

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	2.2	KW	1430	RPM
AK100L-4 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
81.0 EFFICIENCY	4.84	AMPS	55	IP	IC01	IC
4 POLE	S1	DUTY	0.81	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 7.0070
NO LOAD CURRENT		AMP 2.74
NO LOAD INPUT		kW 0.2131
CORE LOSS (Pfe)		kW 0.132
WINDAGE FRICTION LOSS (Pfw)		kW 0.014
STATOR WINDING LOSS(Pcu1)		kW 0.2422
ROTOR WINDING LOSS(Pcu2)		kW 0.1058
STRAY LOAD LOSS (Ps)		kW 0.0135
FULL LOAD CURRENT		AMP 4.80
LOCKED ROTOR CURRENT		AMP 29.94
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 6.2
LOCKED ROTOR INPUT @ 100% VOLT		kW 13.643
FULL LOAD TORQUE		N.m. 14.67
LOCKED ROTOR TORQUE		N.m. 33.89
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.31
PULL OUT TORQUE		N.m. 45.64
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 3.11
PULL UP TORQUE		N.m. 24.32
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.66
EFFICIENCY @ FULL LOAD		% 81.26
POWER FACTOR @ FULL LOAD		0.814
FULL LOAD SLIP		4.53%
FULL LOAD SPEED		r/min 1432
STATOR WINDING TEMPERATURE RISE	30 SECS	K 45.9
DE BEARING TEMPERATURE BY PT100		Deg. C 40.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 40.0
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) 49.7
VIBRATION		mm/s 1.0
MOMENT OF INERTIA		kgm ² 0.0054
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	
2.2 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	70.4	79.1	81.3	81.3	79.8	
PF	0.112	0.419	0.615	0.739	0.814	0.855	0.658
RPM	1500	1484	1467	1450	1432	1410	0
SLIP	0.00%	1.07%	2.20%	3.33%	4.53%	6.00%	100.00%
AMPS	2.74	2.73	3.29	3.97	4.80	5.82	29.94
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	3.59	7.22	10.89	14.67	18.62	33.89
KW INPUT	0.2131	0.7928	1.4014	2.0329	2.7077	3.4464	13.643
KW OUTPUT	0	0.558	1.109	1.653	2.200	2.750	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.078	0.114	0.166	0.242	0.356
STATOR LOSS %	9.88%	8.12%	8.15%	8.94%	2.61%
ROTOR LOSS Pcu2	0.006	0.025	0.058	0.106	0.178
ROTOR LOSS %	0.78%	1.81%	2.85%	3.91%	1.30%
CORE LOSS Pfe	0.132	0.132	0.132	0.132	0.132
CORE LOSS %	16.65%	9.42%	6.49%	4.87%	0.97%
WINDGE/FRICTION Pfw	0.014	0.014	0.014	0.014	0.014
WINDGE/FRICTION %	1.77%	1.00%	0.69%	0.52%	0.10%
STRAY LOAD LOSS Ps	0.004	0.007	0.010	0.014	0.017
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	5.47 OHMS @	7.0	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	7.0070 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	6.486 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	45.9 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	40.0 DEG.C.	at full load steady state at ambient		6.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	40.0 DEG.C.	at full load steady state at ambient		6.0 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)	49.7	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 - 4				DRAWN		DOCUMENT NO.	
				APPRVD			
				CHECKED			
400	2.2	50	400	50	Hz		

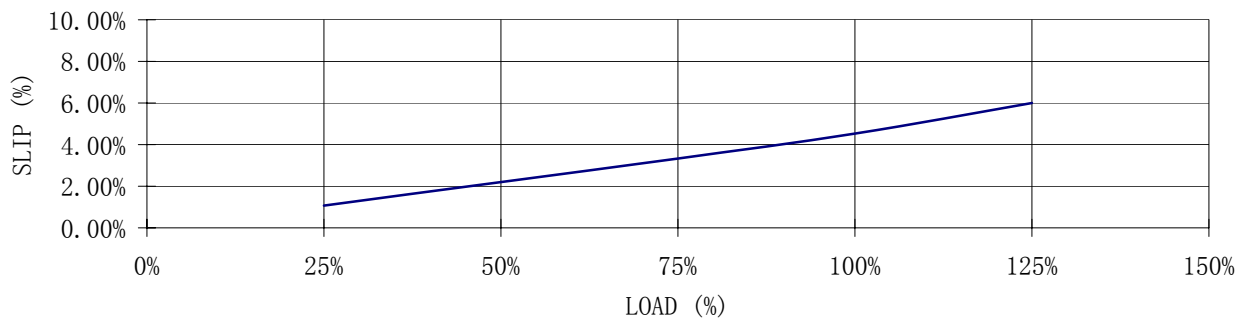
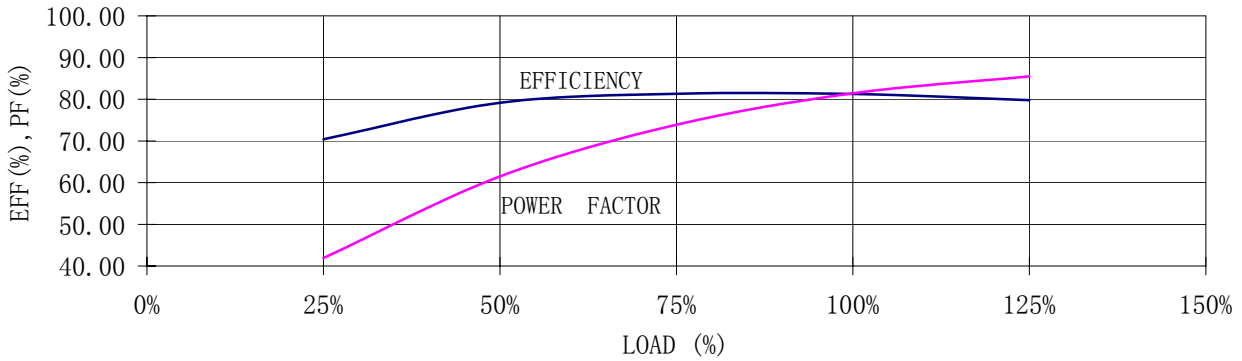
RESULT SUMMARY

VALIADIS S.A.

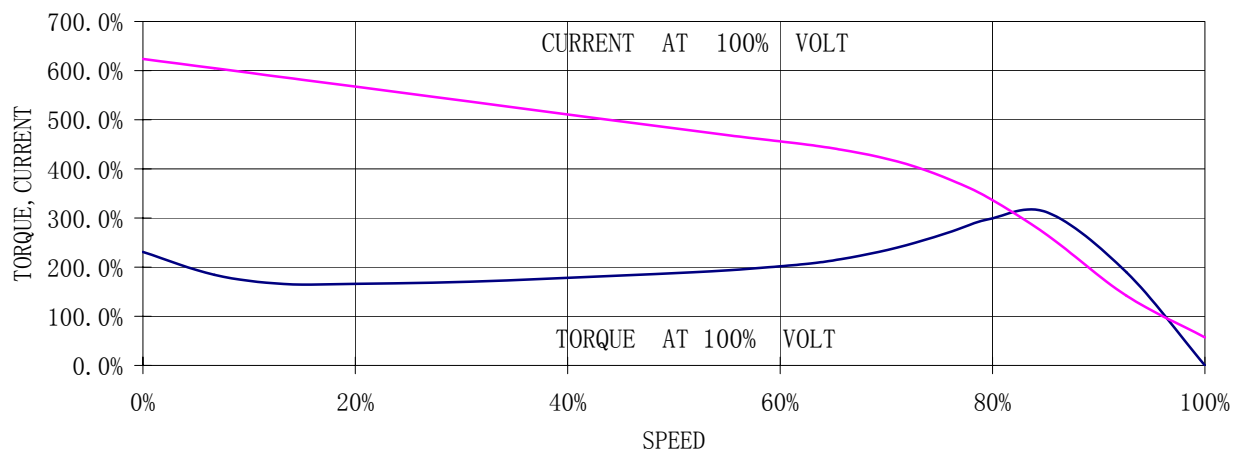
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LOAD TEST



SPEED VS TORQUE, CURRENT



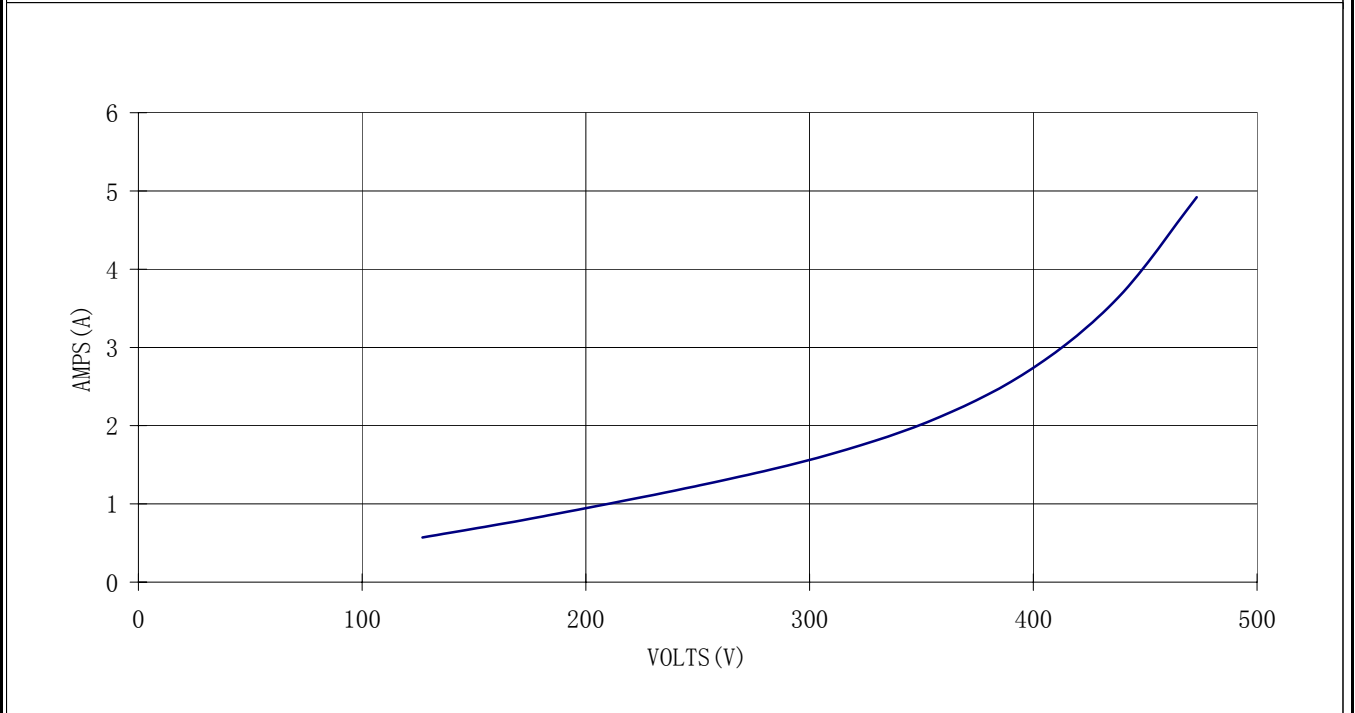
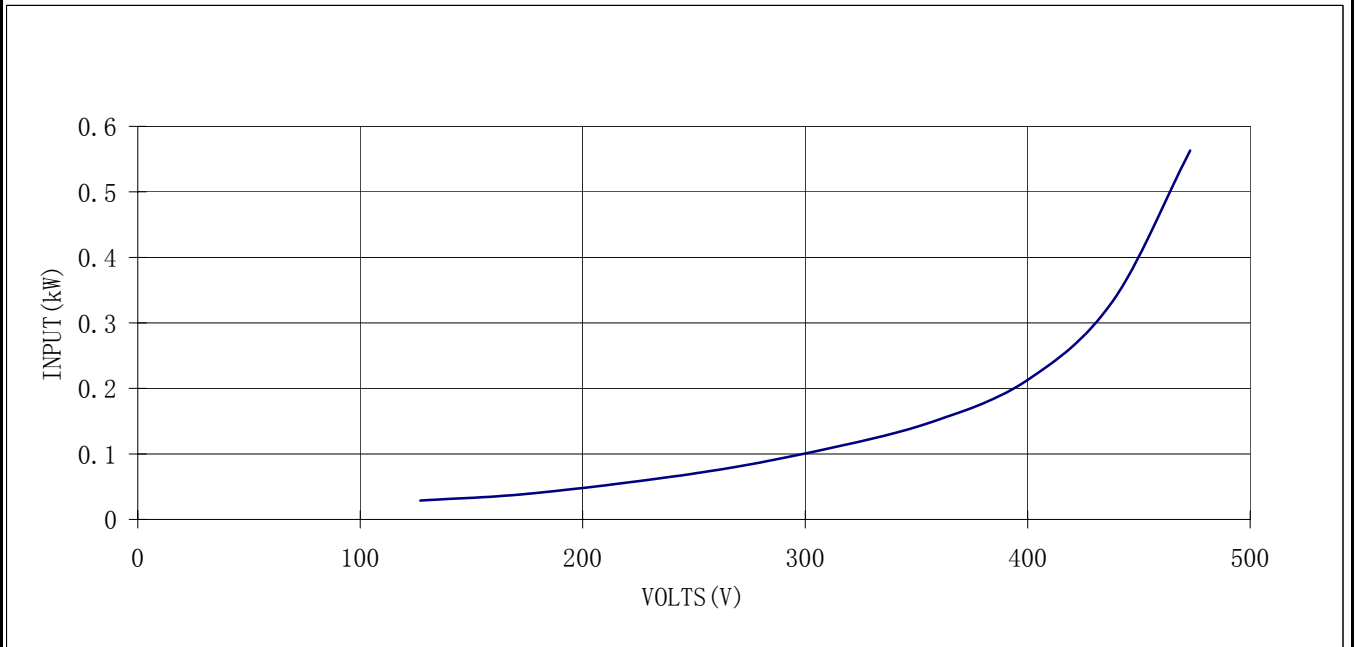
	VALIADIS S.A.	SCALE	N/A	
		DATE		REV
	AK100L-4	DRAWN		DOCUMENT NO.
	2.2 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

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	AK100L - 4			DRAWN		DOCUMENT NO.
	2.2	kW		APPRVD		
400	VOLTS	50	CHECKED			

CURVE