

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		315 KW		1490 RPM		
K355L-4 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES		
95.7 EFFICIENCY		524.7 AMPS		55 IP		IC411 IC		
4 POLE		S1 DUTY		0.905 PF		N/A EFF2		
VALIADIS MANUFACTURER		SERIAL NO.		F INS.CLASS		DELTA CONNECTION		
								LOCKED
TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125% LOAD	ROTOR
EFFICIENCY	0	91.44	94.69	95.50	95.71	95.69	95.65	
PF	0.078	0.636	0.818	0.883	0.905	0.906	0.907	0.280
RPM	1500	1497	1494	1492	1490	1489	1488	0
SLIP	0.00%	0.23%	0.38%	0.53%	0.68%	0.73%	0.81%	100.00%
AMPS	115.10	195.46	293.69	404.33	524.68	576.64	655.26	2800.6
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	502.8	1007.1	1512.8	2020.0	2223.3	2528.5	4259.5
KW INPUT	6.232	86.12	166.34	247.37	329.13	362.11	411.66	543.05
KW OUTPUT	0	78.75	157.50	236.25	315.00	346.50	393.75	
LOSSES(kw)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD		
STATOR LOSS Pcu1	0.587	1.326	2.513	4.232	5.11	6.60		
STATOR LOSS %	0.68%	0.80%	1.02%	1.29%	1.41%	1.60%		
ROTOR LOSS Pcu2	0.188	0.620	1.279	2.173	2.58	3.26		
ROTOR LOSS %	0.22%	0.37%	0.52%	0.66%	0.71%	0.79%		
CORE LOSS Pfe	3.975	3.975	3.975	3.975	3.975	3.975		
CORE LOSS %	4.62%	2.39%	1.61%	1.21%	1.10%	0.97%		
WINDAGE/FRICTION Pfw	2.067	2.067	2.067	2.067	2.067	2.067		
WINDAGE/FRICTION %	2.40%	1.24%	0.84%	0.63%	0.57%	0.50%		
STRAY LOAD LOSS Ps	0.431	0.832	1.237	1.646	1.811	2.058		
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	0.007883	OHMS @		15	DEG.C.		BETWEEN STATOR LEADS	
STATOR RESISTANCE ADJUSTED	0.010	OHMS @		90	DEG.C.		BETWEEN STATOR LEADS	
STATOR RESISTANCE HOT	0.010	OHMS		after test of temp rise		BETWEEN STATOR LEADS		
WINDING TEMPERATURE RISE	67.5	DEG.C.		at full load steady state at		120	SECS	
WINDING TEMPERATURE RISE	68.2	DEG.C.		at full load steady state at		0	SECS	
PT100 TEMPERATURE OF DE WINDING	84.2	DEG.C.		at full load steady state at ambient		16.3	DEG.C.	
PT100 TEMPERATURE OF NDE WINDING	N/A	DEG.C.		at full load steady state at ambient		16.3	DEG.C.	
PT100 TEMPERATURE DE BEARING	71	DEG.C.		at full load steady state at ambient		16.3	DEG.C.	
PT100 TEMPERATURE NDE BEARING	N/A	DEG.C.		at full load steady state at ambient		16.3	DEG.C.	
PT100 TEMPERATURE IN TERMINAL BOX	38.1	DEG.C.		at full load steady state at ambient		16.3	DEG.C.	
PT100 TEMPERATURE ON STATOR LEADS	47.3	DEG.C.		at full load steady state at ambient		16.3	DEG.C.	
OTHER								
NOISE LEVEL(Lp)	89	dB(A) @ 1meter		INSULATION RESISTANCE		500	MEG.OHMS	
VIBRATION LEVEL	2.4	mm/sec on no load		D.E. BEARING		6322		
WEIGHT	1850	kg		N.D.E.BEARING		6322		
H-POT TEST VOLTS	1800	VOLTS						
VALIADIS S.A. K355L-4 315 KW 400 VOLTS 50 Hz				SCALE	N/A			
				DATE	2004.04		REV	
				DRAWN			DOCUMENT NO.	
				APPRVD				
				CHECKED				

RESULT SUMMARY

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VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE	
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM	0.010248
NO LOAD CURRENT		AMP	115.10
NO LOAD INPUT		kW	6.232
CORE LOSS(Pfe)		kW	3.975
WINDAGE FRICTION LOSS(Pfw)		kW	2.067
STATOR WINDING LOSS(Pcu1)		kW	4.232
ROTOR WINDING LOSS(Pcu2)		kW	2.173
STRAY LOAD LOSS(Ps)		kW	1.646
FULL LOAD CURRENT		AMP	524.68
LOCKED ROTOR CURRENT		AMP	2800.58
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U.	5.3
LOCKED ROTOR INPUT @ FULL LOAD		kW	543.05
FULL LOAD TORQUE		N.m	2020.04
LOCKED ROTOR TORQUE		N.m	4259.48
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U.	2.11
PULL OUT TORQUE		N.m	5037.5
PULL OUT TORQUE/FULL LOAD TORQUE		P.U.	2.49
PULL UP TORQUE		N.m	3553.48
PULL UP TORQUE/FULL LOAD TORQUE		P.U.	1.76
EFFICIENCY @ FULL LOAD		%	95.71
POWER FACTOR @ FULL LOAD			0.905
FULL LOAD SLIP		%	0.677
FULL LOAD SPEED		r/min	1490
STATOR WINDING TEMPERATURE RISE	120 SECS	K	67.5
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C	71.0
TEMPERATURE ON LEADS BY PT100		Deg. C	47.3
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C	38.1
AMBIENT TEMPERATURE OF TESTING		Deg. C	16.3
SOUND PRESSURE LEVEL		dB(A)	89
VIBRATION		mm/s	2.4
WEIGHT		kg	1850

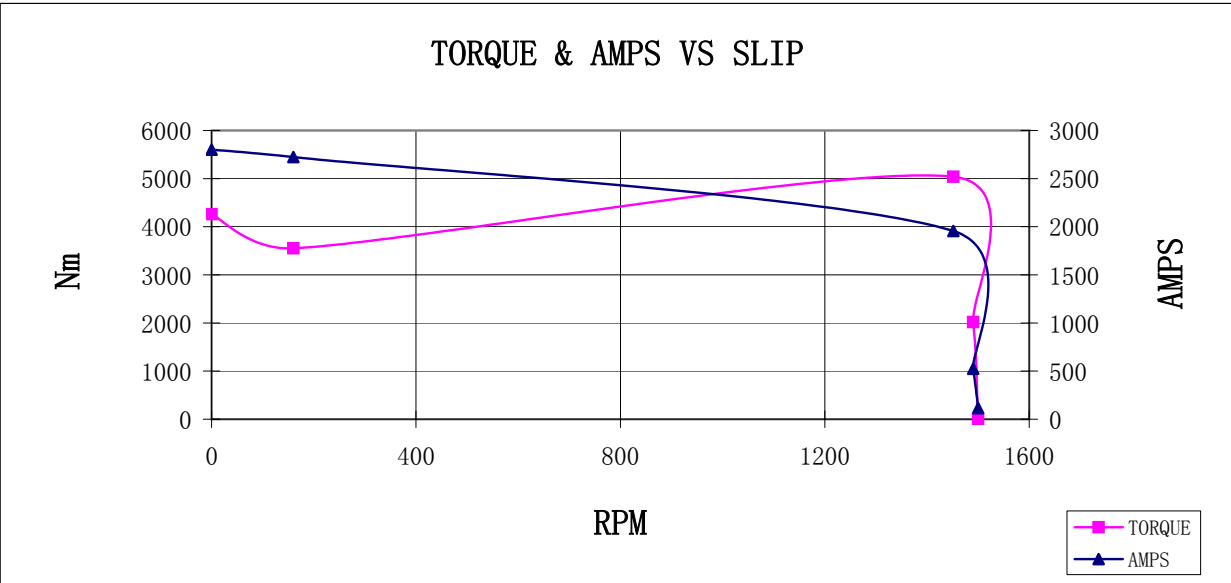
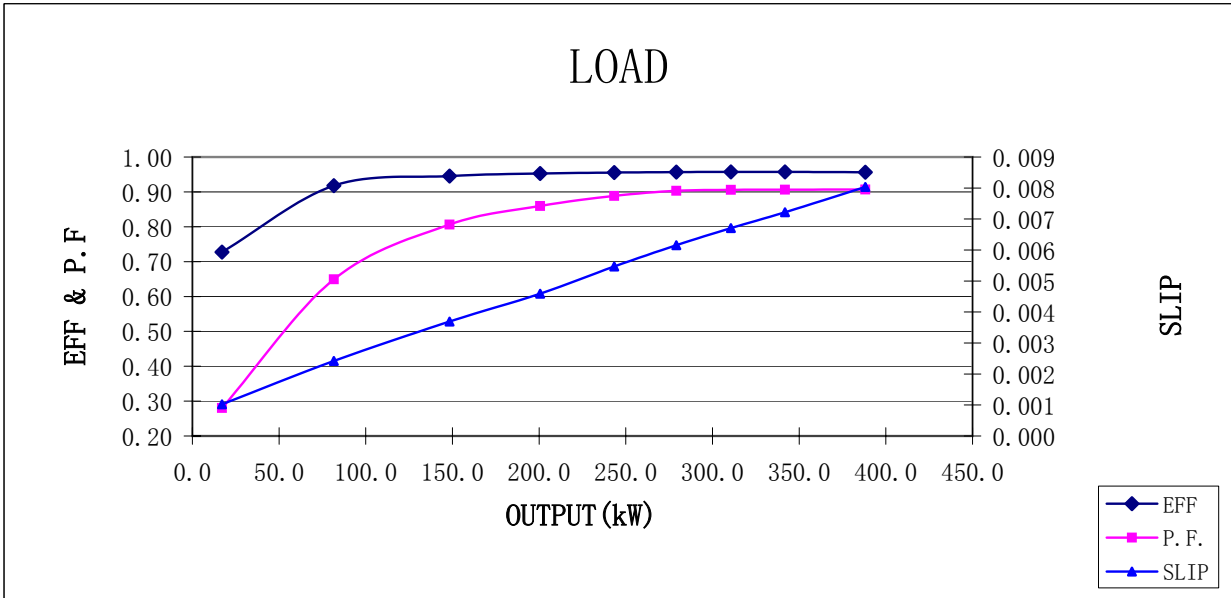
The data above is calculated as per IEC 34-2, all data at nominal Volts

VALIADIS S.A. K355L-4 315 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE	2004.04	REV
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 4 POLE
 VALIADIS MANUFACTURER

IEC TYPE

3 PHASE
 524.7 AMPS
 S1 DUTY
 SERIAL NO.

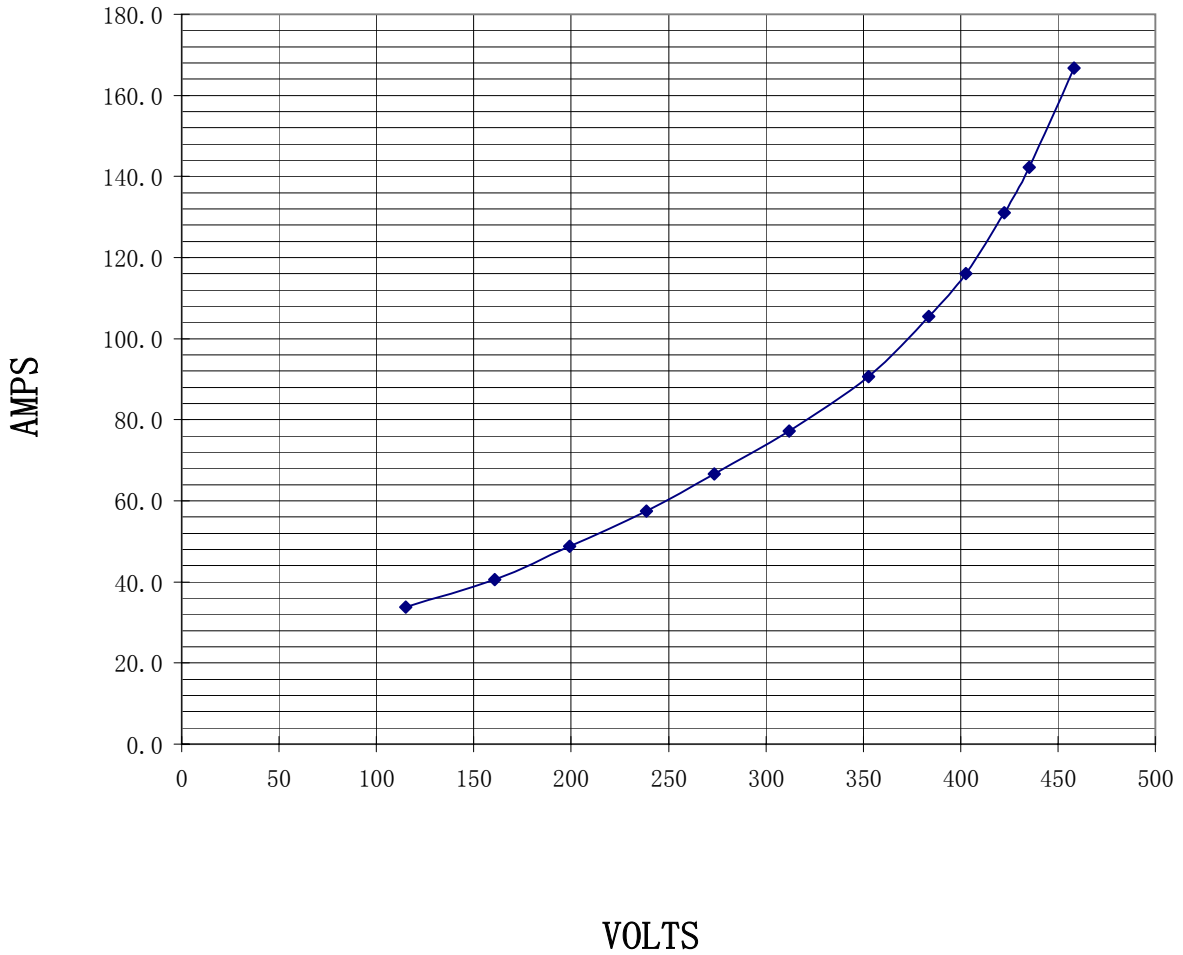
315 KW

400 VOLTS
 55 IP
 0.905 PF
 F INS.CLASS

1490 RPM

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

MAGNETIZATION CURVE - NO LOAD



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