

VALIADIS S.A.

ORDER NO.:

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		22 KW		977 RPM		
K200L-6 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES		
91.0 EFFICIENCY		40.4 AMPS		55 IP		IC411 IC		
6 POLE		S1 DUTY		0.864 PF		N/A EFF2		
VALIADIS MANUFACTURER		1627 SERIAL NO.		F INS.CLASS		DELTA CONNECTION		
TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	86.16	90.40	91.24	91.00	90.74	90.15	
PF	0.074	0.546	0.749	0.831	0.864	0.870	0.869	0.480
RPM	1000	996	990	983	977	974	970	0
SLIP	0.00%	0.37%	1.02%	1.66%	2.34%	2.59%	3.02%	100.00%
AMPS	15.57	16.88	23.44	31.39	40.38	44.23	50.68	258.8
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	52.7	106.2	160.3	215.2	237.3	270.9	560.3
KW INPUT	0.801	6.38	12.17	18.08	24.17	26.67	30.51	86.07
KW OUTPUT	0	5.50	11.00	16.50	22.00	24.20	27.50	
LOSSES(kw)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD		
STATOR LOSS Pcu1	0.143	0.275	0.493	0.816	0.98	1.29		
STATOR LOSS %	2.23%	2.26%	2.73%	3.38%	3.67%	4.21%		
ROTOR LOSS Pcu2	0.021	0.116	0.282	0.533	0.65	0.86		
ROTOR LOSS %	0.32%	0.95%	1.56%	2.21%	2.43%	2.83%		
CORE LOSS Pfe	0.585	0.585	0.585	0.585	0.585	0.585		
CORE LOSS %	9.17%	4.81%	3.24%	2.42%	2.20%	1.92%		
WINDAGE/FRICTION Pfw	0.113	0.113	0.113	0.113	0.113	0.113		
WINDAGE/FRICTION %	1.76%	0.93%	0.62%	0.47%	0.42%	0.37%		
STRAY LOAD LOSS Ps	0.032	0.061	0.090	0.121	0.133	0.153		
STRAY LOAD LOSS %	0.50%	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	0.2685333 OHMS @		26.6 DEG.C.		BETWEEN STATOR LEADS			
STATOR RESISTANCE ADJUSTED	0.334 OHMS @		90 DEG.C.		BETWEEN STATOR LEADS			
STATOR RESISTANCE HOT	0.348 OHMS		after test of temp rise		BETWEEN STATOR LEADS			
WINDING TEMPERATURE RISE	66.5 DEG.C.		at full load steady state at		30		SECS	
WINDING TEMPERATURE RISE	69.5 DEG.C.		at full load steady state at		0		SECS	
PT100 TEMPERATURE OF DE WINDING	101.2 DEG.C.		at full load steady state at ambient		28.7		DEG.C.	
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.		at full load steady state at ambient		28.7		DEG.C.	
PT100 TEMPERATURE DE BEARING	80.1 DEG.C.		at full load steady state at ambient		28.7		DEG.C.	
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.		at full load steady state at ambient		28.7		DEG.C.	
PT100 TEMPERATURE IN TERMINAL BOX	60.9 DEG.C.		at full load steady state at ambient		28.7		DEG.C.	
PT100 TEMPERATURE ON STATOR LEADS	65.3 DEG.C.		at full load steady state at ambient		28.7		DEG.C.	
OTHER								
NOISE LEVEL(Lp)	66	dB(A) @ 1meter		INSULATION RESISTANCE		500	MEG.OHMS	
VIBRATION LEVEL	1.6	mm/sec on no load		D.E. BEARING		6312C3		
WEIGHT	250	kg		N.D.E.BEARING		6212C3		
H-POT TEST VOLTS	1800	VOLTS						
VALIADIS S.A. K200L-6 22 kW 400 VOLTS 50 Hz				SCALE	N/A			
				DATE	203.09.07			
				DRAWN				
				APPRVD				
CHECKED				DOCUMENT NO.				

RESULT SUMMARY

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC TYPE	22 KW	977 RPM
K200L-6 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
91.0 EFFICIENCY	40.4 AMPS	55 IP	IC411 IC
6 POLE	S1 DUTY	0.864 PF	N/A EFF2
VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM 0.334
NO LOAD CURRENT		AMP 15.57
NO LOAD INPUT		kW 0.801
CORE LOSS(Pfe)		kW 0.585
WINDAGE FRICTION LOSS(Pfw)		kW 0.113
STATOR WINDING LOSS(Pcu1)		kW 0.816
ROTOR WINDING LOSS(Pcu2)		kW 0.533
STRAY LOAD LOSS(Ps)		kW 0.121
FULL LOAD CURRENT		AMP 40.38
LOCKED ROTOR CURRENT		AMP 258.79
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 6.4
LOCKED ROTOR INPUT @ FULL LOAD		kW 86.07
FULL LOAD TORQUE		N.m 215.23
LOCKED ROTOR TORQUE		N.m 560.35
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.60
PULL OUT TORQUE		N.m 585.1
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.72
PULL UP TORQUE		N.m 387.22
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.80
EFFICIENCY @ FULL LOAD		% 91.00
POWER FACTOR @ FULL LOAD		0.864
FULL LOAD SLIP		% 2.342
FULL LOAD SPEED		r/min 977
STATOR WINDING TEMPERATURE RISE	30 SECS	K 66.5
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C 80.1
TEMPERATURE ON LEADS BY PT100		Deg. C 65.3
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C 60.9
AMBIENT TEMPERATURE OF TESTING		Deg. C 28.7
SOUND PRESSURE LEVEL		dB(A) 66
VIBRATION		mm/s 1.6
MOMENT OF INERTIA		kgm2 0.3600
WEIGHT		kg 250

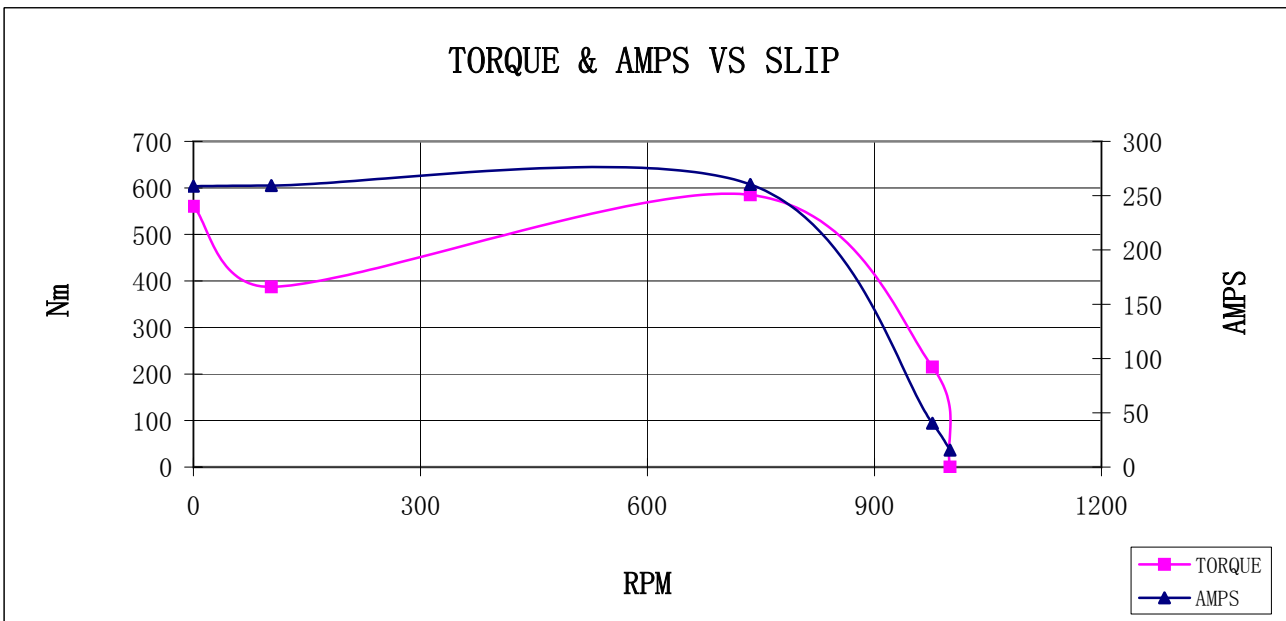
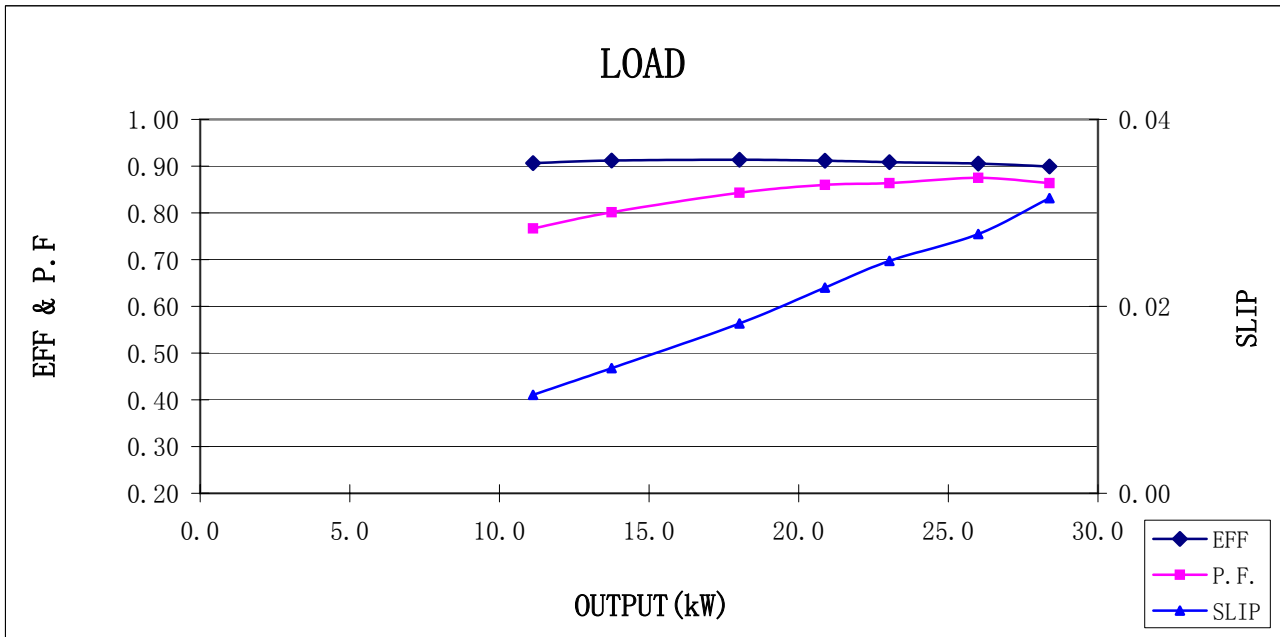
The data above is calculated as per IEC 34-2,all data at nominal Volts

VALIADIS S.A. K200L-6 22 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE	2003.09.07	REV
	DRAWN		DOCUMENT NO.
	APPRVD		
	CHECKED		

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC TYPE	22 KW	977 RPM
K200L-6 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
91.0 EFFICIENCY	40.4 AMPS	55 IP	IC411 IC
6 POLE	S1 DUTY	0.864 PF	N/A EFF2
VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION



VALIADIS S.A.	SCALE	N/A	
	DATE	2003.09.07	REV
K200L-6 22 kW 400 VOLTS 50 Hz	DRAWN		DOCUMENT NO.
	APPRVD		
	CHECKED		

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA

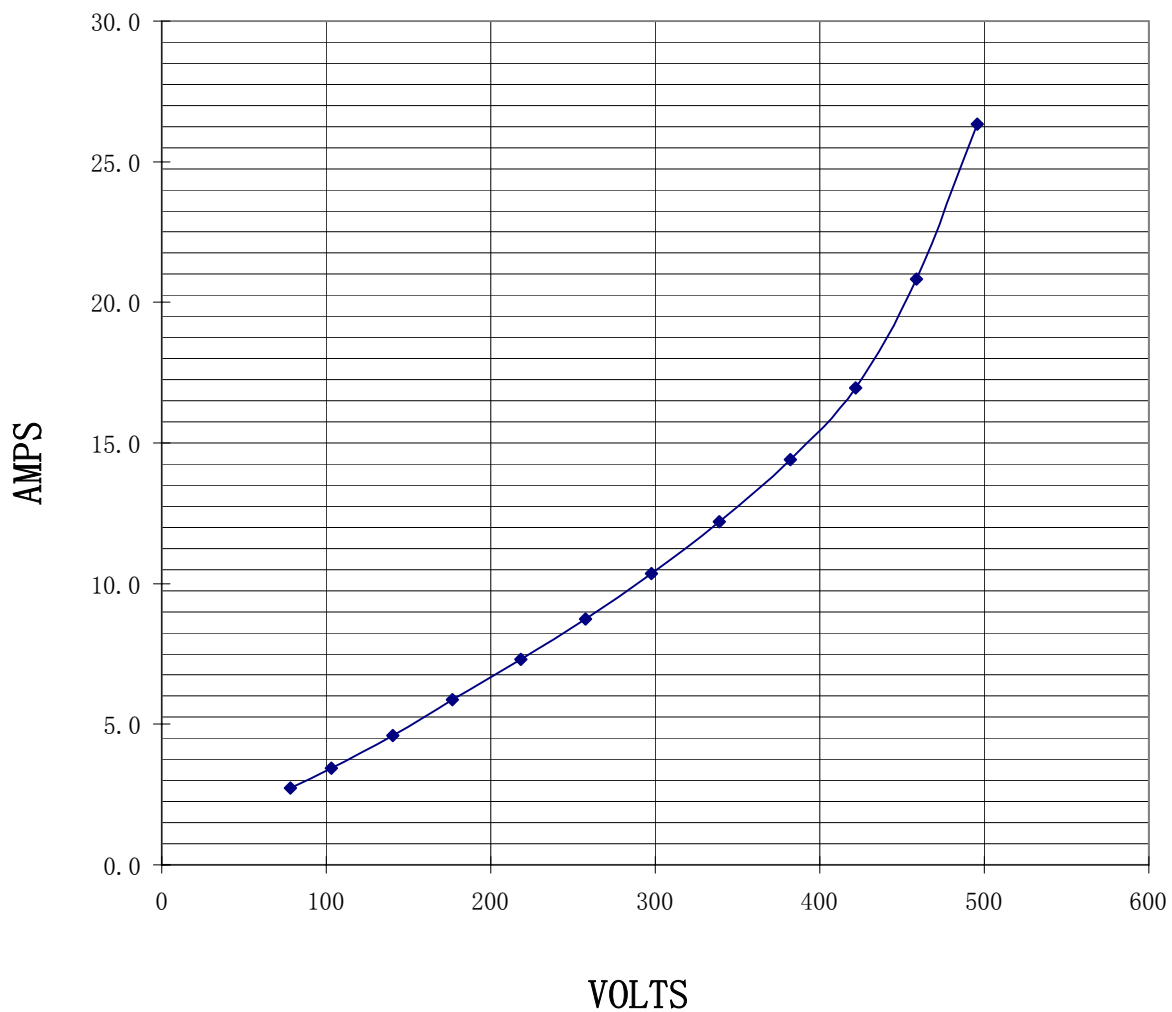
K200L-6 FRAME
 91.0 EFFICIENCY
 6 POLE
 VALIADIS MANUFACTURER

IEC TYPE
 3 PHASE
 40.4 AMPS
 S1 DUTY
 SERIAL NO.

22 KW
 400 VOLTS
 55 IP
 0.864 PF
 F INS.CLASS

977 RPM
 50 HZ / CYCLES
 IC411 IC
 N/A EFF2
 DELTA CONNECTION

MAGNETIZATION CURVE - NO LOAD



VALIADIS S.A. K200L-6 22 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE	2003.09.07	REV
	DRAWN		DOCUMENT NO.
	APPRVD		
CHECKED			