

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		250 KW		1483 RPM	
K355M-4 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES	
95.6 EFFICIENCY		419.9 AMPS		55 IP		IC411 IC	
4 POLE		S1 DUTY		0.899 PF		N/A EFF2	
VALIADIS MANUFACTURER		SERIAL NO.		F INS.CLASS		DELTA CONNECTION	

TEST DATA								LOCKED
	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125% LOAD	ROTOR
EFFICIENCY	0	91.65	94.72	95.44	95.56	95.53	95.42	
PF	0.076	0.749	0.874	0.897	0.899	0.899	0.896	0.470
RPM	1500	1496	1492	1488	1483	1482	1479	0
SLIP	0.00%	0.26%	0.55%	0.83%	1.10%	1.22%	1.42%	100.00%
AMPS	96.12	131.35	217.99	316.25	419.86	462.38	527.30	3016.5
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	399.1	800.6	1204.2	1610.1	1773.2	2019.1	3683.9
KW INPUT	5.045	68.19	131.97	196.46	261.62	287.87	327.49	981.30
KW OUTPUT	0	62.50	125.00	187.50	250.00	275.00	312.50	

LOSSES(kw)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.242	0.667	1.404	2.475	3.00	3.90
STATOR LOSS %	0.36%	0.51%	0.71%	0.95%	1.04%	1.19%
ROTOR LOSS Pcu2	0.172	0.705	1.593	2.824	3.44	4.56
ROTOR LOSS %	0.25%	0.53%	0.81%	1.08%	1.20%	1.39%
CORE LOSS Pfe	2.777	2.777	2.777	2.777	2.777	2.777
CORE LOSS %	4.07%	2.10%	1.41%	1.06%	0.96%	0.85%
WINDAGE/FRICTION Pfw	2.155	2.155	2.155	2.155	2.155	2.155
WINDAGE/FRICTION %	3.16%	1.63%	1.10%	0.82%	0.75%	0.66%
STRAY LOAD LOSS Ps	0.341	0.660	0.982	1.308	1.439	1.637
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	0.0075067 OHMS @	25.6 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.009 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.010 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	76.3 DEG.C.	at full load steady state at	120 SECS
WINDING TEMPERATURE RISE	82.6 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	111.8 DEG.C.	at full load steady state at ambient	27 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	NO DEG.C.	at full load steady state at ambient	27 DEG.C.
PT100 TEMPERATURE DE BEARING	82.6 DEG.C.	at full load steady state at ambient	27 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	27 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	57.2 DEG.C.	at full load steady state at ambient	27 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	61.9 DEG.C.	at full load steady state at ambient	27 DEG.C.

OTHER			
NOISE LEVEL(Lp)	73	dB(A) @ 1meter	INSULATION RESISTANCE 500 MEG.OHMS
VIBRATION LEVEL	1.8	mm/sec on no load	D.E. BEARING 6322
WEIGHT	1760	kg	N.D.E.BEARING 6322
H-POT TEST VOLTS	1800	VOLTS	

<b>VALIADIS S.A.</b> <b>K355M-4</b> <b>250 kW</b> <b>400 VOLTS      50 Hz</b>	SCALE	N/A	
	DATE		REV
	DRAWN		DOCUMENT NO.
	APPRVD		
CHECKED			

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<b>95.6 EFFICIENCY</b>	<b>419.9 AMPS</b>	<b>55 IP</b>	<b>IC411 IC</b>
<b>4 POLE</b>	<b>S1 DUTY</b>	<b>0.899 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	0.009362
NO LOAD CURRENT	AMP	96.12
NO LOAD INPUT	kW	5.045
CORE LOSS(Pfe)	kW	2.777
WINDAGE FRICTION LOSS(Pfw)	kW	2.155
STATOR WINDING LOSS(Pcu1)	kW	2.475
ROTOR WINDING LOSS(Pcu2)	kW	2.824
STRAY LOAD LOSS(Ps)	kW	1.308
FULL LOAD CURRENT	AMP	419.86
LOCKED ROTOR CURRENT	AMP	3016.54
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	7.2
LOCKED ROTOR INPUT @ FULL LOAD	kW	981.30
FULL LOAD TORQUE	N.m	1610.09
LOCKED ROTOR TORQUE	N.m	3683.87
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2.29
PULL OUT TORQUE	N.m	4658.7
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2.89
PULL UP TORQUE	N.m	3009.35
PULL UP TORQUE/FULL LOAD TORQUE	P.U.	1.87
EFFICIENCY @ FULL LOAD	%	95.56
POWER FACTOR @ FULL LOAD		0.899
FULL LOAD SLIP	%	1.102
FULL LOAD SPEED	r/min	1483
STATOR WINDING TEMPERATURE RISE	120 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

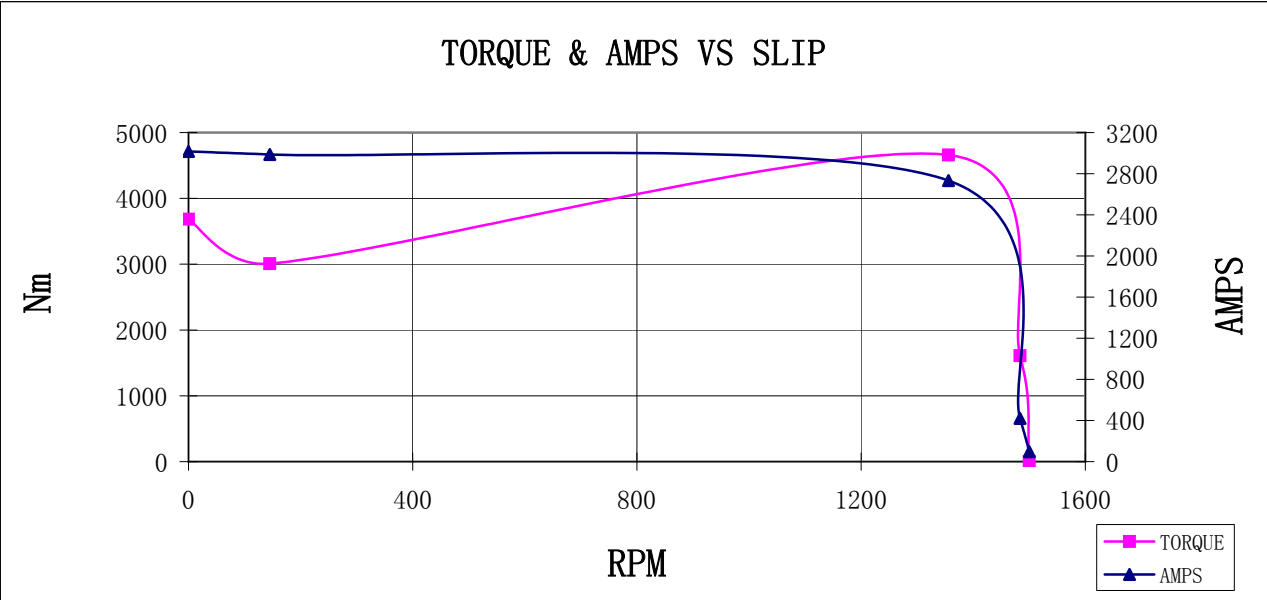
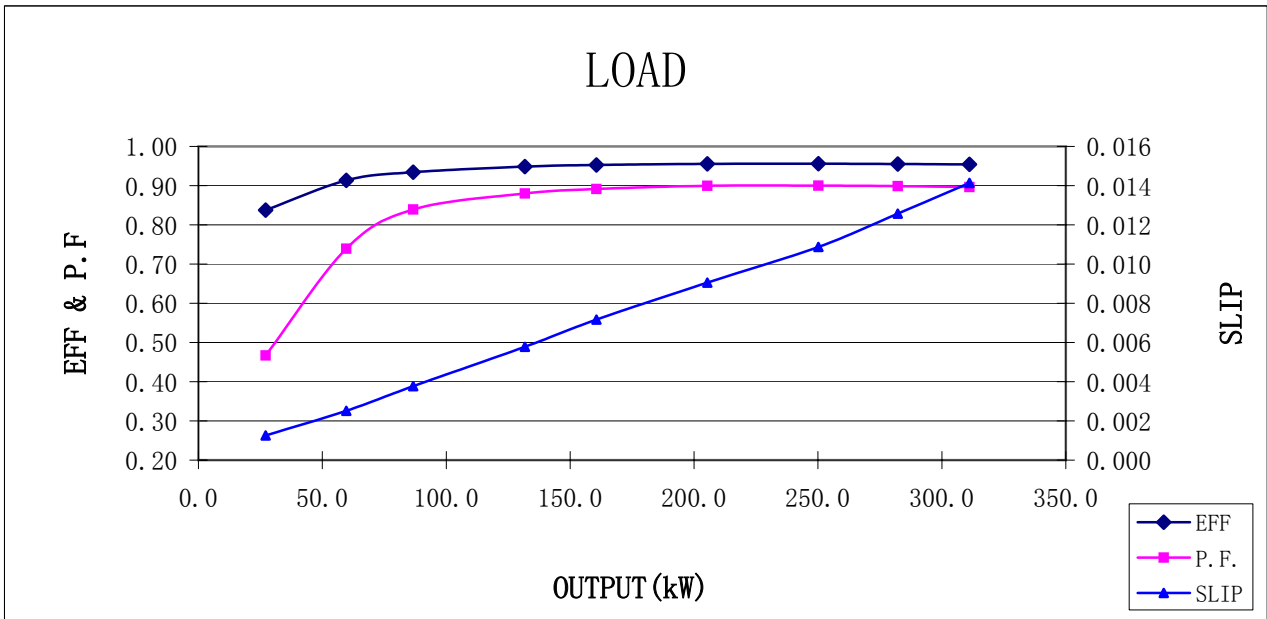
The data above is calculated as per IEC 34-2, all data at nominal Volts

<b>VALIADIS S.A.</b>  <b>K355M-4</b> <b>250 kW</b>  <b>400 VOLTS      50      Hz</b>	<b>SCALE</b>	N/A	
	<b>DATE</b>		<b>REV</b>
	<b>DRAWN</b>		<b>DOCUMENT NO.</b>
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	<b>DATE</b>		<b>REV</b>
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**NAMEPLATE DATA**

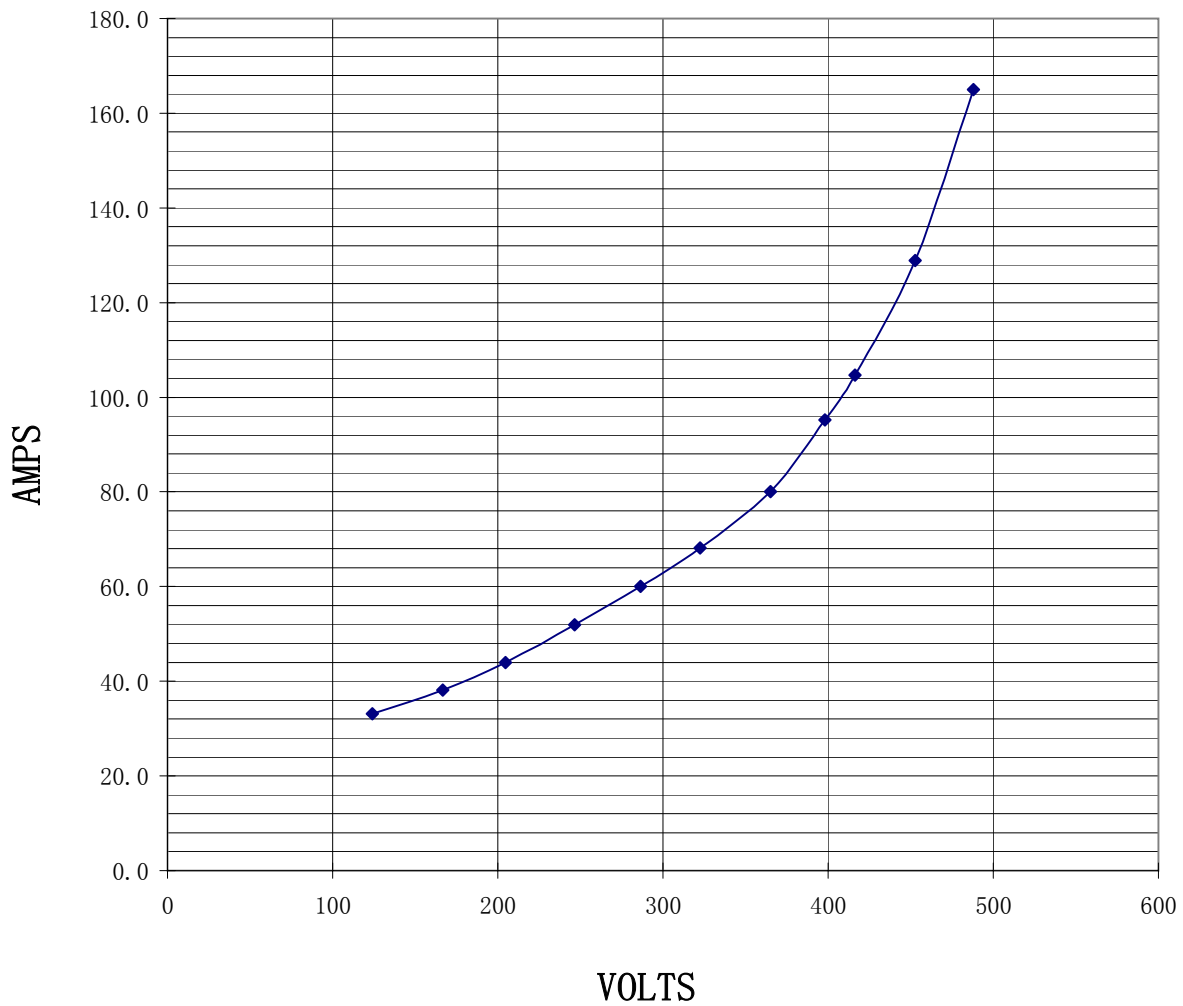
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 VALIADIS MANUFACTURER

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 3 PHASE  
 419.9 AMPS  
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250 KW  
 400 VOLTS  
 55 IP  
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 F INS.CLASS

1483 RPM  
 50 HZ / CYCLES  
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**MAGNETIZATION CURVE - NO LOAD**



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