

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	3	KW	710	RPM	
AK132M-8 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES	
79.0 EFFICIENCY	7.31	AMPS	55	IP	IC01	IC	
8 POLE	S1	DUTY	0.75	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	5.0449
NO LOAD CURRENT			AMP	4.86
NO LOAD INPUT			kW	0.3607
CORE LOSS (Pfe)			kW	0.174
WINDAGE FRICTION LOSS (Pfw)			kW	0.018
STATOR WINDING LOSS(Pcu1)			kW	0.4044
ROTOR WINDING LOSS(Pcu2)			kW	0.1668
STRAY LOAD LOSS (Ps)			kW	0.0189
FULL LOAD CURRENT			AMP	7.31
LOCKED ROTOR CURRENT			AMP	39.15
LOCKED ROTOR CURRENT/FULL LOAD CURRENT			P.U.	5.4
LOCKED ROTOR INPUT @ 100% VOLT			kW	17.606
FULL LOAD TORQUE			N.m.	40.36
LOCKED ROTOR TORQUE			N.m.	84.64
LOCKED ROTOR TORQUE/FULL LOAD TORQUE			P.U.	2.10
PULL OUT TORQUE			N.m.	116.19
PULL OUT TORQUE/FULL LOAD TORQUE			P.U.	2.88
PULL UP TORQUE			N.m.	60.78
PULL UP TORQUE/FULL LOAD TORQUE			P.U.	1.51
EFFICIENCY @ FULL LOAD			%	79.35
POWER FACTOR @ FULL LOAD				0.748
FULL LOAD SLIP				5.20%
FULL LOAD SPEED			r/min	711
STATOR WINDING TEMPERATURE RISE	30	SECS	K	59.6
DE BEARING TEMPERATURE BY PT100			Deg. C	56.0
NDE BEARING TEMPERATURE BY PT100			Deg. C	53.0
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)	55.0
VIBRATION			mm/s	0.4
MOMENT OF INERTIA			kgm²	0.0395
WEIGHT			kg	55

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

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK132M-8 3 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	3	KW	710	RPM
AK132M-8	FRAME	3	PHASE	400	VOLTS	50
79.0	EFFICIENCY	7.31	AMPS	55	IP	IC01
8	POLE	S1	DUTY	0.75	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	65.9	76.9	79.5	79.3	77.1	
PF	0.107	0.336	0.532	0.665	0.748	0.787	0.649
RPM	750	741	732	722	711	696	0
SLIP	0.00%	1.20%	2.40%	3.73%	5.20%	7.20%	100.00%
AMPS	4.86	4.88	5.37	6.15	7.31	8.95	39.15
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	9.66	19.85	29.78	40.36	51.64	84.64
KW INPUT	0.3607	1.1372	1.9799	2.832	3.787	4.8814	17.606
KW OUTPUT	0	0.750	1.522	2.251	3.005	3.764	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.180	0.218	0.286	0.404	0.606
STATOR LOSS %	15.85%	11.02%	10.11%	10.68%	3.44%
ROTOR LOSS Pcu2	0.009	0.038	0.089	0.167	0.295
ROTOR LOSS %	0.83%	1.92%	3.13%	4.41%	1.68%
CORE LOSS Pfe	0.174	0.174	0.174	0.174	0.174
CORE LOSS %	15.30%	8.79%	6.14%	4.59%	0.99%
WINDGE/FRICTION Pfw	0.018	0.018	0.018	0.018	0.018
WINDGE/FRICTION %	1.58%	0.91%	0.64%	0.48%	0.10%
STRAY LOAD LOSS Ps	0.006	0.010	0.014	0.019	0.024
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	4.1254 OHMS @	18.5	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	5.0449 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	5.1279 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	59.6 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	56.0 DEG.C.	at full load steady state at ambient		20.5 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	53.0 DEG.C.	at full load steady state at ambient		20.5 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)	55.0	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.4	mm/sec on no load	D.E. BEARING		
WEIGHT	55	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.			SCALE	N/A	
			DATE		REV
AK132M-8			DRAWN		DOCUMENT NO.
3	kW		APPRVD		
400	VOLTS	50	CHECKED		
		Hz			

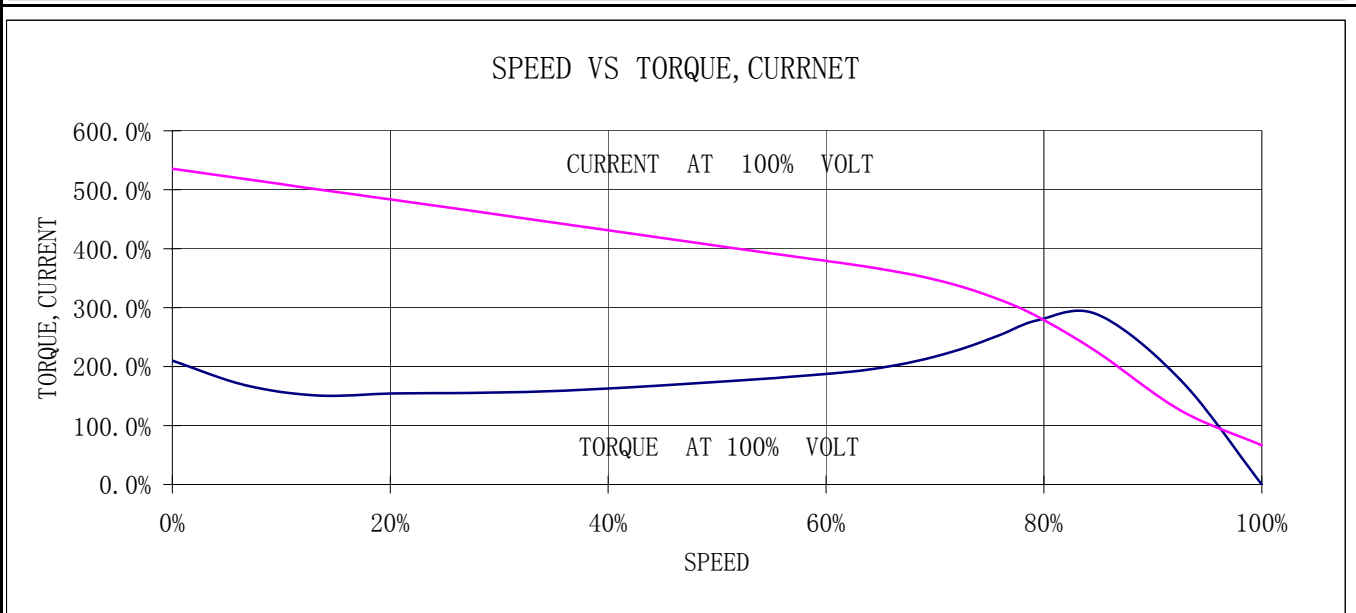
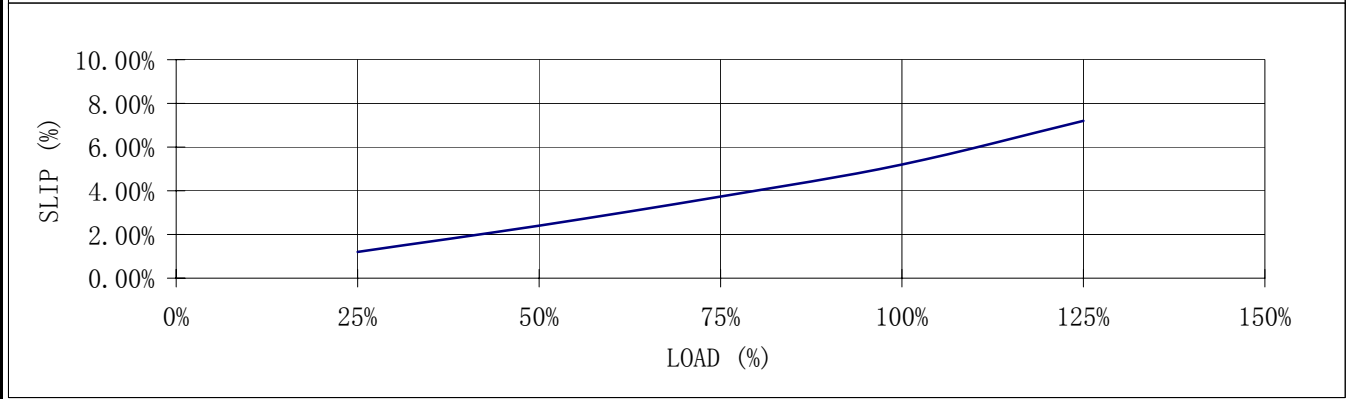
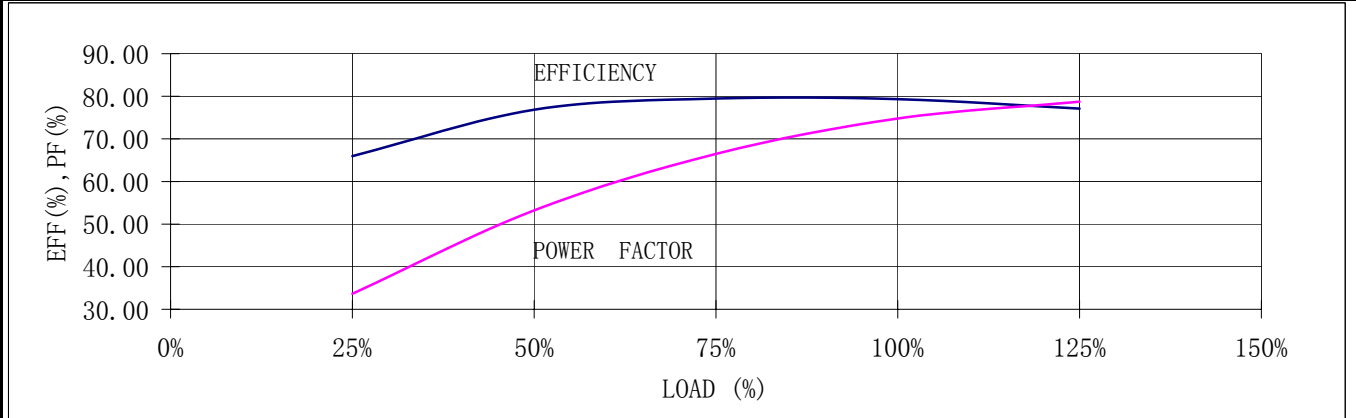
RESULT SUMMARY

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	3	KW	710	RPM
AK132M-8	FRAME	3	PHASE	400	VOLTS	50
79.0	EFFICIENCY	7.31	AMPS	55	IP	IC01
8	POLE	S1	DUTY	0.75	PF	N/A
VALIADIS	MANUFACTURER	SERIAL NO.	F	INS. CLASS	Y	CONNECTION

LOAD TEST



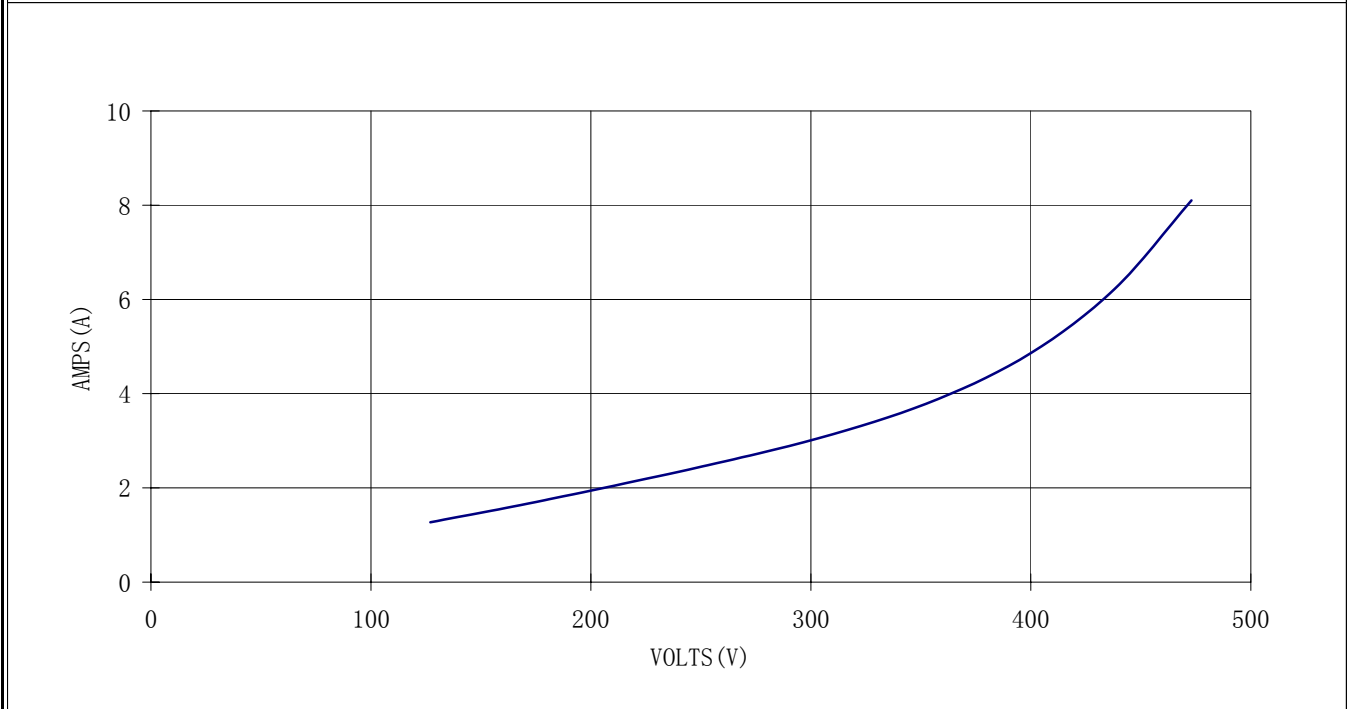
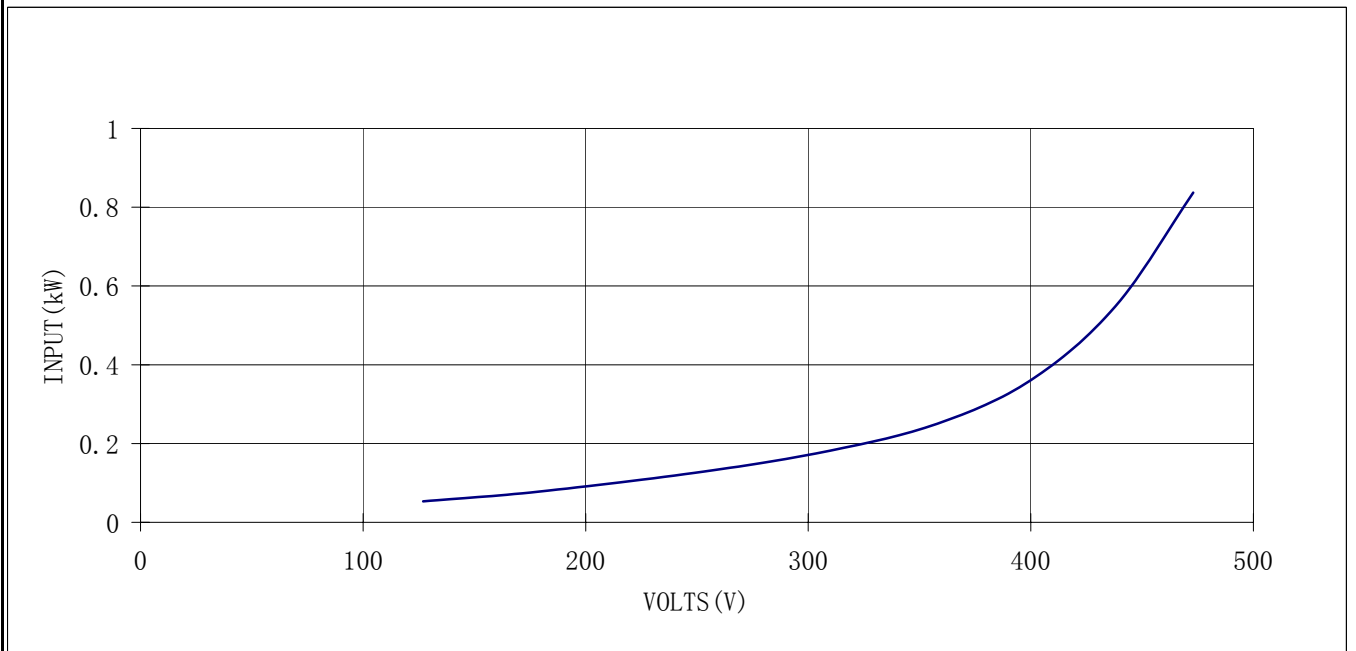
	VALIADIS S.A.	SCALE	N/A	
		DATE		REV
	AK132M-8	DRAWN		DOCUMENT NO.
	3 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	3	KW	710	RPM
AK132M-8	FRAME	3	PHASE	400	VOLTS	50
79.0	EFFICIENCY	7.31	AMPS	55	IP	IC01
8	POLE	S1	DUTY	0.75	PF	N/A
VALIADIS	MANUFACTURER	SERIAL NO.	F	INS. CLASS	Y	CONNECTION

NO LOAD TEST



	VALIADIS S.A.	SCALE	N/A	
		DATE		REV
	AK132M-8	DRAWN		DOCUMENT NO.
	3	APPRVD		
400	CHECKED			
	kW			
	50	Hz		

CURVE