

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	0.37	KW	2760	RPM
AK71 - 2	FRAME	3	PHASE	400	VOLTS	50
72.5	EFFICIENCY	0.91	AMPS	55	IP	IC01
2	POLE	S1	DUTY	0.81	PF	N/A
VALIADIS	MANUFACTURER	SERIAL NO.	F	INS. CLASS	Y	CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	75 DEG.C	OHM 61.1586
NO LOAD CURRENT		AMP 0.67
NO LOAD INPUT		kW 0.0709
CORE LOSS (Pfe)		kW 0.024
WINDAGE FRICTION LOSS (Pfw)		kW 0.006
STATOR WINDING LOSS(Pcu1)		kW 0.0743
ROTOR WINDING LOSS(Pcu2)		kW 0.0328
STRAY LOAD LOSS (Ps)		kW 0.0025
FULL LOAD CURRENT		AMP 0.9
LOCKED ROTOR CURRENT		AMP 4.39
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 4.9
LOCKED ROTOR INPUT @ 100% VOLT		kW 2.68
FULL LOAD TORQUE		N.m. 1.28
LOCKED ROTOR TORQUE		N.m. 3.22
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.52
PULL OUT TORQUE		N.m. 6.83
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 5.34
PULL UP TORQUE		N.m. 4.06
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 3.17
EFFICIENCY @ FULL LOAD		% 72.60
POWER FACTOR @ FULL LOAD		0.817
FULL LOAD SLIP		7.97%
FULL LOAD SPEED		r/min 2761
STATOR WINDING TEMPERATURE RISE	30 SECS	K 61.3
DE BEARING TEMPERATURE BY PT100		Deg. C 35.5
NDE BEARING TEMPERATURE BY PT100		Deg. C 33.5
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) 51.6
VIBRATION		mm/s 0.7
MOMENT OF INERTIA		kgm² 0.0003
WEIGHT		kg 6.5

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 0.37 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	55.5	68.7	72.6	72.6	68.1	
PF	0.153	0.360	0.561	0.707	0.817	0.876	0.881
RPM	3000	2933	2876	2831	2761	2631	0
SLIP	0.00%	2.23%	4.13%	5.63%	7.97%	12.30%	100.00%
AMPS	0.67	0.67	0.72	0.78	0.9	1.15	4.39
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	0.30	0.64	0.94	1.28	1.72	3.22
KW INPUT	0.0709	0.1671	0.2798	0.3821	0.5095	0.6976	2.68
KW OUTPUT	0	0.093	0.192	0.277	0.370	0.475	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.041	0.048	0.056	0.074	0.121
STATOR LOSS %	24.64%	17.00%	14.61%	14.58%	4.53%
ROTOR LOSS Pcu2	0.002	0.009	0.017	0.033	0.068
ROTOR LOSS %	1.36%	3.08%	4.46%	6.43%	2.53%
CORE LOSS Pfe	0.024	0.024	0.024	0.024	0.024
CORE LOSS %	14.36%	8.58%	6.28%	4.71%	0.90%
WINDGE/FRICTION Pfw	0.006	0.006	0.006	0.006	0.006
WINDGE/FRICTION %	3.59%	2.14%	1.57%	1.18%	0.22%
STRAY LOAD LOSS Ps	0.001	0.001	0.002	0.003	0.003
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	49.9133 OHMS @	18.0	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	61.1586 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	62.4 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	61.3 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	35.5 DEG.C.	at full load steady state at ambient		20.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	33.5 DEG.C.	at full load steady state at ambient		20.0 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)	51.6	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.7	mm/sec on no load	D.E. BEARING		
WEIGHT	6.5	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

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			DATE		REV
AK71 - 2			DRAWN		DOCUMENT NO.
			APPRVD		
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0.37	400	VOLTS	50	Hz	

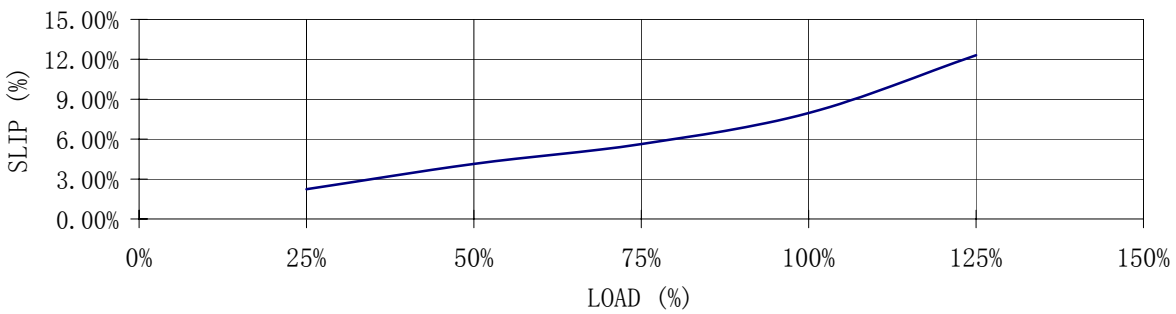
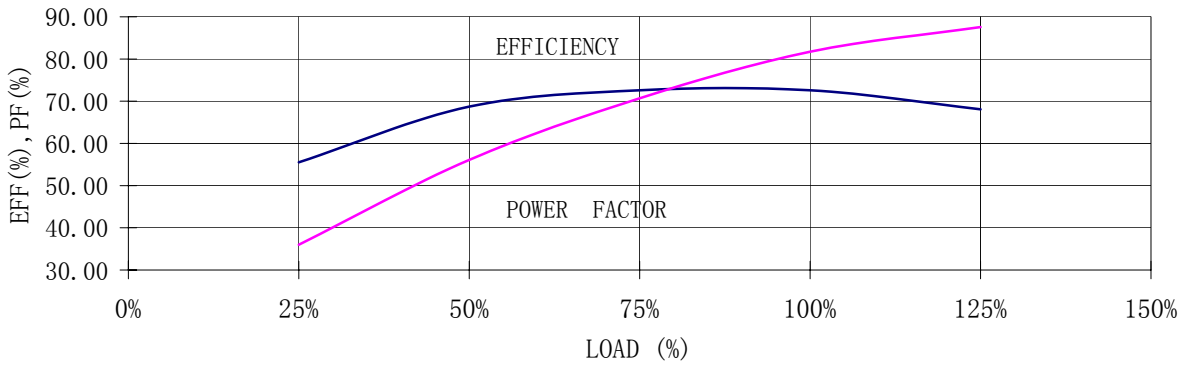
RESULT SUMMARY

VALIADIS S.A.

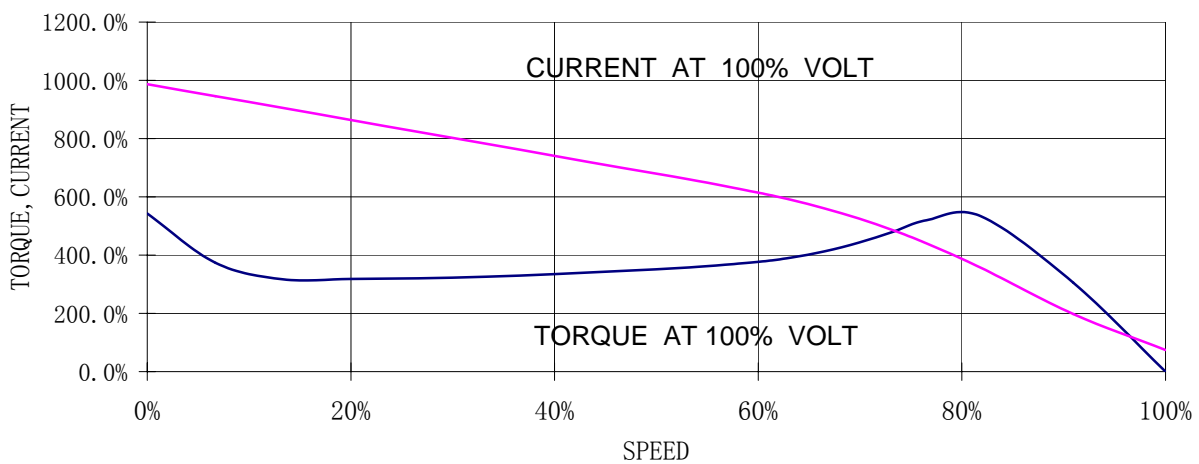
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LOAD TEST



SPEED VS TORQUE, CURRENT



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		DATE		REV
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	0.37 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

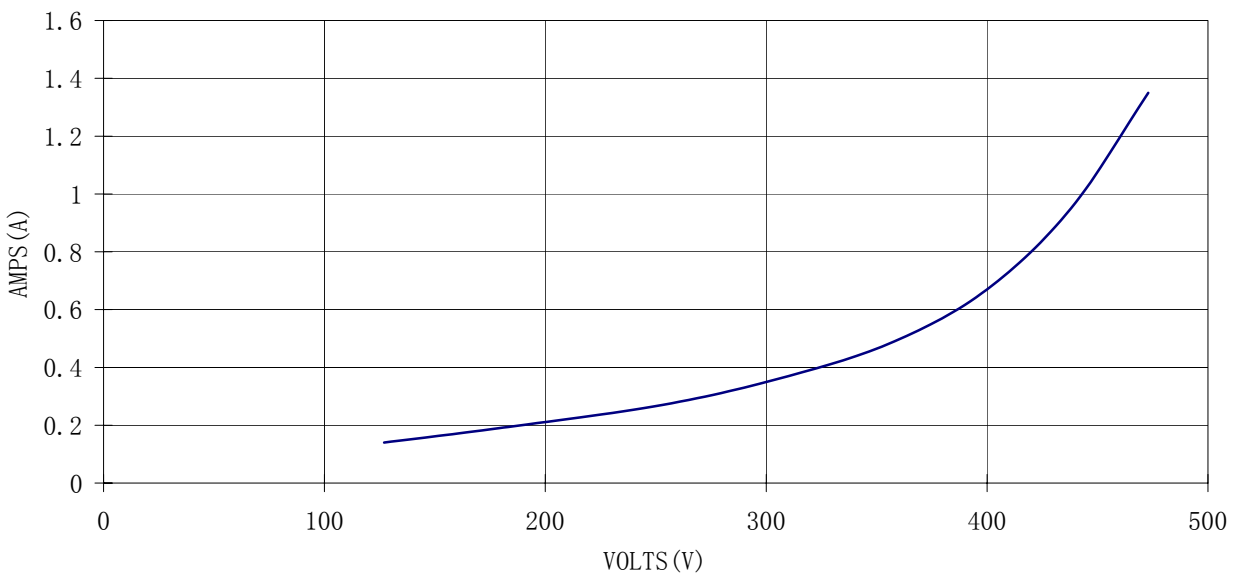
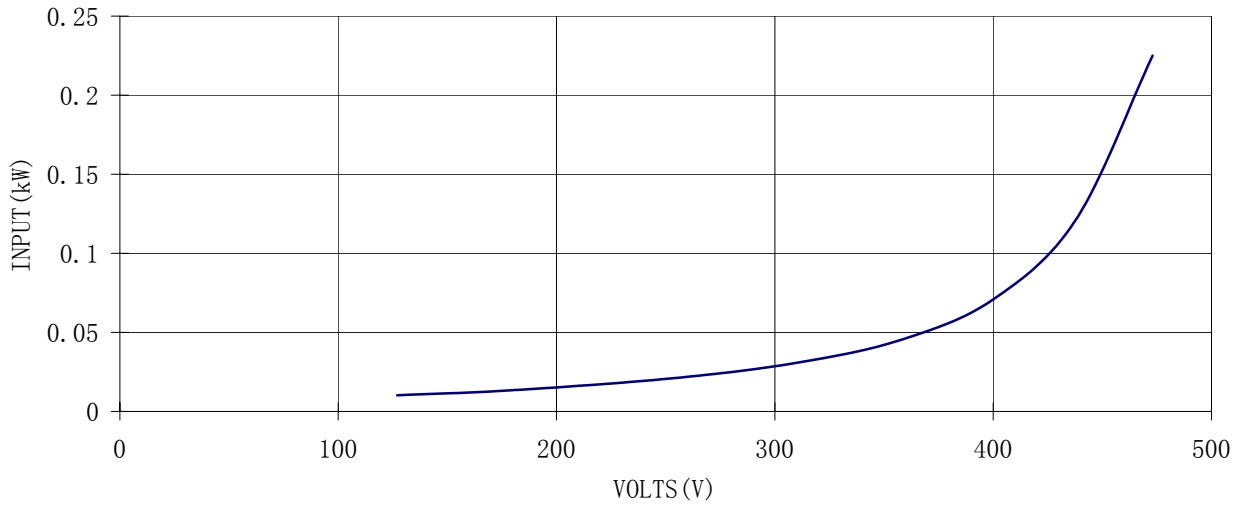
CURVE

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CURVE