

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA			
K132M2-6	FRAME REDUCED	IEC TYPE	7,5 kW
6	POLE	3	PHASE
VALIADIS	MANUFACTURER	16,2	AMPS
		S1	DUTY
		400	VOLTS
		IP55	IP
		F	INS.CLASS
			960 r/min
			50 Hz
			Δ CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE	OHM	2,28145
NO LOAD CURRENT	AMP	7,10
NO LOAD INPUT	W	418,9
CORE LOSS(Pfe)	W	268,5
WINDAGE FRICTION LOSS(Pfw)	W	31,4
STATOR WINDING LOSS(Pcu1)	W	623,5
ROTOR WINDING LOSS(Pcu2)	W	296,1
STRAY LOAD LOSS(Ps)	W	131
FULL LOAD CURRENT	AMP	16,33
LOCKED ROTOR CURRENT	AMP	92,11
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	5,69
FULL LOAD TORQUE	N.m	74,39
LOCKED ROTOR TORQUE	N.m	161,51
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2,16
PULL OUT TORQUE	N.m	179,69
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2,41
INPUT @ FULL LOAD	kW	8,80
EFFICIENCY @ FULL LOAD	%	85,25
POWER FACTOR @ FULL LOAD		0,78
FULL LOAD SLIP	%	3,721
FULL LOAD SPEED	r/min	962,8
STATOR WINDING TEMPERATURE RISE	K	74
D.E. BEARINGS TEMPERATURE BY PT100	Deg. C	76,0
AMBIENT TEMPERATURE OF TESTING	Deg. C	33,4
HIGH VOLTAGE TEST	V	1800
INSULATION RESISTANCE	MΩ	500
NOISE	dB(A)	70
VIBRATION	mm/s	0,6

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

<b>VALIADIS S.A.</b>  <b>K132M-6</b> <b>7,5 kW</b> <b>400 VOLTS 50 Hz</b>	<b>SERIAL NO.</b>		
	<b>DATE</b>		<b>REV</b>
	<b>DRAWN</b>		<b>DOCUMENT NO.</b>
	<b>APPRVD</b>		
	<b>CHECKED</b>		

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**VALIADIS S.A.**

<b>Type</b>	K132M-6	<b>Poles</b>	6		Frame Reduced	<b>Power</b>	7,5	<b>kW</b>
<b>Voltage</b>	400 V	<b>Current</b>	16,2	<b>A</b>	<b>Frequency</b>	50	<b>Hz</b>	
<b>Speed</b>	960 r/min	<b>Duty</b>	S1		<b>Connection</b>	Δ		
<b>Ins.class</b>	F	<b>Weight</b>	0	<b>kg</b>		IP55		

## NO LOAD TEST

VOL	mul.	Hz	I01	I02	I03	mul.	W1	W2	mul.	°C
464,6	1	50	2,451	2,443	2,349	5	-597,8	805,0	5	106,5
429,9	1	50	1,820	1,823	1,754	5	-421,8	545,3	5	106,6
400,1	1	50	1,432	1,439	1,393	5	-311,1	395,0	5	106,4
384,9	1	50	3,205	3,217	3,120	2	-670,4	842,8	2	106,1
325,2	1	50	2,251	2,261	2,228	2	-389,7	495,4	2	105,8
265,4	1	50	1,702	1,707	1,695	2	-234,7	307,1	2	105,4
199,5	1	50	1,229	1,231	1,227	2	-122,2	169,7	2	104,1
169,2	1	50	1,027	1,028	1,026	2	-84,0	121,7	2	103,5
138,9	1	50	0,840	0,842	0,839	2	-53,0	84,7	2	103,1
108,8	1	50	0,661	0,662	0,661	2	-29,5	54,2	2	102,3

<b>VALIADIS S.A.</b>	<b>Manufacturing Date</b>	<b>Serial No</b>
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**VALIADIS S.A.**

<b>Type</b>	K132M-6	<b>Poles</b>	6	<b>Power</b>	7,5	Frame Reduced	<b>kW</b>
<b>Voltage</b>	400 V	<b>Current</b>	16,2 A	<b>Frequency</b>	50,0		<b>Hz</b>
<b>Speed</b>	960 r/min	<b>Duty</b>	S1	<b>Connection</b>	Δ		
<b>Ins.class</b>	F	<b>Weight</b>	0 kg				IP55

## LOCKED ROTOR TEST

VOL	mul.	lk1	lk2	lk3	mul.	W1	W2	mul.	Torque N.m
400,7	1,0	1,841	1,848	1,853	50,0	0,0	605,0	50	162,21
355,9	1,0	3,863	3,872	3,885	20,0	-17,7	1118,0	20	119,65
311,3	1,0	3,185	3,186	3,202	20,0	-23,5	800,2	20	83,98
266,7	1,0	2,561	2,555	2,571	20,0	-27,1	544,5	20	57,52
207,2	1,0	1,809	1,797	1,811	20,0	-25,8	291,2	20	29,91
146,7	1,0	2,288	2,280	2,286	10,0	-37,4	253,5	10	12,65
101,7	1,0	1,471	1,477	1,469	10,0	-20,5	111,0	10	5,75

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	Test Date	Report Number

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**VALIADIS S.A.**

<b>Type</b>	K132M-6	<b>Poles</b>	6	<b>Power</b>	7,5	Frame Reduced	<b>kW</b>
<b>Voltage</b>	400 V	<b>Current</b>	16,2 A	<b>Frequency</b>	50,0		<b>Hz</b>
<b>Speed</b>	960 r/min	<b>Duty</b>	S1	<b>Connection</b>	Δ		
<b>Ins.class</b>	F	<b>Weight</b>	0 kg				IP55

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101,7	1,0	1,471	1,477	1,469	10,0	-20,5	111,0	10	5,75

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	Test Date	Report Number

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

**VALIADIS S.A.**

<b>Type</b>	K132M-6	<b>Poles</b>	6	<b>Power</b>	7,5	<b>kW</b>	Frame Reduced
<b>Voltage</b>	400 V	<b>Current</b>	16,2 A	<b>Frequency</b>	50,0	<b>Hz</b>	
<b>Speed</b>	960 r/min	<b>Duty</b>	S1	<b>Connection</b>	Δ		
<b>Ins.class</b>	F	<b>Weight</b>	0 kg		IP55		

**LOAD TEST**

V	Hz	I1	I2	I3	mul.	W1	W2	mul.	r/min	Temperature °C	Torqure N.m
400,1	50,01	3,942	3,975	3,947	5	592,4	1604,2	5	950,1	111,8	91,43
400,1	50,00	3,587	3,622	3,592	5	518,1	1458,4	5	956,1	112,2	82,84
400,1	50,00	3,273	3,308	3,276	5	445,4	1327,4	5	961,4	112,2	74,63
400,0	50,00	3,179	3,215	3,182	5	423,1	1288,3	5	963,2	111,9	72,06
400,1	50,00	2,626	2,663	2,624	5	270,5	1049,9	5	972,8	111,7	55,71
400,1	50,01	2,106	2,142	2,095	5	86,6	802,7	5	983,0	111,3	36,79
400,1	50,00	1,770	1,796	1,743	5	-103,6	587,7	5	991,4	111,0	18,40

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	11250	24,4	13837,7	1389,5	6,898	844,8	316,2	201,0	80,51	0,820
125,0	9375	20,3	11292,6	961,4	5,070	513,2	211,2	208,0	82,98	0,804
100,0	7500	16,3	8797,5	623,5	3,721	296,1	131,4	214,9	85,25	0,778
75,0	5625	13,1	6510,1	400,1	2,601	153,1	72,2	226,0	86,40	0,719
50,0	3750	10,5	4376,7	258,5	1,639	63,6	31,5	240,2	85,59	0,601
25,0	1875	8,8	2363,8	181,1	0,824	15,9	7,7	253,7	79,47	0,388

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**VALIADIS S.A.**

Type	K132M-6	Poles	6	output Power	7,5 kW
Voltage	400 V	Current	16,2 A	Frequency	50,0 Hz
Speed	960 r/min	Duty	S1	Connection	Δ
Ins.class	F	Weight	0 kg		IP55

Frame Reduced

## LOAD CURVE

