

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		75 KW		1481 RPM	
K280S-4 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES	
93.5 EFFICIENCY		129.4 AMPS		55 IP		IC411 IC	
4 POLE		S1 DUTY		0.894 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	87.75	92.23	93.36	93.50	93.44	93.17	
PF	0.100	0.680	0.840	0.883	0.894	0.895	0.889	0.429
RPM	1500	1495	1491	1487	1481	1479	1476	0
SLIP	0.00%	0.32%	0.59%	0.90%	1.25%	1.39%	1.63%	100.00%
AMPS	33.56	45.35	69.86	98.46	129.45	142.41	163.45	840.1
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	119.8	240.3	361.5	483.8	532.9	607.0	1148.2
KW INPUT	2.333	21.37	40.66	60.25	80.21	88.30	100.63	249.73
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	0.194	0.461	0.916	1.583	1.92	2.52
STATOR LOSS %	0.91%	1.13%	1.52%	1.97%	2.17%	2.51%
ROTOR LOSS Pcu2	0.064	0.231	0.521	0.970	1.19	1.58
ROTOR LOSS %	0.30%	0.57%	0.86%	1.21%	1.34%	1.57%
CORE LOSS Pfe	1.194	1.194	1.194	1.194	1.194	1.194
CORE LOSS %	5.59%	2.94%	1.98%	1.49%	1.35%	1.19%
WINDAGE/FRICTION Pfw	1.042	1.042	1.042	1.042	1.042	1.042
WINDAGE/FRICTION %	4.88%	2.56%	1.73%	1.30%	1.18%	1.04%
STRAY LOAD LOSS Ps	0.107	0.203	0.301	0.401	0.441	0.503
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	0.0500533 OHMS @	23.3 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.063 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.066 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	74.3 DEG.C.	at full load steady state at	90 SECS
WINDING TEMPERATURE RISE	80.4 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	107.1 DEG.C.	at full load steady state at ambient	27.3 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.	at full load steady state at ambient	27.3 DEG.C.
PT100 TEMPERATURE DE BEARING	73.7 DEG.C.	at full load steady state at ambient	27.3 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	27.3 DEG.C.
PT100 TEMPERATURE IN TERMINAL BO	48.7 DEG.C.	at full load steady state at ambient	27.3 DEG.C.
PT100 TEMPERATURE ON STATOR LEAD	60.9 DEG.C.	at full load steady state at ambient	27.3 DEG.C.

OTHER

NOISE LEVEL(Lp)	72 dB(A) @ 1meter	INSULATION RESISTANCE	500 MEG.OHMS
VIBRATION LEVEL	2.1 mm/sec on no load	D.E. BEARING	N317
WEIGHT	562 kg	N.D.E.BEARING	6314
H-POT TEST VOLTS	1800 VOLTS		

VALIADIS S.A.		SCALE	N/A	
K280S-4		DATE	2003.05.30	REV
75 kW		DRAWN		DOCUMENT NO.
400 VOLTS 50 Hz		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	0.06298
NO LOAD CURRENT	AMP	33.56
NO LOAD INPUT	kW	2.333
CORE LOSS(Pfe)	kW	1.194
WINDAGE FRICTION LOSS(Pfw)	kW	1.042
STATOR WINDING LOSS(Pcu1)	kW	1.583
ROTOR WINDING LOSS(Pcu2)	kW	0.970
STRAY LOAD LOSS(Ps)	kW	0.401
FULL LOAD CURRENT	AMP	129.45
LOCKED ROTOR CURRENT	AMP	840.10
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	6.5
LOCKED ROTOR INPUT @ FULL LOAD	kW	249.73
FULL LOAD TORQUE	N.m	483.77
LOCKED ROTOR TORQUE	N.m	1148.24
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2.4
PULL OUT TORQUE	N.m	1348.9
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2.8
PULL UP TORQUE	N.m	923.52
PULL UP TORQUE/FULL LOAD TORQUE	P.U.	1.91
EFFICIENCY @ FULL LOAD	%	93.5
POWER FACTOR @ FULL LOAD		0.89
FULL LOAD SLIP	%	1.252
FULL LOAD SPEED	r/min	1481
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

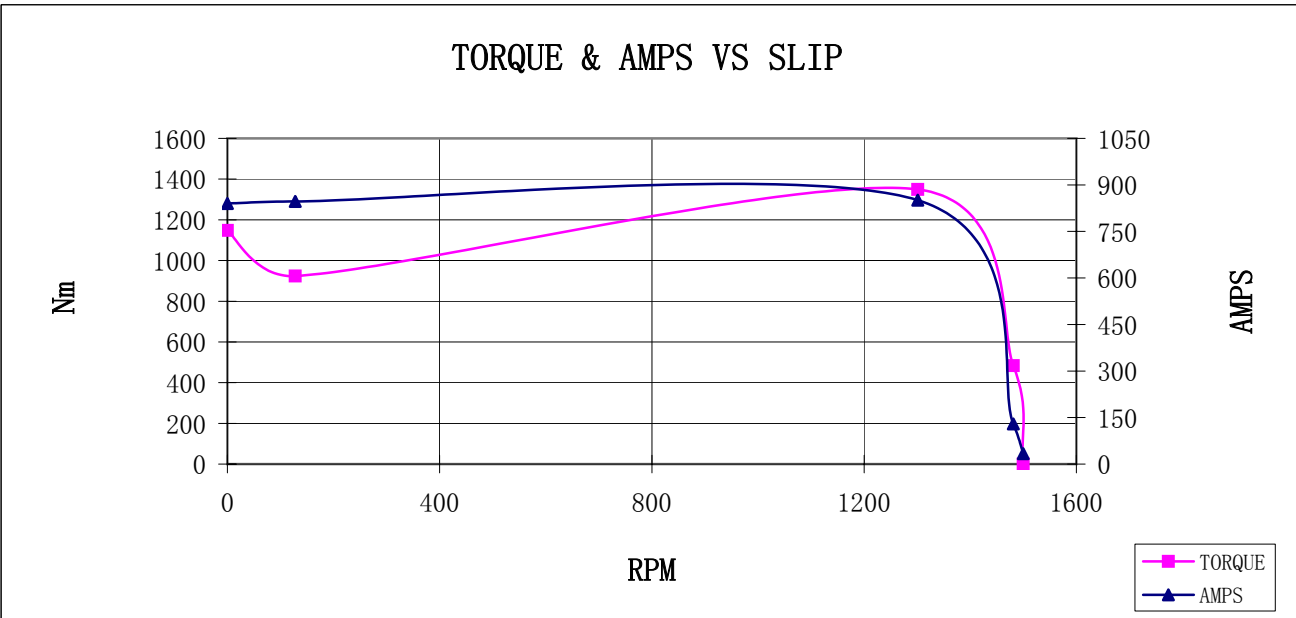
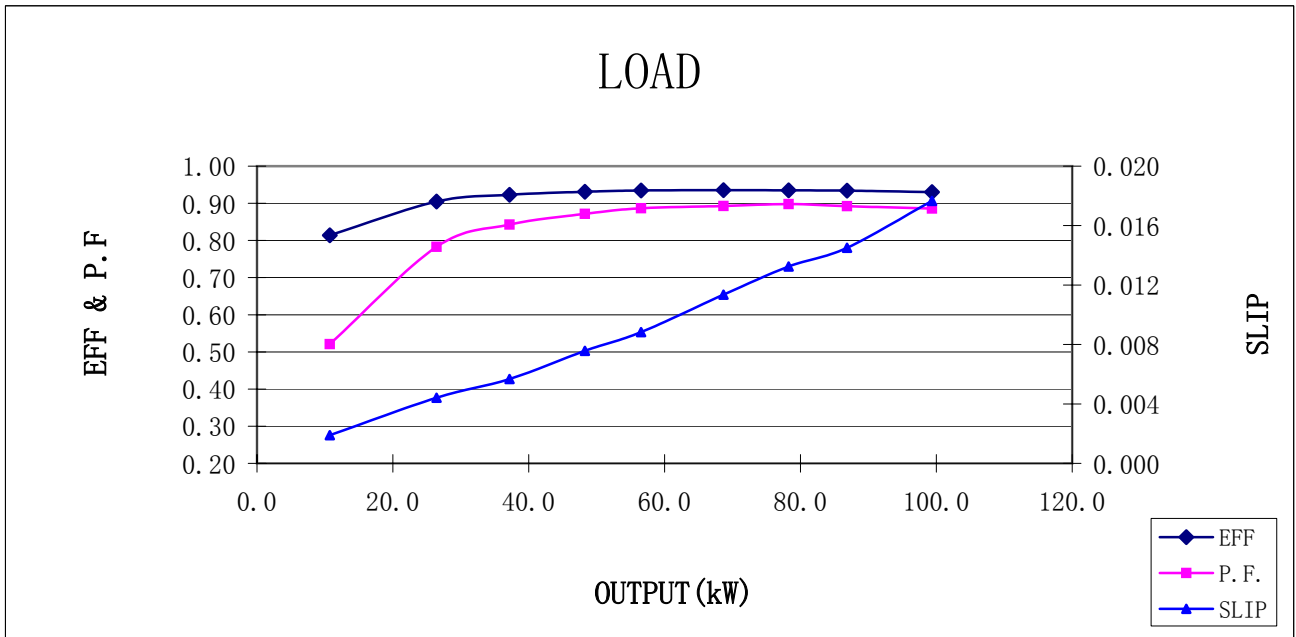
The data above is calculated as per IEC 34-2,all data at nominal Volts

VALIADIS S.A.		SCALE	N/A	
		DATE	2003.05.30	REV
K280S-4 75 kW 400 VOLTS 50 Hz		DRAWN		DOCUMENT NO.
		APPRVD		
		CHECKED		

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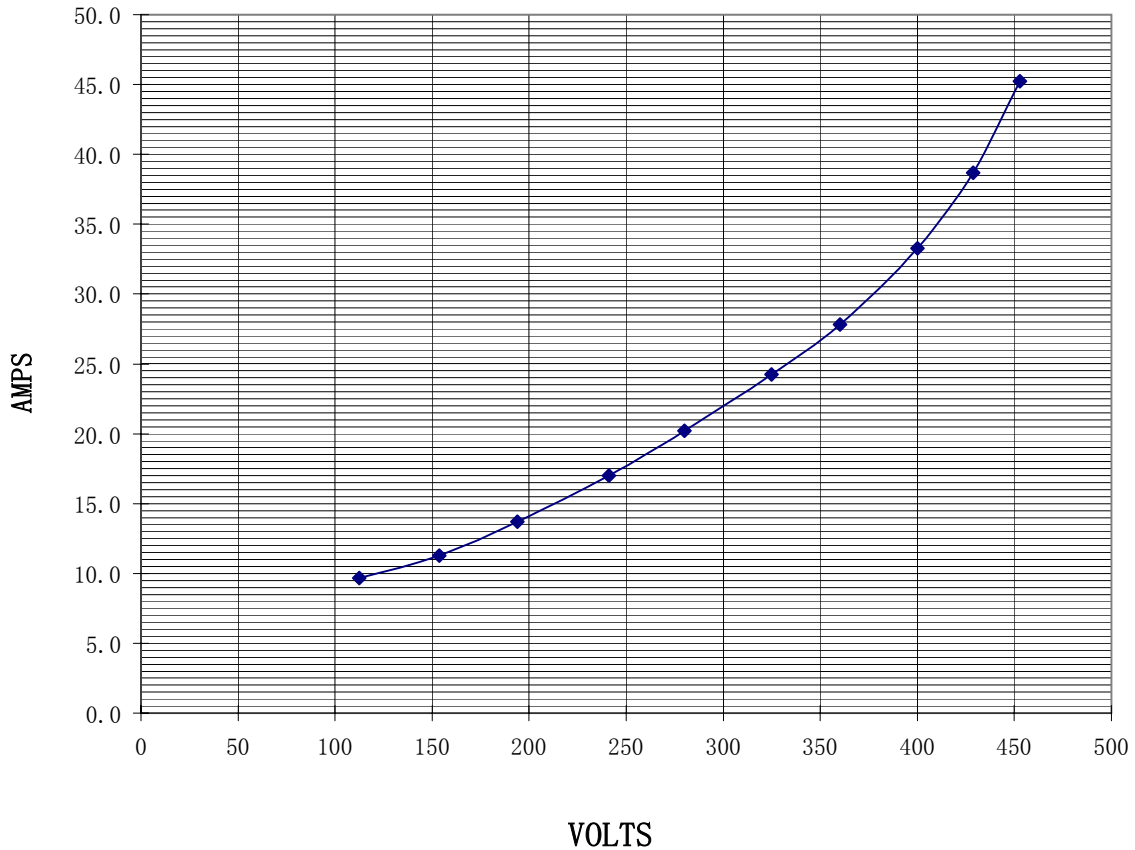
75 KW

400 VOLTS
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 0.894 PF
 F INS.CLASS

1481 RPM

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

MAGNETIZATION CURVE - NO LOAD



VALIADIS S.A. K280S-4 75 kW 400 VOLTS 50 Hz	SCALE	N/A	REV	
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	DRAWN		DOCUMENT NO.	
	APPRVD			
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