

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	0.37	KW	1360	RPM
AK71-4 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
69.5 EFFICIENCY	1.05	AMPS	55	IP	IC01	IC
4 POLE	S1	DUTY	0.73	PF	N/A	EFF2
VALIADIS MANUFACTURER		SERIAL NO.	F	INS. CLASS	Y	CONNECTION

MAJOR CONTENTS	UNIT	TESE VALUE
STATOR RESISTANCE OF PHASE TO PHASE	75 DEG.C	OHM 53.0981
NO LOAD CURRENT		AMP 0.85
NO LOAD INPUT		kW 0.0866
CORE LOSS (Pfe)		kW 0.023
WINDAGE FRICTION LOSS (Pfw)		kW 0.008
STATOR WINDING LOSS(Pcu1)		kW 0.0878
ROTOR WINDING LOSS(Pcu2)		kW 0.0397
STRAY LOAD LOSS (Ps)		kW 0.0026
FULL LOAD CURRENT		AMP 1.05
LOCKED ROTOR CURRENT		AMP 4.04
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 3.8
LOCKED ROTOR INPUT @ 100% VOLT		kW 2.14
FULL LOAD TORQUE		N.m. 2.59
LOCKED ROTOR TORQUE		N.m. 6.36
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.45
PULL OUT TORQUE		N.m. 7.07
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.73
PULL UP TORQUE		N.m. 3.33
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.28
EFFICIENCY @ FULL LOAD		% 69.59
POWER FACTOR @ FULL LOAD		0.728
FULL LOAD SLIP		9.47%
FULL LOAD SPEED		r/min 1358
STATOR WINDING TEMPERATURE RISE	30 SECS	K 60.6
DE BEARING TEMPERATURE BY PT100		Deg. C 29.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 27.0
TEMPERATURE ON LEADS BY PT100		Deg. C
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C
AMBIENT TEMPERATURE BY PT100		Deg. C
SOUND PRESSURE LEVEL		dB (A) 43.5
VIBRATION		mm/s 0.4
MOMENT OF INERTIA		kgm ² 0.00051
WEIGHT		kg 7

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

VALIADIS S.A.		SCALE	N/A		
		DATE		REV	
AK71 - 4 0.37 kW 400 VOLTS 50 Hz		DRAWN		DOCUMENT NO.	
		APPRVD			
		CHECKED			

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VALIADIS	MANUFACTURER		SERIAL NO.	F	INS. CLASS	Y	CONNECTION
TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	51.5	65.0	69.5	69.6	64.9	
PF	0.147	0.316	0.482	0.616	0.728	0.797	0.765
RPM	1500	1470	1436	1405	1358	1281	0
SLIP	0.00%	2.00%	4.27%	6.33%	9.47%	14.60%	100.00%
AMPS	0.85	0.81	0.87	0.93	1.05	1.31	4.04
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	0.59	1.26	1.87	2.59	3.50	6.36
KW INPUT	0.0866	0.1776	0.2905	0.3968	0.5299	0.7236	2.14
KW OUTPUT	0	0.091	0.189	0.276	0.369	0.470	
LOSSES (kW)		25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	
STATOR LOSS Pcu1		0.052	0.060	0.069	0.088	0.137	
STATOR LOSS %		29.42%	20.75%	17.36%	16.57%	6.39%	
ROTOR LOSS Pcu2		0.002	0.009	0.019	0.040	0.082	
ROTOR LOSS %		1.15%	3.04%	4.87%	7.49%	3.85%	
CORE LOSS Pfe		0.023	0.023	0.023	0.023	0.023	
CORE LOSS %		12.95%	7.92%	5.80%	4.34%	1.07%	
WINDGE/FRICTION Pfw		0.008	0.008	0.008	0.008	0.008	
WINDGE/FRICTION %		4.50%	2.75%	2.02%	1.51%	0.37%	
STRAY LOAD LOSS Ps		0.001	0.001	0.002	0.003	0.004	
STRAY LOAD LOSS %		0.50%	0.50%	0.50%	0.50%	0.50%	
Losses are measured/calculated as per IEC 34-2-The Summation of Losses Method							
All data is measured at Nominal Volts							
TEMPERATURES							
STATOR RESISTANCE COLD		44.02 OHMS @		22.0	DEG.C.		BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED		53.0981 OHMS @		75	DEG.C.		BETWEEN STATOR LEADS
STATOR RESISTANCE HOT		54.4 OHMS		after test of temp rise			BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE		60.6 DEG.C.		at full load steady state at		30 SECS	
WINDING TEMPERATURE RISE		DEG.C.		at full load steady state at		0 SECS	
PT100 TEMPERATURE OF DE WINDING		DEG.C.		at full load steady state at ambient		DEG.C.	
PT100 TEMPERATURE OF NDE WINDING		DEG.C.		at full load steady state at ambient		DEG.C.	
PT100 TEMPERATURE OF DE BEARING		29.0 DEG.C.		at full load steady state at ambient		22.0 DEG.C.	
PT100 TEMPERATURE OF NDE BEARING		27.0 DEG.C.		at full load steady state at ambient		22.0 DEG.C.	
PT100 TEMPERATURE OF IN TERMINAL BOX		DEG.C.		at full load steady state at ambient		DEG.C.	
PT100 TEMPERATURE OF ON STATOR LEAD		DEG.C.		at full load steady state at ambient		DEG.C.	
OTHER							
NOISE LEVEL (Lp)	43.5	dB(A) 1meter		INSULATION RESISTANCE	500	MEG.OHMS	
VIBRATION LEVEL	0.4	mm/sec on no load		D.E. BEARING			
WEIGHT	7	kg		N.D.E. BEARING			
H-POT TEST VOLTS	1800	VOLTS					
VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
				DRAWN		DOCUMENT NO.	
				APPRVD			
AK71 - 4				CHECKED			
0.37 kW							
400 VOLTS 50 Hz							

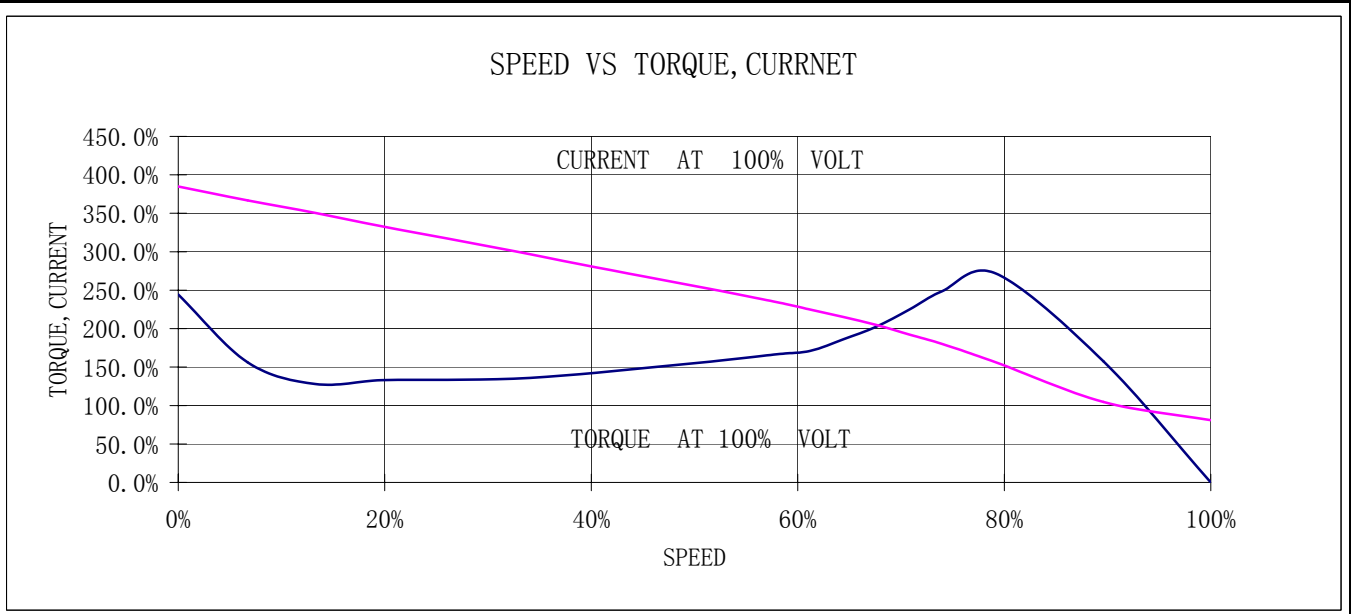
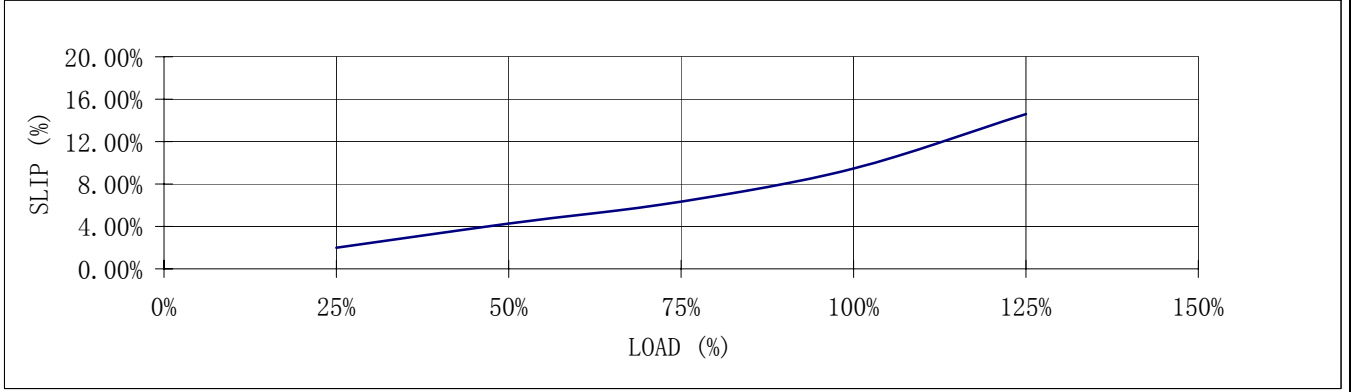
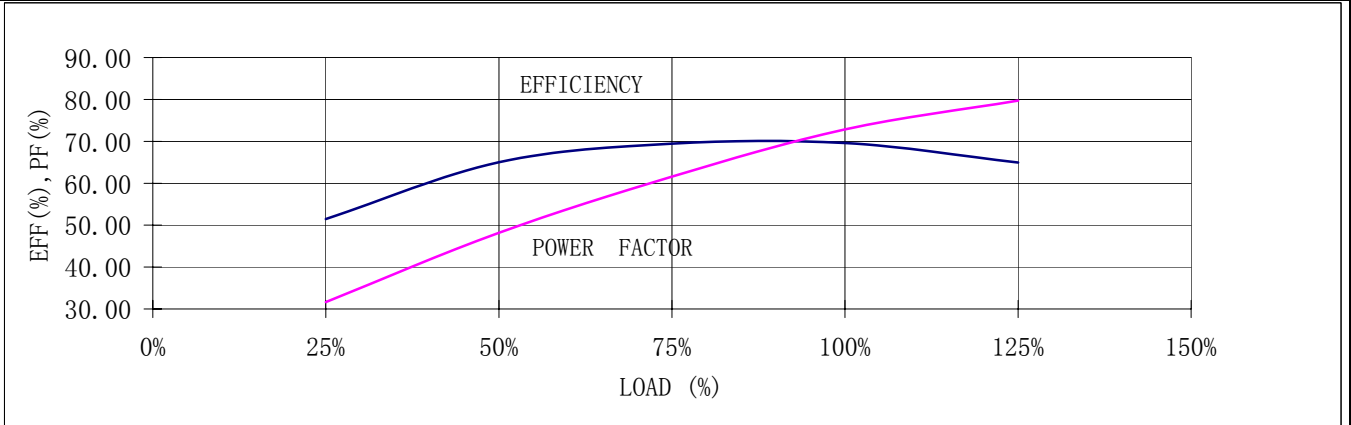
RESULT SUMMARY

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LOAD TEST

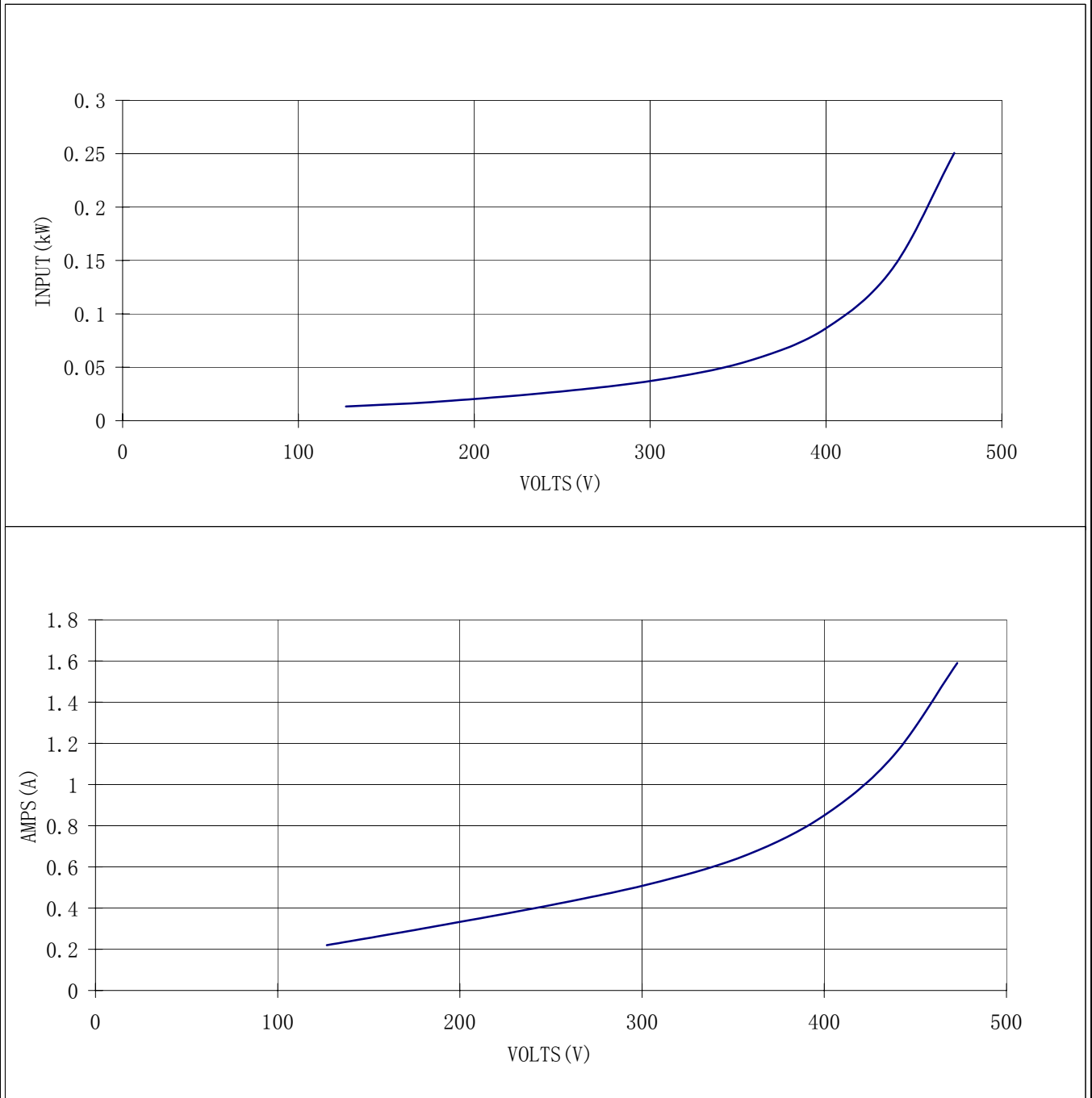


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