

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		200 KW		991 RPM		
K355M-6 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES		
95.9 EFFICIENCY		338.2 AMPS		55 IP		IC411 IC		
6 POLE		S1 DUTY		0.890 PF		N/A EFF2		
VALIADIS MANUFACTURER		SERIAL NO.		F INS.CLASS		DELTA CONNECTION		
<b>TEST DATA</b>	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	93.17	95.43	95.89	95.87	95.75	95.57	
PF	0.049	0.632	0.792	0.862	0.890	0.895	0.901	0.400
RPM	1000	997	995	993	991	990	988	0
SLIP	0.00%	0.29%	0.49%	0.68%	0.91%	1.03%	1.21%	100.00%
AMPS	88.70	122.60	190.94	261.93	338.20	370.54	419.25	1976.3
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	479.1	960.1	1443.0	1928.4	2123.7	2417.8	3986.1
KW INPUT	3.010	53.66	104.79	156.44	208.62	229.75	261.60	547.65
KW OUTPUT	0	50.00	100.00	150.00	200.00	220.00	250.00	
<b>LOSSES(kw)</b>	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD		
STATOR LOSS Pcu1	0.373	0.905	1.704	2.841	3.41	4.37		
STATOR LOSS %	0.70%	0.86%	1.09%	1.36%	1.48%	1.67%		
ROTOR LOSS Pcu2	0.148	0.501	1.044	1.857	2.30	3.09		
ROTOR LOSS %	0.28%	0.48%	0.67%	0.89%	1.00%	1.18%		
CORE LOSS Pfe	1.956	1.956	1.956	1.956	1.956	1.956		
CORE LOSS %	3.64%	1.87%	1.25%	0.94%	0.85%	0.75%		
WINDAGE/FRICTION Pfw	0.882	0.882	0.882	0.882	0.882	0.882		
WINDAGE/FRICTION %	1.64%	0.84%	0.56%	0.42%	0.38%	0.34%		
STRAY LOAD LOSS Ps	0.268	0.524	0.782	1.043	1.149	1.308		
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								
<b>TEMPERATURES</b>								
STATOR RESISTANCE COLD	0.012985 OHMS @		19.9 DEG.C.		BETWEEN STATOR LEADS			
STATOR RESISTANCE ADJUSTED	0.017 OHMS @		90 DEG.C.		BETWEEN STATOR LEADS			
STATOR RESISTANCE HOT	0.017 OHMS		after test of temp rise		BETWEEN STATOR LEADS			
WINDING TEMPERATURE RISE	67.4 DEG.C.		at full load steady state at				90	SECS
WINDING TEMPERATURE RISE	71.2 DEG.C.		at full load steady state at				0	SECS
PT100 TEMPERATURE OF DE WINDING	94 DEG.C.		at full load steady state at ambient				21	DEG.C.
PT100 TEMPERATURE OF NDE WINDING	NO DEG.C.		at full load steady state at ambient				21	DEG.C.
PT100 TEMPERATURE DE BEARING	71.6 DEG.C.		at full load steady state at ambient				21	DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.		at full load steady state at ambient				21	DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	47.5 DEG.C.		at full load steady state at ambient				21	DEG.C.
PT100 TEMPERATURE ON STATOR LEAD:	52 DEG.C.		at full load steady state at ambient				21	DEG.C.
<b>OTHER</b>								
NOISE LEVEL(Lp)	86	dB(A) @ 1meter		INSULATION RESISTANCE		500	MEG.OHMS	
VIBRATION LEVEL	2.9	mm/sec on no load		D.E. BEARING		N322C3		
WEIGHT	1698	kg		N.D.E.BEARING		6322C3		
H-POT TEST VOLTS	1800	VOLTS						
VALIADIS S.A. K355M-6 200 kW 270 HP 400 VOLTS 50 Hz				SCALE	N/A			
				DATE			REV	
				DRAWN			DOCUMENT NO.	
				APPRVD				
				CHECKED				

RESULT SUMMARY

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<b>95.9 EFFICIENCY</b>	<b>338.2 AMPS</b>	<b>55 IP</b>	<b>IC411 IC</b>
<b>6 POLE</b>	<b>S1 DUTY</b>	<b>0.890 PF</b>	<b>N/A EFF2</b>
<b>VALIADIS MANUFACTURER</b>	<b>SERIAL NO.</b>	<b>F INS.CLASS</b>	<b>DELTA CONNECTION</b>

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	0.016556
NO LOAD CURRENT	AMP	88.70
NO LOAD INPUT	kW	3.010
CORE LOSS(Pfe)	kW	1.956
WINDAGE FRICTION LOSS(Pfw)	kW	0.882
STATOR WINDING LOSS(Pcu1)	kW	2.841
ROTOR WINDING LOSS(Pcu2)	kW	1.857
STRAY LOAD LOSS(Ps)	kW	1.043
FULL LOAD CURRENT	AMP	338.20
LOCKED ROTOR CURRENT	AMP	1976.26
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	5.8
LOCKED ROTOR INPUT @ FULL LOAD	kW	547.65
FULL LOAD TORQUE	N.m	1928.40
LOCKED ROTOR TORQUE	N.m	3986.08
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2.07
PULL OUT TORQUE	N.m	5153.6
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2.67
PULL UP TORQUE	N.m	3469.35
PULL UP TORQUE/FULL LOAD TORQUE	P.U.	1.80
EFFICIENCY @ FULL LOAD	%	95.87
POWER FACTOR @ FULL LOAD		0.890
FULL LOAD SLIP	%	0.911
FULL LOAD SPEED	r/min	991
STATOR WINDING TEMPERATURE RISE	90 SECS	K
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C
TEMPERATURE ON LEADS BY PT100		Deg. C
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C
AMBIENT TEMPERATURE OF TESTING		Deg. C
SOUND PRESSURE LEVEL		dB(A)
VIBRATION		mm/s
MOMENT OF INERTIA		kgm2
WEIGHT		kg

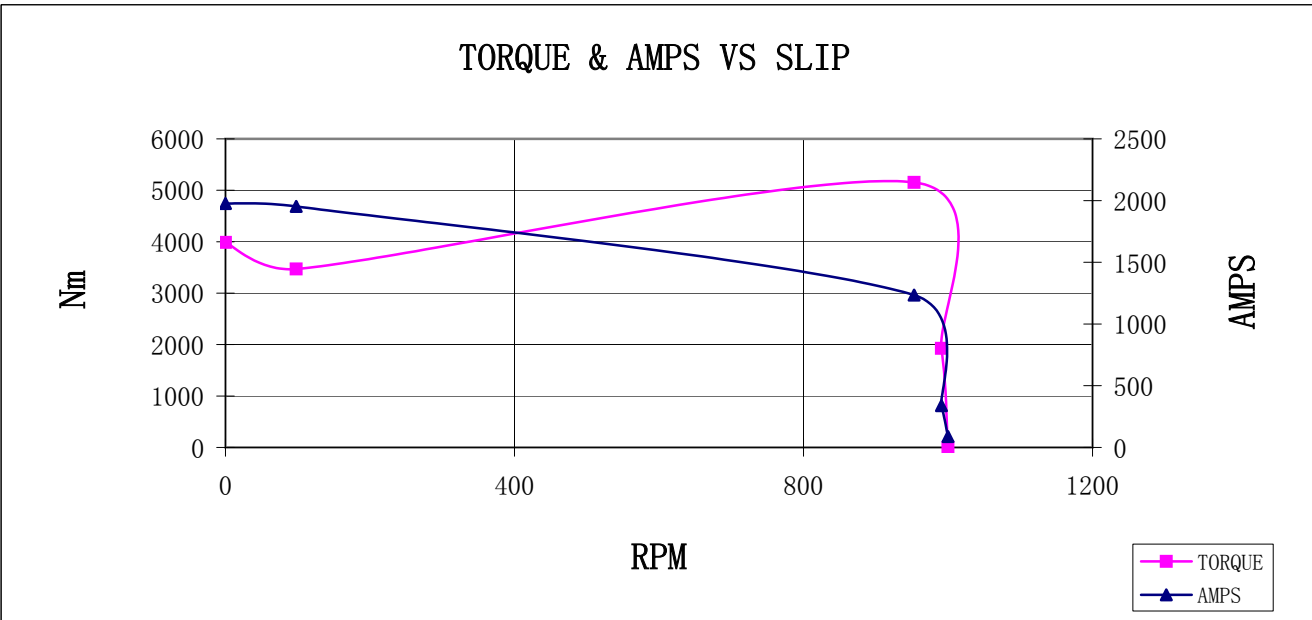
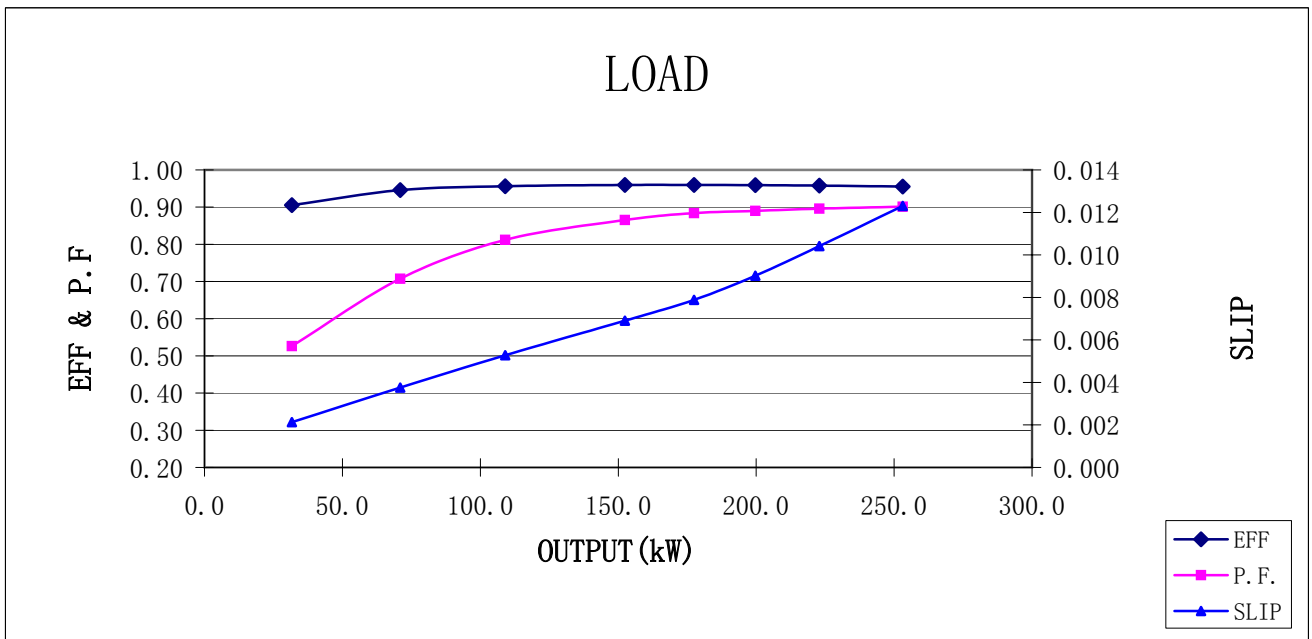
The data above is calculated as per IEC 34-2,all data at nominal Volts

<b>VALIADIS S.A.</b>  <b>K355M-6</b> <b>200 kW</b> <b>270 HP</b> <b>400 VOLTS</b> <b>50 Hz</b>	<b>SCALE</b>	N/A	
	<b>DATE</b>		<b>REV</b>
	<b>DRAWN</b>		<b>DOCUMENT NO.</b>
	<b>APPRVD</b>		
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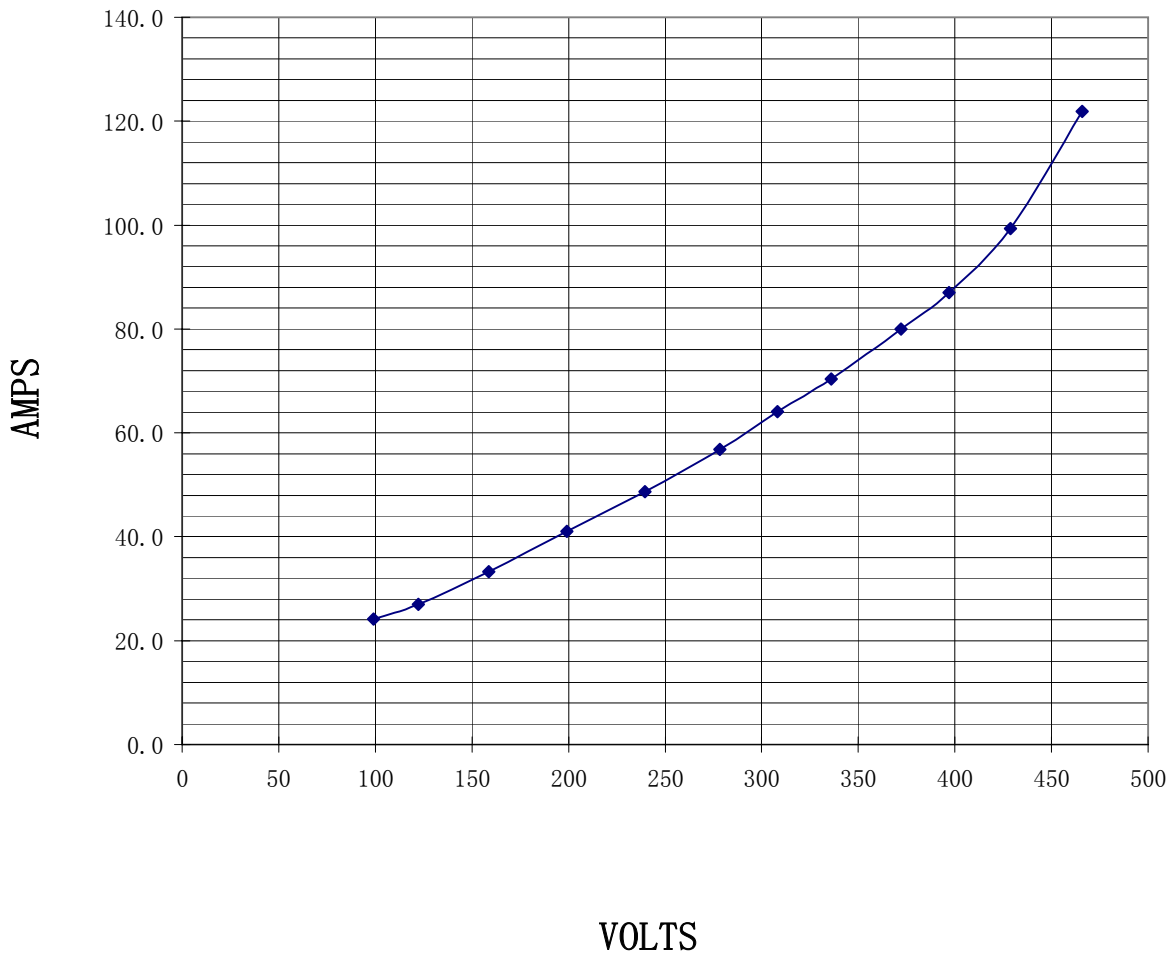
<b>VALIADIS S.A.</b>				SCALE	N/A		
				DATE		REV	
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### MAGNETIZATION CURVE - NO LOAD



<b>VALIADIS S.A.</b> K355M-6 200 kW      270 HP 400 VOLTS      50 Hz	<b>SCALE</b>	N/A	
	<b>DATE</b>		<b>REV</b>
	<b>DRAWN</b>		<b>DOCUMENT NO.</b>
	<b>APPRVD</b>		
	<b>CHECKED</b>		