

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		75 KW		2962 RPM	
K280S-2 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES	
93.8 EFFICIENCY		128.8 AMPS		55 IP		IC411 IC	
2 POLE		S1 DUTY		0.896 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	87.91	92.42	93.55	93.80	93.77	93.67
PF	0.121	0.717	0.862	0.894	0.896	0.893	0.887	0.378
RPM	3000	2987	2978	2970	2962	2958	2954	0
SLIP	0.00%	0.44%	0.73%	1.01%	1.28%	1.39%	1.54%	100.00%
AMPS	26.98	42.94	67.92	97.06	128.84	142.18	162.93	794.0
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	60.0	120.3	181.0	242.0	266.4	303.2	532.3
KW INPUT	2.257	21.33	40.57	60.13	79.96	87.98	100.09	207.75
KW OUTPUT	0	18.75	37.50	56.25	75.00	82.50	93.75	

LOSSES(kw)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.148	0.371	0.757	1.333	1.62	2.13
STATOR LOSS %	0.69%	0.91%	1.26%	1.67%	1.85%	2.13%
ROTOR LOSS Pcu2	0.090	0.288	0.591	0.999	1.19	1.50
ROTOR LOSS %	0.42%	0.71%	0.98%	1.25%	1.35%	1.50%
CORE LOSS Pfe	0.755	0.755	0.755	0.755	0.755	0.755
CORE LOSS %	3.54%	1.86%	1.26%	0.94%	0.86%	0.75%
WINDAGE/FRICTION Pfw	1.451	1.451	1.451	1.451	1.451	1.451
WINDAGE/FRICTION %	6.81%	3.58%	2.41%	1.82%	1.65%	1.45%
STRAY LOAD LOSS Ps	0.107	0.203	0.301	0.400	0.440	0.500
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	0.04258 OHMS @	23.4 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.054 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.053 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	64.1 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	81.6 DEG.C.	at full load steady state at ambient	22.3 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.	at full load steady state at ambient	22.3 DEG.C.
PT100 TEMPERATURE DE BEARING	64.2 DEG.C.	at full load steady state at ambient	22.3 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	22.3 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	39 DEG.C.	at full load steady state at ambient	22.3 DEG.C.
PT100 TEMPERATURE ON STATOR LEAD	42.9 DEG.C.	at full load steady state at ambient	22.3 DEG.C.

OTHER			
NOISE LEVEL(Lp)	78 dB(A) @ 1meter	INSULATION RESISTANCE	500 MEG.OHMS
VIBRATION LEVEL	2.7 mm/sec on no load	D.E. BEARING	6314C3
WEIGHT	544 kg	N.D.E.BEARING	6314C3
H-POT TEST VOLTS	1800 VOLTS		

VALIADIS S.A.		SCALE	N/A
K280S-2		DATE	2003.05.17
75 kW		DRAWN	
400 VOLTS 50 Hz		APPRVD	
		CHECKED	
		REV	
		DOCUMENT NO.	

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<b>93.8 EFFICIENCY</b>	<b>128.8 AMPS</b>	<b>55 IP</b>	<b>IC411 IC</b>
<b>2 POLE</b>	<b>S1 DUTY</b>	<b>0.896 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	<b>0.054</b>
NO LOAD CURRENT	AMP	26.98
NO LOAD INPUT	kW	2.257
CORE LOSS(Pfe)	kW	0.755
WINDAGE FRICTION LOSS(Pfw)	kW	1.451
STATOR WINDING LOSS(Pcu1)	kW	1.333
ROTOR WINDING LOSS(Pcu2)	kW	0.999
STRAY LOAD LOSS(Ps)	kW	0.400
FULL LOAD CURRENT	AMP	128.84
LOCKED ROTOR CURRENT	AMP	793.98
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	6.2
LOCKED ROTOR INPUT @ FULL LOAD	kW	207.75
FULL LOAD TORQUE	N.m	241.96
LOCKED ROTOR TORQUE	N.m	532.28
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2.2
PULL OUT TORQUE	N.m	660.7
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2.7
PULL UP TORQUE	N.m	457.07
PULL UP TORQUE/FULL LOAD TORQUE	P.U.	1.89
EFFICIENCY @ FULL LOAD	%	93.8
POWER FACTOR @ FULL LOAD		0.90
FULL LOAD SLIP	%	1.282
FULL LOAD SPEED	r/min	2962
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

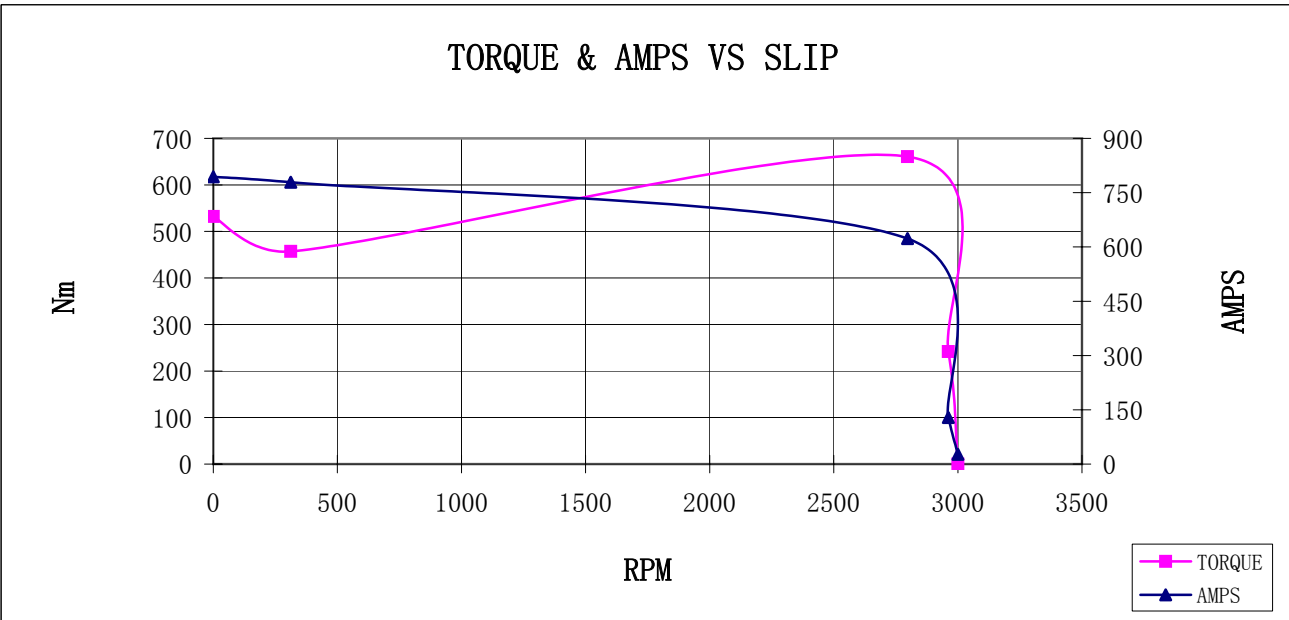
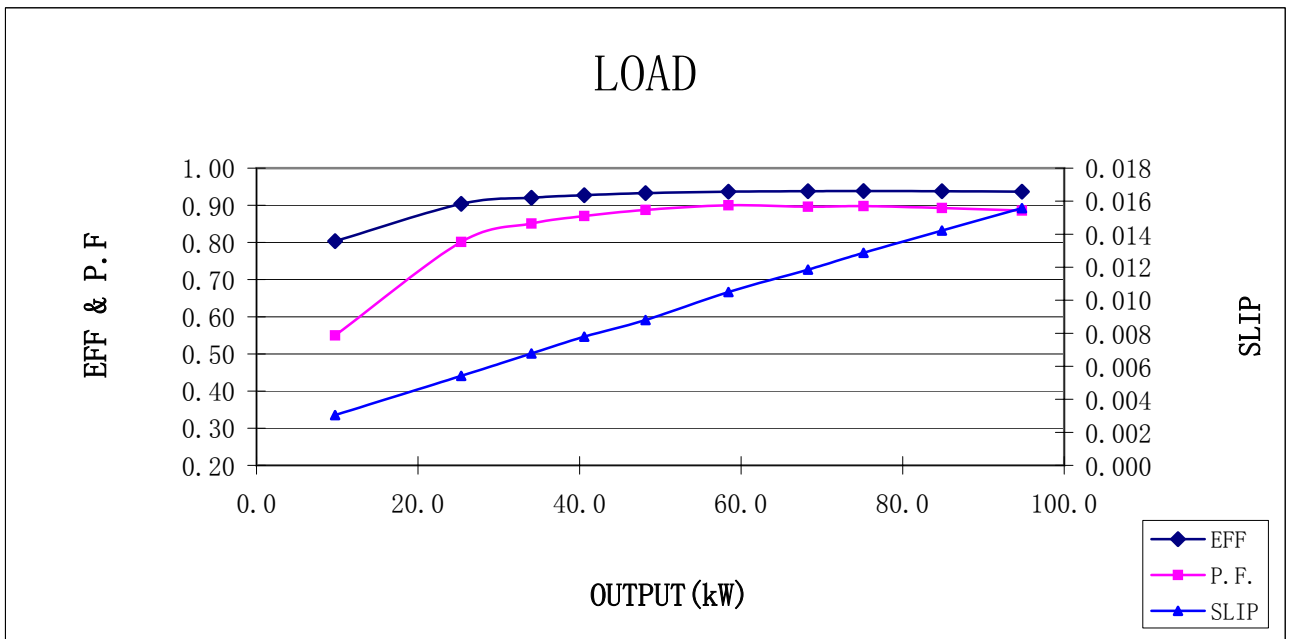
The data above is calculated as per IEC 34-2,all data at nominal Volts

<b>VALIADIS S.A.</b>  <b>K280S-2</b>  <b>75 kW</b> <b>400 VOLTS      50 Hz</b>	<b>SCALE</b>	N/A	
	<b>DATE</b>	2003.05.17	<b>REV</b>
	<b>DRAWN</b>		<b>DOCUMENT NO.</b>
	<b>APPRVD</b>		
	<b>CHECKED</b>		

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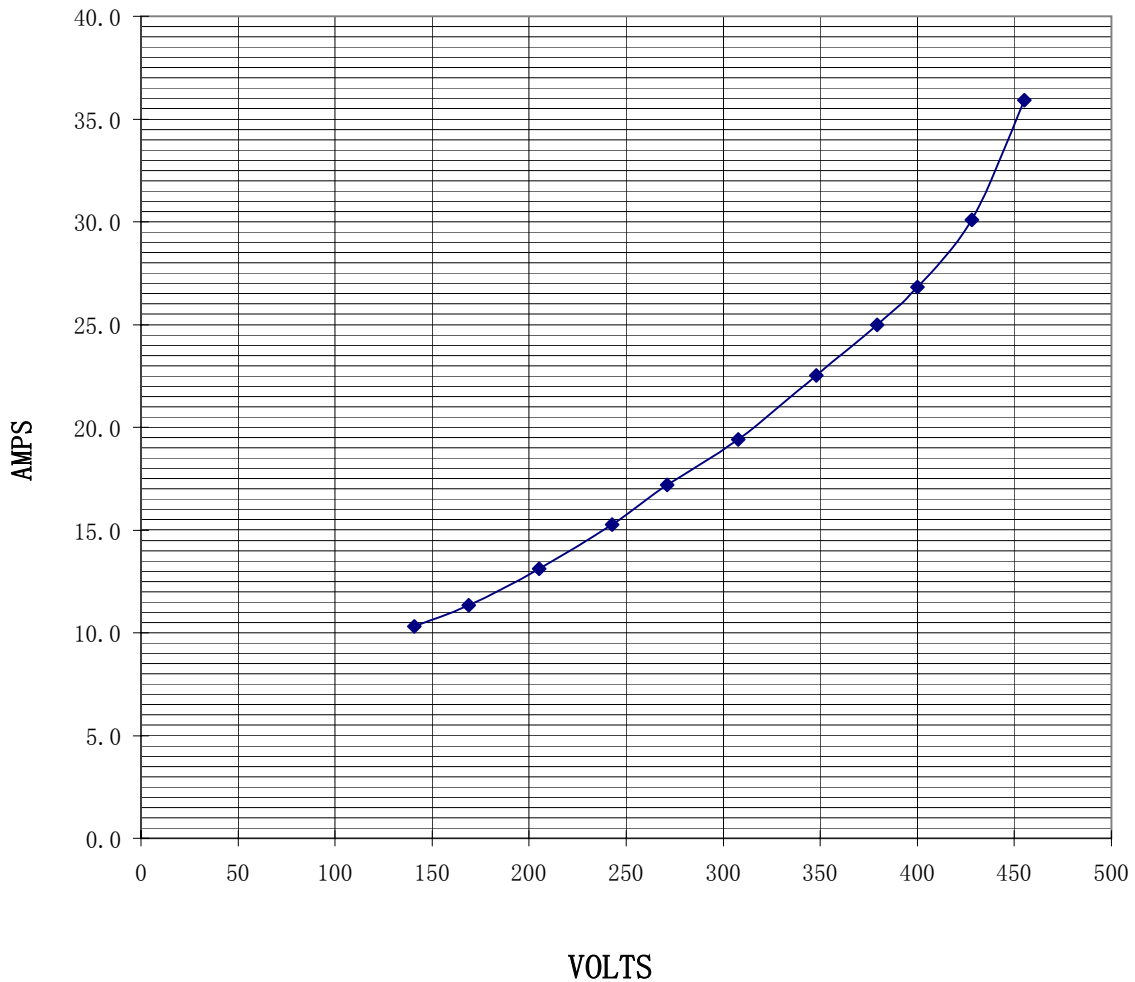
<b>VALIADIS S.A.</b>	SCALE	N/A	
	DATE	2003.05.17	REV
K280S-2 75 kW 400 VOLTS 50 Hz	DRAWN		DOCUMENT NO.
	APPRVD		
	CHECKED		

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MAGNETIZATION CURVE - NO LOAD



<b>VALIADIS S.A.</b>	<b>SCALE</b>	N/A	<b>REV</b>	
	<b>DATE</b>	2003.05.17		
<b>K280S-2</b> <b>75 kW</b> <b>400 VOLTS</b> <b>50 Hz</b>	<b>DRAWN</b>		<b>DOCUMENT NO.</b>	
	<b>APPRVD</b>			
	<b>CHECKED</b>			