

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		200 KW		1481 RPM	
K315L-4 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES	
94.8 EFFICIENCY		341.1 AMPS		55 IP		IC411 IC	
4 POLE		S1 DUTY		0.893 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	90.29	93.78	94.65	94.76	94.65	94.50	
PF	0.079	0.688	0.844	0.885	0.893	0.887	0.878	0.408
RPM	1500	1495	1491	1486	1481	1478	1475	0
SLIP	0.00%	0.32%	0.62%	0.95%	1.28%	1.43%	1.66%	100.00%
AMPS	86.36	116.20	182.37	258.48	341.13	378.05	434.77	1930.7
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	319.5	640.9	964.6	1290.4	1421.7	1619.3	2695.9
KW INPUT	4.740	55.38	106.63	158.48	211.07	232.43	264.55	546.03
KW OUTPUT	0	50.00	100.00	150.00	200.00	220.00	250.00	

LOSSES(kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.321	0.791	1.590	2.769	3.40	4.50
STATOR LOSS %	0.58%	0.74%	1.00%	1.31%	1.46%	1.70%
ROTOR LOSS Pcu2	0.168	0.638	1.468	2.641	3.25	4.29
ROTOR LOSS %	0.30%	0.60%	0.93%	1.25%	1.40%	1.62%
CORE LOSS Pfe	2.375	2.375	2.375	2.375	2.375	2.375
CORE LOSS %	4.29%	2.23%	1.50%	1.13%	1.02%	0.90%
WINDAGE/FRICTION Pfw	2.207	2.207	2.207	2.207	2.207	2.207
WINDAGE/FRICTION %	3.98%	2.07%	1.39%	1.05%	0.95%	0.83%
STRAY LOAD LOSS Ps	0.277	0.533	0.792	1.055	1.162	1.323
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	0.0123767 OHMS @	18.6 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.016 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.016 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	70.0 DEG.C.	at full load steady state at	90 SECS
WINDING TEMPERATURE RISE	76.1 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	107.6 DEG.C.	at full load steady state at ambient	25.1 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.	at full load steady state at ambient	25.1 DEG.C.
PT100 TEMPERATURE DE BEARING	84 DEG.C.	at full load steady state at ambient	25.1 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	25.1 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	41.2 DEG.C.	at full load steady state at ambient	25.1 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	70.5 DEG.C.	at full load steady state at ambient	25.1 DEG.C.

OTHER			
NOISE LEVEL(Lp)	82 dB(A) @ 1meter	INSULATION RESISTANCE	500 MEG.OHMS
VIBRATION LEVEL	2.3 mm/sec on no load	D.E. BEARING	6319 C3
WEIGHT	1270 kg	N.D.E.BEARING	6319 C3 7319 (V1)
H-POT TEST VOLTS	1800 VOLTS		

VALIADIS S.A. K315L-4 200 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE		REV
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RESULT SUMMARY

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MAJOR CONTENTS	UNIT	TEST VALUE	
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM	0.01586
NO LOAD CURRENT		AMP	86.36
NO LOAD INPUT		kW	4.740
CORE LOSS(Pfe)		kW	2.375
WINDAGE FRICTION LOSS(Pfw)		kW	2.207
STATOR WINDING LOSS(Pcu1)		kW	2.769
ROTOR WINDING LOSS(Pcu2)		kW	2.641
STRAY LOAD LOSS(Ps)		kW	1.055
FULL LOAD CURRENT		AMP	341.13
LOCKED ROTOR CURRENT		AMP	1930.66
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U.	5.7
LOCKED ROTOR INPUT @ FULL LOAD		kW	546.03
FULL LOAD TORQUE		N.m	1290.43
LOCKED ROTOR TORQUE		N.m	2695.86
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U.	2.1
PULL OUT TORQUE		N.m	3442.4
PULL OUT TORQUE/FULL LOAD TORQUE		P.U.	2.7
PULL UP TORQUE		N.m	2308.70
PULL UP TORQUE/FULL LOAD TORQUE		P.U.	1.79
EFFICIENCY @ FULL LOAD		%	94.8
POWER FACTOR @ FULL LOAD			0.89
FULL LOAD SLIP		%	1.282
FULL LOAD SPEED		r/min	1481
STATOR WINDING TEMPERATURE RISE	90 SECS	K	70.0
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C	84.0
TEMPERATURE ON LEADS BY PT100		Deg. C	70.5
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C	41.2
TEMPERATURE OF DE WINDING BY PT100		Deg. C	107.6
AMBIENT TEMPERATURE OF TESTING		Deg. C	25.1
SOUND PRESSURE LEVEL		dB(A)	82
VIBRATION		mm/s	2.3
MOMENT OF INERTIA		kgm2	4.4900
WEIGHT		kg	1270

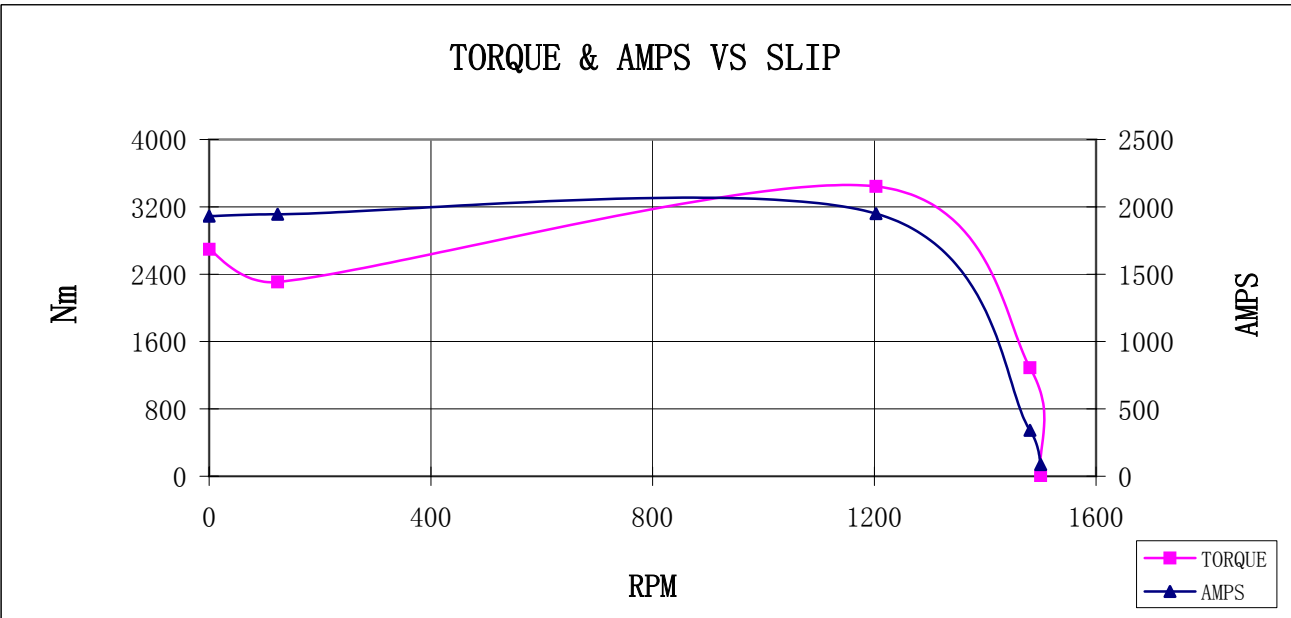
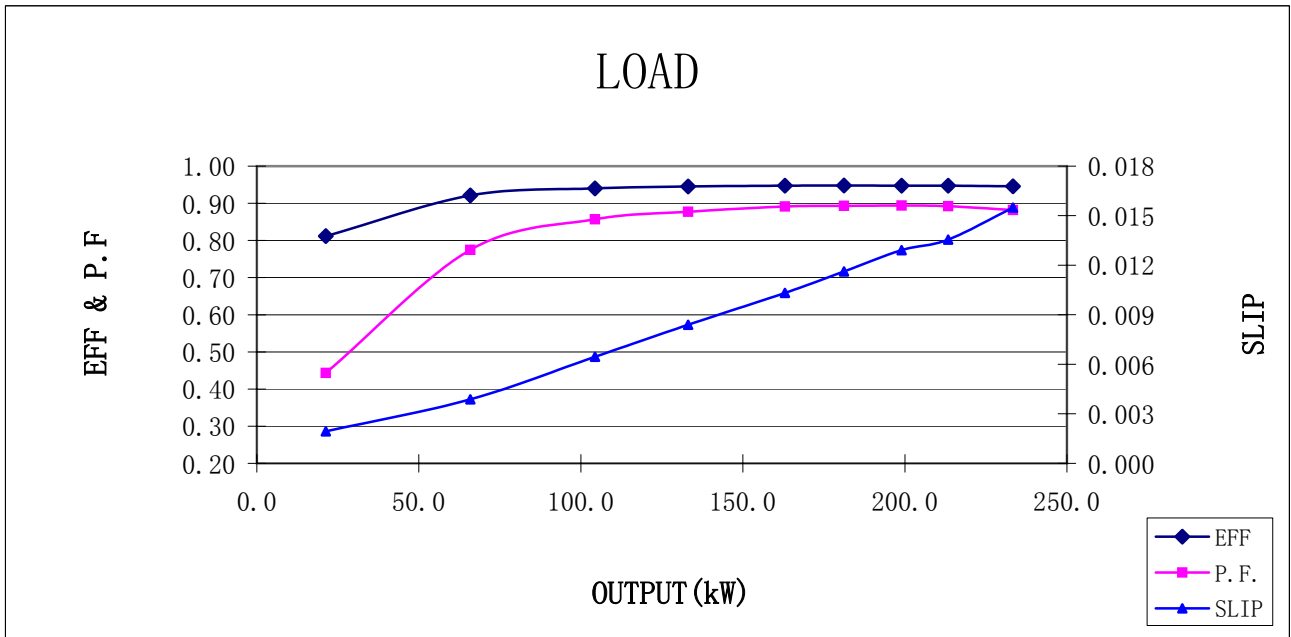
The data above is calculated as per IEC 34-2,all data at nominal Volts

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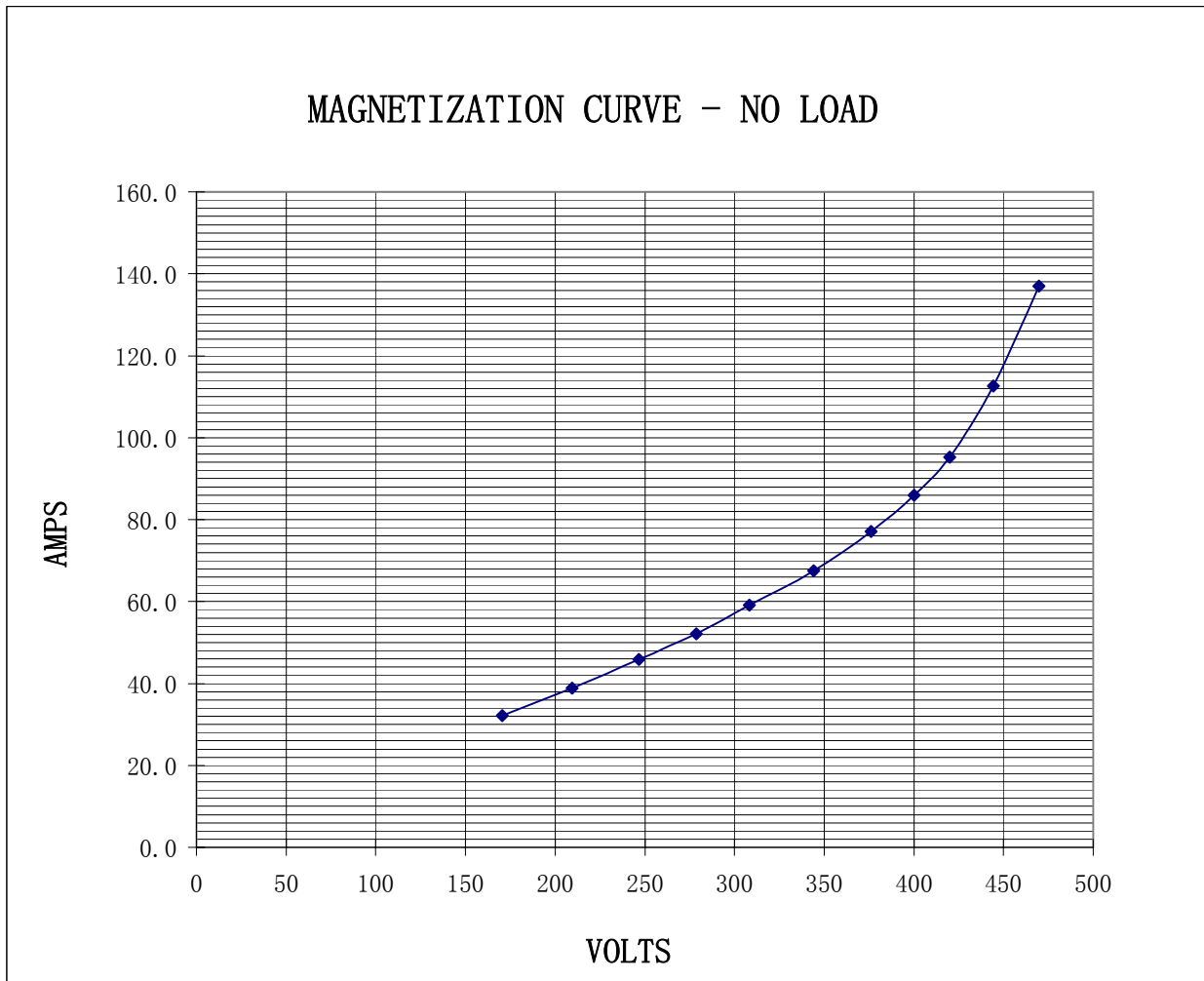
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MAGNETIZATION CURVE – NO LOAD



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