VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC	**TYPE**	55	**KW**	2975	**RPM**
K250M-2	**FRAME**	3	**PHASE**	400	**VOLTS**	50	**HZ / CYCLES**
93.5	**EFFICIENCY**	96.6	**AMPS**	55	**IP**	IC411	**IC**
2	**POLE**	S1	**DUTY**	0.879	**PF**	N/A	**EFF2**
VALIADIS	**MANUFACTURER**		**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	85.47	91.27	92.98	93.48	93.45	93.27	
PF	0.144	0.664	0.850	0.889	0.879	0.865	0.840	0.439
RPM	3000	2996	2990	2983	2975	2971	2963	0
SLIP	0.00%	0.15%	0.35%	0.57%	0.84%	0.98%	1.23%	100.00%
AMPS	21.54	34.95	51.17	72.03	96.57	108.01	126.69	705.6
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	43.9	87.9	132.1	176.6	194.6	221.7	421.7
KW INPUT	2.146	16.09	30.13	44.37	58.83	64.74	73.71	214.77
KW OUTPUT	0	13.75	27.50	41.25	55.00	60.50	68.75	

LOSSES(kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.123	0.263	0.521	0.937	1.17	1.61
STATOR LOSS %	0.76%	0.87%	1.17%	1.59%	1.81%	2.19%
ROTOR LOSS Pcu2	0.022	0.100	0.246	0.478	0.61	0.87
ROTOR LOSS %	0.14%	0.33%	0.55%	0.81%	0.95%	1.19%
CORE LOSS Pfe	1.099	1.099	1.099	1.099	1.099	1.099
CORE LOSS %	6.83%	3.65%	2.48%	1.87%	1.70%	1.49%
WINDAGE/FRICTION Pfw	1.011	1.011	1.011	1.011	1.011	1.011
WINDAGE/FRICTION %	6.29%	3.36%	2.28%	1.72%	1.56%	1.37%
STRAY LOAD LOSS Ps	0.080	0.151	0.222	0.294	0.324	0.369
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	0.05378	OHMS @	26	DEG.C.	BETWEEN STATOR LEADS	
STATOR RESISTANCE ADJUSTED	0.067	OHMS @	90	DEG.C.	BETWEEN STATOR LEADS	
STATOR RESISTANCE HOT	0.070	OHMS	after test of	temp rise	BETWEEN STATOR LEADS	
WINDING TEMPERATURE RISE	76.9	DEG.C.	at full load steady state at		90	SECS
WINDING TEMPERATURE RISE	77.8	DEG.C.	at full load steady state at		0	SECS
PT100 TEMPERATURE OF DE WINDING	106.8	DEG.C.	at full load steady state at ambient		28.5	DEG.C.
PT100 TEMPERATURE OF NDE WINDING	NO	DEG.C.	at full load steady state at ambient		28.5	DEG.C.
PT100 TEMPERATURE DE BEARING	89.5	DEG.C.	at full load steady state at ambient		28.5	DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A	DEG.C.	at full load steady state at ambient		28.5	DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	52.4	DEG.C.	at full load steady state at ambient		28.5	DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	61.4	DEG.C.	at full load steady state at ambient		28.5	DEG.C.

OTHER

NOISE LEVEL(Lp)	91	dB(A) @ 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	2.2	mm/sec on no load	D.E. BEARING	N314	
WEIGHT	403	kg	N.D.E.BEARING	313-ZV2	
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.	**SCALE**	N/A		
	DATE	2003.08.12	**REV**	
K250M-2	**DRAWN**		**DOCUMENT NO.**	
55 kW	**APPRVD**			
400 VOLTS 50 Hz	**CHECKED**			

RESULT SUMMARY

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2	**POLE**	S1	**DUTY**	0.879	**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	0.066967
NO LOAD CURRENT			AMP	21.54
NO LOAD INPUT			kW	2.146
CORE LOSS(Pfe)			kW	1.099
WINDAGE FRICTION LOSS(Pfw)			kW	1.011
STATOR WINDING LOSS(Pcu1)			kW	0.937
ROTOR WINDING LOSS(Pcu2)			kW	0.478
STRAY LOAD LOSS(Ps)			kW	0.294
FULL LOAD CURRENT			AMP	96.57
LOCKED ROTOR CURRENT			AMP	705.58
LOCKED ROTOR CURRENT/FULL LOAD CURRENT			P.U.	7.3
LOCKED ROTOR INPUT @ FULL LOAD			kW	214.77
FULL LOAD TORQUE			N.m	176.65
LOCKED ROTOR TORQUE			N.m	421.67
LOCKED ROTOR TORQUE/FULL LOAD TORQUE			P.U.	2.39
PULL OUT TORQUE			N.m	531.6
PULL OUT TORQUE/FULL LOAD TORQUE			P.U.	3.01
PULL UP TORQUE			N.m	328.40
PULL UP TORQUE/FULL LOAD TORQUE			P.U.	1.86
EFFICIENCY @ FULL LOAD			%	93.48
POWER FACTOR @ FULL LOAD				0.879
FULL LOAD SLIP			%	0.842
FULL LOAD SPEED			r/min	2975
STATOR WINDING TEMPERATURE RISE	90	SECS	K	76.9
D.E. BEARINGS TEMPERATURE BY PT100			Deg. C	89.5
TEMPERATURE ON LEADS BY PT100			Deg. C	61.4
TEMPERATURE IN TERMINAL BOX BY PT100			Deg. C	52.4
AMBIENT TEMPERATURE OF TESTING			Deg. C	28.5
SOUND PRESSURE LEVEL			dB(A)	91
VIBRATION			mm/s	2.2
MOMENT OF INERTIA			kgm2	0.3120
WEIGHT			kg	403

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

VALIADIS S.A.	**SCALE**	N/A		
	DATE	2003.08.12	**REV**	
K250M-2	**DRAWN**		**DOCUMENT NO.**	
55 kW	**APPRVD**			
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VALIADIS S.A.

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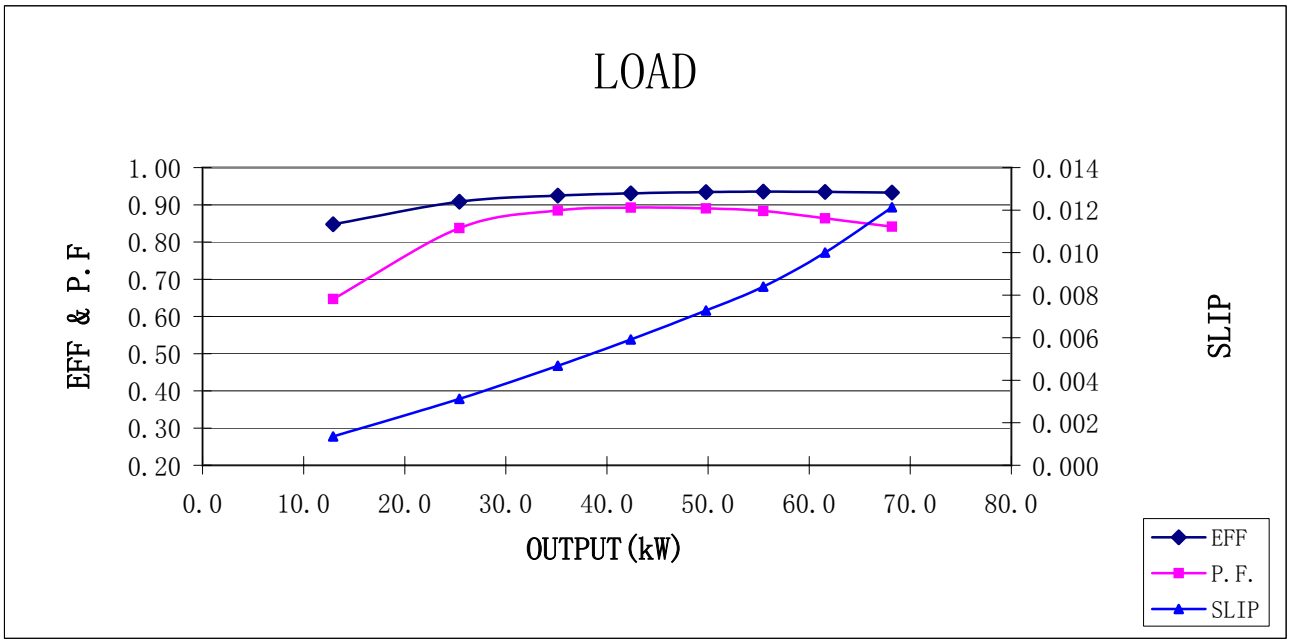
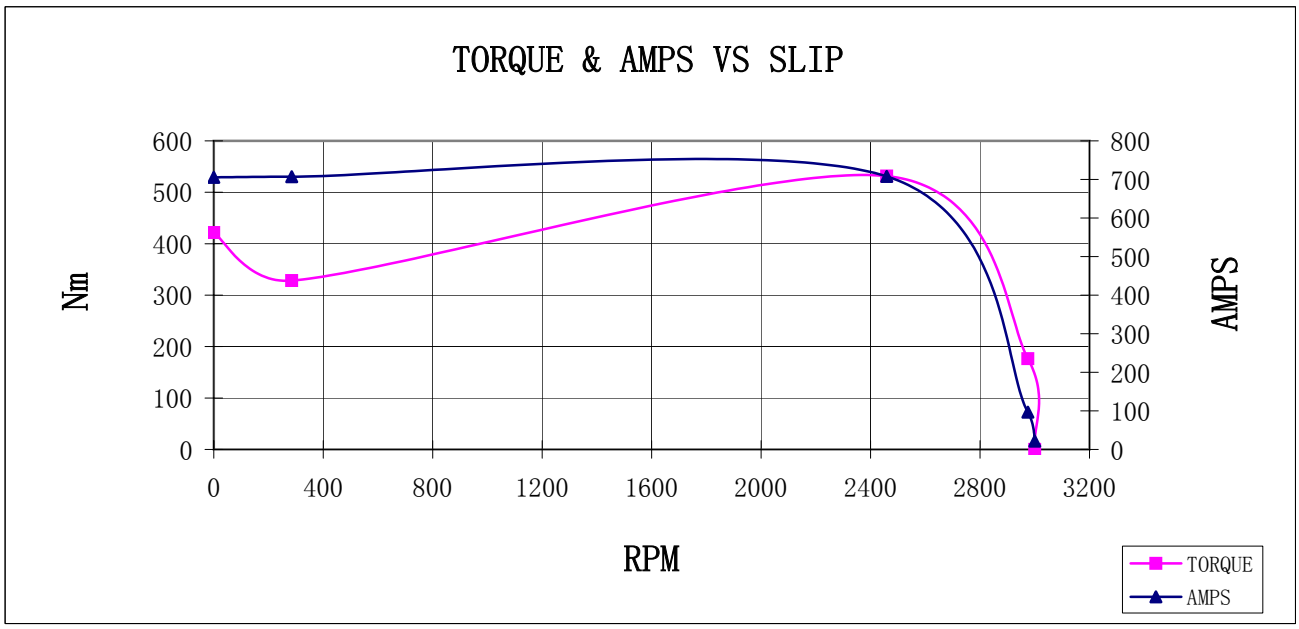
VALIADIS **MANUFACTURER**	**SERIAL NO.**	F **INS.CLASS**	DELTA **CONNECTION**





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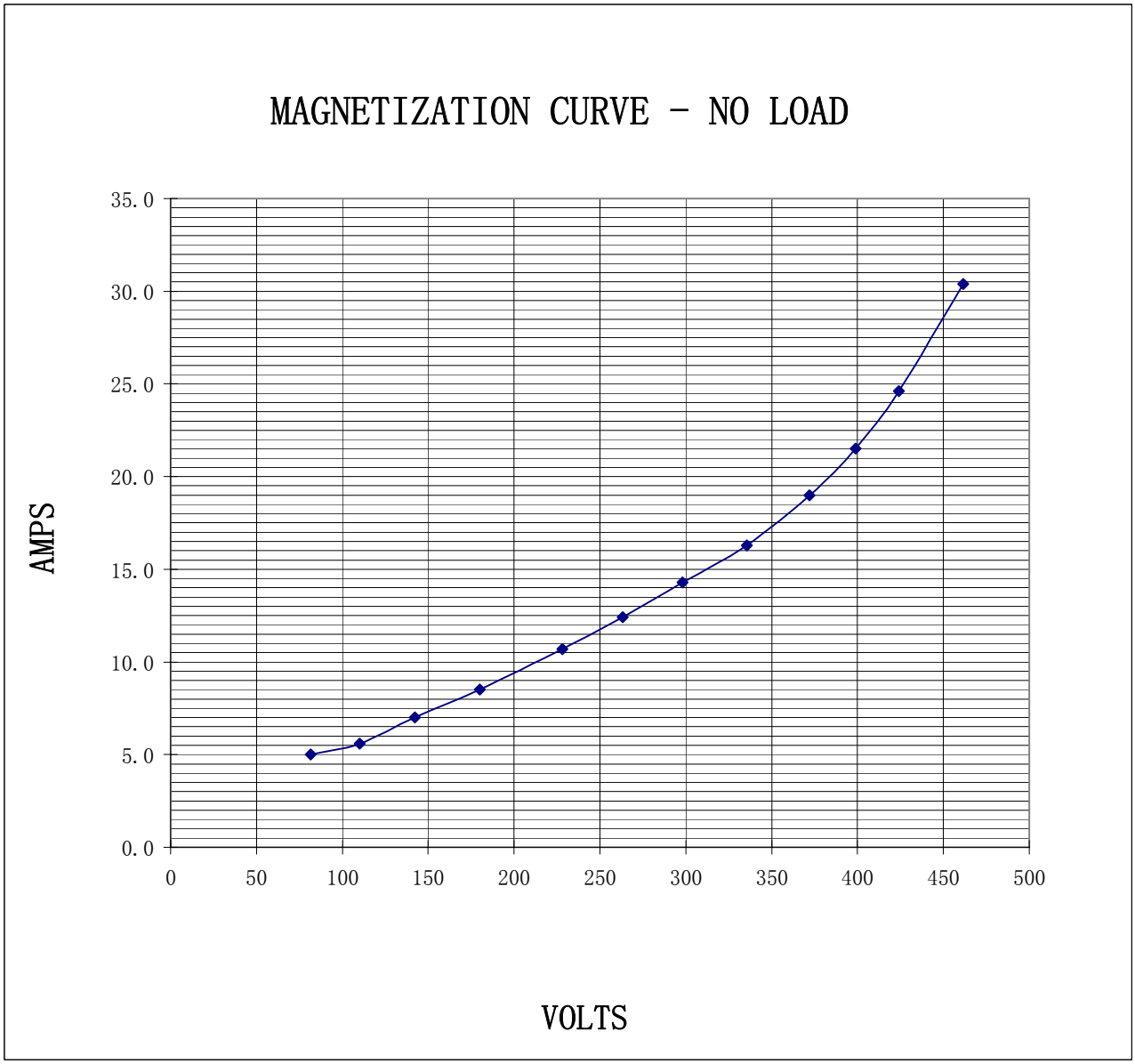

VALIADIS S.A.		**SCALE**	N/A		
		DATE	2003.08.12	**REV**	
K250M-2		**DRAWN**		**DOCUMENT NO.**	
55 **kW**		**APPRVD**			
400 VOLTS	**50 Hz**	**CHECKED**			