

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	0.55	KW	2820	RPM
AK71 - 2 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
76.0 EFFICIENCY	1.37	AMPS	55	IP	IC01	IC
2 POLE	S1	DUTY	0.76	PF	N/A	EFF2
VALIADIS MANUFACTURER		SERIAL NO.	F	INS. CLASS	Y	CONNECTION

MAJOR CONTENTS		UNIT	TEST VALUE	
STATOR RESISTANCE OF PHASE TO PHASE	75	DEG.C	OHM	30.9662
NO LOAD CURRENT			AMP	1.11
NO LOAD INPUT			kW	0.0977
CORE LOSS (Pfe)			kW	0.04
WINDAGE FRICTION LOSS (Pfw)			kW	0.007
STATOR WINDING LOSS(Pcu1)			kW	0.0872
ROTOR WINDING LOSS(Pcu2)			kW	0.0357
STRAY LOAD LOSS (Ps)			kW	0.0036
FULL LOAD CURRENT			AMP	1.37
LOCKED ROTOR CURRENT			AMP	8.08
LOCKED ROTOR CURRENT/FULL LOAD CURRENT			P.U.	5.9
LOCKED ROTOR INPUT @ 100% VOLT			kW	4.924
FULL LOAD TORQUE			N.m.	1.86
LOCKED ROTOR TORQUE			N.m.	3.22
LOCKED ROTOR TORQUE/FULL LOAD TORQUE			P.U.	1.73
PULL OUT TORQUE			N.m.	6.84
PULL OUT TORQUE/FULL LOAD TORQUE			P.U.	3.68
PULL UP TORQUE			N.m.	3.69
PULL UP TORQUE/FULL LOAD TORQUE			P.U.	1.98
EFFICIENCY @ FULL LOAD			%	75.99
POWER FACTOR @ FULL LOAD				0.761
FULL LOAD SLIP				6.00%
FULL LOAD SPEED			r/min	2820
STATOR WINDING TEMPERATURE RISE	30	SECS	K	69.7
DE BEARING TEMPERATURE BY PT100			Deg. C	30.0
NDE BEARING TEMPERATURE BY PT100			Deg. C	25.0
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)	52.9
VIBRATION			mm/s	0.9
MOMENT OF INERTIA			kgm ²	0.00035
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 - 2 0.55 kW 400 VOLTS 50 Hz				DRAWN		DOCUMENT NO.	
				APPRVD			
				CHECKED			

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TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	56.4	70.2	74.9	76.0	75.0	
PF	0.127	0.320	0.498	0.649	0.761	0.835	0.880
RPM	3000	2962	2918	2872	2820	2759	0
SLIP	0.00%	1.27%	2.73%	4.27%	6.00%	8.03%	100.00%
AMPS	1.11	1.09	1.13	1.22	1.37	1.59	8.08
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	0.44	0.90	1.37	1.86	2.39	3.22
KW INPUT	0.0977	0.2415	0.3899	0.5482	0.7227	0.9197	4.924
KW OUTPUT	0	0.136	0.274	0.411	0.549	0.689	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.055	0.059	0.069	0.087	0.117
STATOR LOSS %	22.85%	15.21%	12.61%	12.06%	2.38%
ROTOR LOSS Pcu2	0.002	0.008	0.019	0.036	0.061
ROTOR LOSS %	0.77%	2.04%	3.42%	4.94%	1.24%
CORE LOSS Pfe	0.04	0.04	0.04	0.04	0.04
CORE LOSS %	16.56%	10.26%	7.30%	5.53%	0.81%
WINDGE/FRICTION Pfw	0.007	0.007	0.007	0.007	0.007
WINDGE/FRICTION %	2.90%	1.80%	1.28%	0.97%	0.14%
STRAY LOAD LOSS Ps	0.001	0.002	0.003	0.004	0.005
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	24.4733 OHMS @	10.0	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	30.9662 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	31.44 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	69.7 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	30.0 DEG.C.	at full load steady state at ambient		10.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	25.0 DEG.C.	at full load steady state at ambient		10.0 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)	52.9	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.9	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	
AK71 - 2				DRAWN		DOCUMENT NO.	
0.55	kW			APPRVD			
400	VOLTS	50	Hz	CHECKED			

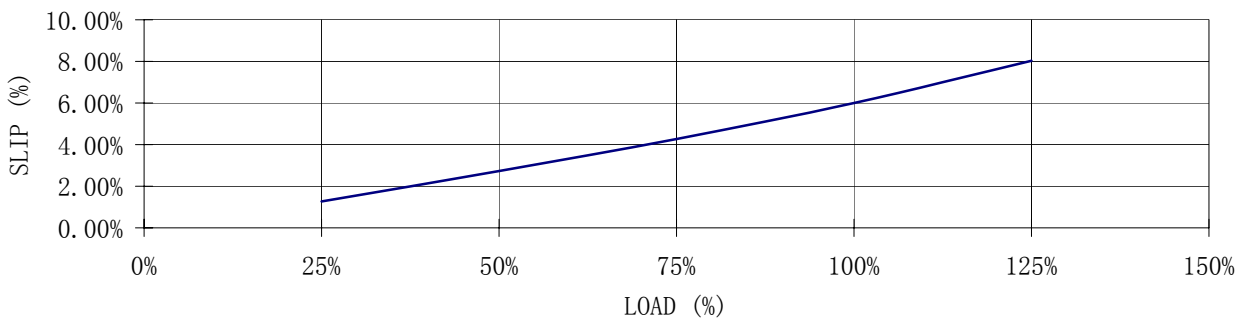
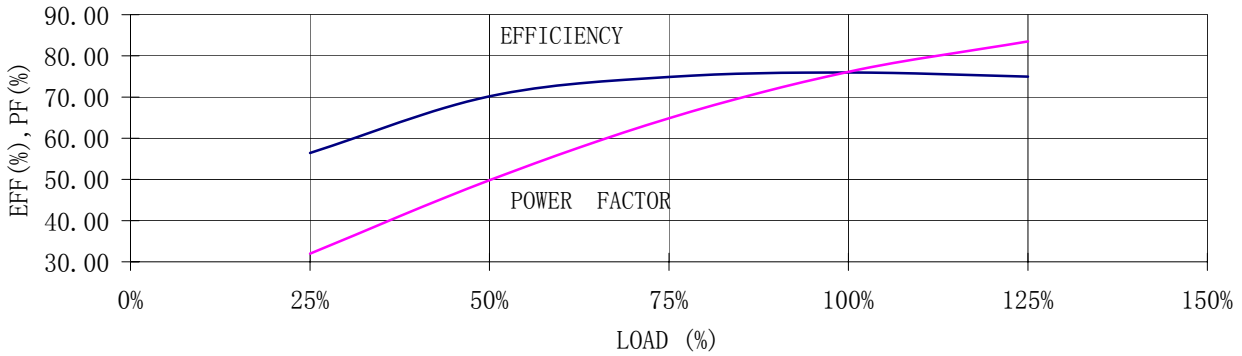
RESULT SUMMARY

VALIADIS S.A.

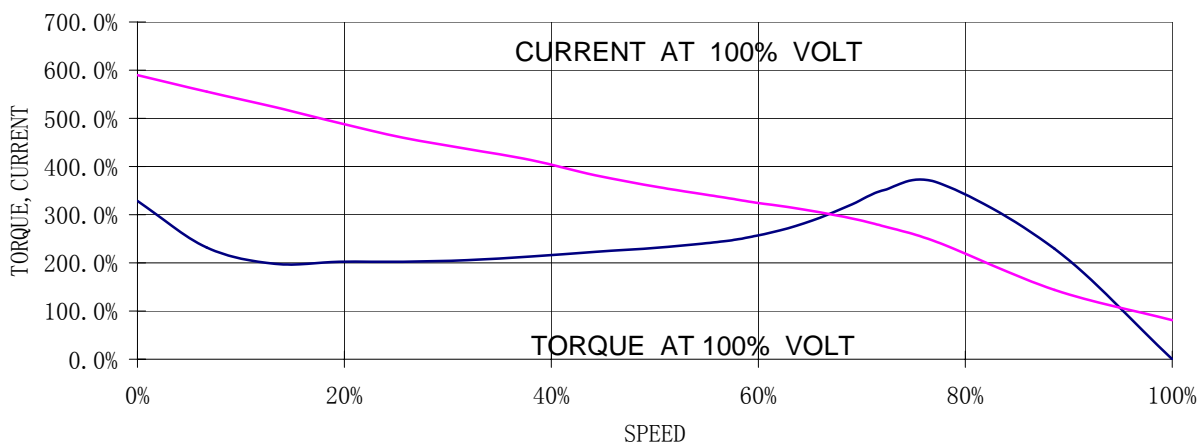
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LOAD TEST



SPEED VS TORQUE, CURRENT



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	DATE		REV
	AK71 - 2	DRAWN	DOCUMENT NO.
	0.55 kW	APPRVD	
400 VOLTS 50 Hz	CHECKED		

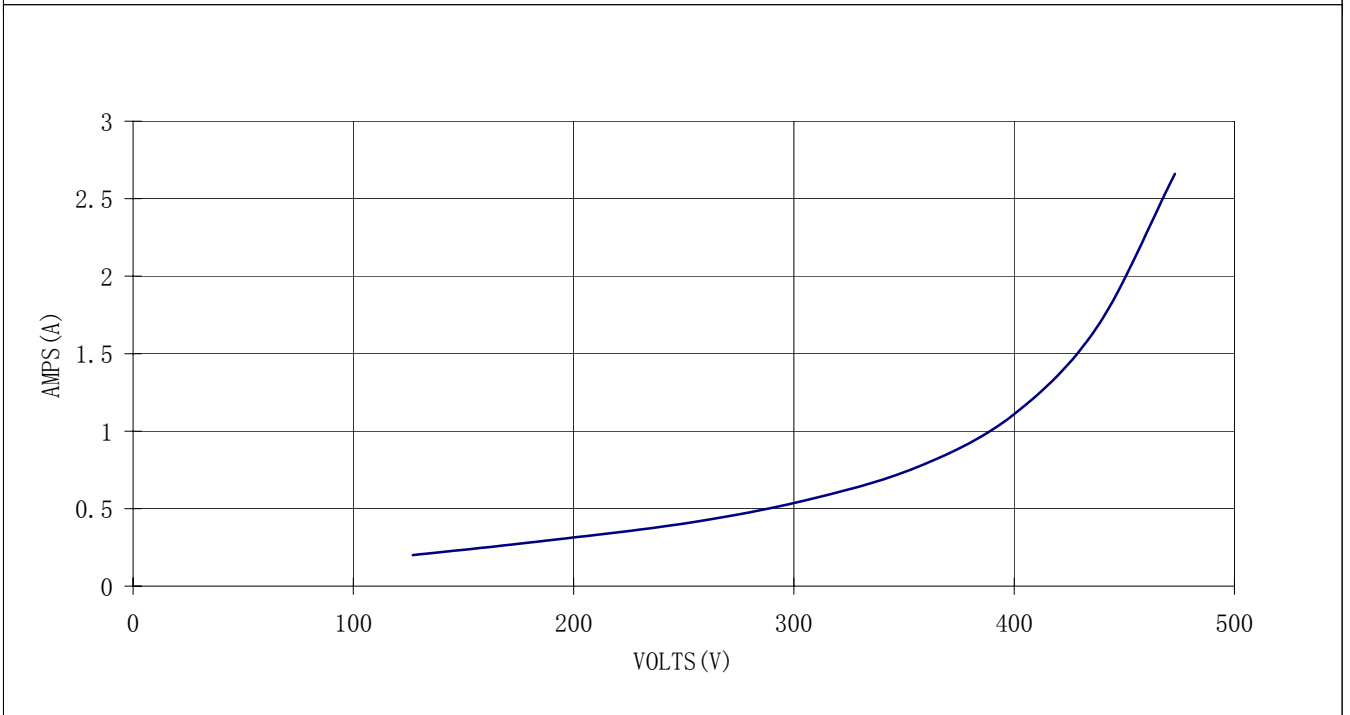
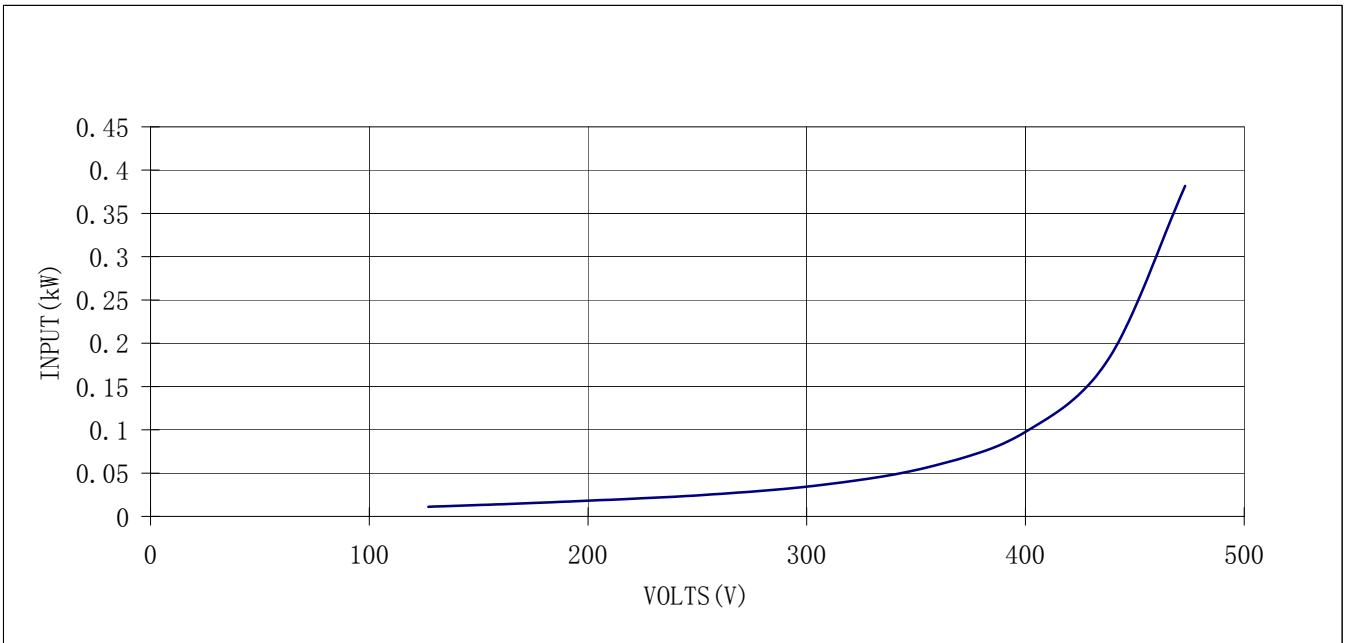
CURVE

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CURVE