

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	0.37	KW	910	RPM
AK80 - 6 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
60.5 EFFICIENCY	1.24	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	57.3060
NO LOAD CURRENT			AMP	0.97
NO LOAD INPUT			kW	0.1432
CORE LOSS (Pfe)			kW	0.059
WINDAGE FRICTION LOSS (Pfw)			kW	0.007
STATOR WINDING LOSS(Pcu1)			kW	0.1300
ROTOR WINDING LOSS(Pcu2)			kW	0.0367
STRAY LOAD LOSS (Ps)			kW	0.0030
FULL LOAD CURRENT			AMP	1.23
LOCKED ROTOR CURRENT			AMP	4.21
LOCKED ROTOR CURRENT/FULL LOAD CURRENT			P.U.	3.4
LOCKED ROTOR INPUT @ 100% VOLT			kW	2.211
FULL LOAD TORQUE			N.m.	3.83
LOCKED ROTOR TORQUE			N.m.	7.72
LOCKED ROTOR TORQUE/FULL LOAD TORQUE			P.U.	2.01
PULL OUT TORQUE			N.m.	10.47
PULL OUT TORQUE/FULL LOAD TORQUE			P.U.	2.73
PULL UP TORQUE			N.m.	4.91
PULL UP TORQUE/FULL LOAD TORQUE			P.U.	1.28
EFFICIENCY @ FULL LOAD			%	60.81
POWER FACTOR @ FULL LOAD				0.706
FULL LOAD SLIP				8.90%
FULL LOAD SPEED			r/min	911
STATOR WINDING TEMPERATURE RISE	30	SECS	K	53.7
DE BEARING TEMPERATURE BY PT100			Deg. C	41.0
NDE BEARING TEMPERATURE BY PT100			Deg. C	41.0
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)	39.6
VIBRATION			mm/s	0.2
MOMENT OF INERTIA			kgm ²	0.00158
WEIGHT			kg	10

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

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
0.37 kW 400 VOLTS 50 Hz				DRAWN		DOCUMENT NO.	
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TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	37.1	52.4	58.9	60.8	59.1	
PF	0.213	0.356	0.491	0.608	0.706	0.781	0.758
RPM	1000	979	961	940	911	871	0
SLIP	0.00%	2.10%	3.90%	6.00%	8.90%	12.90%	100.00%
AMPS	0.97	0.98	1.03	1.1	1.23	1.45	4.21
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	0.87	1.82	2.78	3.83	5.08	7.72
KW INPUT	0.1432	0.2415	0.3502	0.4636	0.6016	0.7842	2.211
KW OUTPUT	0	0.090	0.183	0.273	0.366	0.463	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.083	0.091	0.104	0.130	0.181
STATOR LOSS %	34.18%	26.04%	22.44%	21.62%	8.17%
ROTOR LOSS Pcu2	0.002	0.008	0.018	0.037	0.070
ROTOR LOSS %	0.87%	2.23%	3.89%	6.10%	3.18%
CORE LOSS Pfe	0.059	0.059	0.059	0.059	0.059
CORE LOSS %	24.43%	16.85%	12.73%	9.81%	2.67%
WINDGE/FRICTION Pfw	0.007	0.007	0.007	0.007	0.007
WINDGE/FRICTION %	2.90%	2.00%	1.51%	1.16%	0.32%
STRAY LOAD LOSS Ps	0.001	0.002	0.002	0.003	0.004
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	47.69334 OHMS @	23.0 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	57.3060 OHMS @	75 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	57.618 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	53.7 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	41.0 DEG.C.	at full load steady state at ambient	23.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	41.0 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)	39.6	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.2	mm/sec on no load	D.E. BEARING		
WEIGHT	10	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.			SCALE	N/A	
			DATE		REV
AK80 - 6 0.37 kW 400 VOLTS 50 Hz			DRAWN		DOCUMENT NO.
			APPRVD		
			CHECKED		

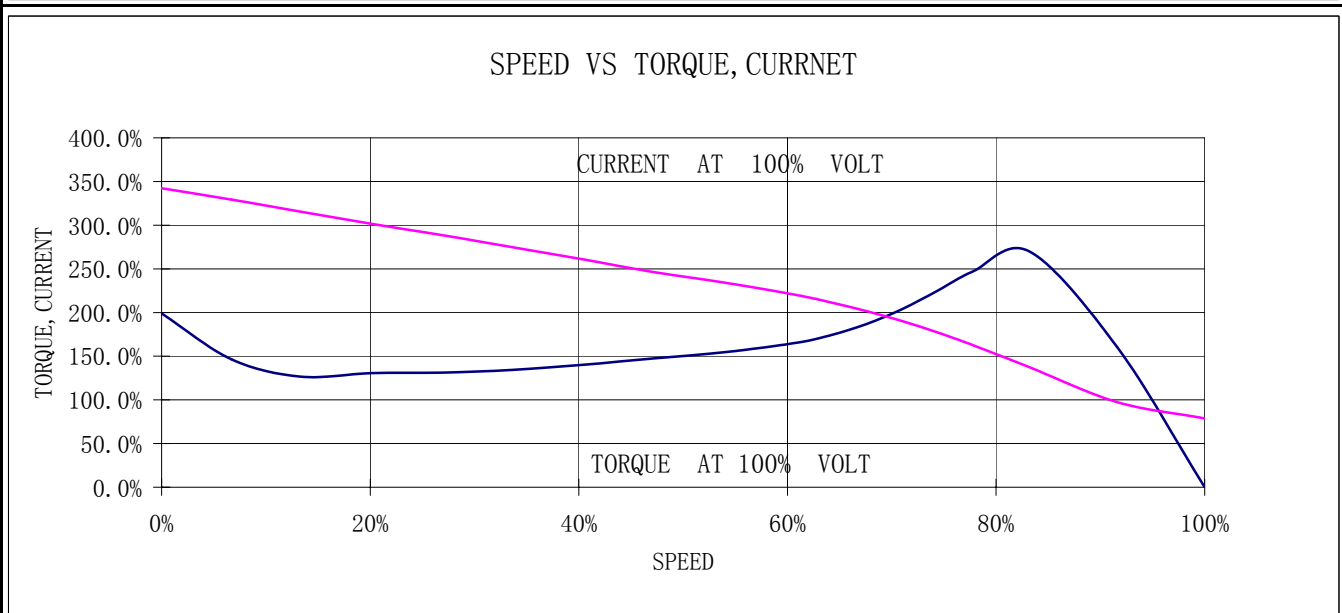
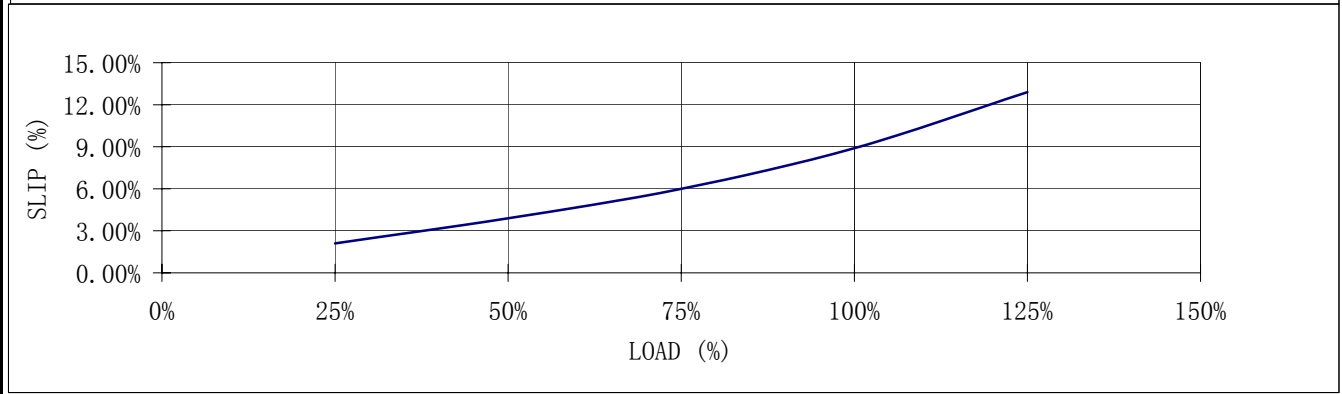
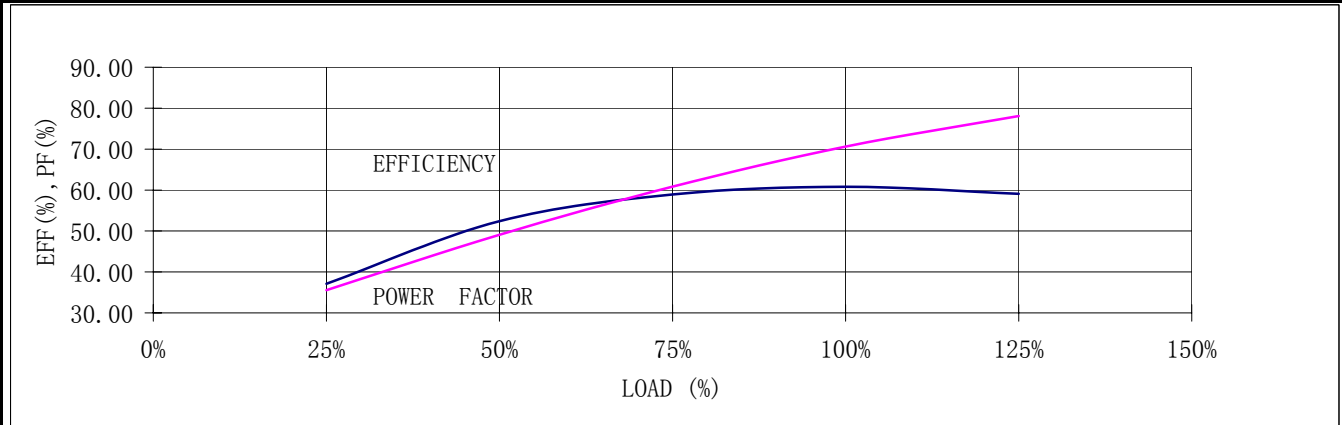
RESULT SUMMARY

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LOAD TEST



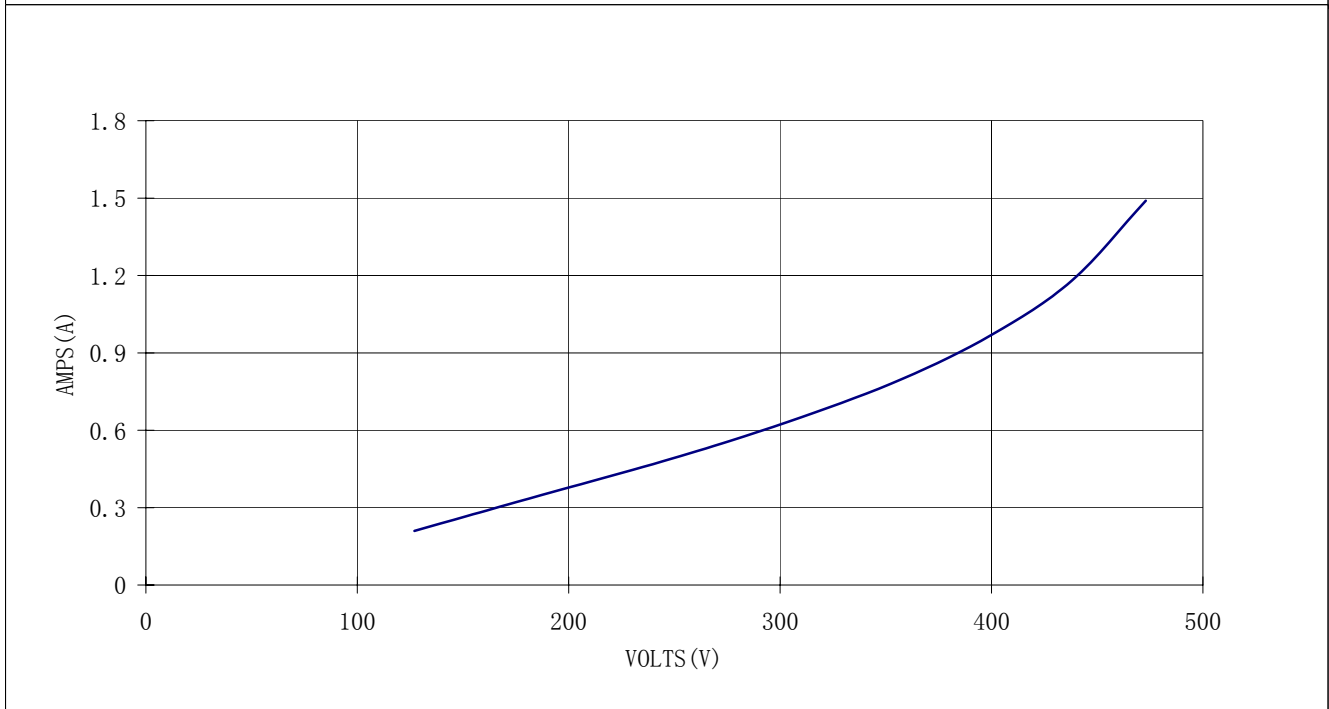
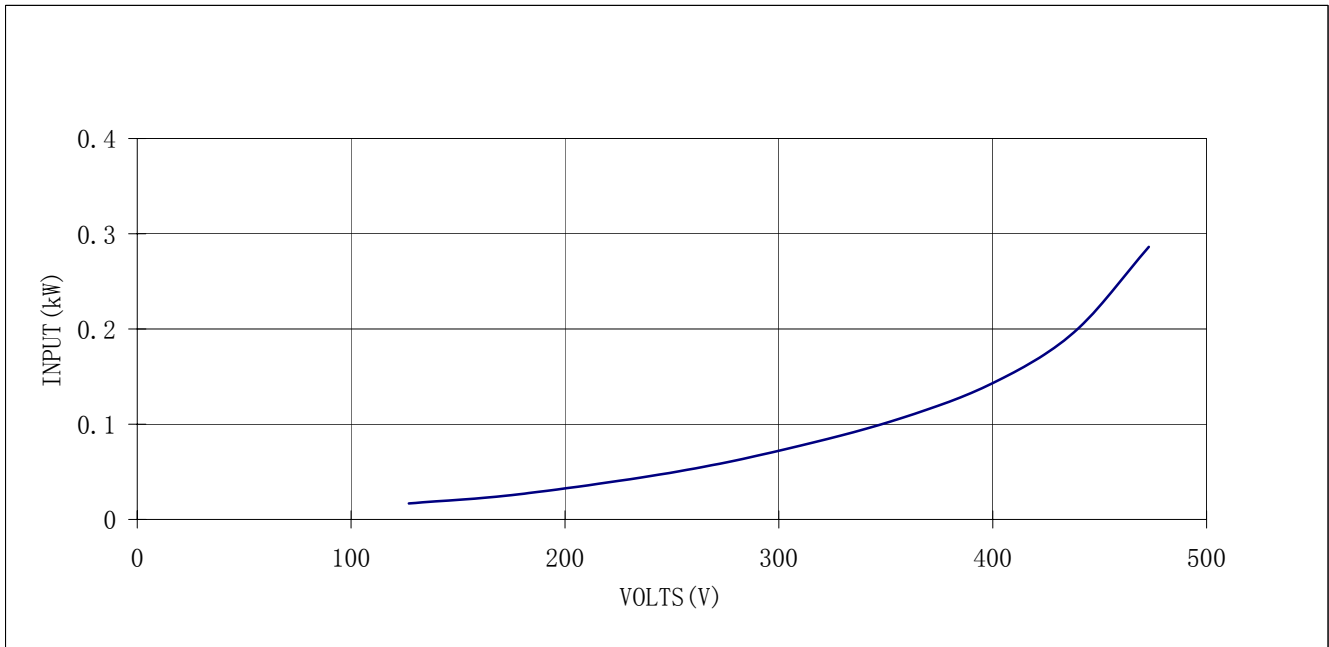
	VALIADIS S.A.	SCALE	N/A	
		DATE		REV
	AK80 - 6	DRAWN		DOCUMENT NO.
	0.37 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

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NO LOAD TEST



VALIADIS S.A. AK80 - 6 0.37 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE		REV
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CURVE