VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC	**TYPE**	37	**KW**	979	**RPM**
K250M-6	**FRAME**	3	**PHASE**	400	**VOLTS**	50	**HZ / CYCLES**
92.6	**EFFICIENCY**	64.1	**AMPS**	55	**IP**	IC411	**IC**
6	**POLE**	S1	**DUTY**	0.900	**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	89.08	92.35	92.98	92.61	92.31	91.76	
PF	0.078	0.655	0.828	0.887	0.900	0.897	0.887	0.411
RPM	1000	992	988	984	979	977	974	0
SLIP	0.00%	0.82%	1.22%	1.64%	2.10%	2.31%	2.59%	100.00%
AMPS	16.38	22.88	34.92	48.57	64.06	70.99	82.02	385.0
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	89.1	178.9	269.6	361.1	398.1	453.6	777.5
KW INPUT	0.882	10.38	20.03	29.84	39.95	44.09	50.40	109.65
KW OUTPUT	0	9.25	18.50	27.75	37.00	40.70	46.25	

LOSSES(kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.142	0.331	0.640	1.113	1.37	1.82
STATOR LOSS %	1.37%	1.65%	2.14%	2.79%	3.10%	3.62%
ROTOR LOSS Pcu2	0.079	0.233	0.469	0.802	0.97	1.24
ROTOR LOSS %	0.76%	1.16%	1.57%	2.01%	2.21%	2.46%
CORE LOSS Pfe	0.661	0.661	0.661	0.661	0.661	0.661
CORE LOSS %	6.36%	3.30%	2.21%	1.65%	1.50%	1.31%
WINDAGE/FRICTION Pfw	0.157	0.157	0.157	0.157	0.157	0.157
WINDAGE/FRICTION %	1.51%	0.78%	0.53%	0.39%	0.36%	0.31%
STRAY LOAD LOSS Ps	0.052	0.100	0.149	0.200	0.220	0.252
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	0.1480333	OHMS @	31.1	DEG.C.	BETWEEN STATOR LEADS	
STATOR RESISTANCE ADJUSTED	0.181	OHMS @	90	DEG.C.	BETWEEN STATOR LEADS	
STATOR RESISTANCE HOT	0.178	OHMS	after test of	temp rise	BETWEEN STATOR LEADS	
WINDING TEMPERATURE RISE	53.4	DEG.C.	at full load steady state at		30	SECS
WINDING TEMPERATURE RISE	55.5	DEG.C.	at full load steady state at		0	SECS
PT100 TEMPERATURE OF DE WINDING	92.8	DEG.C.	at full load steady state at ambient		27.3	DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A	DEG.C.	at full load steady state at ambient		27.3	DEG.C.
PT100 TEMPERATURE DE BEARING	73.8	DEG.C.	at full load steady state at ambient		27.3	DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A	DEG.C.	at full load steady state at ambient		27.3	DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	50.6	DEG.C.	at full load steady state at ambient		27.3	DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	58.6	DEG.C.	at full load steady state at ambient		27.3	DEG.C.

OTHER

NOISE LEVEL(Lp)	72	dB(A) @ 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	1.6	mm/sec on no load	D.E. BEARING	6314 C3	
WEIGHT	408	kg	N.D.E.BEARING	6314 C3	
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.	**SCALE**	N/A		
	DATE	2003.09.06	**REV**	
K250M-6	**DRAWN**		**DOCUMENT NO.**	
37 kW	**APPRVD**			
400 VOLTS 50 Hz	**CHECKED**			

RESULT SUMMARY

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6	**POLE**	S1	**DUTY**	0.900	**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	0.181
NO LOAD CURRENT			AMP	16.38
NO LOAD INPUT			kW	0.882
CORE LOSS(Pfe)			kW	0.661
WINDAGE FRICTION LOSS(Pfw)			kW	0.157
STATOR WINDING LOSS(Pcu1)			kW	1.113
ROTOR WINDING LOSS(Pcu2)			kW	0.802
STRAY LOAD LOSS(Ps)			kW	0.200
FULL LOAD CURRENT			AMP	64.06
LOCKED ROTOR CURRENT			AMP	384.97
LOCKED ROTOR CURRENT/FULL LOAD CURRENT			P.U.	6.0
LOCKED ROTOR INPUT @ FULL LOAD			kW	109.65
FULL LOAD TORQUE			N.m	361.09
LOCKED ROTOR TORQUE			N.m	777.49
LOCKED ROTOR TORQUE/FULL LOAD TORQUE			P.U.	2.15
PULL OUT TORQUE			N.m	866.6
PULL OUT TORQUE/FULL LOAD TORQUE			P.U.	2.40
PULL UP TORQUE			N.m	606.32
PULL UP TORQUE/FULL LOAD TORQUE			P.U.	1.68
EFFICIENCY @ FULL LOAD			%	92.61
POWER FACTOR @ FULL LOAD				0.900
FULL LOAD SLIP			%	2.100
FULL LOAD SPEED			r/min	979
STATOR WINDING TEMPERATURE RISE	30	SECS	K	53.4
D.E. BEARINGS TEMPERATURE BY PT100			Deg. C	73.8
TEMPERATURE ON LEADS BY PT100			Deg. C	58.6
TEMPERATURE IN TERMINAL BOX BY PT100			Deg. C	50.6
AMBIENT TEMPERATURE OF TESTING			Deg. C	27.3
SOUND PRESSURE LEVEL			dB(A)	72
VIBRATION			mm/s	1.6
MOMENT OF INERTIA			kgm2	0.8340
WEIGHT			kg	408

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

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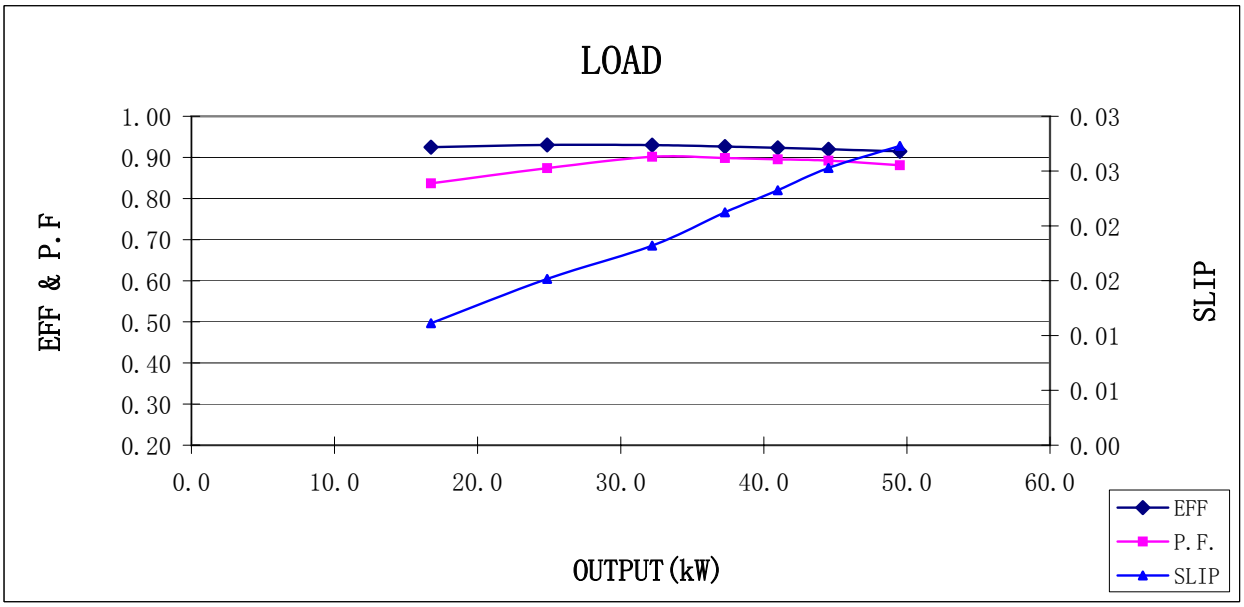

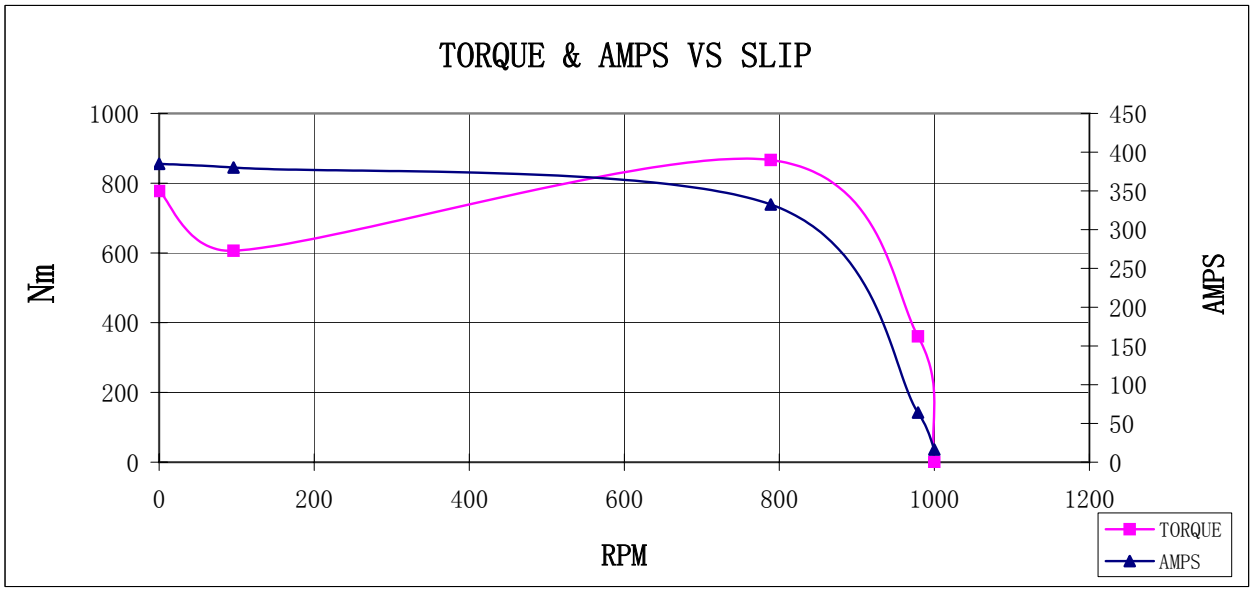

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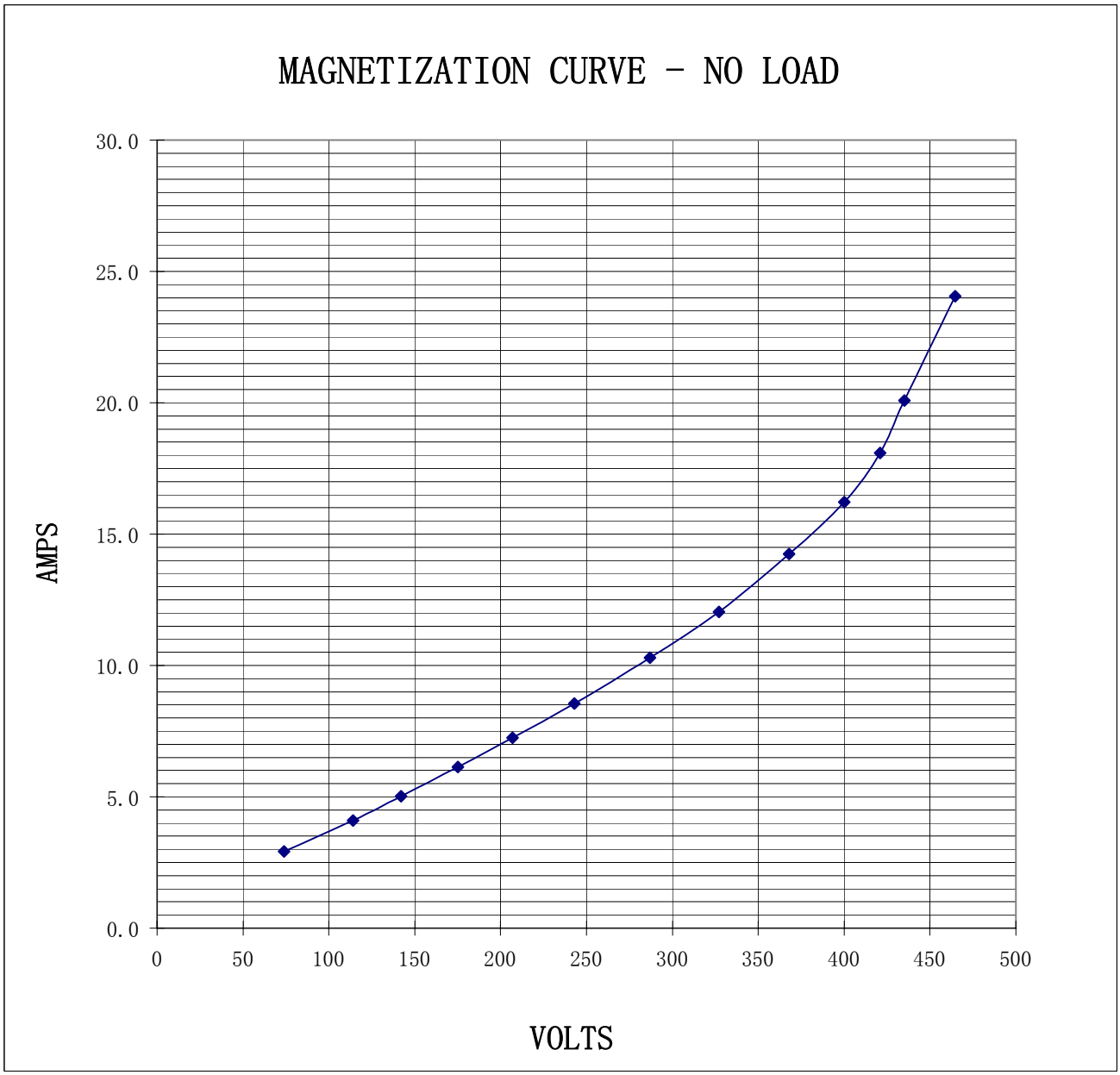

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