

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	3	KW	960	RPM
AK132S-6 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
81.0 EFFICIENCY	7.03	AMPS	55	IP	IC01	IC
6 POLE	S1	DUTY	0.76	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 4.5128
NO LOAD CURRENT		AMP 4.75
NO LOAD INPUT		kW 0.4248
CORE LOSS (Pfe)		kW 0.225
WINDAGE FRICTION LOSS (Pfw)		kW 0.011
STATOR WINDING LOSS(Pcu1)		kW 0.3336
ROTOR WINDING LOSS(Pcu2)		kW 0.1164
STRAY LOAD LOSS (Ps)		kW 0.0185
FULL LOAD CURRENT		AMP 7.02
LOCKED ROTOR CURRENT		AMP 44.83
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 6.4
LOCKED ROTOR INPUT @ 100% VOLT		kW 19.905
FULL LOAD TORQUE		N.m. 29.74
LOCKED ROTOR TORQUE		N.m. 61.20
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.06
PULL OUT TORQUE		N.m. 104.09
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 3.50
PULL UP TORQUE		N.m. 47.87
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.61
EFFICIENCY @ FULL LOAD		% 80.98
POWER FACTOR @ FULL LOAD		0.761
FULL LOAD SLIP		3.70%
FULL LOAD SPEED		r/min 963
STATOR WINDING TEMPERATURE RISE	30 SECS	K 70.4
DE BEARING TEMPERATURE BY PT100		Deg. C 62.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 58.0
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) 52.4
VIBRATION		mm/s 0.7
MOMENT OF INERTIA		kgm ² 0.0286
WEIGHT		kg 28

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

VALIADIS S.A.	SCALE	N/A		
	DATE		REV	
AK132S - 6	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	960	RPM
AK132S-6	FRAME	3	PHASE	400	VOLTS	50
81.0	EFFICIENCY	7.03	AMPS	55	IP	IC01
6	POLE	S1	DUTY	0.76	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	64.2	76.4	80.2	81.0	80.0	
PF	0.129	0.340	0.536	0.675	0.761	0.806	0.641
RPM	1000	990	982	973	963	950	44.83
SLIP	0.00%	1.00%	1.80%	2.70%	3.70%	5.00%	95.52%
AMPS	4.75	4.8	5.25	5.97	7.02	8.44	44.83
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	6.99	14.50	21.98	29.74	37.93	61.20
KW INPUT	0.4248	1.13	1.9506	2.7931	3.7035	4.715	19.905
KW OUTPUT	0	0.725	1.491	2.239	2.999	3.773	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.156	0.187	0.241	0.334	0.482
STATOR LOSS %	13.80%	9.56%	8.64%	9.01%	2.42%
ROTOR LOSS Pcu2	0.007	0.028	0.063	0.116	0.200
ROTOR LOSS %	0.66%	1.42%	2.25%	3.14%	1.01%
CORE LOSS Pfe	0.225	0.225	0.225	0.225	0.225
CORE LOSS %	19.91%	11.53%	8.06%	6.08%	1.13%
WINDGE/FRICTION Pfw	0.011	0.011	0.011	0.011	0.011
WINDGE/FRICTION %	0.97%	0.56%	0.39%	0.30%	0.06%
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	3.72667 OHMS @	21.0	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	4.5128 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	4.773 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	70.4 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	62.0 DEG.C.	at full load steady state at ambient		22.5 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	58.0 DEG.C.	at full load steady state at ambient		22.5 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)	52.4	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.7	mm/sec on no load	D.E. BEARING		
WEIGHT	28	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK132S - 6				DRAWN		DOCUMENT NO.	
3	kW		APPRVD				
400	VOLTS	50	Hz	CHECKED			

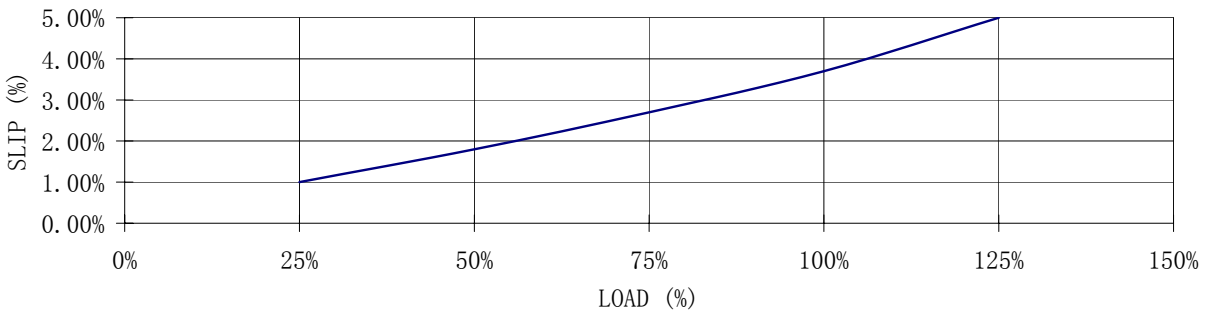
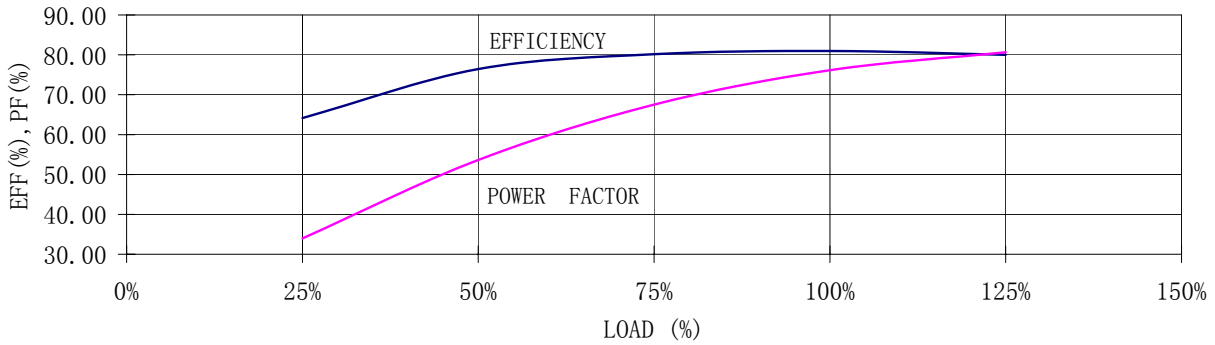
RESULT SUMMARY

VALIADIS S.A.

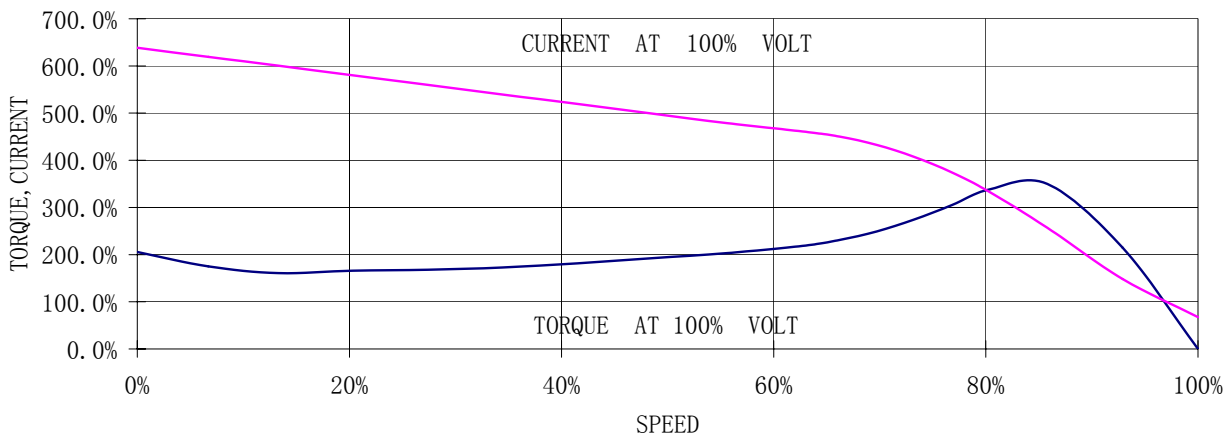
ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	3	KW	960	RPM
AK132S-6	FRAME	3	PHASE	400	VOLTS	50
81.0	EFFICIENCY	7.03	AMPS	55	IP	IC01
6	POLE	S1	DUTY	0.76	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
	AK132S-6	DRAWN	DOCUMENT NO.
	3 kW	APPRVD	
400 VOLTS 50 Hz	CHECKED		

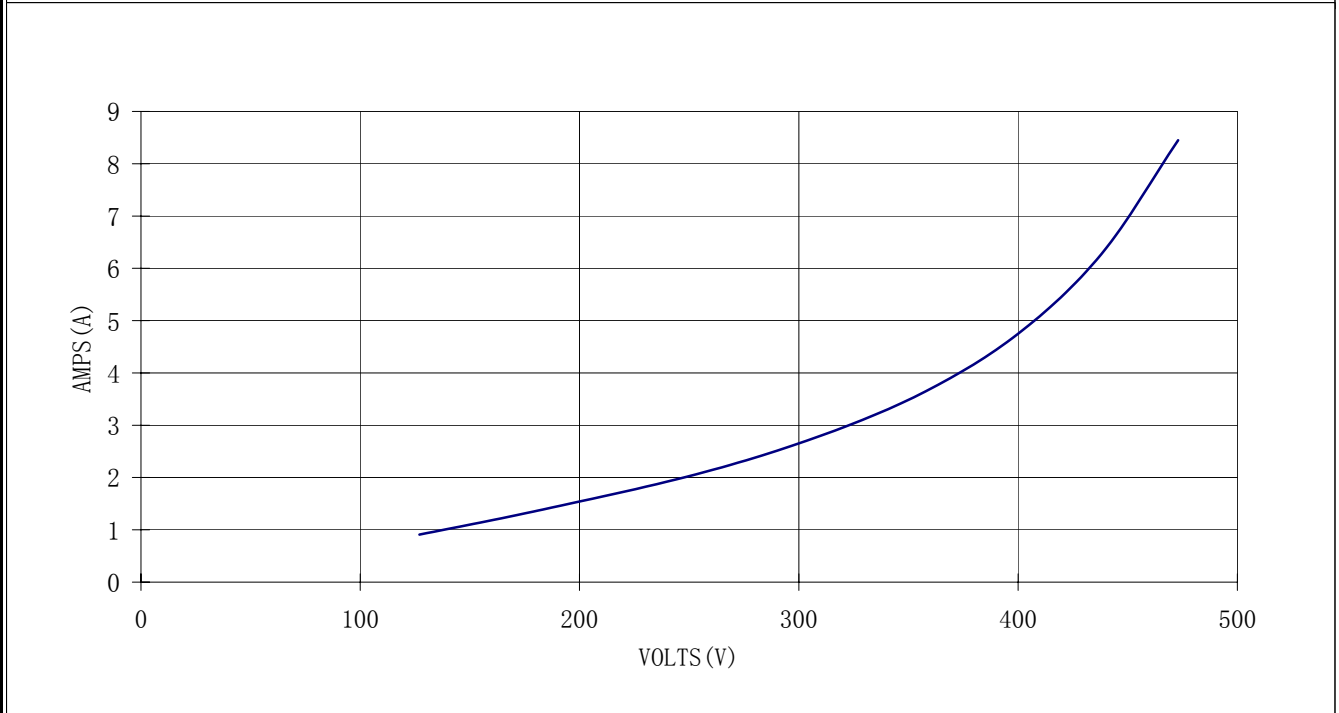
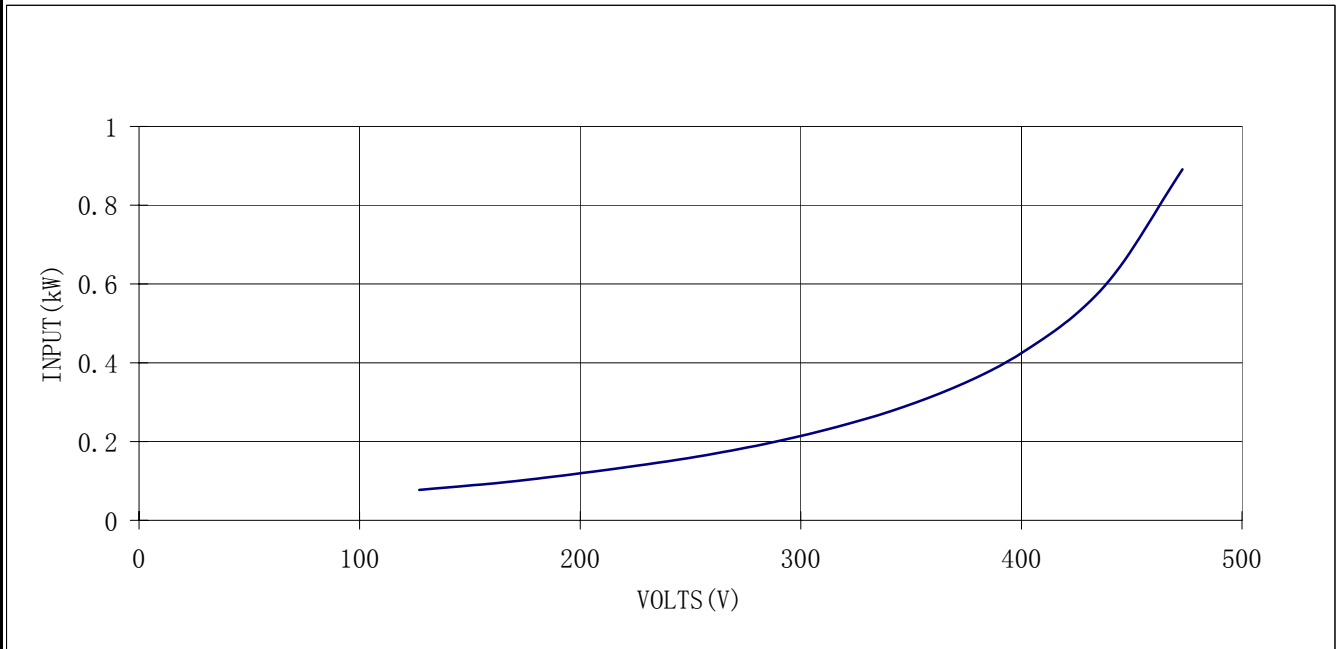
CURVE

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	3	KW	960	RPM
AK132S-6	FRAME	3	PHASE	400	VOLTS	50
81.0	EFFICIENCY	7.03	AMPS	55	IP	IC01
6	POLE	S1	DUTY	0.76	PF	N/A
VALIADIS	MANUFACTURER	SERIAL NO.	F	INS. CLASS	Y	CONNECTION

NO LOAD TEST



	VALIADIS S.A.	SCALE	N/A	
		DATE		REV
	AK132S-6	DRAWN		DOCUMENT NO.
	3	APPRVD		
400 3 kW	CHECKED			
	400 3 VOLTS 50 Hz			

CURVE