

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	0.75	KW	700	RPM
AK100L-8 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
67.0 EFFICIENCY	2.45	AMPS	54	IP	IC01	IC
8 POLE	S1	DUTY	0.66	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 21.5544
NO LOAD CURRENT		AMP 2.21
NO LOAD INPUT		kW 0.2657
CORE LOSS (Pfe)		kW 0.11
WINDAGE FRICTION LOSS (Pfw)		kW 0.004
STATOR WINDING LOSS(Pcu1)		kW 0.1941
ROTOR WINDING LOSS(Pcu2)		kW 0.0565
STRAY LOAD LOSS (Ps)		kW 0.0056
FULL LOAD CURRENT		AMP 2.45
LOCKED ROTOR CURRENT		AMP 9.56
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 3.9
LOCKED ROTOR INPUT @ 100% VOLT		kW 4.426
FULL LOAD TORQUE		N.m. 10.25
LOCKED ROTOR TORQUE		N.m. 24.01
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.34
PULL OUT TORQUE		N.m. 29.56
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.88
PULL UP TORQUE		N.m. 16.55
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.61
EFFICIENCY @ FULL LOAD		% 66.93
POWER FACTOR @ FULL LOAD		0.659
FULL LOAD SLIP		6.93%
FULL LOAD SPEED		r/min 698
STATOR WINDING TEMPERATURE RISE	30 SECS	K 52.1
DE BEARING TEMPERATURE BY PT100		Deg. C 67.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 67.0
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) 61.3
VIBRATION		mm/s 0.6
MOMENT OF INERTIA		kgm ²
WEIGHT		kg

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

VALIADIS S.A.	SCALE	N/A		
	DATE		REV	
AK100L-8	DRAWN		DOCUMENT NO.	
0.75 kW	APPRVD			
400 VOLTS 50 Hz	CHECKED			

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TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	39.6	55.6	63.4	66.9	67.9	
PF	0.174	0.301	0.428	0.550	0.659	0.745	0.668
RPM	750	738	723	711	698	685	0
SLIP	0.00%	1.60%	3.60%	5.20%	6.93%	8.67%	100.00%
AMPS	2.21	2.25	2.27	2.32	2.45	2.7	9.56
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	2.40	4.94	7.53	10.25	13.19	24.01
KW INPUT	0.2657	0.4687	0.6724	0.884	1.1193	1.3938	4.426
KW OUTPUT	0	0.186	0.374	0.560	0.749	0.946	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.164	0.167	0.174	0.194	0.236
STATOR LOSS %	34.92%	24.78%	19.69%	17.34%	5.33%
ROTOR LOSS Pcu2	0.003	0.014	0.031	0.057	0.091
ROTOR LOSS %	0.67%	2.12%	3.53%	5.05%	2.05%
CORE LOSS Pfe	0.11	0.11	0.11	0.11	0.11
CORE LOSS %	23.47%	16.36%	12.44%	9.83%	2.49%
WINDGE/FRICTION Pfw	0.004	0.004	0.004	0.004	0.004
WINDGE/FRICTION %	0.85%	0.59%	0.45%	0.36%	0.09%
STRAY LOAD LOSS Ps	0.002	0.003	0.004	0.006	0.007
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	17.86933 OHMS @	22.0 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	21.5544 OHMS @	75 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	21.56 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	52.1 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	67.0 DEG.C.	at full load steady state at ambient	23.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	67.0 DEG.C.	at full load steady state at ambient	23.0 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)	61.3	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.6	mm/sec on no load	D.E. BEARING		
WEIGHT		kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.		SCALE	N/A	
		DATE		REV
AK100L- 8		DRAWN		DOCUMENT NO.
		APPRVD		
		CHECKED		
0.75	kW			
400	VOLTS	50	Hz	

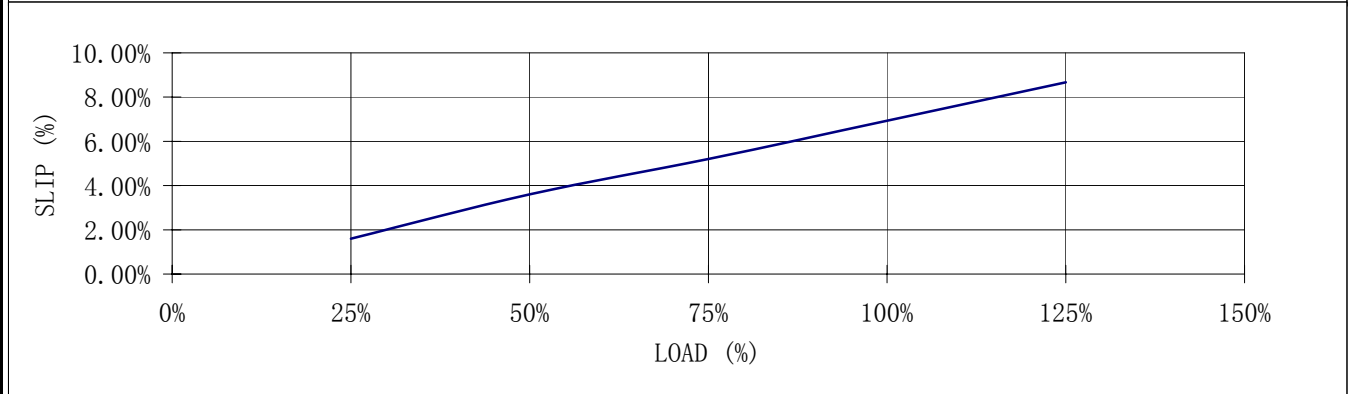
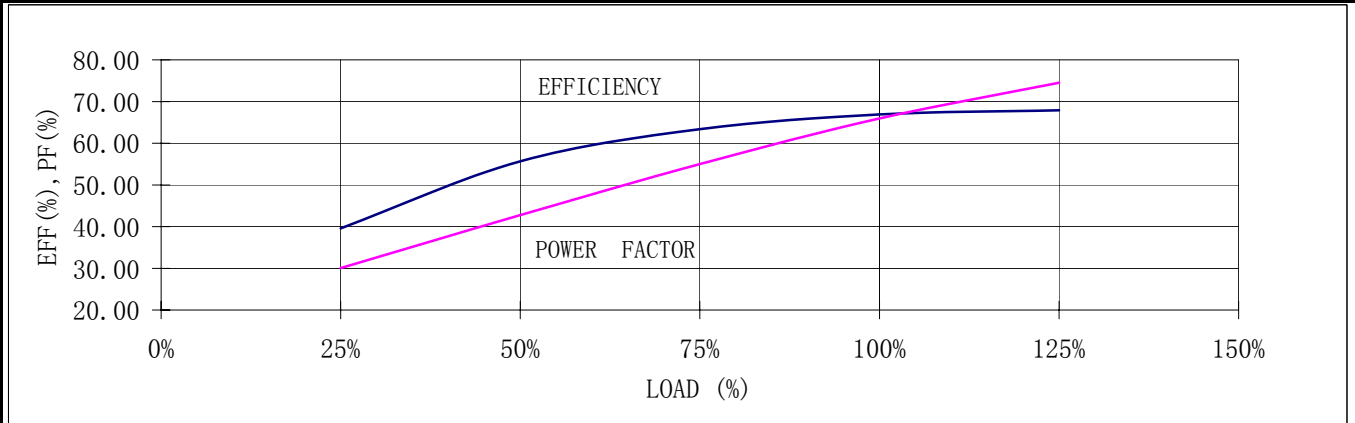
RESULT SUMMARY

VALIADIS S.A.

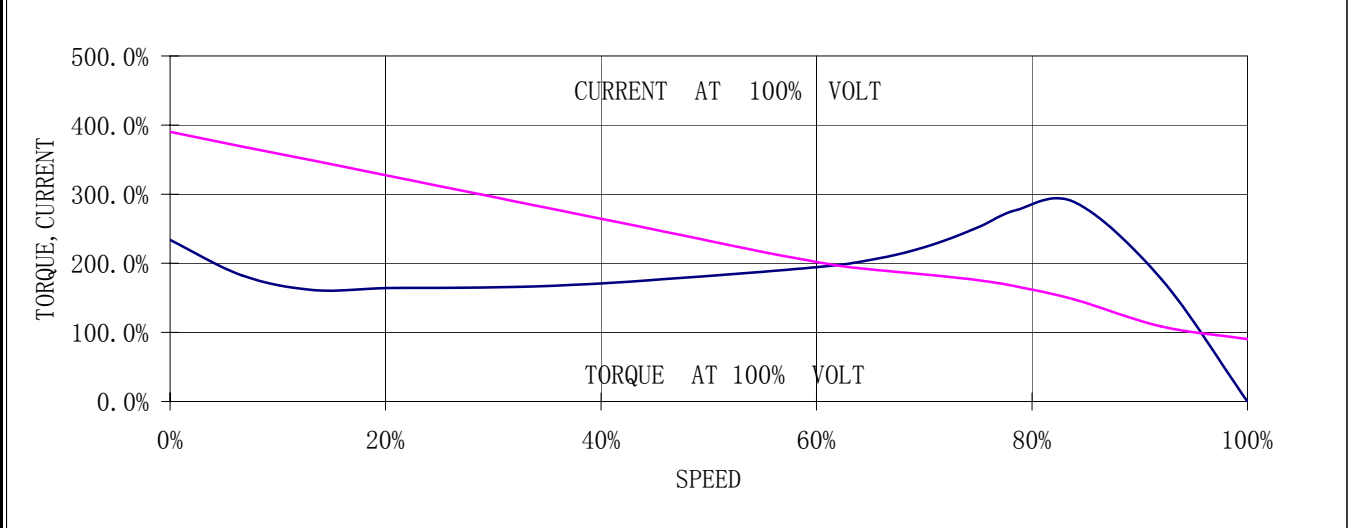
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LOAD TEST



SPEED VS TORQUE, CURRENT



	VALIADIS S.A.	SCALE	N/A	
		DATE		REV
	AK100L-8	DRAWN		DOCUMENT NO.
	0.75 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

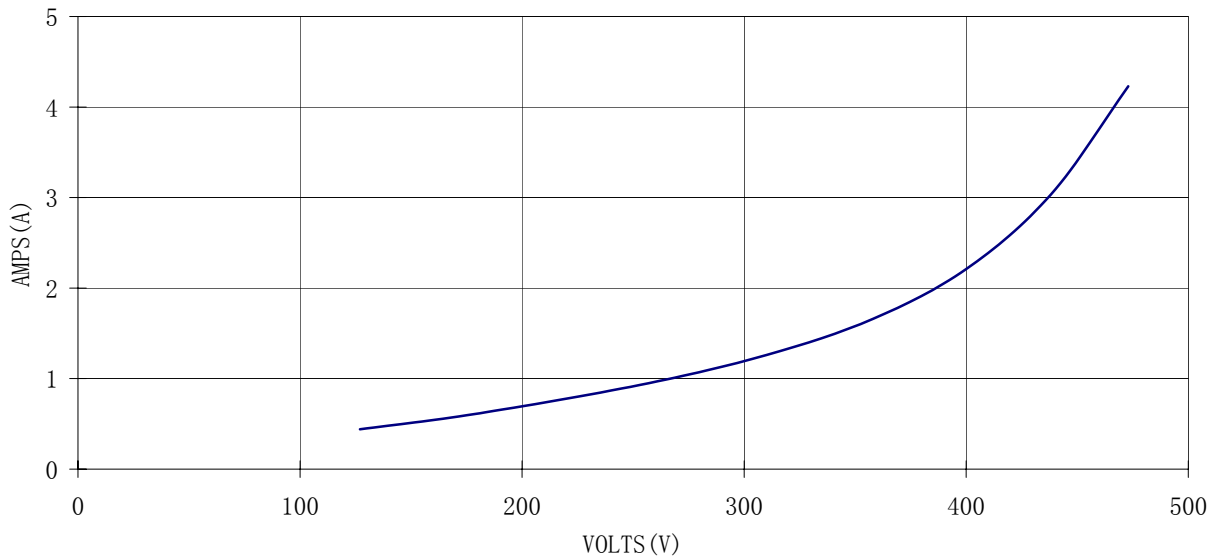
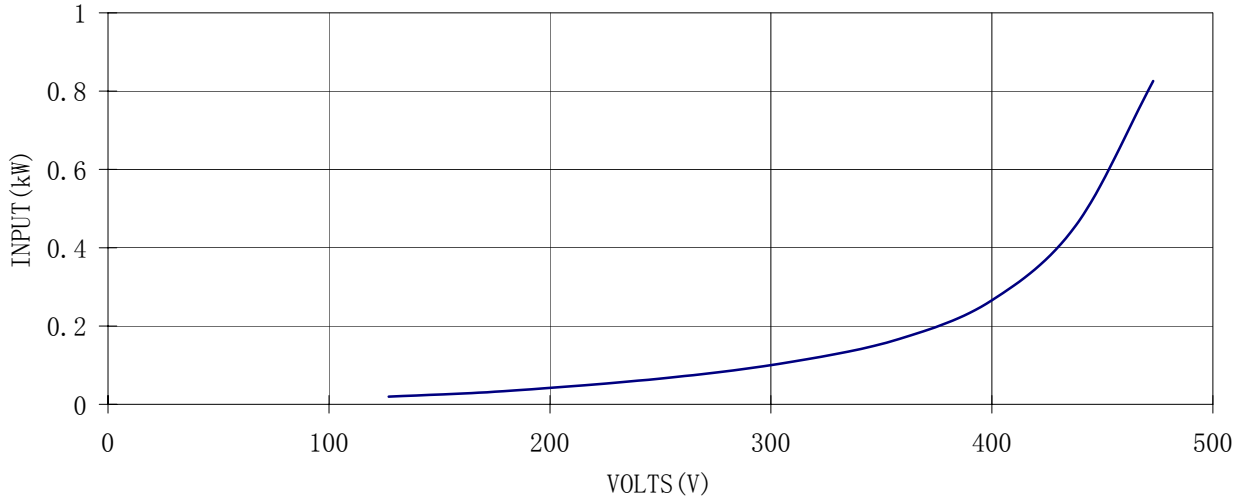
CURVE

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				DATE		REV
	AK100L-8			DRAWN		DOCUMENT NO.
	0.75	kW		APPRVD		
400	VOLTS	50	CHECKED			

CURVE