

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	1.1	KW	2880	RPM
AK80-2 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
79.0 EFFICIENCY	2.39	AMPS	55	IP	IC01	IC
2 POLE	S1	DUTY	0.84	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 13.4135
NO LOAD CURRENT		AMP 1.40
NO LOAD INPUT		kW 0.1542
CORE LOSS (Pfe)		kW 0.108
WINDAGE FRICTION LOSS (Pfw)		kW 0.010
STATOR WINDING LOSS(Pcu1)		kW 0.1130
ROTOR WINDING LOSS(Pcu2)		kW 0.0479
STRAY LOAD LOSS (Ps)		kW 0.0069
FULL LOAD CURRENT		AMP 2.37
LOCKED ROTOR CURRENT		AMP 17.15
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 7.2
LOCKED ROTOR INPUT @ 100% VOLT		kW 9.041
FULL LOAD TORQUE		N.m. 3.63
LOCKED ROTOR TORQUE		N.m. 11.34
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 3.12
PULL OUT TORQUE		N.m. 12.74
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 3.51
PULL UP TORQUE		N.m. 7.67
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 2.11
EFFICIENCY @ FULL LOAD		% 79.28
POWER FACTOR @ FULL LOAD		0.840
FULL LOAD SLIP		4.13%
FULL LOAD SPEED		r/min 2876
STATOR WINDING TEMPERATURE RISE	30 SECS	K 27.6
DE BEARING TEMPERATURE BY PT100		Deg. C 56.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 54.0
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) 51.9
VIBRATION		mm/s 1.1
MOMENT OF INERTIA		kgm ² 0.0009
WEIGHT		kg 11

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

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
1.1 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	1.1	KW	2880	RPM
AK80 - 2	FRAME	3	PHASE	400	VOLTS	50
79.0	EFFICIENCY	2.39	AMPS	55	IP	IC01
2	POLE	S1	DUTY	0.84	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	62.3	74.3	78.2	79.3	78.6	
PF	0.159	0.443	0.634	0.759	0.840	0.879	0.761
RPM	3000	2968	2943	2912	2876	2835	0
SLIP	0.00%	1.07%	1.90%	2.93%	4.13%	5.50%	100.00%
AMPS	1.4	1.41	1.67	1.99	2.37	2.86	17.15
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	0.87	1.77	2.68	3.63	4.61	11.34
KW INPUT	0.1542	0.4332	0.7339	1.0464	1.3794	1.7415	9.041
KW OUTPUT	0	0.270	0.545	0.818	1.094	1.369	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.040	0.056	0.080	0.113	0.165
STATOR LOSS %	9.23%	7.65%	7.61%	8.19%	1.82%
ROTOR LOSS Pcu2	0.003	0.011	0.025	0.048	0.081
ROTOR LOSS %	0.70%	1.48%	2.41%	3.47%	0.89%
CORE LOSS Pfe	0.108	0.108	0.108	0.108	0.108
CORE LOSS %	24.93%	14.72%	10.32%	7.83%	1.19%
WINDGE/FRICTION Pfw	0.010	0.010	0.010	0.010	0.010
WINDGE/FRICTION %	2.31%	1.36%	0.96%	0.72%	0.11%
STRAY LOAD LOSS Ps	0.002	0.004	0.005	0.007	0.009
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	11.2933 OHMS @	26.0	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	13.4135 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	12.4877 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	27.6 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		26.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	54.0 DEG.C.	at full load steady state at ambient		26.0 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)	51.9	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	1.1	mm/sec on no load	D.E. BEARING		
WEIGHT	11	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK80 - 2				DRAWN		DOCUMENT NO.	
1.1	kW			APPRVD			
400	VOLTS	50	Hz	CHECKED			

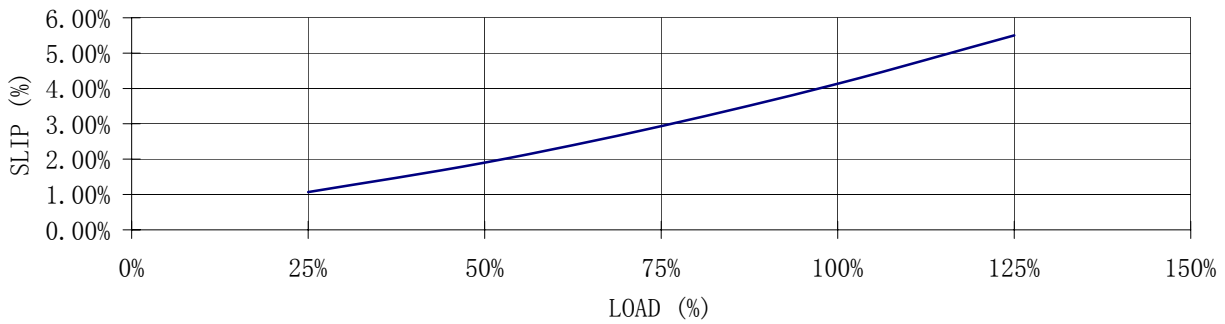
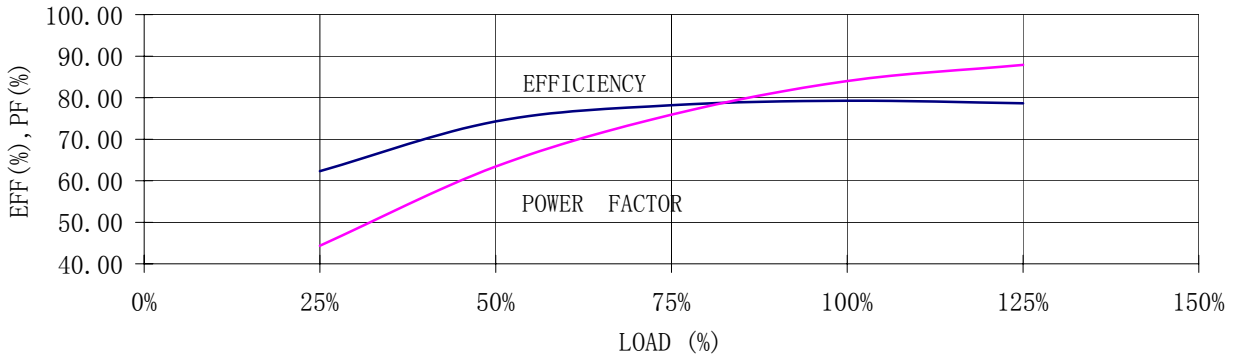
RESULT SUMMARY

VALIADIS S.A.

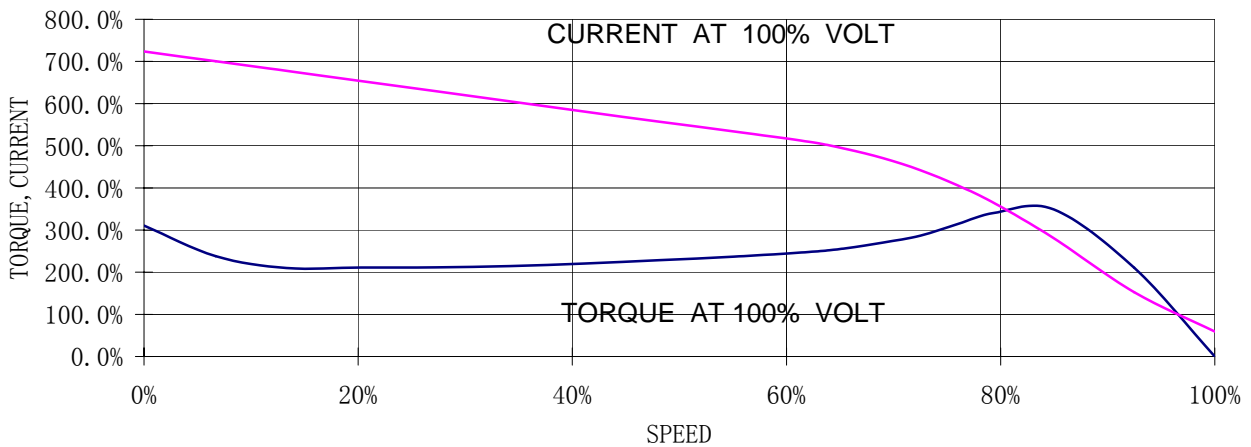
ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	1.1	KW	2880	RPM
AK80 - 2	FRAME	3	PHASE	400	VOLTS	50
79.0	EFFICIENCY	2.39	AMPS	55	IP	IC01
2	POLE	S1	DUTY	0.84	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
	AK80 - 2	DRAWN		DOCUMENT NO.
	1.1 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

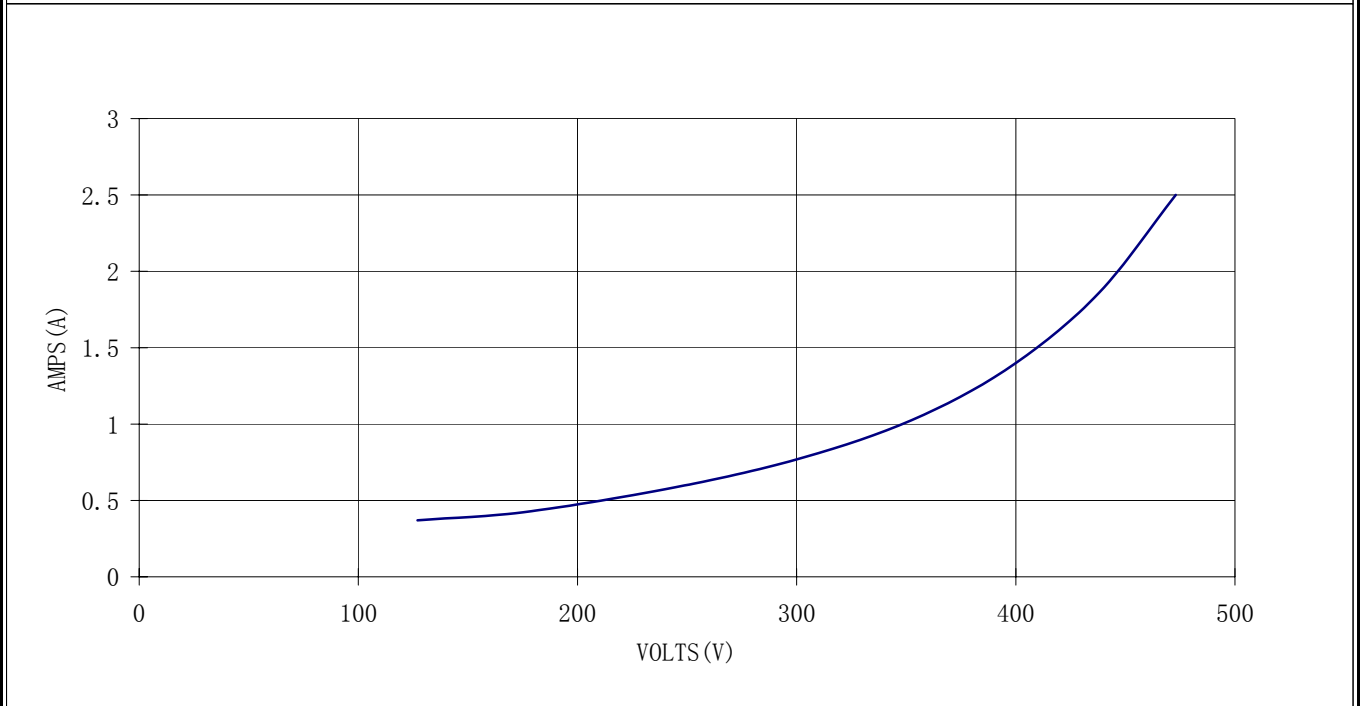
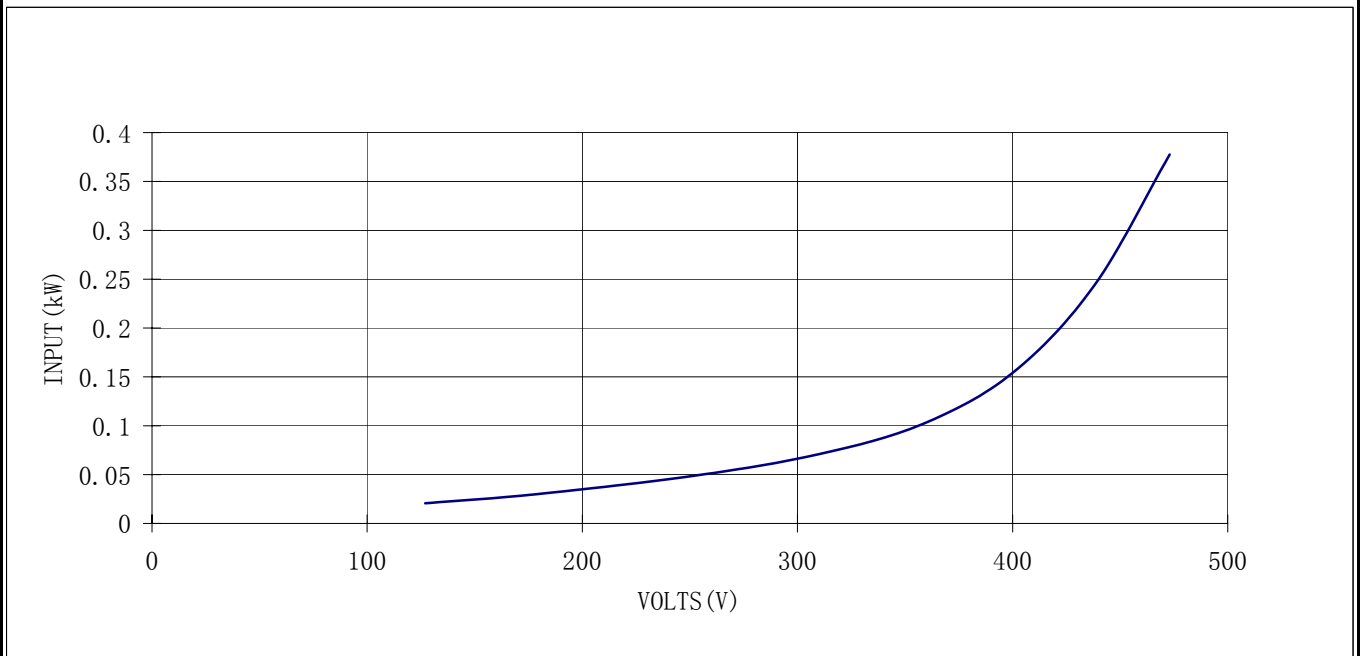
CURVE

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	1.1	KW	2880	RPM
AK80 - 2	FRAME	3	PHASE	400	VOLTS	50
79.0	EFFICIENCY	2.39	AMPS	55	IP	IC01
2	POLE	S1	DUTY	0.84	PF	N/A
VALIADIS	MANUFACTURER	SERIAL NO.	F	INS. CLASS	Y	CONNECTION

NO LOAD TEST



VALIADIS S.A.				SCALE	N/A	
				DATE		REV
AK80 - 2 1.1 kW 400 VOLTS 50 Hz				DRAWN		DOCUMENT NO.
				APPRVD		
				CHECKED		

CURVE