

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	1.5	KW	935	RPM
AK100L - 6 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
75.0 EFFICIENCY	4.07	AMPS	55	IP	IC01	IC
6 POLE	S1	DUTY	0.71	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 9.9159
NO LOAD CURRENT		AMP 3.27
NO LOAD INPUT		kW 0.3082
CORE LOSS (Pfe)		kW 0.133
WINDAGE FRICTION LOSS (Pfw)		kW 0.012
STATOR WINDING LOSS(Pcu1)		kW 0.2464
ROTOR WINDING LOSS(Pcu2)		kW 0.1041
STRAY LOAD LOSS (Ps)		kW 0.0100
FULL LOAD CURRENT		AMP 4.07
LOCKED ROTOR CURRENT		AMP 20.76
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 5.1
LOCKED ROTOR INPUT @ 100% VOLT		kW 9.905
FULL LOAD TORQUE		N.m. 15.31
LOCKED ROTOR TORQUE		N.m. 39.74
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.60
PULL OUT TORQUE		N.m. 46.11
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 3.01
PULL UP TORQUE		N.m. 27.14
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.77
EFFICIENCY @ FULL LOAD		% 74.80
POWER FACTOR @ FULL LOAD		0.711
FULL LOAD SLIP		6.40%
FULL LOAD SPEED		r/min 936
STATOR WINDING TEMPERATURE RISE	30 SECS	K 64.9
DE BEARING TEMPERATURE BY PT100		Deg. C 65.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 65.0
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) 46.6
VIBRATION		mm/s 1.0
MOMENT OF INERTIA		kgm ² 0.0069
WEIGHT		kg 23

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

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK100L - 6 1.5 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	53.9	69.0	73.8	74.8	73.5	
PF	0.136	0.298	0.471	0.610	0.711	0.786	0.689
RPM	1000	988	972	955	936	909	0
SLIP	0.00%	1.20%	2.80%	4.50%	6.40%	9.10%	100.00%
AMPS	3.27	3.19	3.26	3.56	4.07	4.75	20.76
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	3.43	7.21	11.11	15.31	19.95	39.74
KW INPUT	0.3082	0.6595	1.0637	1.5057	2.006	2.5855	9.905
KW OUTPUT	0	0.355	0.734	1.111	1.500	1.899	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.151	0.158	0.189	0.246	0.336
STATOR LOSS %	22.95%	14.86%	12.52%	12.28%	3.39%
ROTOR LOSS Pcu2	0.005	0.022	0.053	0.104	0.193
ROTOR LOSS %	0.68%	2.03%	3.54%	5.19%	1.94%
CORE LOSS Pfe	0.133	0.133	0.133	0.133	0.133
CORE LOSS %	20.17%	12.50%	8.83%	6.63%	1.34%
WINDGE/FRICTION Pfw	0.012	0.012	0.012	0.012	0.012
WINDGE/FRICTION %	1.82%	1.13%	0.80%	0.60%	0.12%
STRAY LOAD LOSS Ps	0.003	0.005	0.008	0.010	0.013
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	7.99667 OHMS @	15.0	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	9.9159 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	9.96 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	64.9 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	65.0 DEG.C.	at full load steady state at ambient		11.5 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	65.0 DEG.C.	at full load steady state at ambient		11.5 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)	46.6	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	1.0	mm/sec on no load	D.E. BEARING		
WEIGHT	23	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK100L - 6				DRAWN		DOCUMENT NO.	
1.5		kW		APPRVD			
400	VOLTS	50	Hz	CHECKED			

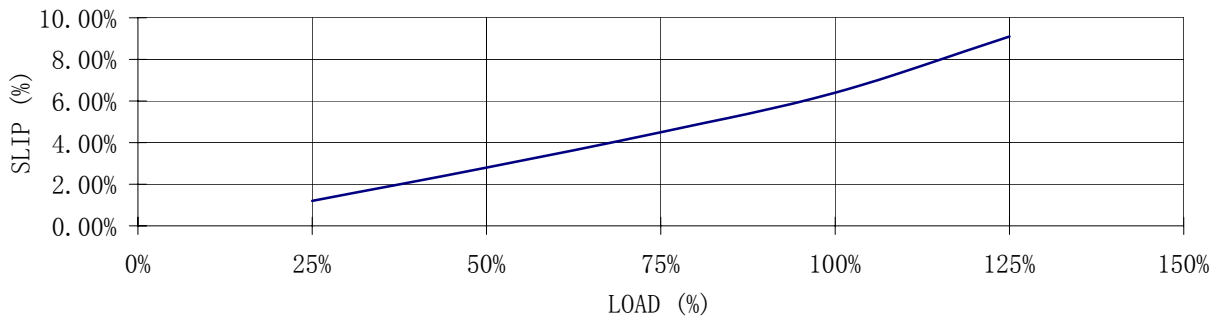
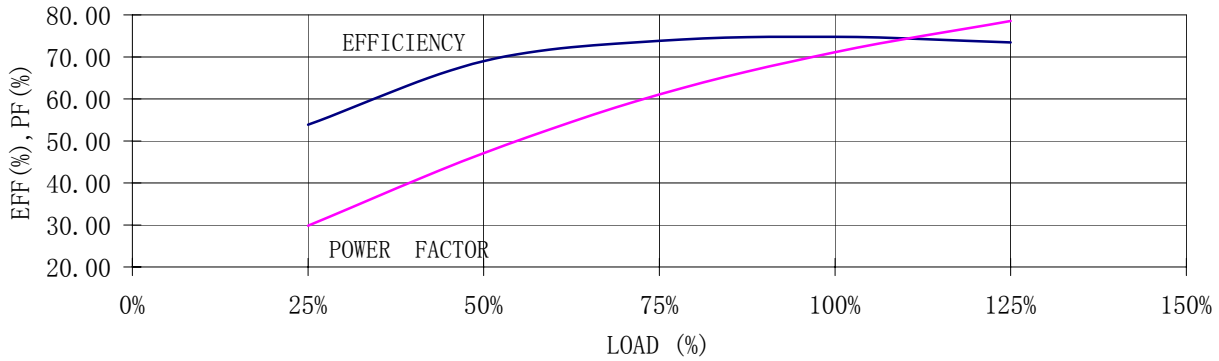
RESULT SUMMARY

VALIADIS S.A.

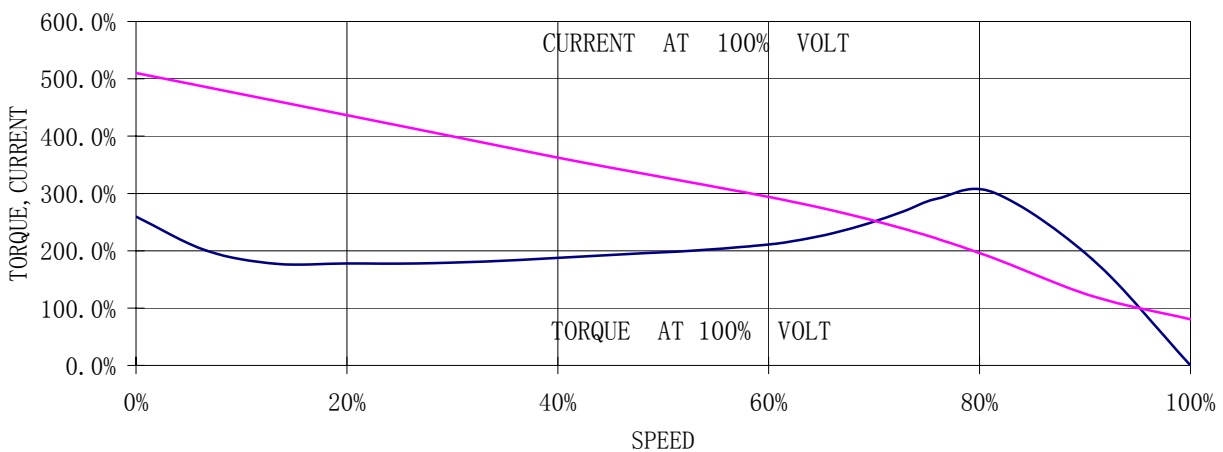
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LOAD TEST



SPEED VS TORQUE, CURRENT



VALIADIS S.A. AK100L-6 1.5 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE		REV
	DRAWN		DOCUMENT NO.
	APPRVD		
	CHECKED		

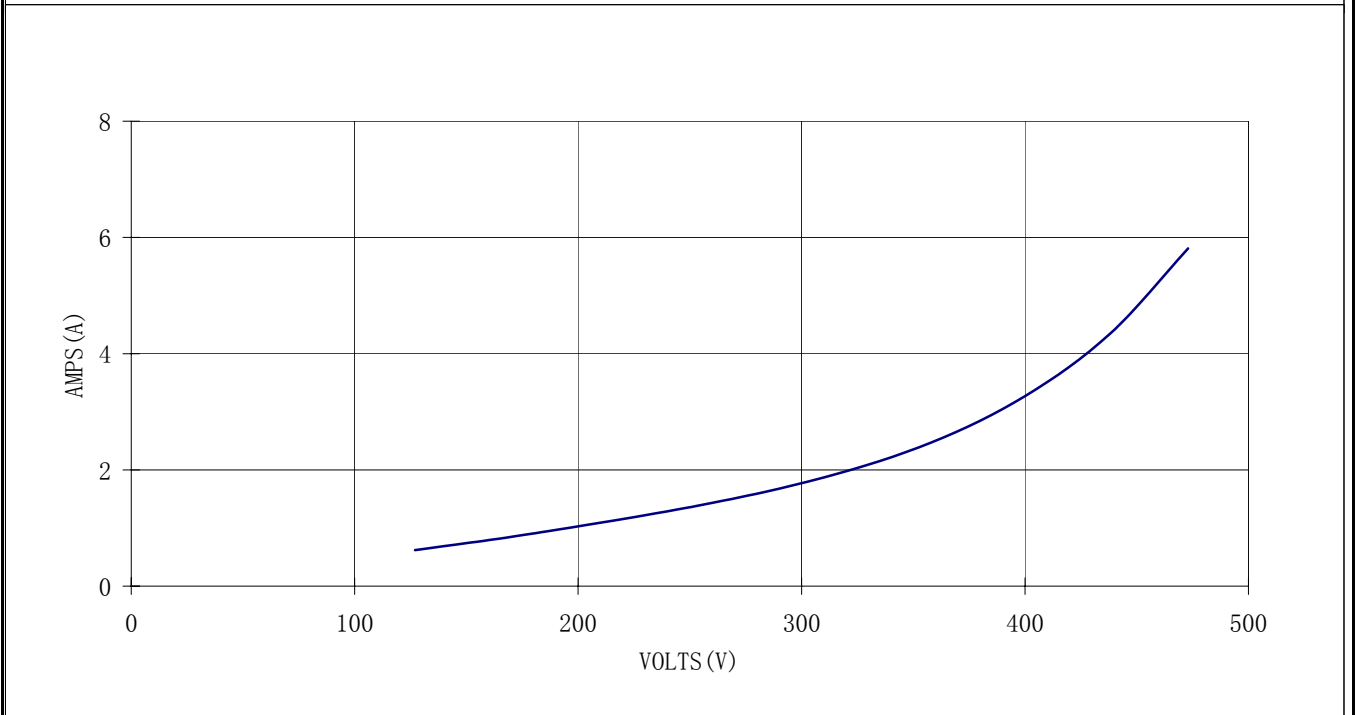
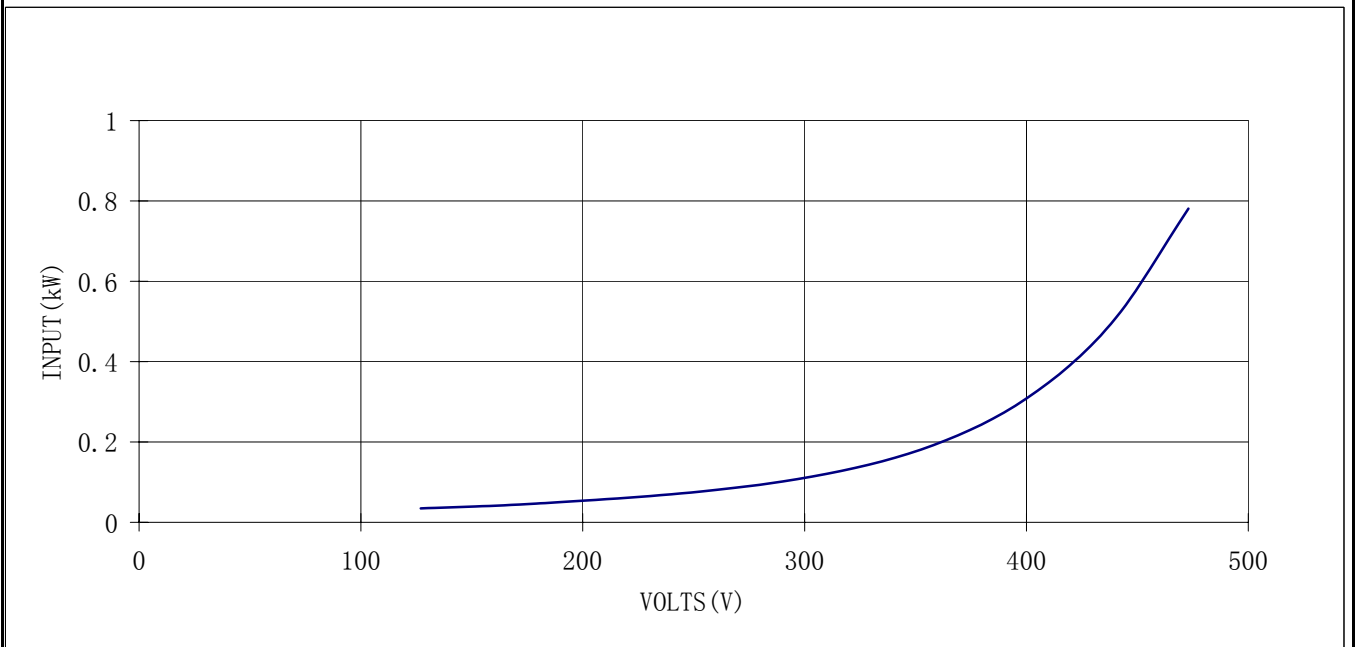
CURVE

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	AK100L - 6			DRAWN		DOCUMENT NO.
	1.5	kW		APPRVD		
400	VOLTS	50	CHECKED			

CURVE