

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	0.25	KW	1390	RPM
AK71 - 4 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
65.0 EFFICIENCY	0.75	AMPS	55	IP	IC01	IC
4 POLE	S1	DUTY	0.74	PF	N/A	EFF2
VALIADIS MANUFACTURER		SERIAL NO.	F	INS. CLASS	Y	CONNECTION

MAJOR CONTENTS		UNIT	TEST VALUE	
STATOR RESISTANCE OF PHASE TO PHASE	75	DEG.C	OHM	70.9598
NO LOAD CURRENT			AMP	0.57
NO LOAD INPUT			kW	0.0827
CORE LOSS (Pfe)			kW	0.048
WINDAGE FRICTION LOSS (Pfw)			kW	0.005
STATOR WINDING LOSS(Pcu1)			kW	0.0599
ROTOR WINDING LOSS(Pcu2)			kW	0.0184
STRAY LOAD LOSS (Ps)			kW	0.0019
FULL LOAD CURRENT			AMP	0.75
LOCKED ROTOR CURRENT			AMP	3.45
LOCKED ROTOR CURRENT/FULL LOAD CURRENT			P.U.	4.6
LOCKED ROTOR INPUT @ 100% VOLT			kW	1.828
FULL LOAD TORQUE			N.m.	1.70
LOCKED ROTOR TORQUE			N.m.	4.72
LOCKED ROTOR TORQUE/FULL LOAD TORQUE			P.U.	2.78
PULL OUT TORQUE			N.m.	5.23
PULL OUT TORQUE/FULL LOAD TORQUE			P.U.	3.08
PULL UP TORQUE			N.m.	2.84
PULL UP TORQUE/FULL LOAD TORQUE			P.U.	1.67
EFFICIENCY @ FULL LOAD			%	65.10
POWER FACTOR @ FULL LOAD				0.735
FULL LOAD SLIP				6.73%
FULL LOAD SPEED			r/min	1399
STATOR WINDING TEMPERATURE RISE	30	SECS	K	28.4
DE BEARING TEMPERATURE BY PT100			Deg. C	35.0
NDE BEARING TEMPERATURE BY PT100			Deg. C	35.0
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)	48.5
VIBRATION			mm/s	0.6
MOMENT OF INERTIA			kgm ²	0.00045
WEIGHT			kg	6.3

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

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK71 - 4 0.25 kW 400 VOLTS 50 Hz				DRAWN		DOCUMENT NO.	
				APPRVD			
				CHECKED			

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TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	40.3	56.1	62.7	65.1	64.8	
PF	0.209	0.378	0.529	0.646	0.735	0.803	0.765
RPM	1500	1482	1455	1430	1399	1355	0
SLIP	0.00%	1.20%	3.00%	4.67%	6.73%	9.67%	100.00%
AMPS	0.57	0.57	0.6	0.66	0.75	0.87	3.45
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	0.39	0.81	1.24	1.70	2.21	4.72
KW INPUT	0.0827	0.1494	0.2197	0.2954	0.3817	0.4837	1.828
KW OUTPUT	0	0.060	0.123	0.185	0.248	0.313	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.035	0.038	0.046	0.060	0.081
STATOR LOSS %	23.15%	17.44%	15.70%	15.69%	4.41%
ROTOR LOSS Pcu2	0.001	0.004	0.009	0.018	0.034
ROTOR LOSS %	0.54%	1.82%	3.18%	4.83%	1.88%
CORE LOSS Pfe	0.048	0.048	0.048	0.048	0.048
CORE LOSS %	32.13%	21.85%	16.25%	12.58%	2.63%
WINDGE/FRICTION Pfw	0.005	0.005	0.005	0.005	0.005
WINDGE/FRICTION %	3.35%	2.28%	1.69%	1.31%	0.27%
STRAY LOAD LOSS Ps	0.001	0.001	0.001	0.002	0.002
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	55.28 OHMS @	6.5	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	70.9598 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	61.9 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	28.4 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	35.0 DEG.C.	at full load steady state at ambient		7.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	35.0 DEG.C.	at full load steady state at ambient		7.0 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)	48.5	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.6	mm/sec on no load	D.E. BEARING		
WEIGHT		kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

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				DATE		REV	
AK71 - 4				DRAWN		DOCUMENT NO.	
0.25	kW			APPRVD			
400	VOLTS	50	Hz	CHECKED			

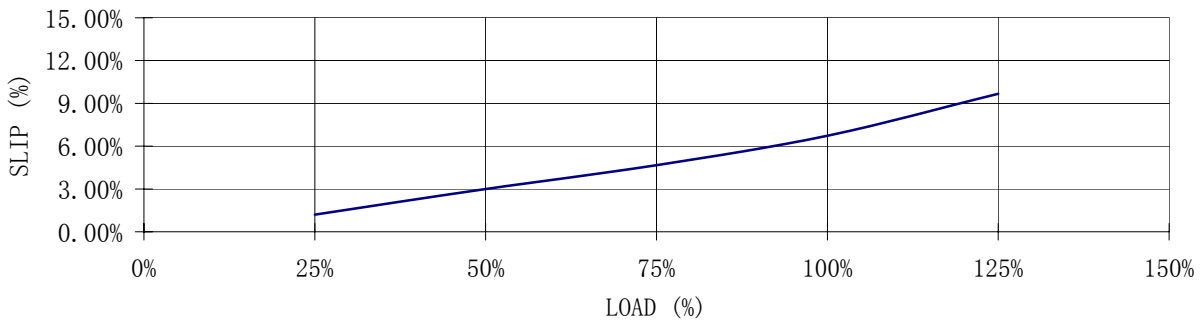
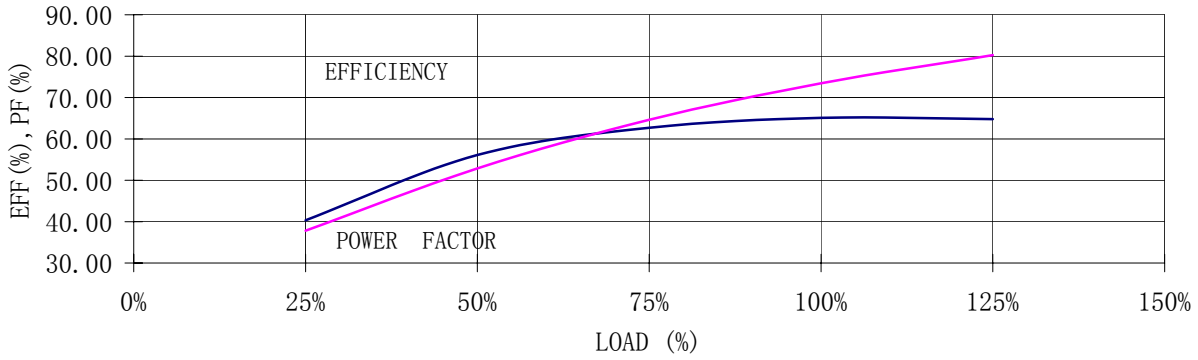
RESULT SUMMARY

VALIADIS S.A.

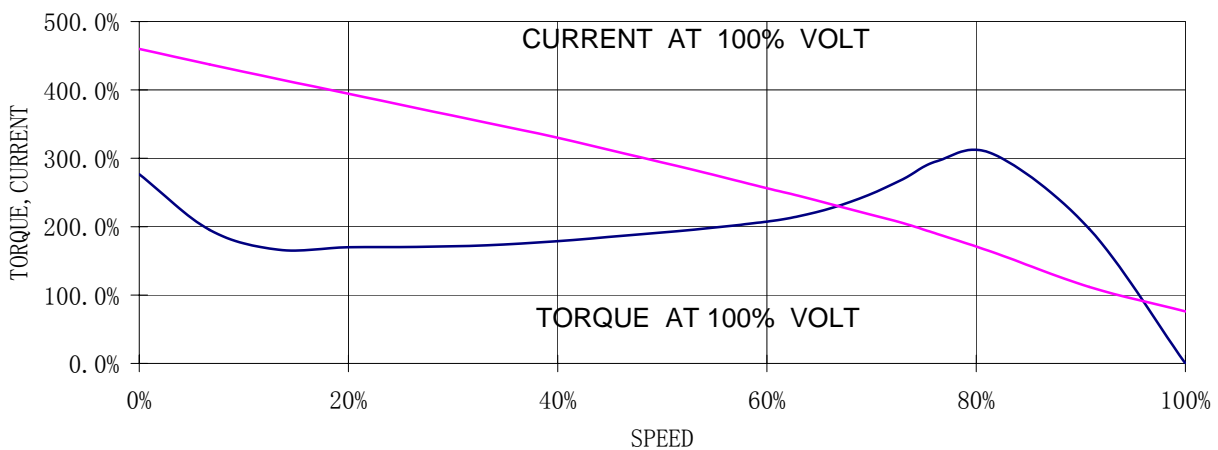
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LOAD TEST



SPEED VS TORQUE, CURRENT



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	DATE		REV
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	0.25 kW	APPRVD	
400 VOLTS 50 Hz	CHECKED		

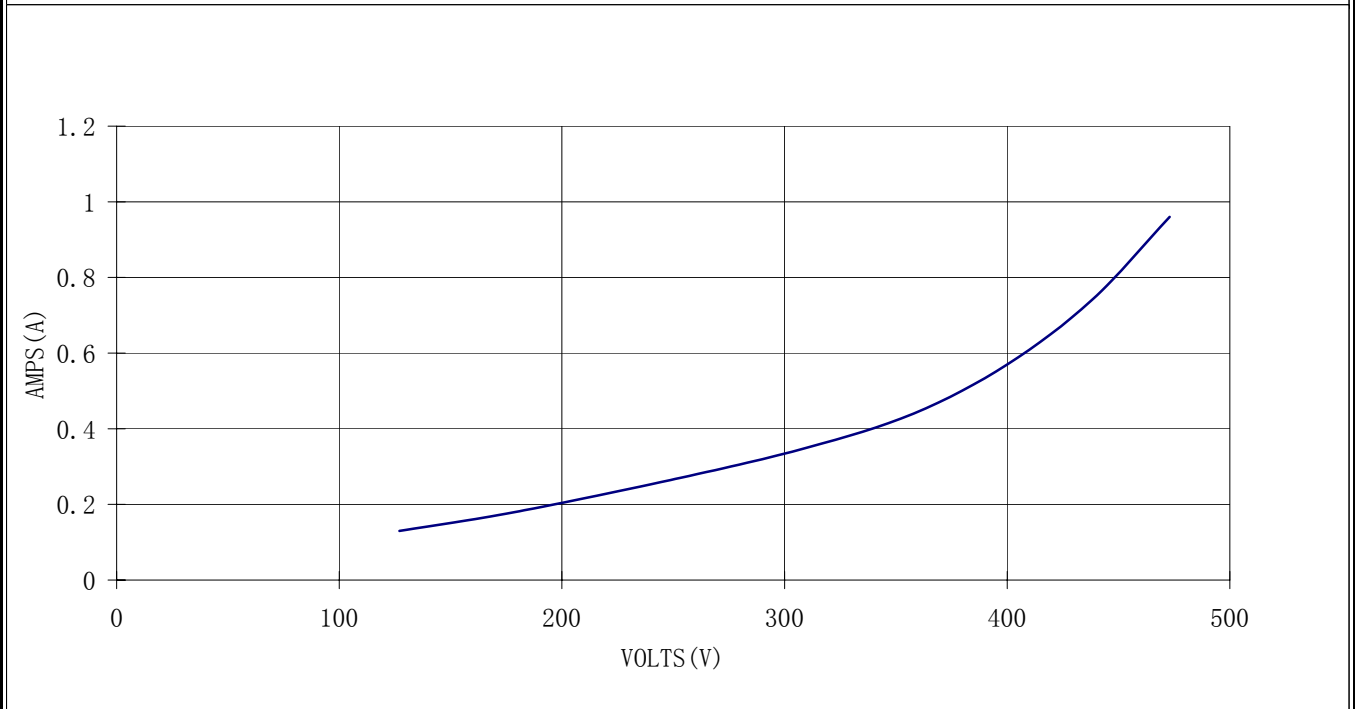
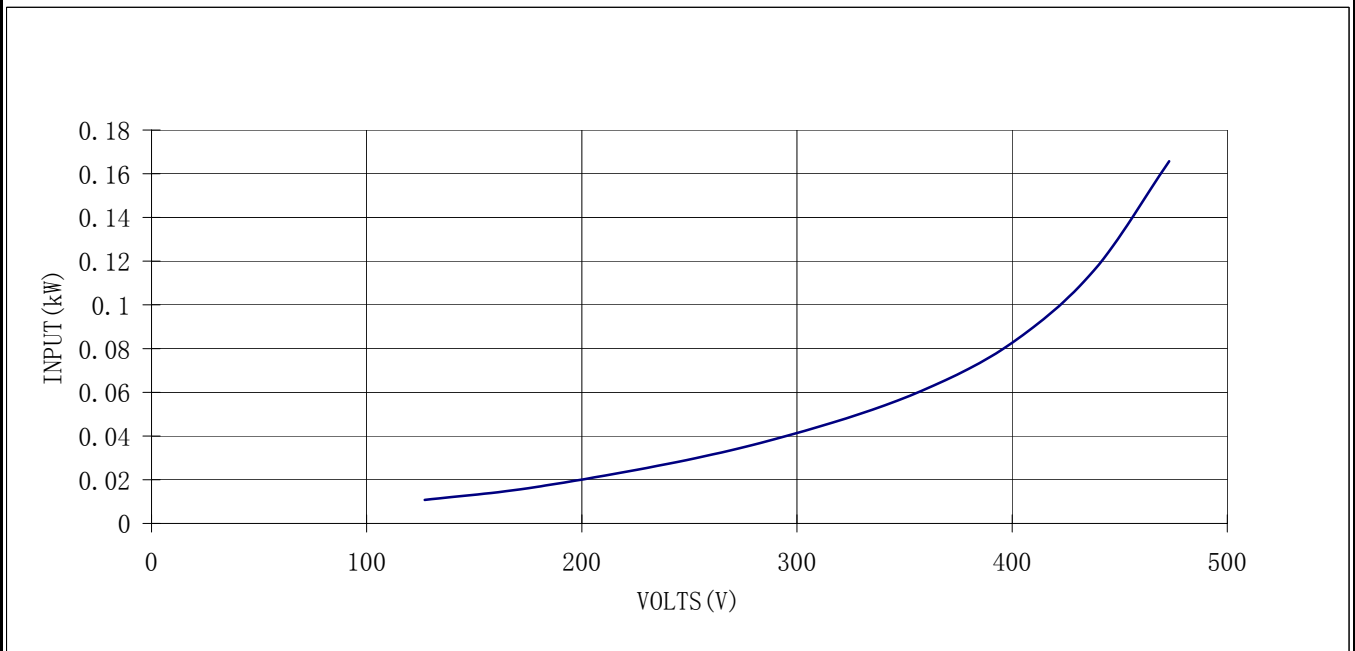
CURVE

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400 VOLTS 50 Hz	CHECKED			

CURVE