	2	483,8	-301,9	2	69,1	1,46441
403,1	1	50	1,448	1,467	1,468	2	365,8	-213,4	2	68,9	1,46344
356,9	1	50	2,267	2,272	2,295	1	507,6	-285,5	1	65,4	1,44659
297,6	1	50	1,755	1,720	1,723	1	358,5	-145,4	1	65,0	1,44466
256,8	1	50	1,487	1,455	1,452	1	268,0	-96,8	1	64,8	1,44370
199,6	1	50	1,145	1,162	1,122	1	184,7	-34,0	1	64,4	1,44177
167,2	1	50	1,013	1,043	1,041	1	152,5	0,0	1	64,2	1,44081
128,7	1	50	0,904	0,905	0,931	1	110,4	26,8	1	64,1	1,44033

data calculation of no load

V%	U0/UN	I0	P0	(U0/UN)^2	P0cu1	P0'	COSφ
117,3%	1,17	4,529	419,8	1,376	45,11	374,69	0,114
109,3%	1,09	3,629	363,8	1,194	28,92	334,88	0,132
100,8%	1,01	2,922	304,8	1,016	18,74	286,06	0,149
89,2%	0,89	2,278	222,1	0,796	11,26	210,84	0,158
74,4%	0,74	1,733	213,1	0,554	6,51	206,59	0,239
64,2%	0,64	1,465	171,2	0,412	4,65	166,55	0,263
49,9%	0,50	1,143	150,7	0,249	2,83	147,87	0,381
41,8%	0,42	1,032	152,5	0,175	2,30	150,20	0,510
32,2%	0,32	0,913	137,2	0,104	1,80	135,40	0,674

RESULTS AT: 400 V

N.L.AMP	2,865	N.L.LOSS(W)	299,92	Pw(W)	129,6	Pe(W)	152,4	P.F	0,15
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	Test Kind	

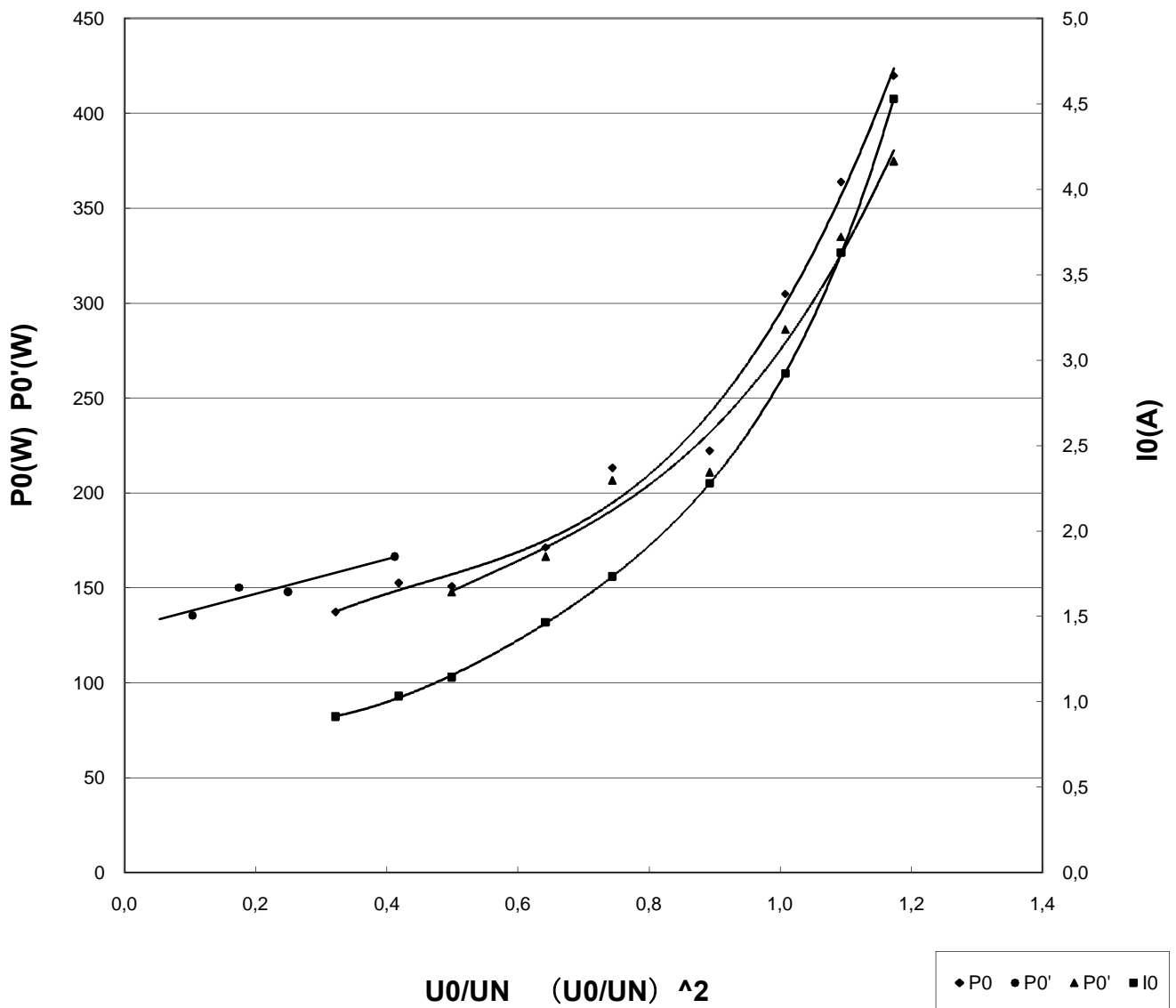
NO LOAD TEST

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No Load Curve



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LOCKED ROTOR TEST									
VOL	mul.	lk1	lk2	lk3	mul.	W1	W2	mul.	Torqur (Kg.m)
407,2	1	1,451	1,443	1,454	50	495,6	-27,2	50	4,70
361,8	1	3,119	3,087	3,127	20	943,9	-49,8	20	3,50
303,6	1	2,494	2,458	2,503	20	630,9	-32,6	20	2,20
253,9	1	1,998	1,964	2,014	20	417,0	-25,2	20	1,50
196,6	1	2,929	2,865	2,943	10	464,0	-42,2	10	0,80
157,4	1	2,244	2,189	2,244	10	281,1	-32,0	10	0,50
112,5	1	1,524	1,500	1,526	10	135,8	-18,9	10	0,30
data calculation of locked rotor									
UK	IK	PK	TK	cosφ	LOGUK	LOGIK	LOGPK	LOGTK	
V	A	KW	N.m						
407,20	72,47	23,420	46,06	0,458	2,6098	1,8601	1,3696	1,6633	
361,80	62,22	17,882	34,30	0,459	2,5585	1,7939	1,2524	1,5353	
303,60	49,70	11,966	21,56	0,458	2,4823	1,6964	1,0779	1,3336	
253,90	39,84	7,836	14,70	0,447	2,4047	1,6003	0,8941	1,1673	
196,60	29,12	4,218	7,84	0,425	2,2936	1,4642	0,6251	0,8943	
157,40	22,26	2,491	4,90	0,411	2,1970	1,3475	0,3964	0,6902	
112,50	15,17	1,169	2,94	0,396	2,0512	1,1809	0,0678	0,4683	
performance collection of locked rotor									
	at rated volts		at rated current		at 2.5 times rated current		at 100V		
VOLTS (V)	400		81,047		175,9		100,0		
AMPS (A)	70,8		10,2		25,50		13,193		
INPUT (KW)	22,542		0,243		3,3		0,801		
TORQUE (N.m)	44,195		1,567						
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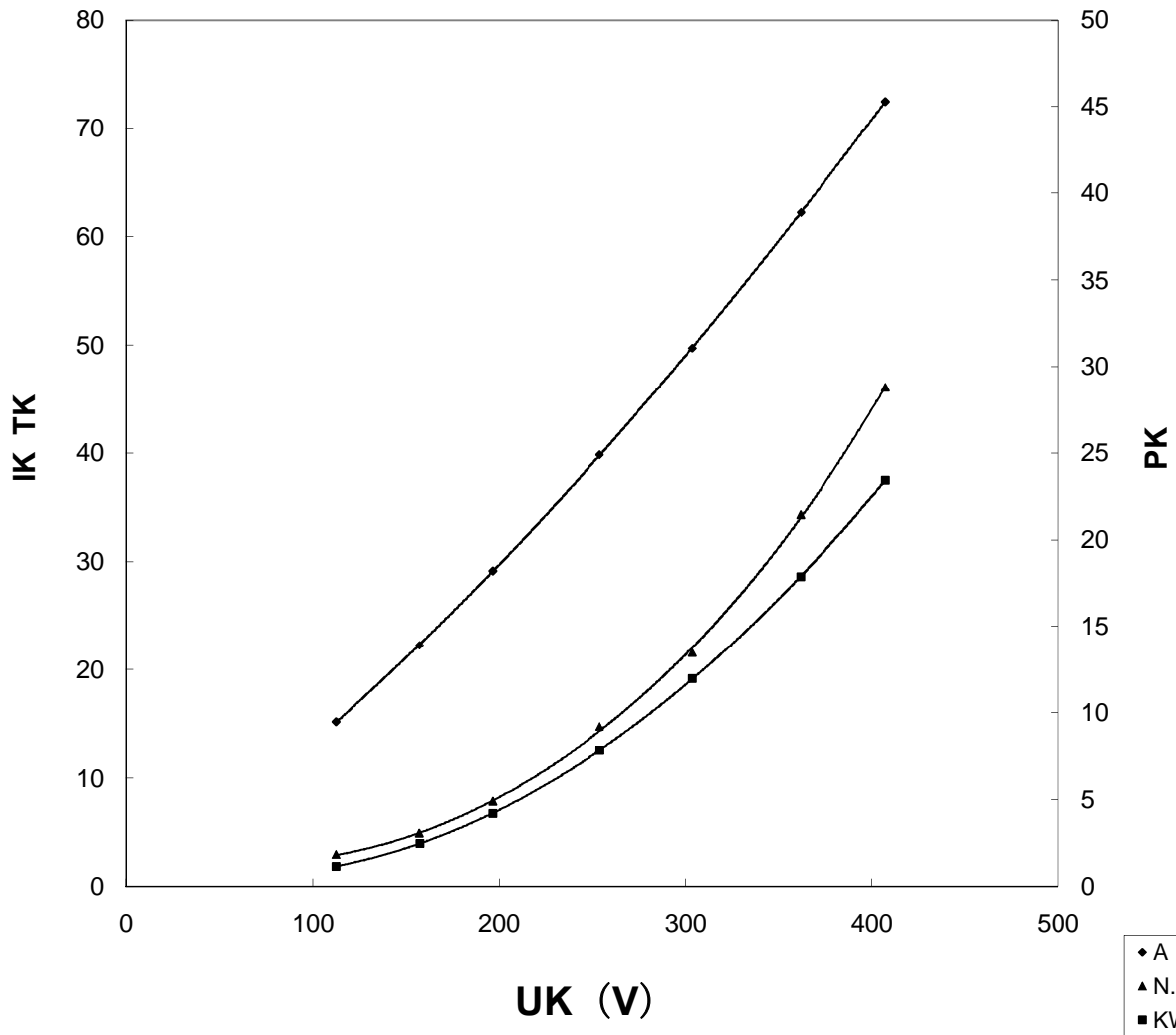
LOCKED ROTOR TEST

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Speed	2875	r/min	Duty	S1	Connection	△	
Ins.class	F		Weight	64			IP55

Locked Rotor Curve



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Ins.class	F	Weight	64 Kg		IP55	

TEMPERATURE RISE TEST

TIME (h:min)	V	I1	I2	I3	mul.	W1	W2	mul.	T1 °C	T2 °C	T3 °C	T4 °C	T5 °C	T6 °C
13,04	400,1	2,087	2,095	2,091	5,0	466,6	837,5	5	35,2	75,6	74,6	38,8	31,0	21,2
13,33	400,0	2,093	2,094	2,104	5,0	471,0	837,8	5	36,1	80,0	79,2	40,0	31,9	21,2
14,00	400,0	2,095	2,094	2,095	5,0	470,0	836,6	5	36,3	79,5	78,6	40,4	31,8	21,5
14,29	400,1	2,088	2,098	2,094	5,0	467,2	839,2	5	36,2	79,7	79,0	40,3	31,5	21,2
14,59	400,1	2,079	2,083	2,093	5,0	467,3	833,7	5	35,3	78,9	78,2	39,5	31,2	21,1
		10,455		A		6548,33		W	35,3	79,4	74,6	40,1	31,2	21,3

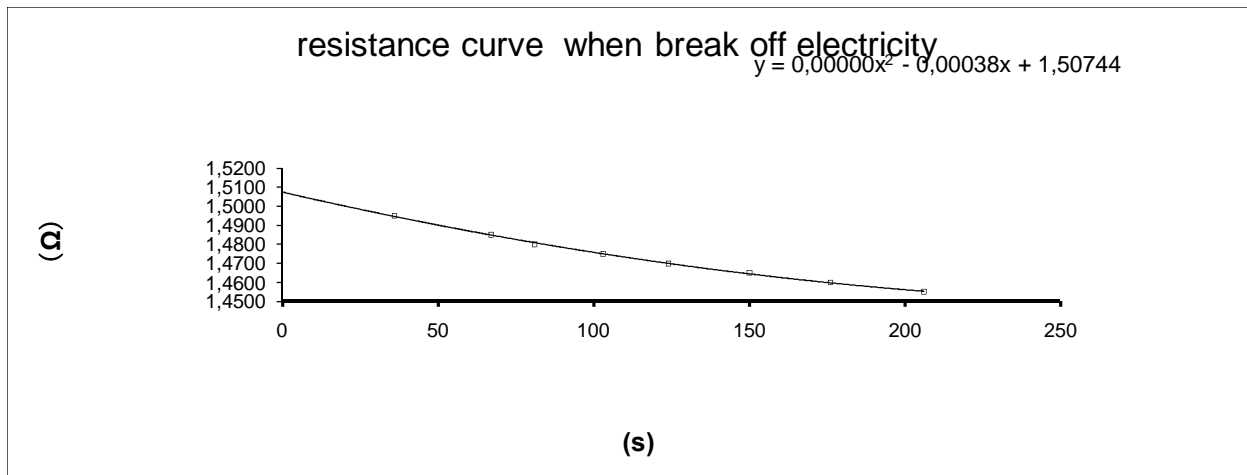
T1 : DE BEARING TEMPERATURE T4 : CORE TEMPERATRE T5: FRAME TEMPERATRE
T2-T3 : DE WINDING TEMPERATURE T6 : AMBIENT TEMPERATURE

WINDING RESISTANCE (HOT) AT END OF TEMPERATURE RISE TEST

TIME (S)	36	67	81	103	124	150	176	206					
RESISTANCE (Ω)	1,4950	1,4850	1,4800	1,4750	1,4700	1,4650	1,4600	1,4550					

WINDING RESISTANCE (COLD)

Δ	U1-V1	U1-W1	V1-W1	AVERAGE RESISTANCE	MINIMUM RESISTANCE	MBIENT TEMPERATURE
	1,226	1,226	1,229	1,22700	1,22600	19,8
Y	U1-U2	V1-V2	W1-W2	AVERAGE RESISTANCE	MINIMUM RESISTANCE	MBIENT TEMPERATURE
					0	



resistance value at 0 sec (Ω)	1,5074	calculation value of temp.rising	57,03 K
30 S (Ω)	1,4971	calculation value of temp.rising	54,87 K
full load curent	10,08 A	modify value of temp. rising	51 K

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Ins.class	F		Weight	64 Kg	Protection	IP55	

LOAD TEST

Voltage V	Frequency HZ	current A	current A	current A	mul.	output W	output W	mul.	speed r/min
400,3	49,99	2,692	2,705	2,703	5	612,8	1081,6	5	2863,9
400,4	49,99	2,292	2,297	2,307	5	520,2	919,5	5	2887,6
400,3	49,98	2,036	2,038	2,035	5	453,8	815,0	5	2902,3
400,2	49,98	1,614	1,625	1,621	5	339,4	651,4	5	2926,0
400,0	49,98	3,229	3,219	3,228	2	606,7	1288,3	2	2945,0
400,0	49,98	2,384	2,382	2,407	2	329,2	939,1	2	2964,3

95	(°C) PHASE	2,3837	Ω	Pfe=	152,4	W	Pfw=	129,6	W
	θ=	57,03	K	t2=	21,3	°C			

Calculate

d %	OUTPUT W	INPUT W	AMPS A	Pcu1 W	SLIP %	Pcu2 W	Ps W	EFF %	P.F.
133,1	7322,8	8472,0	13,50	434,4	4,787	377,4	55,4	86,44	0,905
114,5	6295,4	7198,5	11,49	314,9	3,953	266,1	40,1	87,45	0,903
101,4	5579,2	6344,0	10,18	247,1	3,436	204,3	31,5	87,94	0,899
79,5	4374,8	4954,0	8,10	156,4	2,603	120,9	19,9	88,31	0,882
60,5	3327,7	3790,0	6,45	99,2	1,934	68,4	12,6	87,80	0,848
39,3	2163,9	2536,6	4,78	54,5	1,256	29,3	6,9	85,31	0,766

LOAD %	OUTPUT W	INPUT W	AMPS A	Pcu1 W	SLIP %	Pcu2 W	Ps W	EEF %	P.F.
125	6875	7889,9	12,55	375,7	4,37	321,8	47,9	87,14	0,907
110	6050	6905,7	11,04	290,7	3,78	244,0	37,1	87,61	0,903
100	5500	6252,6	10,04	240,5	3,381	198,1	30,7	87,96	0,898
75	4125	4665,7	7,7	140,2	2,430	106,3	17,9	88,41	0,878
50	2750	3167,8	5,62	75,3	1,597	47,0	9,6	86,81	0,813
25	1375	1687,0	3,65	31,8	0,795	12,0	4,0	81,51	0,667

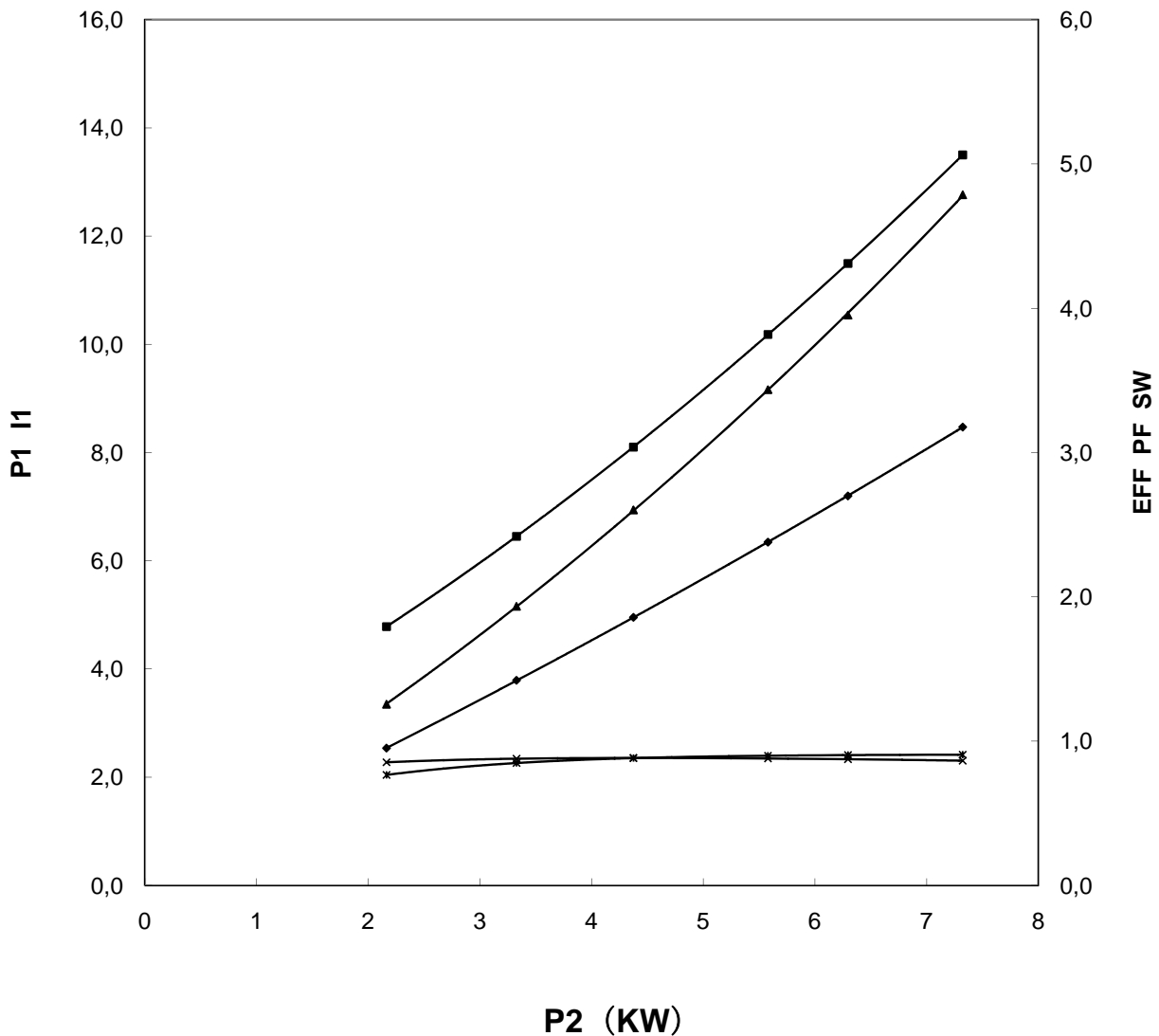
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LOAD CURVE



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