VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC	**TYPE**	0.75	**KW**	2820	**RPM**
AK80 - 2	**FRAME**	3	**PHASE**	400	**VOLTS**	50	**HZ/CYCLES**
75.5	**EFFICIENCY**	1.75	**AMPS**	55	**IP**	IC01	**IC**
2	**POLE**	S1	**DUTY**	0.82	**PF**	N/A	**EFF2**
VALIADIS	**MANUFACTURER**		**SERIAL NO.**	F	**INS. CLASS**	Y	**CONNECTION**

MAJOR CONTENTS			**UNIT**	**TESE VALUE**
STATOR RESISTANCE OF PHASE TO PHASE	75	DEG.C	**OHM**	20.6193
NO LOAD CURRENT			**AMP**	1.05
NO LOAD INPUT			**kW**	0.1207
CORE LOSS (Pfe)			**kW**	0.059
WINDAGE FRICTION LOSS (Pfw)			**kW**	0.028
STATOR WINDING LOSS(Pcu1)			**kW**	0.0958
ROTOR WINDING LOSS(Pcu2)			**kW**	0.0510
STRAY LOAD LOSS (Ps)			**kW**	0.0050
FULL LOAD CURRENT			**AMP**	1.76
LOCKED ROTOR CURRENT			**AMP**	10.14
LOCKED ROTOR CURRENT/FULL LOAD CURRENT			**P.U.**	5.8
LOCKED ROTOR INPUT @ 100% VOLT			**kW**	5.443
FULL LOAD TORQUE			**N.m.**	2.55
LOCKED ROTOR TORQUE			**N.m.**	8.00
LOCKED ROTOR TORQUE/FULL LOAD TORQUE			**P.U.**	3.14
PULL OUT TORQUE			**N.m.**	7.68
PULL OUT TORQUE/FULL LOAD TORQUE			**P.U.**	3.01
PULL UP TORQUE			**N.m.**	4.1
PULL UP TORQUE/FULL LOAD TORQUE			**P.U.**	1.61
EFFICIENCY @ FULL LOAD			**%**	75.89
POWER FACTOR @ FULL LOAD				0.812
FULL LOAD SLIP				6.10%
FULL LOAD SPEED			**r/min**	2817
STATOR WINDING TEMPERATURE RISE	30	SECS	**K**	59.9
DE BEARING TEMPERATURE BY PT100			**Deg. C**	41.5
NDE BEARING TEMPERATURE BY PT100			**Deg. C**	39.0
TEMPERATURE ON LEADS BY PT100			**Deg. C**	
TEMPERATURE IN TERMINAL BOX BY PT100			**Deg. C**	
AMBIENT TEMPERATURE BY PT100			**Deg. C**	
SOUND PRESSURE LEVEL			**dB (A)**	52.4
VIBRATION			**mm/s**	0.9
MOMENT OF INERTIA			**kgm^2**	0.00075
WEIGHT			**kg**	9.5

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

VALIADIS S.A.	**SCALE**	**N/A**		
	DATE		**REV**	
AK80 - 2	**DRAWN**		**DOCUMENT NO.**	
0.75 kW	**APPRVD**			
400 VOLTS 50 Hz	**CHECKED**			

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2	**POLE**	S1	**DUTY**	0.82	**PF**	N/A	**EFF2**
VALIADIS	**MANUFACTURER**		**SERIAL NO.**	F	**INS. CLASS**	Y	**CONNECTION**

TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	59.1	71.5	75.4	75.9	73.7	
PF	0.166	0.412	0.603	0.738	0.812	0.830	0.775
RPM	3000	2958	2915	2870	2817	2748	0
SLIP	0.00%	1.40%	2.83%	4.33%	6.10%	8.40%	100.00%
AMPS	1.05	1.11	1.27	1.46	1.76	2.24	10.14
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	0.60	1.24	1.87	2.55	3.30	8.00
KW INPUT	0.1207	0.3171	0.5307	0.7465	0.9903	1.2877	5.443
KW OUTPUT	0	0.187	0.379	0.563	0.752	0.949	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.038	0.050	0.066	0.096	0.155
STATOR LOSS %	12.02%	9.40%	8.83%	9.67%	2.85%
ROTOR LOSS Pcu2	0.003	0.012	0.027	0.051	0.090
ROTOR LOSS %	0.97%	2.25%	3.61%	5.15%	1.66%
CORE LOSS Pfe	0.059	0.059	0.059	0.059	0.059
CORE LOSS %	18.61%	11.12%	7.90%	5.96%	1.08%
WINDGE/FRICTION Pfw	0.028	0.028	0.028	0.028	0.028
WINDGE/FRICTION %	8.83%	5.28%	3.75%	2.83%	0.51%
STRAY LOAD LOSS Ps	0.002	0.003	0.004	0.005	0.006
STRAY LOAD LOSS %	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	17.42667	OHMS @	27.0	DEG.C.	BETWEEN STATOR LEADS	
STATOR RESISTANCE ADJUSTED	20.6193	OHMS @	75	DEG.C.	BETWEEN STATOR LEADS	
STATOR RESISTANCE HOT	21.48	OHMS	after test of temp rise		BETWEEN STATOR LEADS	
WINDING TEMPERATURE RISE	59.9	DEG.C.	at full load steady state at		30	SECS
WINDING TEMPERATURE RISE		DEG.C.	at full load steady state at		0	SECS
PT100 TEMPERATURE OF DE WINDING		DEG.C.	at full load steady state at ambient			DEG.C.
PT100 TEMPERATURE OF NDE WINDING		DEG.C.	at full load steady state at ambient			DEG.C.
PT100 TEMPERATURE OF DE BEARING	41.5	DEG.C.	at full load steady state at ambient		28.0	DEG.C.
PT100 TEMPERATURE OF NDE BEARING	39.0	DEG.C.	at full load steady state at ambient		28.0	DEG.C.
PT100 TEMPERATURE OF IN TERMINAL BOX		DEG.C.	at full load steady state at ambient			DEG.C.
PT100 TEMPERATURE OF ON STATOR LEAD		DEG.C.	at full load steady state at ambient			DEG.C.

OTHER

NOISE LEVEL (Lp)	52.4	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.9	mm/sec on no load	D.E. BEARING		
WEIGHT	9.5	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.	**SCALE**	**N/A**		
	DATE		**REV**	
AK80 - 2	**DRAWN**		**DOCUMENT NO.**	
0.75 kW	**APPRVD**			
400 VOLTS 50 Hz	**CHECKED**			

RESULT SUMMARY

VALIADIS S.A.

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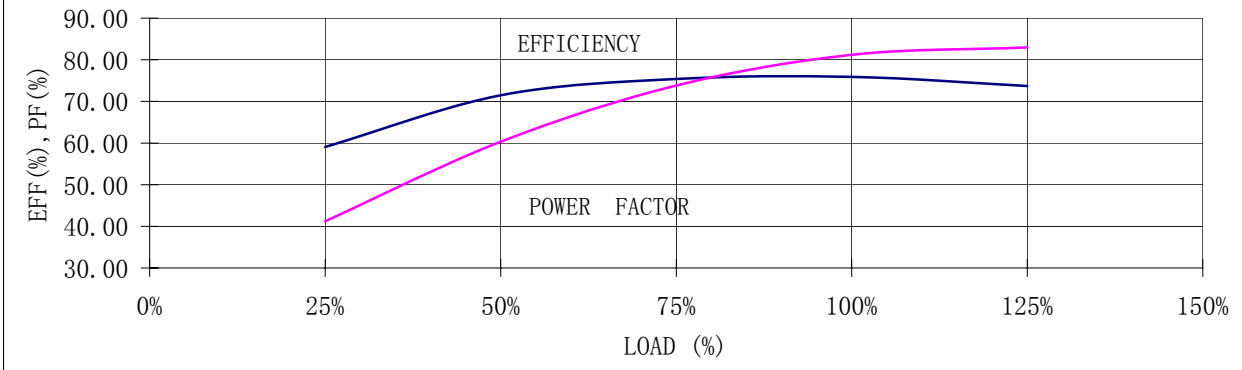
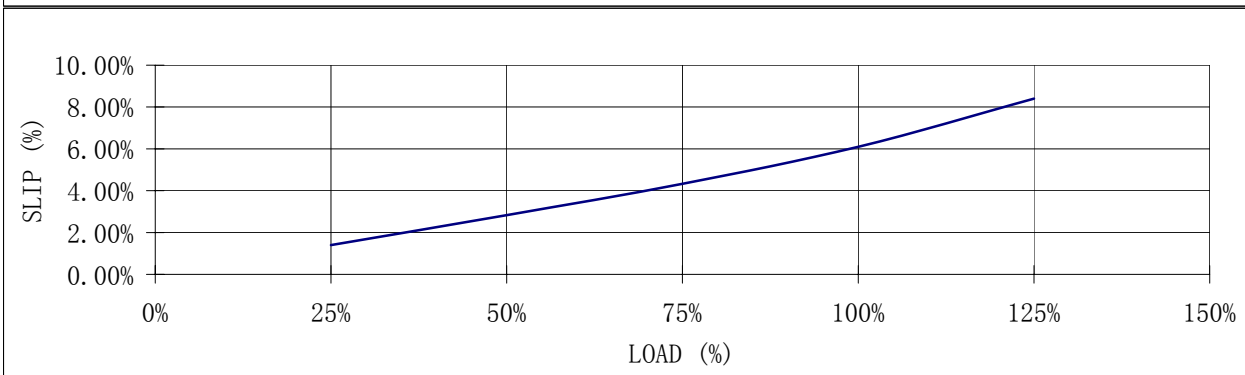
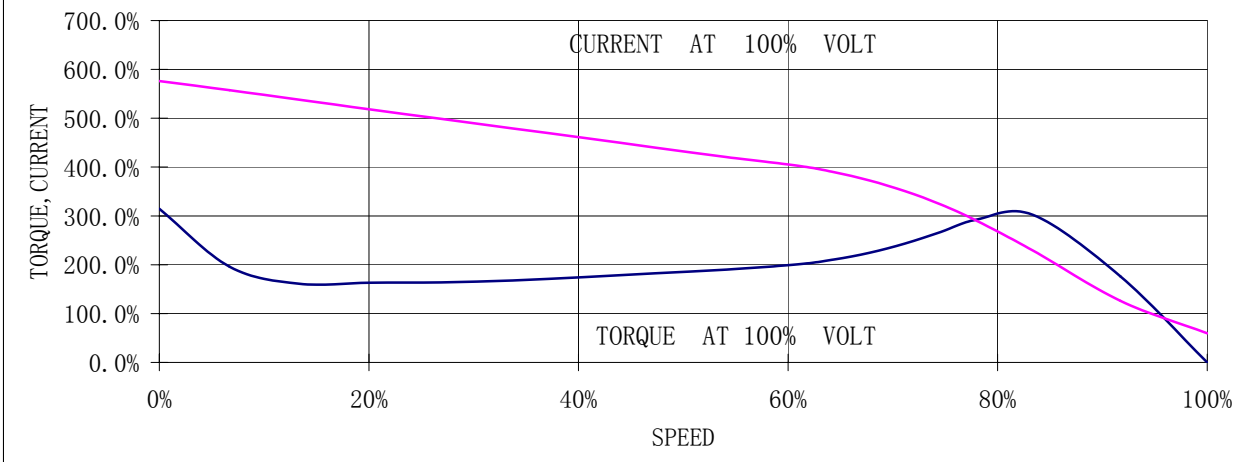
VALIADIS	MANUFACTURER		SERIAL NO.	F	INS. CLASS	Y	CONNECTION

LOAD TEST





SPEED VS TORQUE, CURRNET



VALIADIS S.A.	SCALE	N/A		
	DATE		REV	
AK80 - 2	DRAWN		DOCUMENT NO.	
0.75 kW	APPRVD			
400 VOLTS 50 Hz	CHECKED			

CURVE

VALIADIS S.A.

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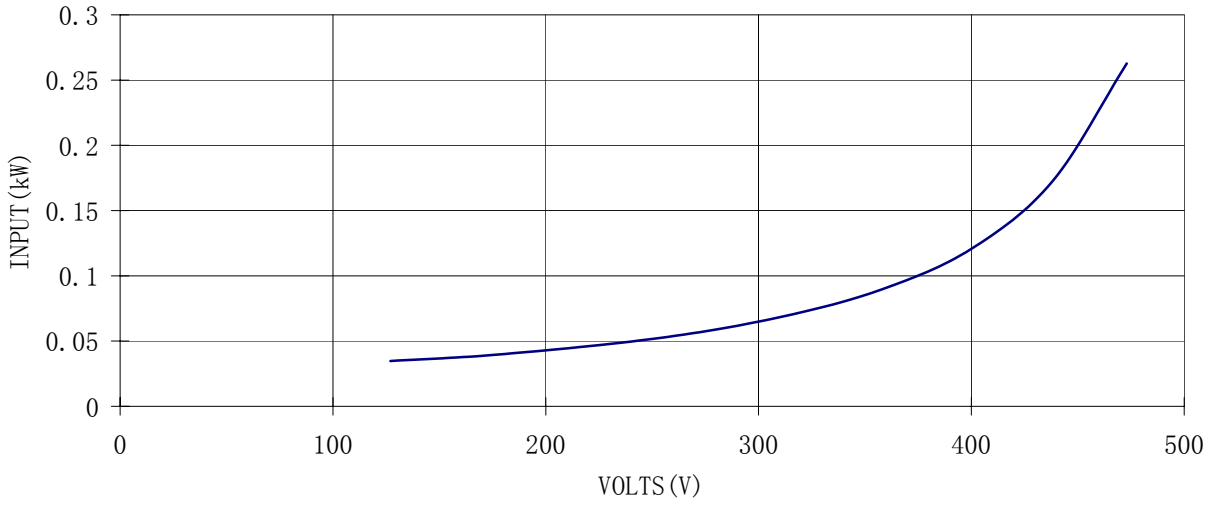
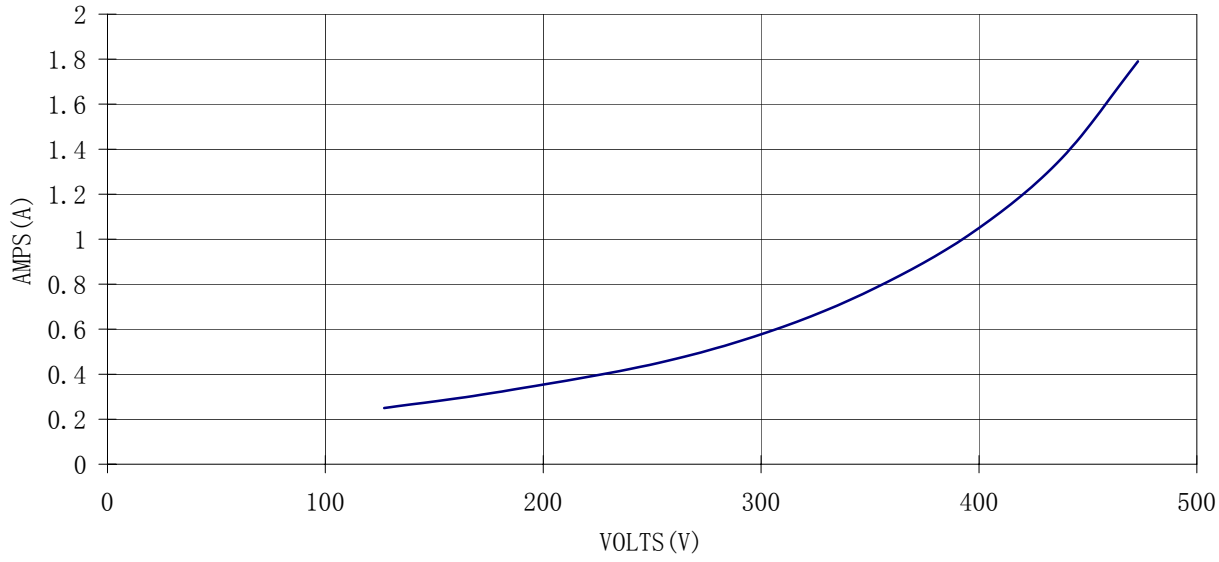
VALIADIS	**MANUFACTURER**		**SERIAL NO.**	F	**INS. CLASS**	Y	**CONNECTION**

NO LOAD TEST





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	DATE		**REV**	
AK80 - 2	**DRAWN**		**DOCUMENT NO.**	
0.75 kW	**APPRVD**			
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CURVE