

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

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

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM
NO LOAD CURRENT		AMP
NO LOAD INPUT		kW
CORE LOSS(Pfe)		kW
WINDAGE FRICTION LOSS(Pfw)		kW
STATOR WINDING LOSS(Pcu1)		kW
ROTOR WINDING LOSS(Pcu2)		kW
STRAY LOAD LOSS(Ps)		kW
FULL LOAD CURRENT		AMP
LOCKED ROTOR CURRENT		AMP
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U.
LOCKED ROTOR INPUT @ FULL LOAD		kW
FULL LOAD TORQUE		N.m
LOCKED ROTOR TORQUE		N.m
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U.
PULL OUT TORQUE		N.m
PULL OUT TORQUE/FULL LOAD TORQUE		P.U.
PULL UP TORQUE		N.m
PULL UP TORQUE/FULL LOAD TORQUE		P.U.
EFFICIENCY @ FULL LOAD		%
POWER FACTOR @ FULL LOAD		
FULL LOAD SLIP		%
FULL LOAD SPEED		r/min
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		DRAWN		DOCUMENT NO.	
75 kW		APPRVD			
400 VOLTS	50 Hz	CHECKED			

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA

K280S-4 FRAME

93.5 EFFICIENCY

4 POLE

VALIADIS MANUFACTURER

IEC TYPE

3 PHASE

129.4 AMPS

S1 DUTY

SERIAL NO.

75 KW

400 VOLTS

55 IP

0.894 PF

F INS.CLASS

1481 RPM

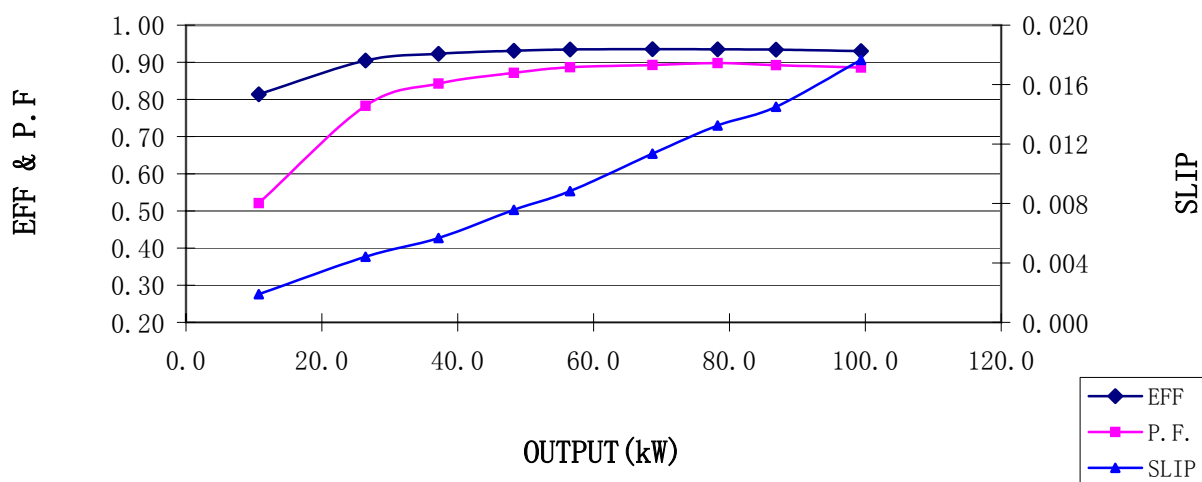
50 HZ / CYCLES

IC411 IC

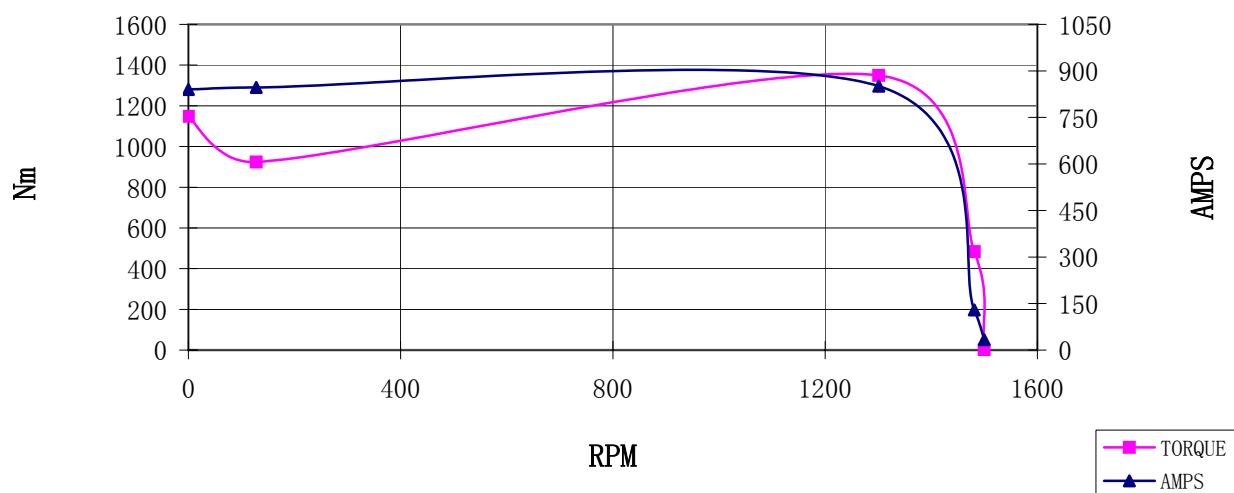
N/A EFF2

DELTA CONNECTION

LOAD



TORQUE & AMPS VS SLIP



VALIADIS S.A.

SCALE

N/A

DATE

2003.05.30

REV

K280S-4

DRAWN

DOCUMENT NO.

75 kW

APPRVD

400 VOLTS

50 Hz

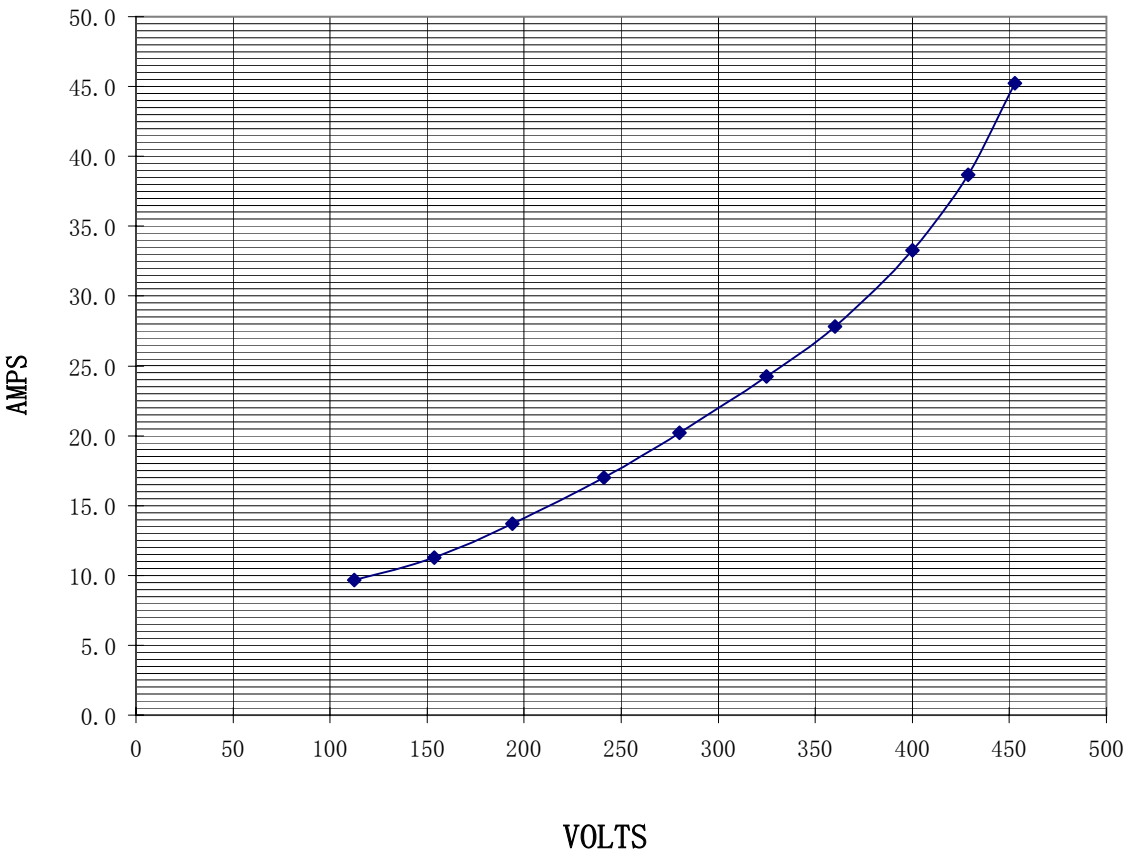
CHECKED

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

MAGNETIZATION CURVE – NO LOAD



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