VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC	**TYPE**	132	**KW**	1486	**RPM**
K-315M-4	**FRAME**	3	**PHASE**	400	**VOLTS**	50	**HZ / CYCLES**
95.2	**EFFICIENCY**	225.0	**AMPS**	55	**IP**	IC411	**IC**
4	**POLE**	S1	**DUTY**	0.889	**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	90.48	94.02	95.05	95.21	95.10	94.83	
PF	0.075	0.661	0.811	0.869	0.889	0.888	0.884	0.338
RPM	1500	1498	1495	1491	1486	1483	1478	0
SLIP	0.00%	0.11%	0.32%	0.57%	0.93%	1.13%	1.50%	100.00%
AMPS	62.25	79.66	125.00	172.99	225.01	248.19	284.14	1277.1
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	210.4	421.7	634.2	848.7	935.4	1066.9	1595.8
KW INPUT	3.230	36.47	70.20	104.16	138.64	152.68	173.99	298.89
KW OUTPUT	0	33.00	66.00	99.00	132.00	145.20	165.00	

LOSSES(kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.193	0.475	0.909	1.538	1.87	2.45
STATOR LOSS %	0.53%	0.68%	0.87%	1.11%	1.23%	1.41%
ROTOR LOSS Pcu2	0.037	0.219	0.580	1.258	1.68	2.54
ROTOR LOSS %	0.10%	0.31%	0.56%	0.91%	1.10%	1.46%
CORE LOSS Pfe	1.836	1.836	1.836	1.836	1.836	1.836
CORE LOSS %	5.03%	2.62%	1.76%	1.32%	1.20%	1.06%
WINDAGE/FRICTION Pfw	1.283	1.283	1.283	1.283	1.283	1.283
WINDAGE/FRICTION %	3.52%	1.83%	1.23%	0.93%	0.84%	0.74%
STRAY LOAD LOSS Ps	0.182	0.351	0.521	0.693	0.763	0.870
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	0.016406	OHMS @	28.2	DEG.C.	BETWEEN STATOR LEADS	
STATOR RESISTANCE ADJUSTED	0.020	OHMS @	90	DEG.C.	BETWEEN STATOR LEADS	
STATOR RESISTANCE HOT	0.020	OHMS	after test of	temp rise	BETWEEN STATOR LEADS	
WINDING TEMPERATURE RISE	60.1	DEG.C.	at full load steady state at		90	SECS
WINDING TEMPERATURE RISE	64.5	DEG.C.	at full load steady state at		0	SECS
PT100 TEMPERATURE OF DE WINDING	105.5	DEG.C.	at full load steady state at ambient		28.6	DEG.C.
PT100 TEMPERATURE OF NDE WINDING	NO	DEG.C.	at full load steady state at ambient		28.6	DEG.C.
PT100 TEMPERATURE DE BEARING	76.1	DEG.C.	at full load steady state at ambient		28.6	DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A	DEG.C.	at full load steady state at ambient		28.6	DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	47.2	DEG.C.	at full load steady state at ambient		28.6	DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	58.5	DEG.C.	at full load steady state at ambient		28.6	DEG.C.

OTHER

NOISE LEVEL(Lp)	79	dB(A) @ 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	2.5	mm/sec on no load	D.E. BEARING	6319 C3	
WEIGHT	1100	kg	N.D.E.BEARING	6319 C3	
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.	**SCALE**	N/A		
	DATE		**REV**	
K315M-4	**DRAWN**		**DOCUMENT NO.**	
132 kW	**APPRVD**			
400 VOLTS 50 Hz	**CHECKED**			

RESULT SUMMARY

VALIADIS S.A.

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4	**POLE**	S1	**DUTY**	0.889	**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	0.020258
NO LOAD CURRENT			AMP	62.25
NO LOAD INPUT			kW	3.230
CORE LOSS(Pfe)			kW	1.836
WINDAGE FRICTION LOSS(Pfw)			kW	1.283
STATOR WINDING LOSS(Pcu1)			kW	1.538
ROTOR WINDING LOSS(Pcu2)			kW	1.258
STRAY LOAD LOSS(Ps)			kW	0.693
FULL LOAD CURRENT			AMP	225.01
LOCKED ROTOR CURRENT			AMP	1277.15
LOCKED ROTOR CURRENT/FULL LOAD CURRENT			P.U.	5.7
LOCKED ROTOR INPUT @ FULL LOAD			kW	298.89
FULL LOAD TORQUE			N.m	848.66
LOCKED ROTOR TORQUE			N.m	1595.80
LOCKED ROTOR TORQUE/FULL LOAD TORQUE			P.U.	1.88
PULL OUT TORQUE			N.m	2176.6
PULL OUT TORQUE/FULL LOAD TORQUE			P.U.	2.56
PULL UP TORQUE			N.m	1492.88
PULL UP TORQUE/FULL LOAD TORQUE			P.U.	1.76
EFFICIENCY @ FULL LOAD			%	95.21
POWER FACTOR @ FULL LOAD				0.889
FULL LOAD SLIP			%	0.930
FULL LOAD SPEED			r/min	1486
STATOR WINDING TEMPERATURE RISE	90	SECS	K	60.1
D.E. BEARINGS TEMPERATURE BY PT100			Deg. C	76.1
TEMPERATURE ON LEADS BY PT100			Deg. C	58.5
TEMPERATURE IN TERMINAL BOX BY PT100			Deg. C	47.2
AMBIENT TEMPERATURE OF TESTING			Deg. C	28.6
SOUND PRESSURE LEVEL			dB(A)	79
VIBRATION			mm/s	2.5
MOMENT OF INERTIA			kgm2	3.2900
WEIGHT			kg	1100

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

VALIADIS S.A.	**SCALE**	N/A		
	DATE		**REV**	
K315M-4	**DRAWN**		**DOCUMENT NO.**	
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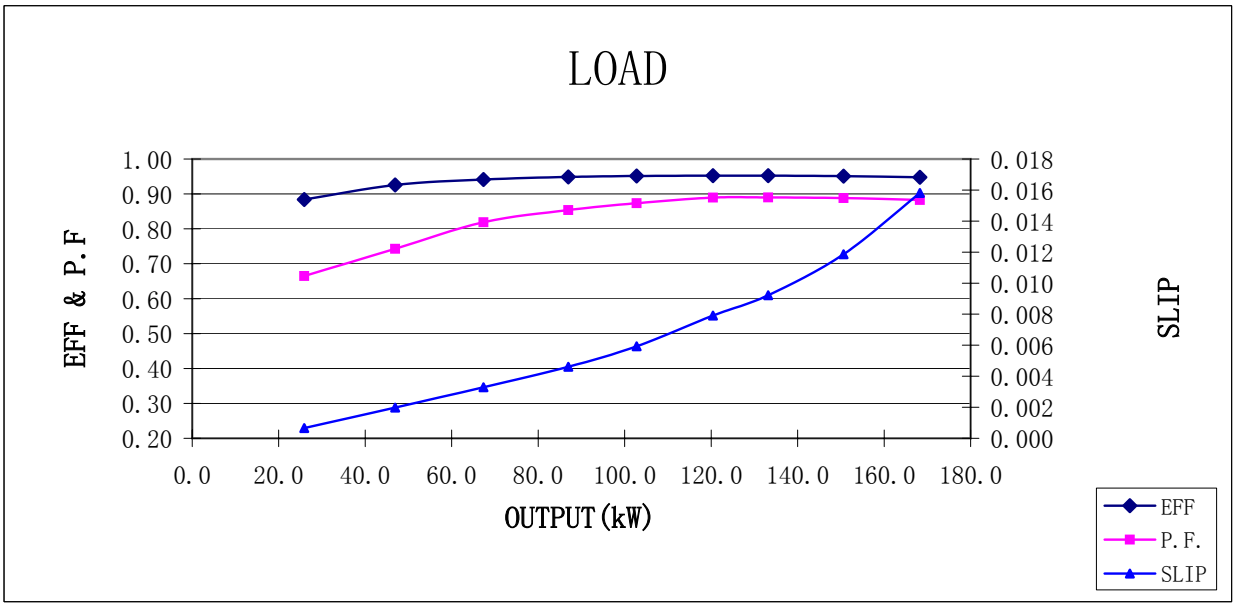

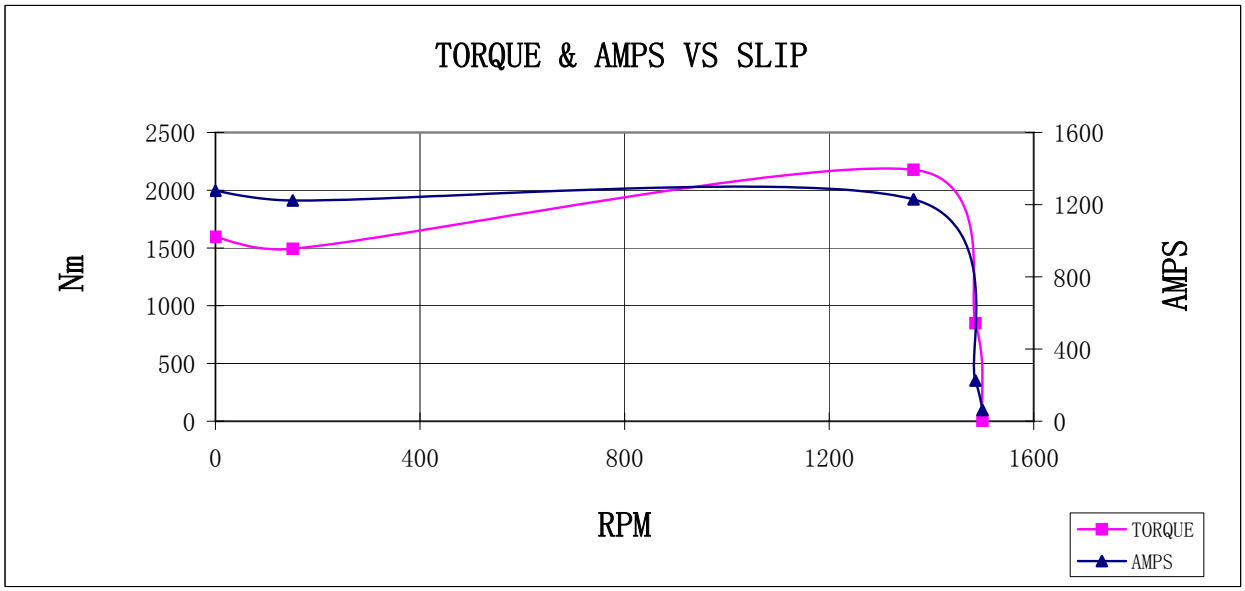

VALIADIS S.A.	**SCALE**	N/A		
	DATE		**REV**	
K315M-4	**DRAWN**		**DOCUMENT NO.**	
132 kW	**APPRVD**			
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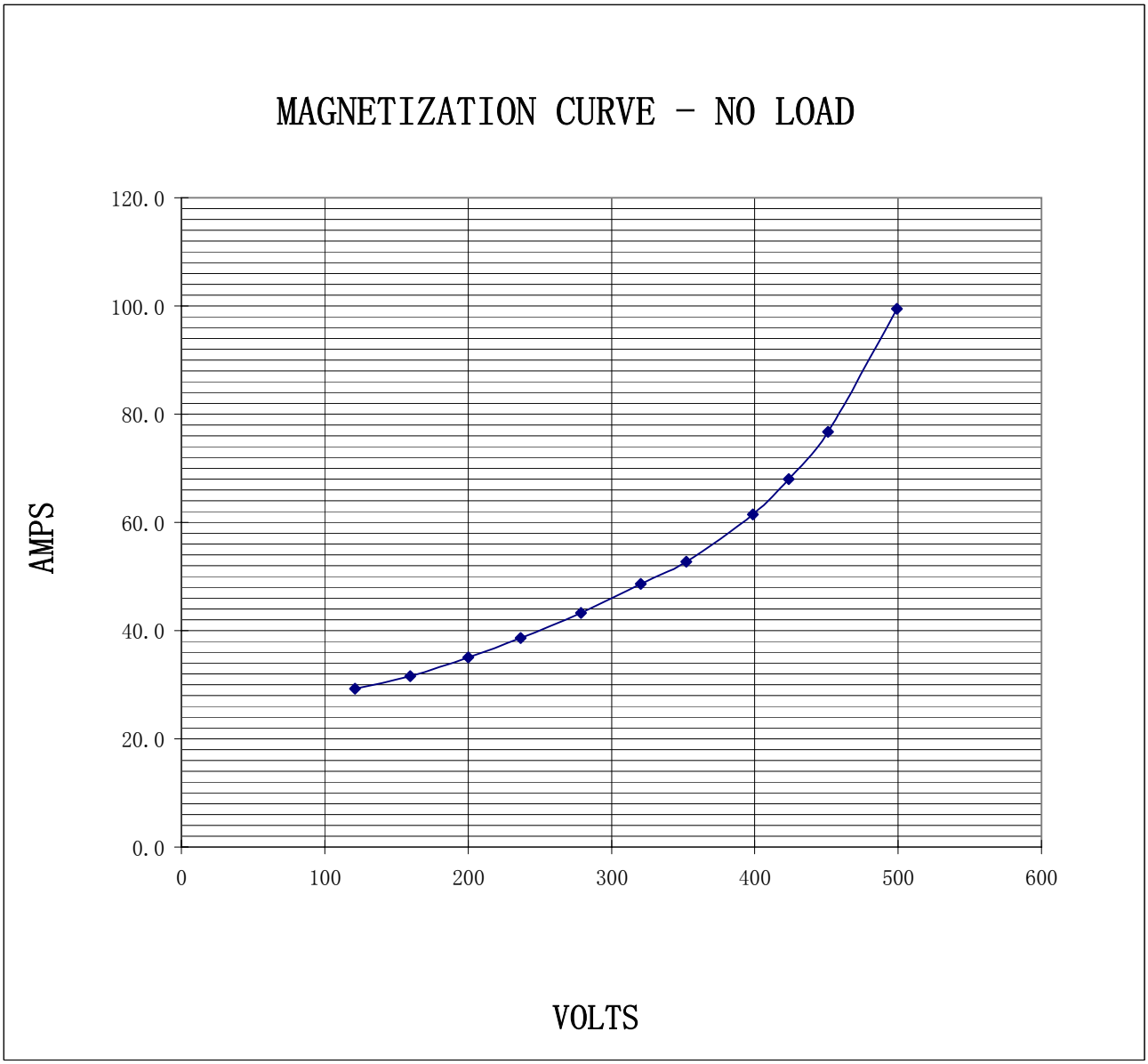

VALIADIS S.A.	**SCALE**	N/A		
	DATE		**REV**	
K315M-4	**DRAWN**		**DOCUMENT NO.**	
132 kW	**APPRVD**			
400 VOLTS 50 Hz	**CHECKED**			