

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		75 KW		986 RPM	
K315S-6 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES	
94.5 EFFICIENCY		133.8 AMPS		55 IP		IC411 IC	
6 POLE		S1 DUTY		0.857 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	91.08	94.06	94.66	94.45	94.21	93.87	
PF	0.057	0.579	0.797	0.853	0.857	0.851	0.843	0.448
RPM	1000	998	994	990	986	984	980	0
SLIP	0.00%	0.19%	0.58%	0.98%	1.42%	1.65%	2.01%	100.00%
AMPS	41.39	51.29	72.23	100.51	133.76	148.58	171.02	857.2
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	179.5	360.4	542.7	726.9	801.4	914.0	1536.8
KW INPUT	1.647	20.59	39.87	59.42	79.40	87.57	99.87	266.29
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	0.201	0.398	0.770	1.364	1.68	2.23
STATOR LOSS %	0.97%	1.00%	1.30%	1.72%	1.92%	2.23%
ROTOR LOSS Pcu2	0.038	0.223	0.566	1.100	1.40	1.94
ROTOR LOSS %	0.18%	0.56%	0.95%	1.39%	1.60%	1.95%
CORE LOSS Pfe	0.795	0.795	0.795	0.795	0.795	0.795
CORE LOSS %	3.86%	1.99%	1.34%	1.00%	0.91%	0.80%
WINDAGE/FRICTION Pfw	0.737	0.737	0.737	0.737	0.737	0.737
WINDAGE/FRICTION %	3.58%	1.85%	1.24%	0.93%	0.84%	0.74%
STRAY LOAD LOSS Ps	0.103	0.199	0.297	0.397	0.438	0.499
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	0.0408767 OHMS @	26.3 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.05084 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.05220 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	71.8 DEG.C.	at full load steady state at	90 SECS
WINDING TEMPERATURE RISE	73.2 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	99.6 DEG.C.	at full load steady state at ambient	26.8 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	NO DEG.C.	at full load steady state at ambient	26.8 DEG.C.
PT100 TEMPERATURE DE BEARING	83.2 DEG.C.	at full load steady state at ambient	26.8 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	26.8 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	45.7 DEG.C.	at full load steady state at ambient	26.8 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	59.3 DEG.C.	at full load steady state at ambient	26.8 DEG.C.

OTHER			
NOISE LEVEL(Lp)	73	dB(A) @ 1meter	INSULATION RESISTANCE 500 MEG.OHMS
VIBRATION LEVEL	1.5	mm/sec on no load	D.E. BEARING NU319
WEIGHT	1061	kg	N.D.E.BEARING 6319
H-POT TEST VOLTS	1800	VOLTS	

<b>VALIADIS S.A.</b>  <b>K315S-6</b> <b>75 kW</b>  <b>400 VOLTS</b> <b>50 Hz</b>	SCALE	N/A	
	DATE		REV
	DRAWN		DOCUMENT NO.
	APPRVD		
CHECKED			

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

<b>NAMEPLATE DATA</b>	<b>IEC TYPE</b>	<b>75 KW</b>	<b>986 RPM</b>
K315S-6 <b>FRAME</b>	<b>3 PHASE</b>	<b>400 VOLTS</b>	<b>50 HZ / CYCLES</b>
<b>94.5 EFFICIENCY</b>	<b>133.8 AMPS</b>	<b>55 IP</b>	<b>IC411 IC</b>
<b>6 POLE</b>	<b>S1 DUTY</b>	<b>0.857 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	0.050842
NO LOAD CURRENT	AMP	41.39
NO LOAD INPUT	kW	1.647
CORE LOSS(Pfe)	kW	0.795
WINDAGE FRICTION LOSS(Pfw)	kW	0.737
STATOR WINDING LOSS(Pcu1)	kW	1.364
ROTOR WINDING LOSS(Pcu2)	kW	1.100
STRAY LOAD LOSS(Ps)	kW	0.397
FULL LOAD CURRENT	AMP	133.76
LOCKED ROTOR CURRENT	AMP	857.18
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	6.4
LOCKED ROTOR INPUT @ FULL LOAD	kW	266.29
FULL LOAD TORQUE	N.m	726.91
LOCKED ROTOR TORQUE	N.m	1536.77
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2.11
PULL OUT TORQUE	N.m	2060.0
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2.83
PULL UP TORQUE	N.m	1373.17
PULL UP TORQUE/FULL LOAD TORQUE	P.U.	1.89
EFFICIENCY @ FULL LOAD	%	94.45
POWER FACTOR @ FULL LOAD		0.857
FULL LOAD SLIP	%	1.424
FULL LOAD SPEED	r/min	986
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

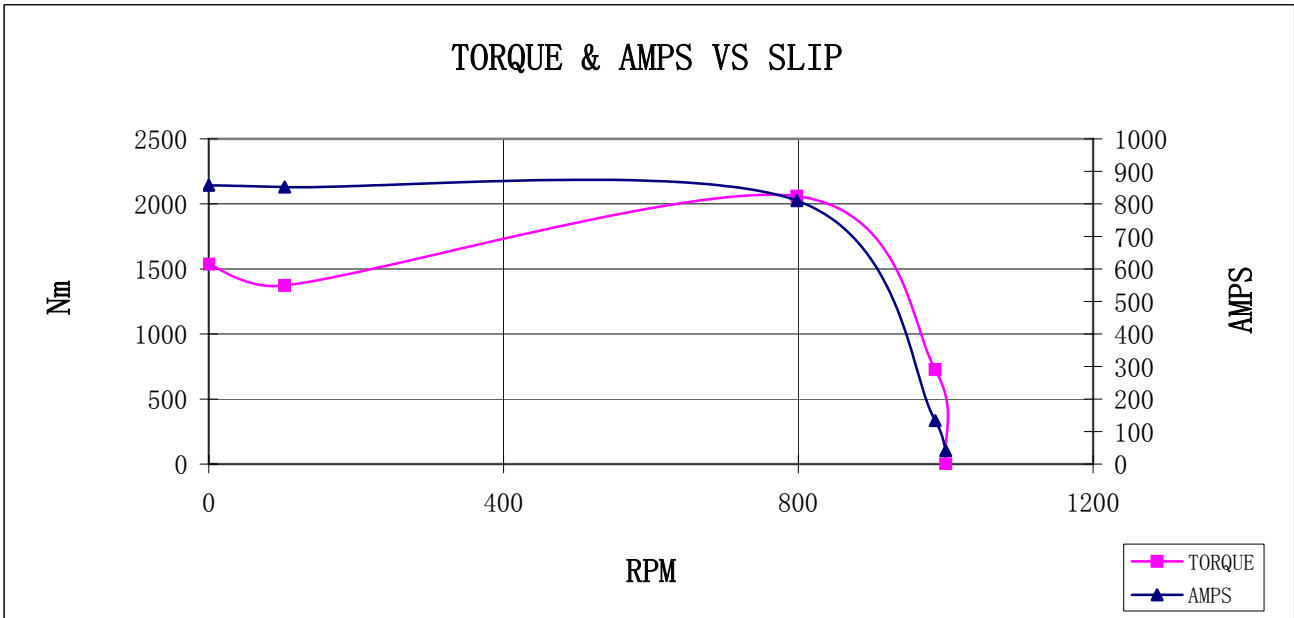
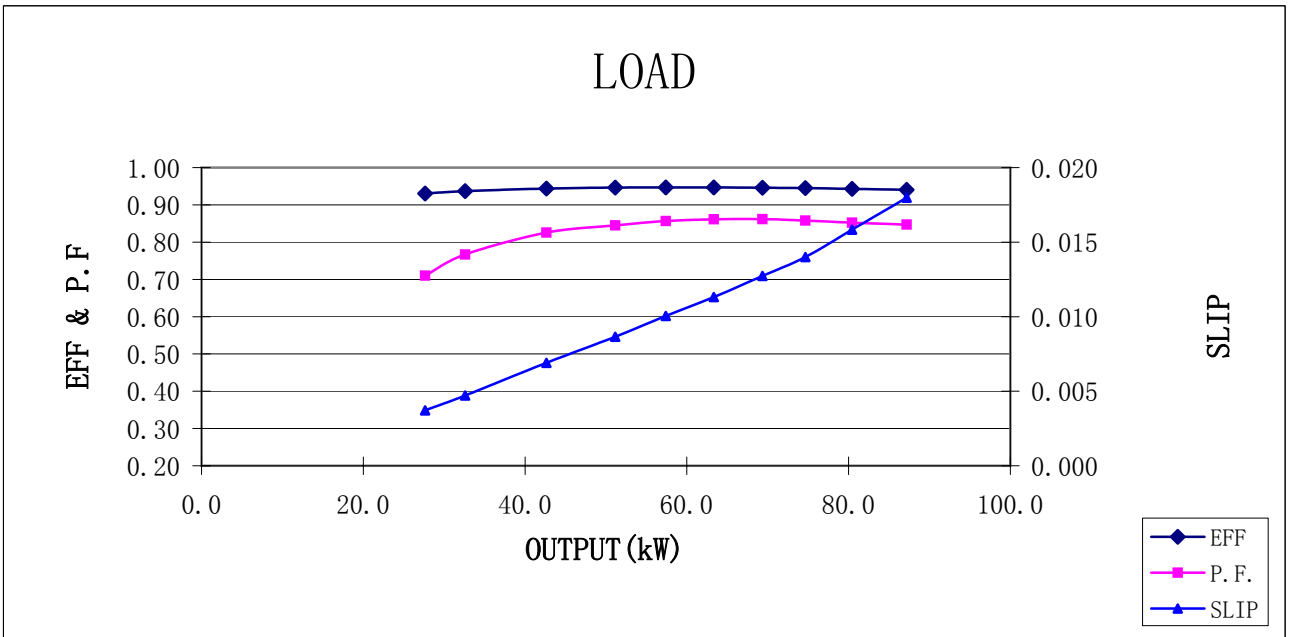
The data above is calculated as per IEC 34-2, all data at nominal Volts

<b>VALIADIS S.A.</b>  <b>K315S-6</b> <b>75 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>
	<b>APPRVD</b>		
	<b>CHECKED</b>		

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

<b>NAMEPLATE DATA</b>	<b>IEC TYPE</b>	<b>75 KW</b>	<b>986 RPM</b>
K315S-6 <b>FRAME</b>	<b>3 PHASE</b>	<b>400 VOLTS</b>	<b>50 HZ / CYCLES</b>
<b>94.5 EFFICIENCY</b>	<b>133.8 AMPS</b>	<b>55 IP</b>	<b>IC411 IC</b>
<b>6 POLE</b>	<b>S1 DUTY</b>	<b>0.857 PF</b>	<b>N/A EFF2</b>
<b>VALIADIS MANUFACTURER</b>	<b>SERIAL NO.</b>	<b>F INS.CLASS</b>	<b>DELTA CONNECTION</b>



<b>VALIADIS S.A.</b>	<b>SCALE</b>	N/A	
	<b>DATE</b>		<b>REV</b>
K315S-6 75 kW 400 VOLTS 50 Hz	<b>DRAWN</b>		<b>DOCUMENT NO.</b>
	<b>APPRVD</b>		
	<b>CHECKED</b>		

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

### NAMEPLATE DATA

K315S-6 FRAME  
 94.5 EFFICIENCY  
 6 POLE  
 VALIADIS MANUFACTURER

### IEC TYPE

3 PHASE  
 133.8 AMPS  
 S1 DUTY  
 SERIAL NO.

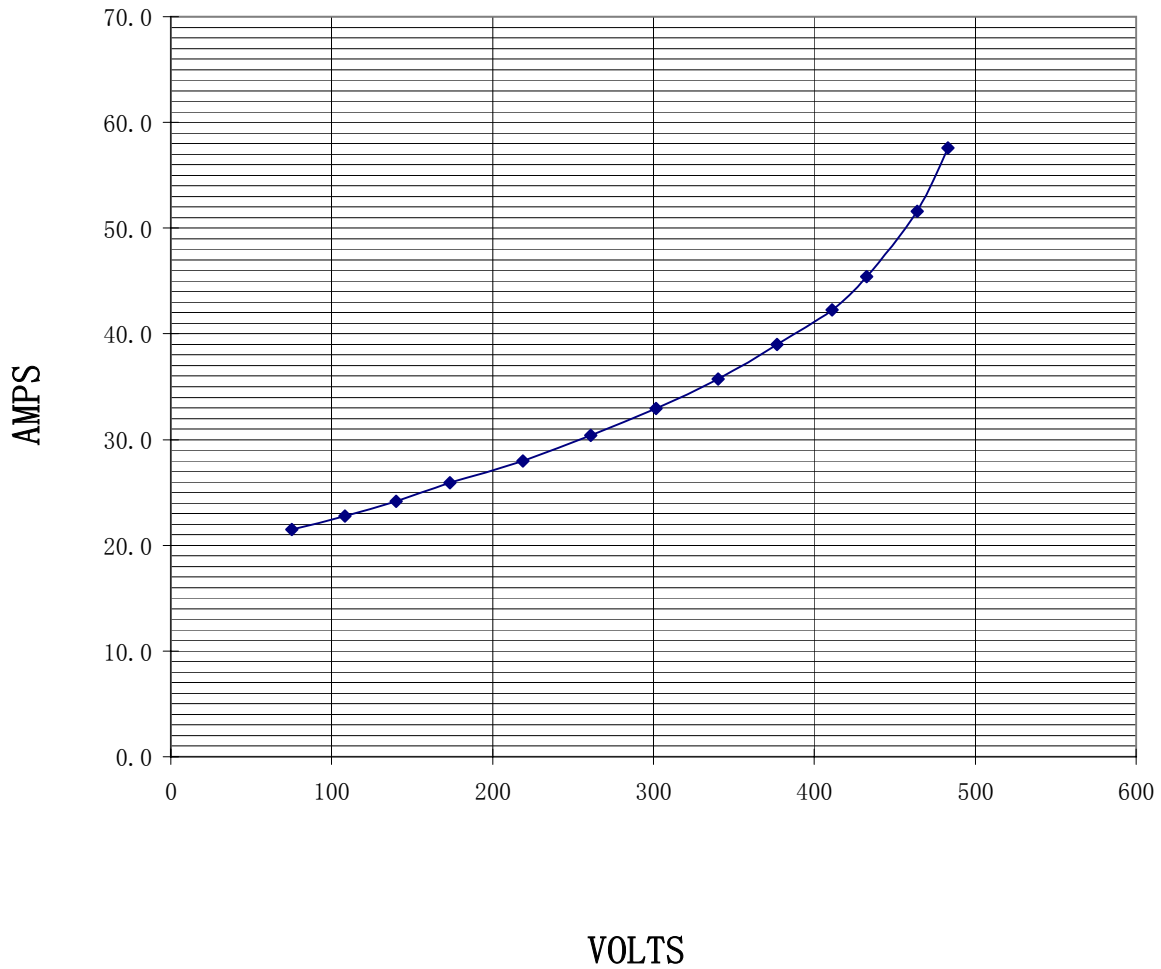
### 75 KW

400 VOLTS  
 55 IP  
 0.857 PF  
 F INS.CLASS

### 986 RPM

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

MAGNETIZATION CURVE - NO LOAD



<b>VALIADIS S.A.</b>  K315S-6 75 kW 400 VOLTS      50 Hz	SCALE	N/A	
	DATE		REV
	DRAWN		DOCUMENT NO.
	APPRVD		
CHECKED			