

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA			
K200M-6 FRAME REDUCED	IEC TYPE	30 kW	980 r/min
6 POLE	3 PHASE	400 VOLTS	50 Hz
VALIADIS MANUFACTURER	56,3 AMPS	IP55 IP	
	S1 DUTY	F INS.CLASS	Δ CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE	OHM	0,35955
NO LOAD CURRENT	AMP	23,07
NO LOAD INPUT	W	1269,3
CORE LOSS(Pfe)	W	912,9
WINDAGE FRICTION LOSS(Pfw)	W	162,9
STATOR WINDING LOSS(Pcu1)	W	1189,4
ROTOR WINDING LOSS(Pcu2)	W	575,5
STRAY LOAD LOSS(Ps)	W	472
FULL LOAD CURRENT	AMP	56,65
LOCKED ROTOR CURRENT	AMP	388,43
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	6,90
FULL LOAD TORQUE	N.m	291,85
LOCKED ROTOR TORQUE	N.m	726,50
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2,49
PULL OUT TORQUE	N.m	743,15
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2,54
INPUT @ FULL LOAD	kW	33,27
EFFICIENCY @ FULL LOAD	%	90,20
POWER FACTOR @ FULL LOAD		0,85
FULL LOAD SLIP	%	1,843
FULL LOAD SPEED	r/min	981,6
STATOR WINDING TEMPERATURE RISE	K	78
D.E. BEARINGS TEMPERATURE BY PT100	Deg. C	67,8
AMBIENT TEMPERATURE OF TESTING	Deg. C	28,4
HIGH VOLTAGE TEST	V	1800
INSULATION RESISTANCE	MΩ	500
NOISE	dB(A)	74
VIBRATION	mm/s	0,6

The data above is calculated as per IEC 34-2,all data at nominal Volts.

VALIADIS S.A. K200M-6 30 kW 400 VOLTS 50 Hz	SERIAL NO.		
	DATE		REV
	DRAWN		DOCUMENT NO.
	APPRVD		
CHECKED			

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

VALIADIS S.A.

Type	K200M-6	Poles	6		Frame Reduced	Power	30,0 kW
Voltage	400 V	Current	56,3	A	Frequency	50	Hz
Speed	980 r/min	Duty	S1		Connection	Δ	
Ins.class	F	Weight	0	kg		IP55	

NO LOAD TEST

VOL	mul.	Hz	I01	I02	I03	mul.	W1	W2	mul.	°C
479,2	1	50	4,478	4,454	4,485	10	-715,4	1016,8	10	98,5
435,9	1	50	3,063	3,039	3,060	10	-449,5	628,9	10	98,4
400,5	1	50	2,326	2,302	2,315	10	-312,6	440,0	10	98,3
351,5	1	50	1,716	1,695	1,702	10	-198,4	288,7	10	98,2
306,3	1	50	2,755	2,726	2,747	5	-271,7	408,4	5	97,9
250,7	1	50	2,111	2,092	2,106	5	-161,3	263,6	5	97,7
199,5	1	50	4,067	4,069	4,124	2	-226,3	420,0	2	97,4
171,4	1	50	3,428	3,428	3,465	2	-149,2	316,9	2	97,3
148,9	1	50	2,935	2,936	2,979	2	-98,3	244,5	2	97,2
104,5	1	50	2,122	2,123	2,160	2	-27,5	138,6	2	97,0

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VALIADIS S.A.

Type	K200M-6	Poles	6	Power	30,0	Frame Redused	kW
Voltage	400 V	Current	56,3 A	Frequency	50,0		Hz
Speed	980 r/min	Duty	S1	Connection	Δ		
Ins.class	F	Weight	0 kg				IP55

LOCKED ROTOR TEST

VOL	mul.	lk1	lk2	lk3	mul.	W1	W2	mul.	Torqur N.m
397,5	1,0	3,844	3,848	3,862	100,0	-114,0	1151,9	100	716,59
353,1	1,0	3,265	3,268	3,280	100,0	-90,5	866,4	100	542,32
313,5	1,0	2,791	2,792	2,801	100,0	-76,5	653,3	100	402,90
271,1	1,0	2,306	2,305	2,311	100,0	-62,7	462,4	100	281,79
229,4	1,0	1,851	1,849	1,854	100,0	-49,3	309,6	100	184,32
190,2	1,0	2,882	2,878	2,887	50,0	-75,1	392,9	50	114,02
148,9	1,0	2,080	2,079	2,084	50,0	-50,1	216,9	50	60,26
105,5	1,0	3,362	3,357	3,364	20,0	-67,0	241,4	20	25,40

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ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

VALIADIS S.A.

Type	K200M-6	Poles	6	Power	30 kW	Frame Reduced
Voltage	400 V	Current	56,3 A	Frequency	50 Hz	
Speed	980 r/min	Duty	S1	Connection	Δ	
Ins.class	F	Weight	0 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	T7 °C	T8 °C	T9 °C	T10 °C	T11 °C	T12 °C	T13 °C
11:30	400,4	2,896	2,892	2,894	20	520,4	1154,4	20	51,9	—	90,2	—	—	—	—	—	—	—	56,9	—	28,2
12:00	400,3	2,823	2,819	2,820	20	510,9	1127,1	20	58,1	—	98,5	—	—	—	—	—	—	—	61,8	—	28,0
12:30	400,2	2,883	2,878	2,881	20	522,7	1149,4	20	61,0	—	101,3	—	—	—	—	—	—	—	63,7	—	28,0
13:00	400,4	2,897	2,892	2,895	20	526,1	1153,7	20	63,2	—	106,1	—	—	—	—	—	—	—	65,9	—	28,2
13:30	400,4	2,866	2,859	2,862	20	524,6	1145,0	20	65,8	—	110,0	—	—	—	—	—	—	—	68,3	—	28,4
14:00	400,5	2,830	2,826	2,828	20	514,0	1129,4	20	67,1	—	111,2	—	—	—	—	—	—	—	69,1	—	28,0
14:30	400,5	2,833	2,828	2,829	20	515,4	1131,2	20	67,5	—	111,9	—	—	—	—	—	—	—	69,6	—	28,5
15:00	400,5	2,885	2,880	2,883	20	526,1	1151,2	20	67,8	—	112,1	—	—	—	—	—	—	—	69,8	—	28,6
Last 3 points average		56,939			A	33115,33		W	67,8	—	112,1	—	—	—	—	—	—	—	69,8	—	28,4

T1 T2 : DE BEARING TEMPERATURE T9 : AIR INLET TEMPERATURE T11 : CORE TEMPERATRE T12: FRAME TEMPERATRE
 T3~8 : DE WINDING TEMPERATURE T10 : AIR OUTLET TEMPERATURE T13 : AMBIENT TEMPERATURE

WINDING RESISTANCE (HOT) AT END OF TEMPERATURE RISE TEST

TIME (S)	60	83	110	143	174	204	243	293
RESISTANC	0,2475	0,2468	0,2460	0,2452	0,2444	0,2437	0,2430	0,2422

WINDING RESISTANCE(COLD)

	U1-V1	U1-W1	V1-W1	AVERAGE	MIN	AMBIENT TEM.
	0,1906	0,1906	0,1906	0,19060	0,19060	27,4 °C

VALIADIS S.A.	Manu. Date	Serial No
	Test Date	Report Number

**ELECTRIC MOTOR TEST REPORT -
THREE PHASE INDUCTION MOTOR**

VALIADIS S.A.

Type	K200M-6		Poles	6		Power	30,0	kW	Frame Redused		
Voltage	400	V	Current	56,3	A	Frequency	50,0	Hz			
Speed	980	r/min	Duty	S1		Connection	Δ				
Ins.class	F		Weight	0	kg	IP55					

LOAD TEST

V	Hz	I1	I2	I3	mul.	W1	W2	mul.	r/min	Temper ature °C	Torqu r N.m
400,0	50,00	4,030	4,026	4,034	20	736,8	1626,3	20	969,4	110,8	408,0
399,9	50,00	3,487	3,479	3,484	20	648,0	1405,9	20	975,1	112,0	357,5
400,0	50,00	2,768	2,760	2,761	20	507,5	1114,3	20	981,7	112,8	283,6
400,2	50,00	2,182	2,175	2,173	20	370,0	876,1	20	987,2	112,9	217,3
400,1	50,00	1,612	1,604	1,601	20	210,3	636,8	20	992,3	112,5	146,1
400,105	50,00	1,465	1,456	1,455	20	162,0	571,2	20	993,2	112,3	125,5
400,105	50,00	1,155	1,146	1,144	20	36,1	418,4	20	996,8	111,3	72,9

Final Resistance of load : 0,00000 Ω ambient temperature 0,0 °C

LOAD %	P2 W	I A	P1 W	Pcu1s W	Ss %	Pcu2s W	Ps W	Pfe W	EFF %	P.F
150,0	45000	88,0	51466,1	2872,0	3,470	1657,5	1098,7	822,0	87,28	0,844
125,0	37500	71,6	42159,8	1898,9	2,531	997,7	748,4	837,2	88,97	0,850
100,0	30000	56,6	33268,5	1189,4	1,843	575,5	472,3	853,4	90,20	0,848
75,0	22500	43,3	24774,0	694,9	1,242	288,2	262,4	870,0	90,82	0,826
50,0	15000	31,7	16650,6	373,3	0,741	114,1	115,5	884,1	90,08	0,757
25,0	7500	22,6	8799,3	190,0	0,302	23,3	28,6	898,4	85,37	0,561

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ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

VALIADIS S.A.

Type	K200M-6		Poles	6		output Power	30,0 kW	
Voltage	400	V	Current	56,3	A	Frequency	50,0	Hz
Speed	980	r/min	Duty	S1		Connection	Δ	
Ins.class	F		Weight	0 kg			IP55	

