

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	K250MX-6	Poles	6	Power	75,0	kW		
Voltage	400	V	Current	130,5	A	Frequency	50	Hz
Speed	990	r/min	Duty	S1	Connec	Δ		
Ins.class		F				IP55		
MAJOR CONTENTS				TEST VALUE				
95,0 °C PHASE RESISTANCE OF WINDING				Ω	0,1018			
NO LOAD CURRENT				A	28,141			
NO LOAD INPUT				W	2383,4			
CORE LOSS(Pfe)				W	1712,3			
WINDAGE FRICTION LOSS(Pfw)				W	601,2			
STATOR WINDING LOSS(Pcu1)				W	1779,2			
ROTOR WINDING LOSS(Pcu2)				W	992,3			
STRAY LOAD LOSS(Ps)				W	955,5			
LOCKED ROTOR CURRENT				A	704,810			
LOCKED ROTOR INPUT @ FULL LOAD				W	201407			
LOCKED ROTOR TORQUE				N.m	1251,4			
PULL OUT TORQUE				N.m	1580,8			
LOCKED ROTOR CURRENT/RATED CURRENT				P.U	5,40			
LOCKED ROTOR TORQUE/RATED TORQUE				P.U	1,73			
PULL OUT TORQUE/RATED TORQUE				P.U	2,18			
FULL LOAD TORQUE				N.m	725,6			
FULL LOAD CURRENT				A	132,228			
FULL LOAD SLIP				%	1,299			
INPUT @ FULL LOAD				kW	79,9			
FULL LOAD SPEED				r/min	987,0			
EFFICIENCY @ FULL LOAD				%	93,88			
EFFICIENCY @ 75% LOAD				%	93,91			
POWER FACTOR @ FULL LOAD					0,872			
STATOR WINDING TEMPERATURE RISE				K	67,1			
D.E. BEARINGS TEMPERATURE BY PT100				°C	56,8			
STATOR WINDING TEMPERATURE				°C	103,1			
High voltage test				V	1800 1min			
Insulation resistance				MΩ	500			
NOISE (LW)				dB(A)	80			
VIBRATION				mm/s	0,5			
<b>VALIADIS S.A.</b>						Manufacturing Date		Serial No
						Test Date		Report Number

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Speed	990	r/min	Duty	S1		Connection	Δ	
Ins.class	F					IP55		

### NO LOAD TEST

VOL	mul.	HZ	I01	I02	I03	mul.	W1	W2	mul.
444,9	1	50	1,722	1,707	1,696	20	-885,5	1035,8	20
430,1	1	50	1,607	1,592	1,583	20	-795,3	934,4	20
400,4	1	50	1,421	1,407	1,399	20	-652,9	772,2	20
385,5	1	50	1,345	1,332	1,325	20	-593,1	705,0	20
325,9	1	50	1,088	1,077	1,072	20	-399,1	487,4	20
266,2	1	50	0,864	0,855	0,850	20	-252,0	322,1	20
199,7	1	50	1,274	1,253	1,259	10	-261,6	367,4	10
184,6	1	50	1,171	1,150	1,155	10	-216,8	316,3	10
154,6	1	50	0,968	0,951	0,956	10	-139,8	227,4	10

RESULTS AT: 400 V

N.L.AMP	28,14	N.L.LOSS(W)	2383,38	Pw(W)	601,2	Pe(W)	1712,3	P.F	0,12
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Type	K250MX-6		Poles	6		Power	75,0		kW
Voltage	400	V	Current	130,5	A	Frequency	50,0		Hz
Speed	990	r/min	Duty	S1		Connection	Δ		
Ins.class	F							IP55	

### LOCKED ROTOR TEST

VOL	mul.	Ik1	Ik2	Ik3	mul.	W1	W2	mul.	Torqur (kg.m)
267,6	1,0	2,018	1,999	1,999	200,0	-83,6	466,7	200,0	41,3
238,9	1,0	1,727	1,713	1,712	200,0	-66,0	355,7	200,0	32,3
205,7	1,0	1,412	1,401	1,400	200,0	-47,3	250,4	200,0	23,7
172,4	1,0	1,128	1,120	1,118	200,0	-32,1	167,4	200,0	16,2
150,0	1,0	1,904	1,894	1,893	100,0	-47,9	245,3	100,0	12,0
116,0	1,0	2,853	2,839	2,837	50,0	-57,4	283,3	50,0	6,9
71,0	1,0	1,709	1,702	1,700	50,0	-21,3	103,6	50,0	2,5

### performance collection of locked rotor

#### at rated volts

VOLTS (V)	400
AMPS (A)	704,8
INPUT (kW)	201,41
TORQUE (N.m)	1251,38

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## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	K250MX-6		Poles	6		Power	75	kW	
Voltage	400	V	Current	130,5	A	Frequency	50	Hz	
Speed	990	r/min	Duty	S1		Connection	Δ		
Ins.class	F								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	T7 °C	T8 °C	T9 °C	T10 °C	T11 °C	T12 °C	T13 °C	
11:30	400,3	2,644	2,622	2,621	50	473,8	1099	50	56,0	—	97,0	96,3	—	—	—	—	—	—	—	—	—	26,3
12:00	400,3	2,672	2,650	2,649	50	482,0	1110	50	53,6	—	98,6	97,9	—	—	—	—	—	—	—	—	—	27,0
12:30	400,3	2,653	2,630	2,630	50	478,1	1103	50	54,1	—	100,0	99,3	—	—	—	—	—	—	—	—	—	27,6
13:00	400,3	2,656	2,633	2,633	50	478,9	1104	50	54,7	—	101,2	100,3	—	—	—	—	—	—	—	—	—	28,0
13:30	400,4	2,662	2,639	2,639	50	480,0	1107	50	55,4	—	102,3	101,6	—	—	—	—	—	—	—	—	—	28,6
14:00	400,4	2,703	2,680	2,679	50	491,5	1124	50	56,1	—	103,1	102,4	—	—	—	—	—	—	—	—	—	29,2
14:30	400,4	2,679	2,655	2,656	50	485,0	1113	50	56,8	—	103,8	103,1	—	—	—	—	—	—	—	—	—	29,6
Average of the last three points		133,287			A	79988,2		W	56,8	—	103,1	103,1	—	—	—	—	—	—	—	—	—	29,1

T1 T2 : DE BEARING TEMPERATURE

T11 : CORE TEMPERATRE

T12: FRAME TEMPERATRE

T3~T10 : DE WINDING TEMPERATURE

T13 : AMBIENT TEMPERATURE

### WINDING RESISTANCE (HOT) AT END OF TEMPERATURE RISE TEST

TIME (S)	57	67	77	87	97	107	117	127		
RESISTANCE	0,06839	0,06835	0,06833	0,06831	0,06829	0,06827	0,06825	0,06823		

### WINDING RESISTANCE(COLD)

Δ	U1-V1	U1-W1	V1-W1	AVERAGE	MIN	AMBIENT TEM.	
	0,05302	0,05304	0,05306	0,05304	0,05302	23	°C

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Type	K250MX-6	Poles	6	output Power	75,0	kW
Voltage	400 V	Current	130,5 A	Frequency	50,0	Hz
Speed	990 r/min	Duty	S1	Connection	Δ	
Ins.class	F				IP55	

### LOAD TEST

V	HZ	A1 (unit)	A2 (unit)	A3 (unit)	mul.	W1 (unit)	W2 (unit)	mul.	r/min
400,0	50,00	3,132	3,104	3,104	50	620,2	1309,8	50	982,5
400,0	50,00	2,932	2,905	2,905	50	565,6	1225,1	50	984,7
400,0	50,00	2,574	2,552	2,551	50	462,0	1074,4	50	987,5
400,1	50,00	2,021	2,003	2,001	50	281,5	832,1	50	991,3
400,0	50,00	1,791	1,775	1,772	50	195,2	725,0	50	992,8
400,1	50,01	1,648	1,634	1,630	50	135,8	655,5	50	994,2
400,1	50,01	1,330	1,318	1,311	50	-27,6	470,5	50	996,1
400,1	50,00	1,324	1,312	1,306	50	-33,0	465,2	50	996,1

% LOAD	OUTPUT	INPUT	AMPS	Pcu1	SLIP	Pcu2	Ps	EFF	P.F.
	W	W	A	W	%	W	W	%	
150	112500	121864,1	191,956	3749,7	2,520	2933,5	2013,7	92,32	0,916
125	93750	100724,5	161,714	2661,3	1,860	1792,4	1429,2	93,08	0,899
100	75000	79888,4	132,228	1779,2	1,299	992,3	955,5	93,88	0,872
75	56250	59896,0	105,908	1141,4	0,933	532,2	613,0	93,91	0,816
50	37500	40526,7	82,918	699,7	0,610	232,6	375,7	92,53	0,705
25	18750	21501,7	65,492	436,5	0,392	75,9	234,4	87,20	0,474

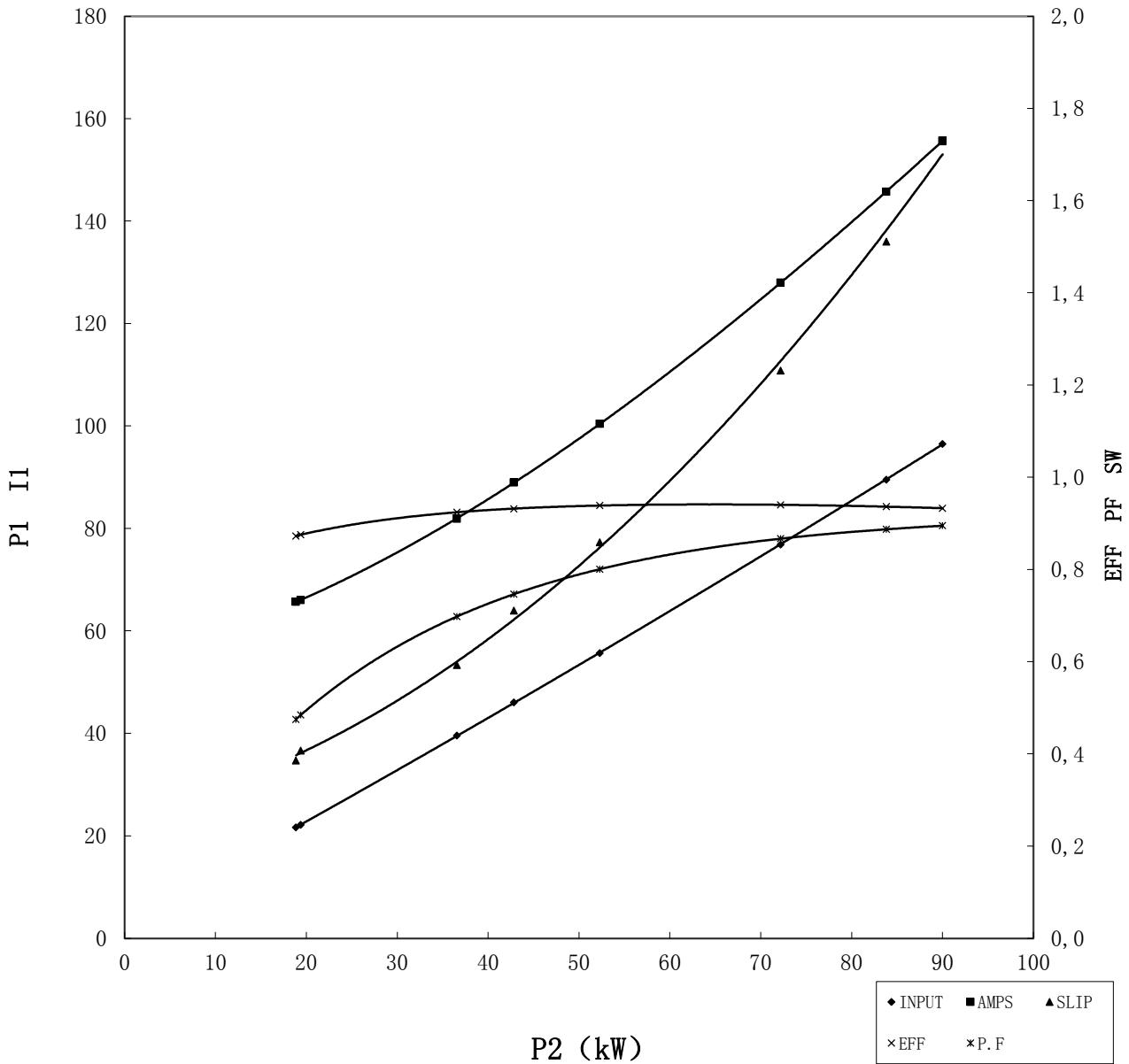
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## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

Type	K250MX-6	Poles	6	output Power	75,0	kW
Voltage	400 V	Current	130,5 A	Frequency	50,0	Hz
Speed	990 r/min	Duty	S1	Connection	Δ	
Ins.class	F				IP55	

### Load Curve



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