

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	3	KW	2865	RPM	
AK100L-2	FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
83.0	EFFICIENCY	6.00	AMPS	55	IP	IC01	IC
2	POLE	S1	DUTY	0.87	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 4.2764
NO LOAD CURRENT		AMP 2.45
NO LOAD INPUT		kW 0.2504
CORE LOSS (Pfe)		kW 0.141
WINDAGE FRICTION LOSS (Pfw)		kW 0.074
STATOR WINDING LOSS(Pcu1)		kW 0.2302
ROTOR WINDING LOSS(Pcu2)		kW 0.1434
STRAY LOAD LOSS (Ps)		kW 0.0180
FULL LOAD CURRENT		AMP 5.99
LOCKED ROTOR CURRENT		AMP 45.64
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 7.6
LOCKED ROTOR INPUT @ 100% VOLT		kW 22.783
FULL LOAD TORQUE		N.m. 9.99
LOCKED ROTOR TORQUE		N.m. 28.71
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.87
PULL OUT TORQUE		N.m. 35.61
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 3.56
PULL UP TORQUE		N.m. 20.08
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 2.01
EFFICIENCY @ FULL LOAD		% 83.18
POWER FACTOR @ FULL LOAD		0.869
FULL LOAD SLIP		4.43%
FULL LOAD SPEED		r/min 2867
STATOR WINDING TEMPERATURE RISE	30 SECS	K 56.5
DE BEARING TEMPERATURE BY PT100		Deg. C 55.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 56.0
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) 69
VIBRATION		mm/s 1.1
MOMENT OF INERTIA		kgm ² 0.0029
WEIGHT		kg 22

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

VALIADIS S.A.	SCALE	N/A		
	DATE		REV	
AK100L- 2	DRAWN		DOCUMENT NO.	
3 kW	APPRVD			
400 VOLTS 50 Hz	CHECKED			

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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	73.2	81.5	83.4	83.2	81.9	
PF	0.148	0.552	0.736	0.826	0.869	0.893	0.721
RPM	3000	2973	2941	2906	2867	2825	0
SLIP	0.00%	0.90%	1.97%	3.13%	4.43%	5.83%	100.00%
AMPS	2.45	2.67	3.6	4.71	5.99	7.41	45.64
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	2.40	4.86	7.39	9.99	12.70	28.71
KW INPUT	0.2504	1.0209	1.8356	2.6937	3.6065	4.585	22.783
KW OUTPUT	0	0.748	1.497	2.247	3.000	3.756	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.046	0.083	0.142	0.230	0.352
STATOR LOSS %	4.48%	4.53%	5.28%	6.38%	1.55%
ROTOR LOSS Pcu2	0.008	0.032	0.076	0.143	0.239
ROTOR LOSS %	0.74%	1.73%	2.80%	3.98%	1.05%
CORE LOSS Pfe	0.141	0.141	0.141	0.141	0.141
CORE LOSS %	13.81%	7.68%	5.23%	3.91%	0.62%
WINDGE/FRICTION Pfw	0.074	0.074	0.074	0.074	0.074
WINDGE/FRICTION %	7.25%	4.03%	2.75%	2.05%	0.32%
STRAY LOAD LOSS Ps	0.005	0.009	0.013	0.018	0.023
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	3.58667 OHMS @	25.0	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	4.2764 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	4.3659 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	56.5 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	55.0 DEG.C.	at full load steady state at ambient		25.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	56.0 DEG.C.	at full load steady state at ambient		25.0 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)	69	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	1.1	mm/sec on no load	D.E. BEARING		
WEIGHT	22	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

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				DATE		REV	
AK100L - 2				DRAWN		DOCUMENT NO.	
				APPRVD			
				CHECKED			
3	400	VOLTS	50	kW	Hz		

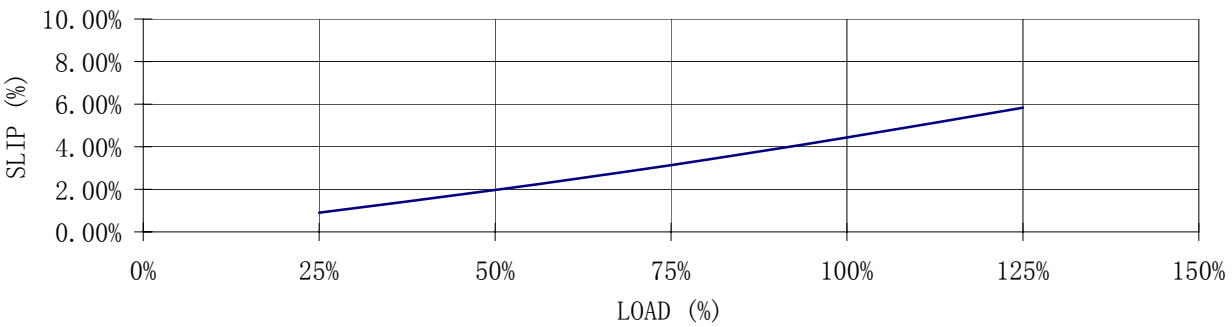
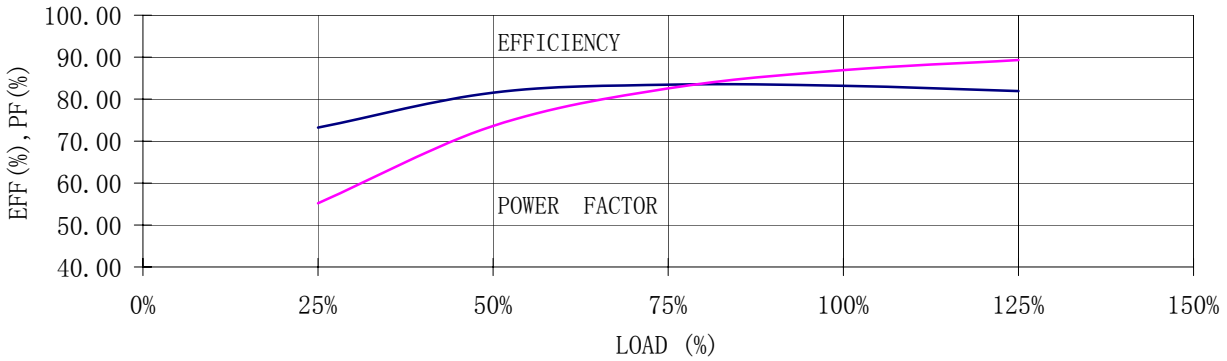
RESULT SUMMARY

VALIADIS S.A.

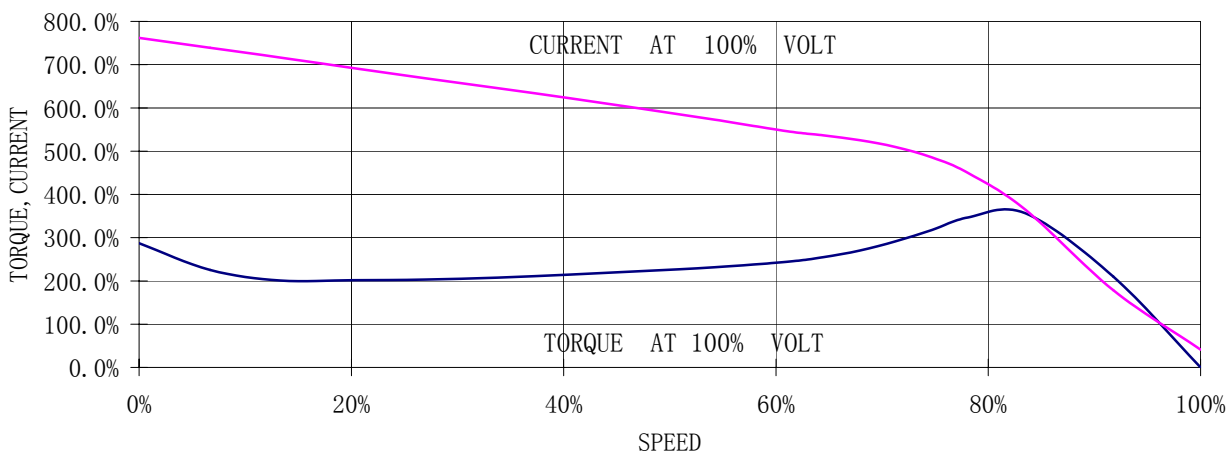
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LOAD TEST



SPEED VS TORQUE, CURRENT



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		DATE		REV
	AK100L - 2	DRAWN		DOCUMENT NO.
	3	APPRVD		
400	CHECKED			
	kw			
	50			
	Hz			

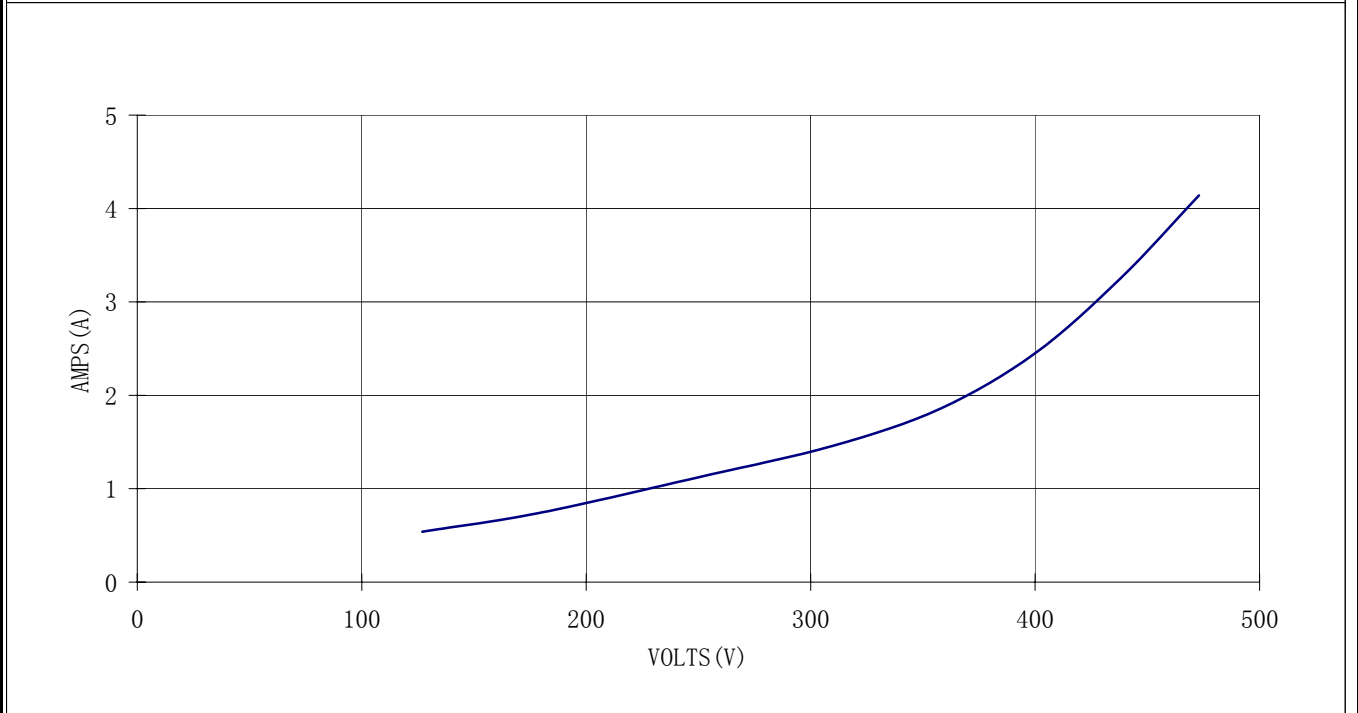
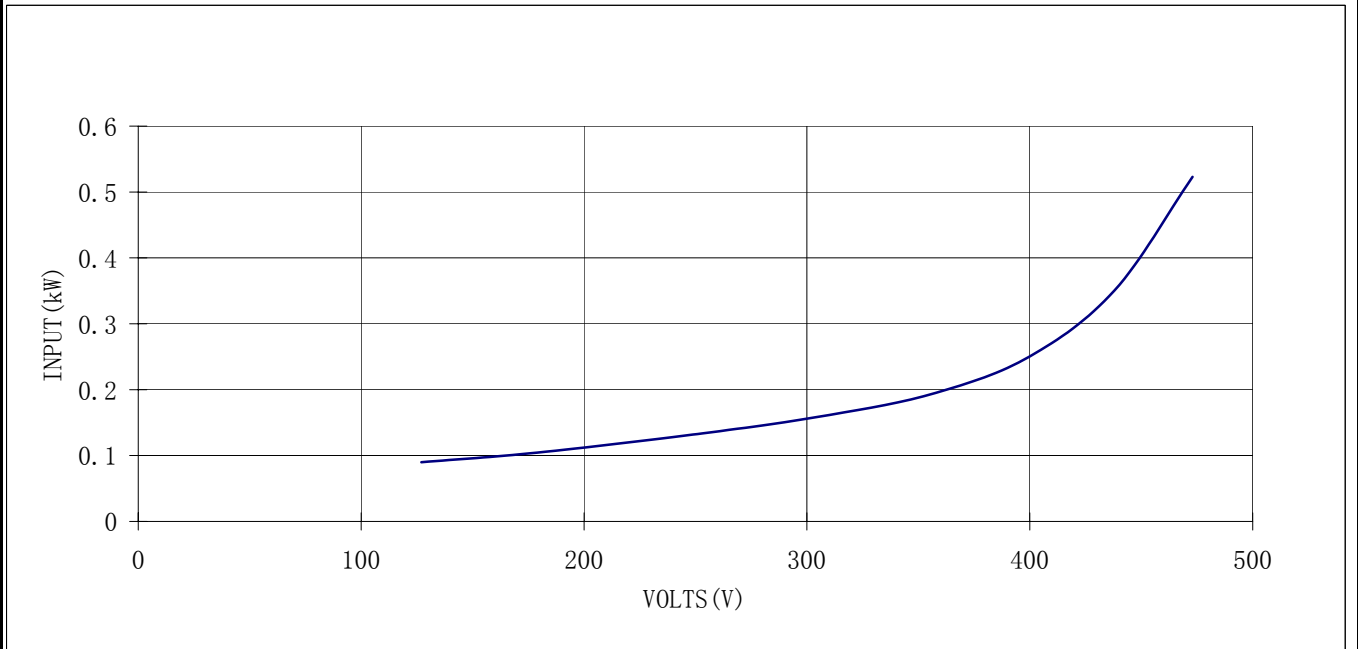
CURVE

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NO LOAD TEST



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		DATE		REV
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400 VOLTS 50 Hz	CHECKED			

CURVE