

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	2.2	KW	940	RPM
AK112M-6 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
79.0 EFFICIENCY	5.15	AMPS	55	IP	IC01	IC
6 POLE	S1	DUTY	0.78	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	7.4503
NO LOAD CURRENT			AMP	2.74
NO LOAD INPUT			kW	0.2195
CORE LOSS (Pfe)			kW	0.13
WINDAGE FRICTION LOSS (Pfw)			kW	0.011
STATOR WINDING LOSS(Pcu1)			kW	0.2873
ROTOR WINDING LOSS(Pcu2)			kW	0.1345
STRAY LOAD LOSS (Ps)			kW	0.0139
FULL LOAD CURRENT			AMP	5.07
LOCKED ROTOR CURRENT			AMP	27.35
LOCKED ROTOR CURRENT/FULL LOAD CURRENT			P.U.	5.4
LOCKED ROTOR INPUT @ 100% VOLT			kW	11.35
FULL LOAD TORQUE			N.m.	22.29
LOCKED ROTOR TORQUE			N.m.	40.97
LOCKED ROTOR TORQUE/FULL LOAD TORQUE			P.U.	1.84
PULL OUT TORQUE			N.m.	53.71
PULL OUT TORQUE/FULL LOAD TORQUE			P.U.	2.41
PULL UP TORQUE			N.m.	29.05
PULL UP TORQUE/FULL LOAD TORQUE			P.U.	1.30
EFFICIENCY @ FULL LOAD			%	79.24
POWER FACTOR @ FULL LOAD				0.791
FULL LOAD SLIP				5.70%
FULL LOAD SPEED			r/min	943
STATOR WINDING TEMPERATURE RISE	30	SECS	K	65.0
DE BEARING TEMPERATURE BY PT100			Deg. C	48.0
NDE BEARING TEMPERATURE BY PT100			Deg. C	46.0
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)	51.8
VIBRATION			mm/s	0.8
MOMENT OF INERTIA			kgm ²	0.0138
WEIGHT			kg	25

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

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK112M-6 2.2 kW 400 VOLTS 50 Hz				DRAWN		DOCUMENT NO.	
				APPRVD			
				CHECKED			

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	2.2	KW	940	RPM
AK112M-6	FRAME	3	PHASE	400	VOLTS	50
79.0	EFFICIENCY	5.15	AMPS	55	IP	IC01
6	POLE	S1	DUTY	0.78	PF	N/A
VALIADIS	MANUFACTURER	SERIAL NO.	F	INS. CLASS	Y	CONNECTION

TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	68.5	78.3	80.1	79.2	76.7	
PF	0.116	0.384	0.593	0.721	0.791	0.832	0.599
RPM	1000	991	977	961	943	920	0
SLIP	0.00%	0.90%	2.30%	3.90%	5.70%	8.00%	100.00%
AMPS	2.74	2.97	3.4	4.11	5.07	6.25	27.35
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	5.21	10.70	16.34	22.29	28.68	40.97
KW INPUT	0.2195	0.7894	1.3975	2.0517	2.7777	3.601	11.35
KW OUTPUT	0	0.541	1.094	1.644	2.201	2.763	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.099	0.129	0.189	0.287	0.437
STATOR LOSS %	12.49%	9.24%	9.20%	10.34%	3.85%
ROTOR LOSS Pcu2	0.005	0.026	0.068	0.135	0.243
ROTOR LOSS %	0.64%	1.87%	3.29%	4.84%	2.14%
CORE LOSS Pfe	0.13	0.13	0.13	0.13	0.13
CORE LOSS %	16.47%	9.30%	6.34%	4.68%	1.15%
WINDGE/FRICTION Pfw	0.011	0.011	0.011	0.011	0.011
WINDGE/FRICTION %	1.39%	0.79%	0.54%	0.40%	0.10%
STRAY LOAD LOSS Ps	0.004	0.007	0.010	0.014	0.018
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	6.10447 OHMS @	19.0	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	7.4503 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	7.76257 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	65.0 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	48.0 DEG.C.	at full load steady state at ambient		23.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	46.0 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)	51.8	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.8	mm/sec on no load	D.E. BEARING		
WEIGHT	25	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.			SCALE	N/A	
			DATE		REV
AK112M - 6			DRAWN		DOCUMENT NO.
2.2	kW		APPRVD		
400	VOLTS	50	CHECKED		
		Hz			

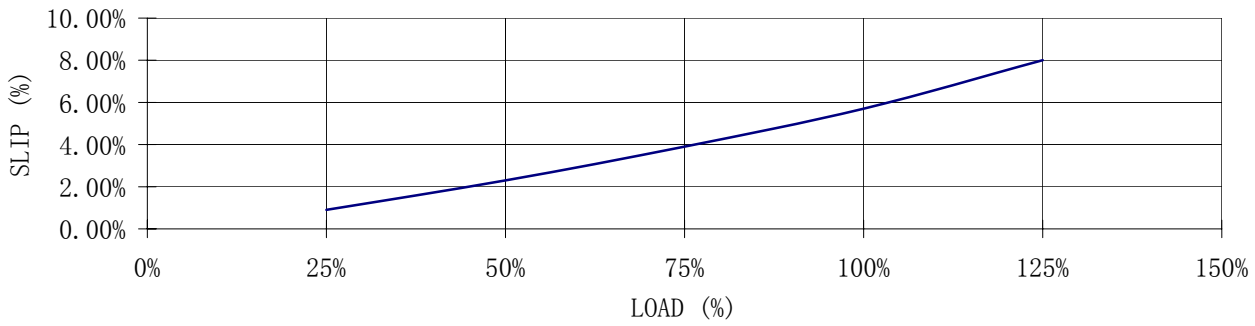
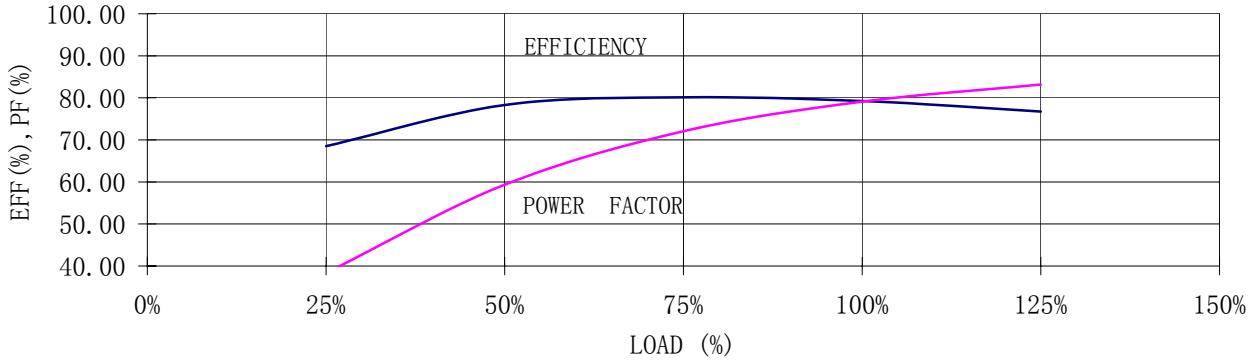
RESULT SUMMARY

VALIADIS S.A.

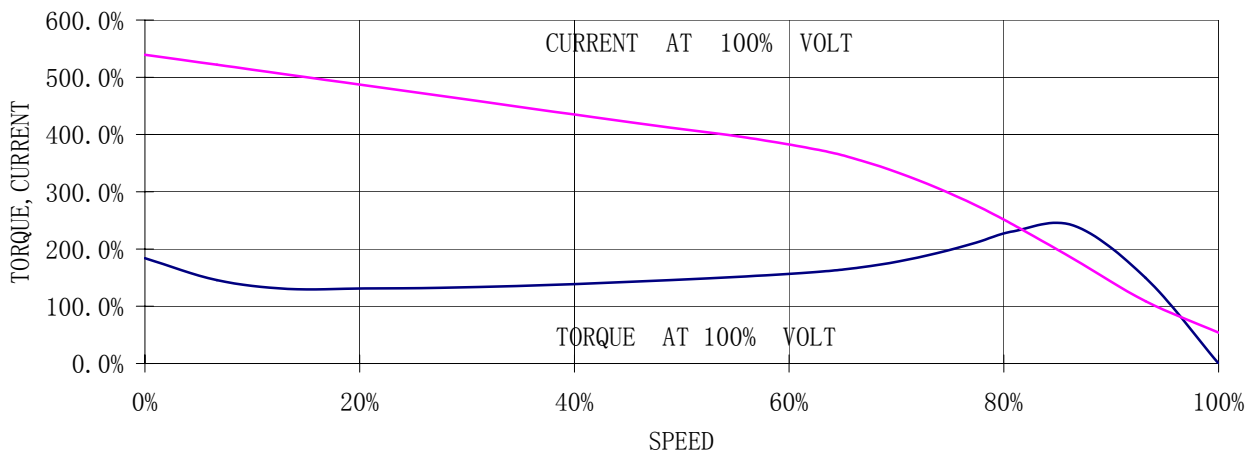
ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	2.2	KW	940	RPM
AK112M-6	FRAME	3	PHASE	400	VOLTS	50
79.0	EFFICIENCY	5.15	AMPS	55	IP	IC01
6	POLE	S1	DUTY	0.78	PF	N/A
VALIADIS	MANUFACTURER	SERIAL NO.	F	INS. CLASS	Y	CONNECTION

LOAD TEST



SPEED VS TORQUE, CURRENT



	VALIADIS S.A.	SCALE	N/A	
		DATE		REV
	AK112M - 6	DRAWN		DOCUMENT NO.
	2.2 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

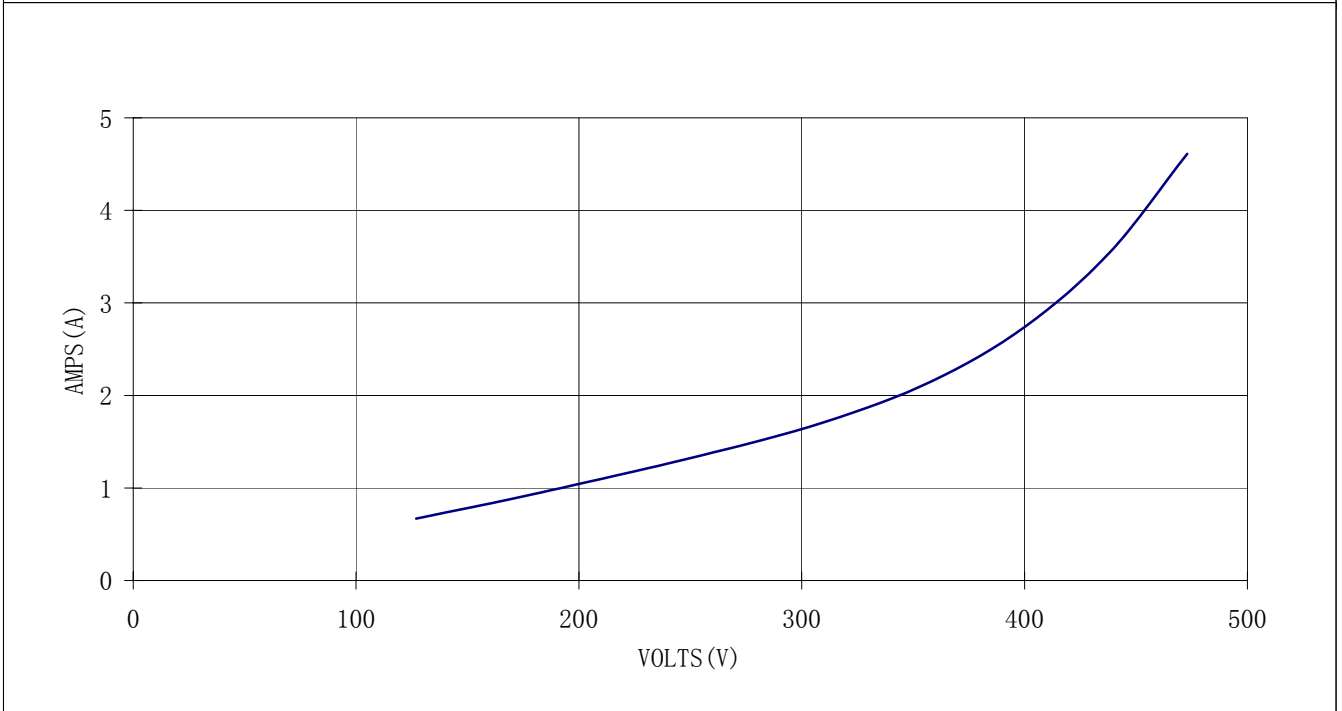
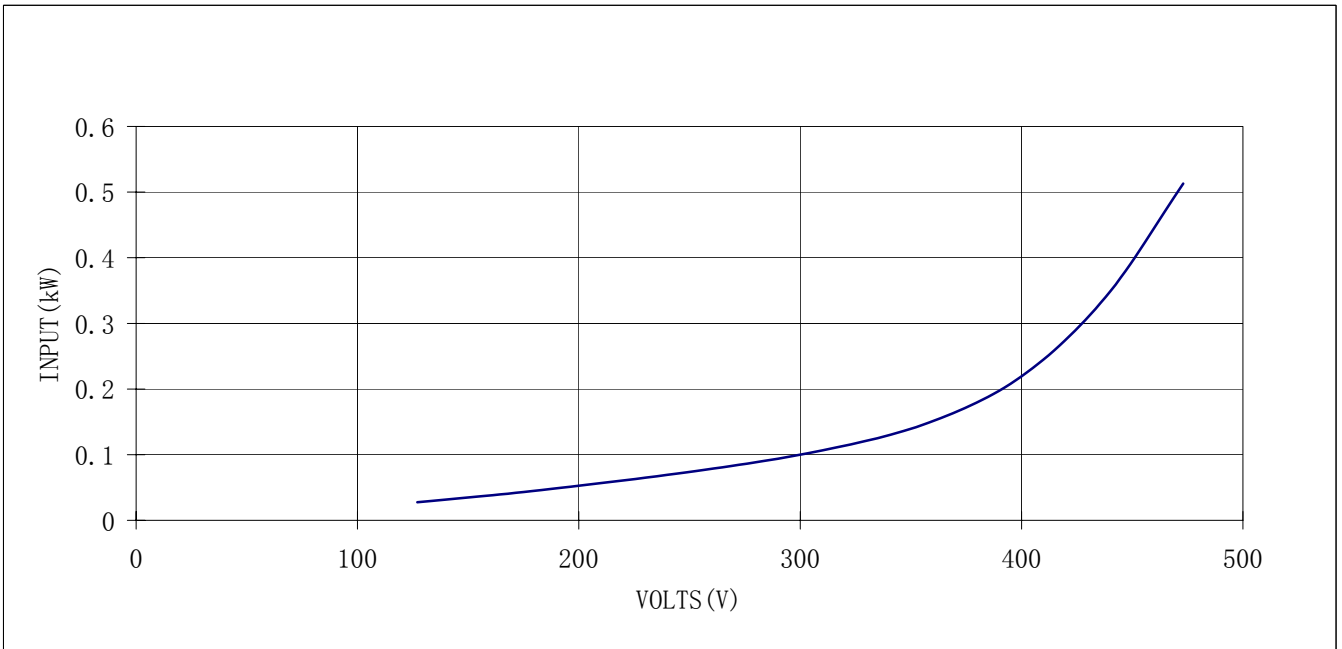
CURVE

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	2.2	KW	940	RPM
AK112M-6	FRAME	3	PHASE	400	VOLTS	50
79.0	EFFICIENCY	5.15	AMPS	55	IP	IC01
6	POLE	S1	DUTY	0.78	PF	N/A
VALIADIS	MANUFACTURER	SERIAL NO.	F	INS. CLASS	Y	CONNECTION

NO LOAD TEST



	VALIADIS S.A.	SCALE	N/A	
		DATE		REV
	AK112M-6	DRAWN		DOCUMENT NO.
	2.2 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

CURVE