

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	1.1	KW	700	RPM
AK100L - 8 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
72.0 EFFICIENCY	3.20	AMPS	55	IP	IC01	IC
8 POLE	S1	DUTY	0.69	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 14.2258
NO LOAD CURRENT		AMP 2.48
NO LOAD INPUT		kW 0.2574
CORE LOSS (Pfe)		kW 0.115
WINDAGE FRICTION LOSS (Pfw)		kW 0.009
STATOR WINDING LOSS(Pcu1)		kW 0.2158
ROTOR WINDING LOSS(Pcu2)		kW 0.0887
STRAY LOAD LOSS (Ps)		kW 0.0077
FULL LOAD CURRENT		AMP 3.18
LOCKED ROTOR CURRENT		AMP 12.93
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 4.1
LOCKED ROTOR INPUT @ 100% VOLT		kW 5.985
FULL LOAD TORQUE		N.m. 15.17
LOCKED ROTOR TORQUE		N.m. 42.87
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.83
PULL OUT TORQUE		N.m. 42.57
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.81
PULL UP TORQUE		N.m. 24.94
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.64
EFFICIENCY @ FULL LOAD		% 71.68
POWER FACTOR @ FULL LOAD		0.699
FULL LOAD SLIP		7.33%
FULL LOAD SPEED		r/min 695
STATOR WINDING TEMPERATURE RISE	30 SECS	K 42.6
DE BEARING TEMPERATURE BY PT100		Deg. C 65.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 66.0
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) 49.3
VIBRATION		mm/s 0.9
MOMENT OF INERTIA		kgm ² 0.0107
WEIGHT		kg 25

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

VALIADIS S.A.		SCALE	N/A		
		DATE		REV	
AK100L - 8 1.1 kW 400 VOLTS 50 Hz		DRAWN		DOCUMENT NO.	
		APPRVD			
		CHECKED			

VALIADIS S.A.

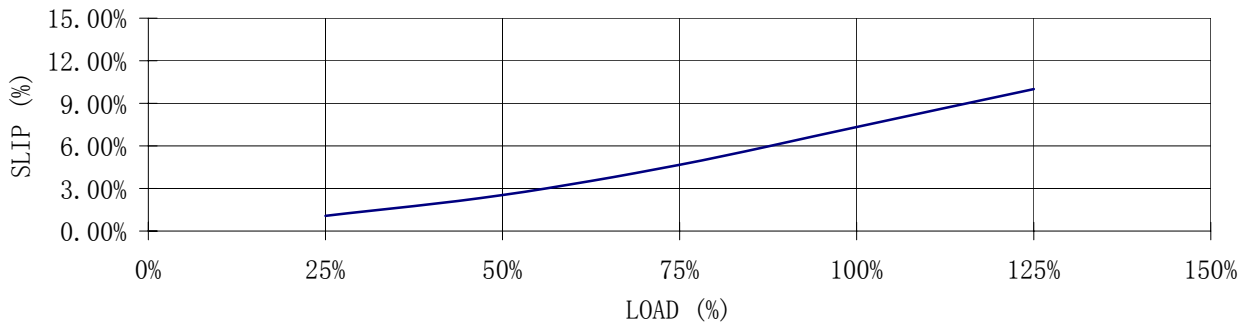
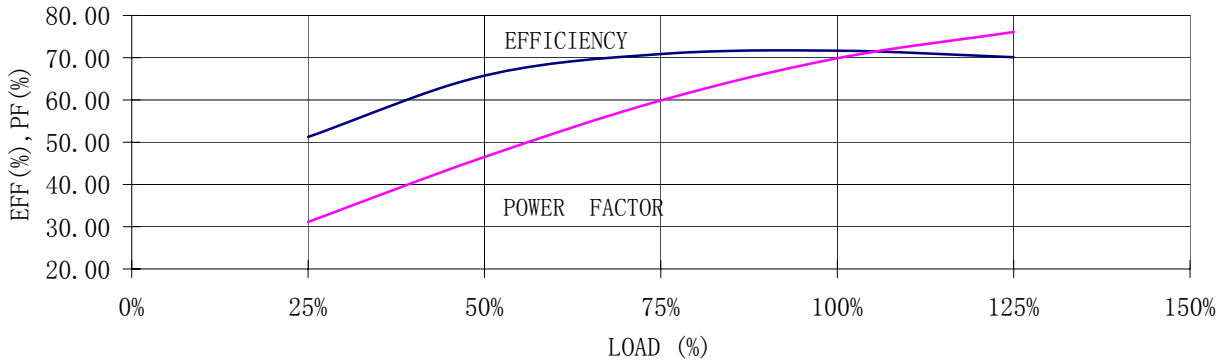
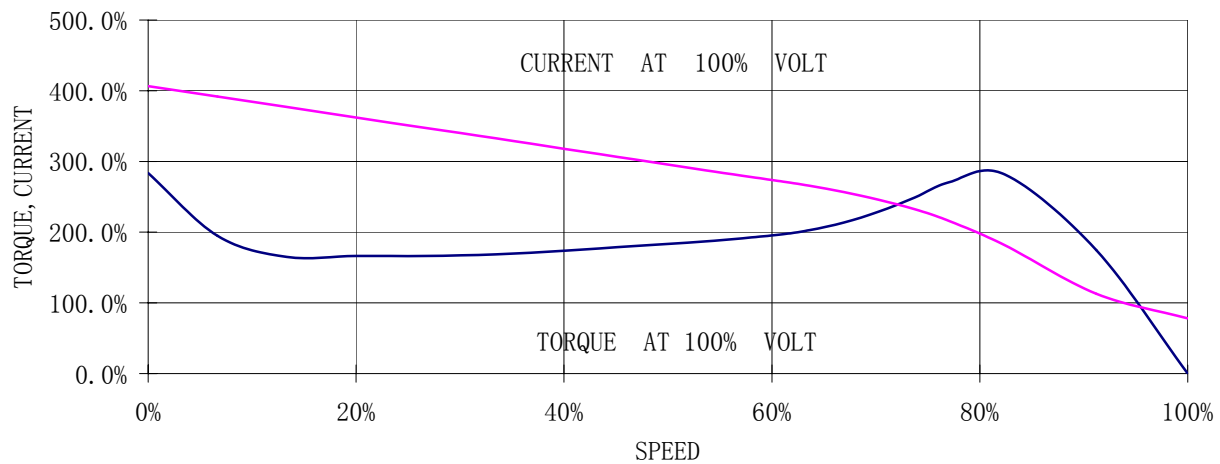
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8	POLE	S1	DUTY	0.69	PF	N/A	EFF2
VALIADIS	MANUFACTURER	SERIAL NO.	F	INS. CLASS	Y	CONNECTION	
TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	51.2	65.7	70.9	71.7	70.1	
PF	0.150	0.312	0.465	0.599	0.699	0.761	0.668
RPM	750	742	731	715	695	675	0
SLIP	0.00%	1.07%	2.53%	4.67%	7.33%	10.00%	100.00%
AMPS	2.48	2.49	2.6	2.81	3.18	3.76	12.93
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	3.54	7.20	11.03	15.17	19.67	42.87
KW INPUT	0.2574	0.5374	0.8381	1.1655	1.5399	1.9821	5.985
KW OUTPUT	0	0.275	0.551	0.826	1.104	1.390	
LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD		
STATOR LOSS Pcu1	0.132	0.144	0.168	0.216	0.302		
STATOR LOSS %	24.62%	17.21%	14.46%	14.01%	5.04%		
ROTOR LOSS Pcu2	0.003	0.015	0.041	0.089	0.157		
ROTOR LOSS %	0.58%	1.75%	3.53%	5.76%	2.62%		
CORE LOSS Pfe	0.115	0.115	0.115	0.115	0.115		
CORE LOSS %	21.40%	13.72%	9.87%	7.47%	1.92%		
WINDGE/FRICTION Pfw	0.009	0.009	0.009	0.009	0.009		
WINDGE/FRICTION %	1.67%	1.07%	0.77%	0.58%	0.15%		
STRAY LOAD LOSS Ps	0.003	0.004	0.006	0.008	0.010		
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	11.656 OHMS @	19.0	DEG.C.	BETWEEN STATOR LEADS			
STATOR RESISTANCE ADJUSTED	14.2258 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS			
STATOR RESISTANCE HOT	13.6579 OHMS	after test of temp rise		BETWEEN STATOR LEADS			
WINDING TEMPERATURE RISE	42.6 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	65.0 DEG.C.	at full load steady state at ambient	20.0	DEG.C.			
PT100 TEMPERATURE OF NDE BEARING	66.0 DEG.C.	at full load steady state at ambient	20.0	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)	49.3	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS		
VIBRATION LEVEL	0.9	mm/sec on no load	D.E. BEARING				
WEIGHT	25	kg	N.D.E. BEARING				
H-POT TEST VOLTS	1800	VOLTS					
VALIADIS S.A.				SCALE	N/A		
AK100L - 8				DATE		REV	
1.1 kW				DRAWN		DOCUMENT NO.	
400 VOLTS 50 Hz				APPRVD			
				CHECKED			

RESULT SUMMARY

VALIADIS S.A.**ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR**

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VALIADIS	MANUFACTURER		SERIAL NO.	F	INS. CLASS	Y	CONNECTION

LOAD TEST**SPEED VS TORQUE, CURRENT**

	VALIADIS S.A.	SCALE	N/A		
		DATE		REV	
	AK100L- 8	DRAWN		DOCUMENT NO.	
		APPRVD			
1.1	kw	CHECKED			
400	VOLTS				
	50				
	Hz				

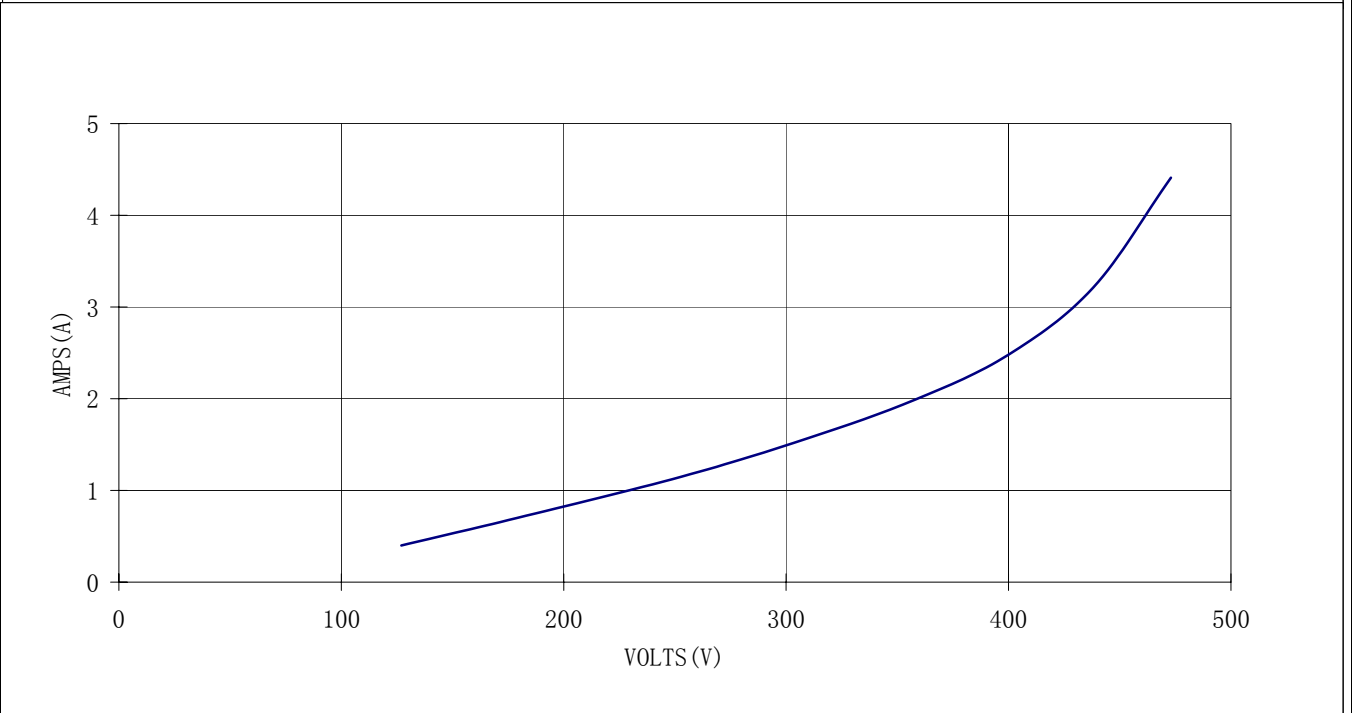
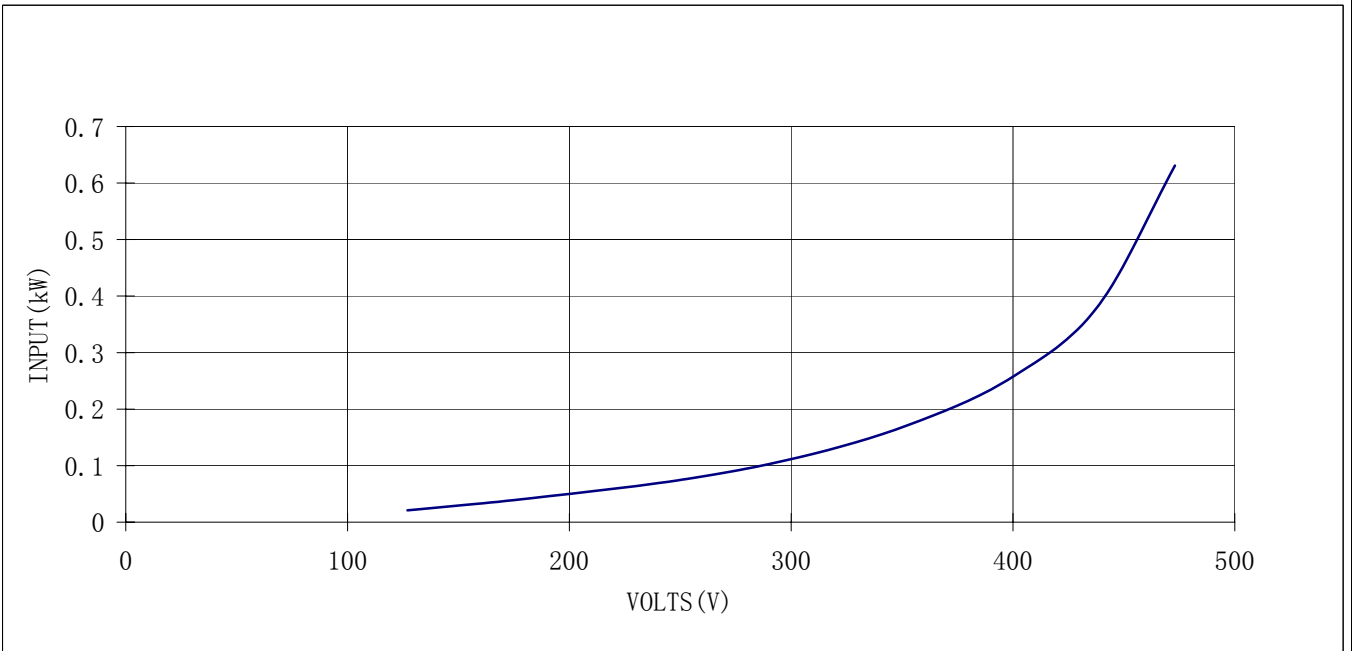
CURVE

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VALIADIS	MANUFACTURER	SERIAL NO.		F	INS. CLASS	Y	CONNECTION

NO LOAD TEST



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		DATE		REV	
		DRAWN		DOCUMENT NO.	
		APPRVD			
	AK100L - 8	CHECKED			
	1.1 kW				
	400 VOLTS 50 Hz				