

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	7.5	KW	1440	RPM
AK132M-4 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
87.0 EFFICIENCY	14.6	AMPS	55	IP	IC01	IC
4 POLE	S1	DUTY	0.85	PF	N/A	EFF2
VALIADIS MANUFACTURER		SERIAL NO.	F	INS. CLASS	DELTA	CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	75 DEG.C	OHM 1.4543
NO LOAD CURRENT		AMP 5.57
NO LOAD INPUT		kW 0.3449
CORE LOSS (Pfe)		kW 0.233
WINDAGE FRICTION LOSS (Pfw)		kW 0.043
STATOR WINDING LOSS(Pcu1)		kW 0.4574
ROTOR WINDING LOSS(Pcu2)		kW 0.3162
STRAY LOAD LOSS (Ps)		kW 0.0430
FULL LOAD CURRENT		AMP 14.48
LOCKED ROTOR CURRENT		AMP 102.96
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 7.1
LOCKED ROTOR INPUT @ 100% VOLT		kW 42.551
FULL LOAD TORQUE		N.m. 49.76
LOCKED ROTOR TORQUE		N.m. 120.56
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.42
PULL OUT TORQUE		N.m. 160.7
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 3.23
PULL UP TORQUE		N.m. 86.42
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.74
EFFICIENCY @ FULL LOAD		% 87.29
POWER FACTOR @ FULL LOAD		0.857
FULL LOAD SLIP		4.00%
FULL LOAD SPEED		r/min 1440
STATOR WINDING TEMPERATURE RISE	30 SECS	K 72.9
DE BEARING TEMPERATURE BY PT100		Deg. C 61.5
NDE BEARING TEMPERATURE BY PT100		Deg. C 57.5
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) 56.5
VIBRATION		mm/s 1.0
MOMENT OF INERTIA		kgm ² 0.0296
WEIGHT		kg 50

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

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK132M-4 7.5 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	82.2	87.6	88.3	87.3	85.5	
PF	0.089	0.499	0.717	0.817	0.857	0.870	0.597
RPM	1500	1485	1472	1458	1440	1420	0
SLIP	0.00%	1.00%	1.87%	2.80%	4.00%	5.33%	100.00%
AMPS	5.57	6.48	8.56	11.23	14.48	18.31	102.96
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	11.85	24.15	36.74	49.76	63.43	120.56
KW INPUT	0.3449	2.2402	4.2522	6.355	8.5955	11.0302	42.551
KW OUTPUT	0	1.842	3.723	5.608	7.503	9.431	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.092	0.160	0.275	0.457	0.731
STATOR LOSS %	4.09%	3.76%	4.33%	5.32%	1.72%
ROTOR LOSS Pcu2	0.019	0.072	0.164	0.316	0.537
ROTOR LOSS %	0.86%	1.69%	2.58%	3.68%	1.26%
CORE LOSS Pfe	0.233	0.233	0.233	0.233	0.233
CORE LOSS %	10.40%	5.48%	3.67%	2.71%	0.55%
WINDGE/FRICTION Pfw	0.043	0.043	0.043	0.043	0.043
WINDGE/FRICTION %	1.92%	1.01%	0.68%	0.50%	0.10%
STRAY LOAD LOSS Ps	0.011	0.021	0.032	0.043	0.055
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	1.21976 OHMS @	25.0	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	1.4543 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	1.576 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	72.9 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	61.5 DEG.C.	at full load steady state at ambient		28.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	57.5 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)	56.5	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	1.0	mm/sec on no load	D.E. BEARING		
WEIGHT	50	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK132M-4				DRAWN		DOCUMENT NO.	
7.5		kW		APPRVD			
400	VOLTS	50	Hz	CHECKED			

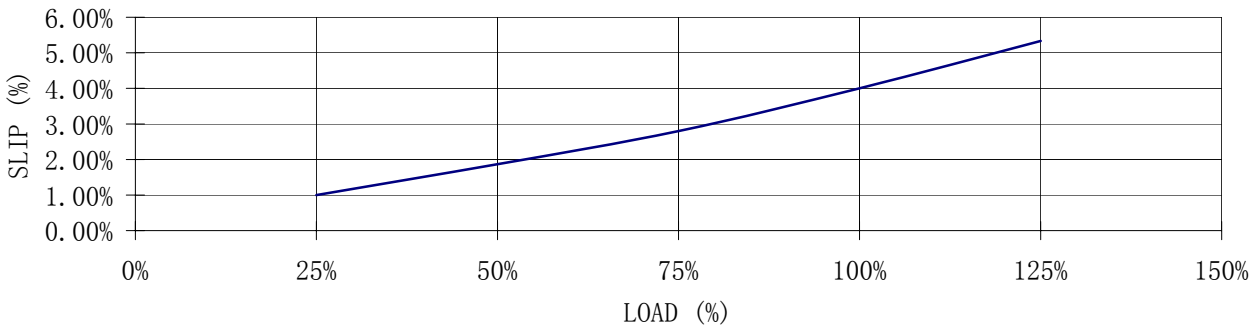
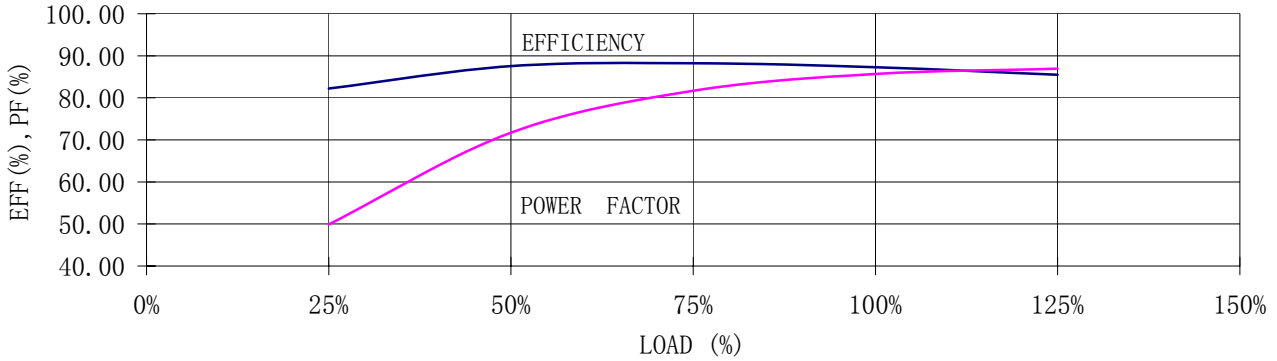
RESULT SUMMARY

VALIADIS S.A.

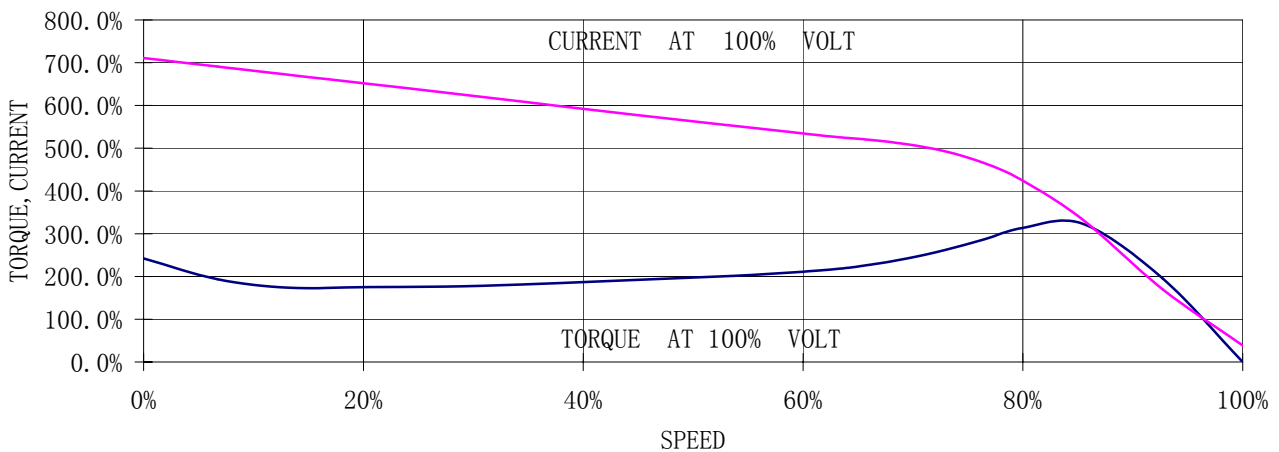
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LOAD TEST



SPEED VS TORQUE, CURRENT



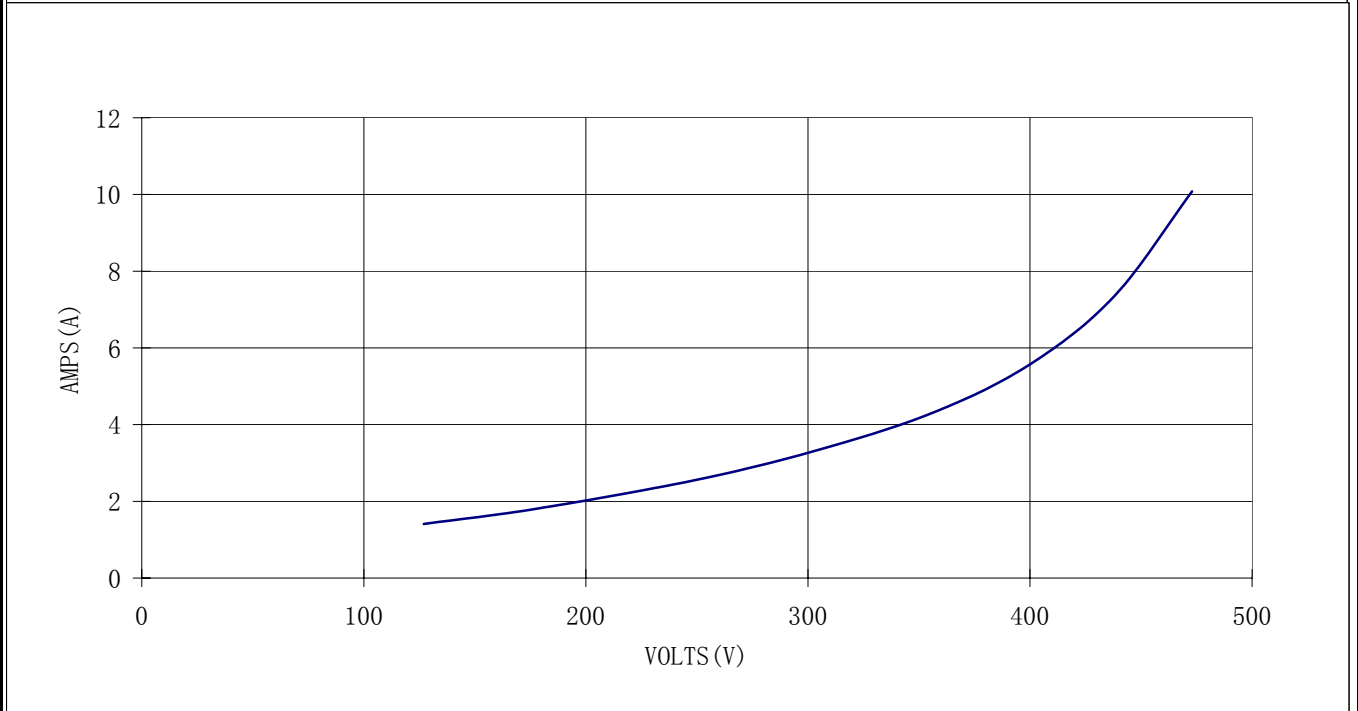
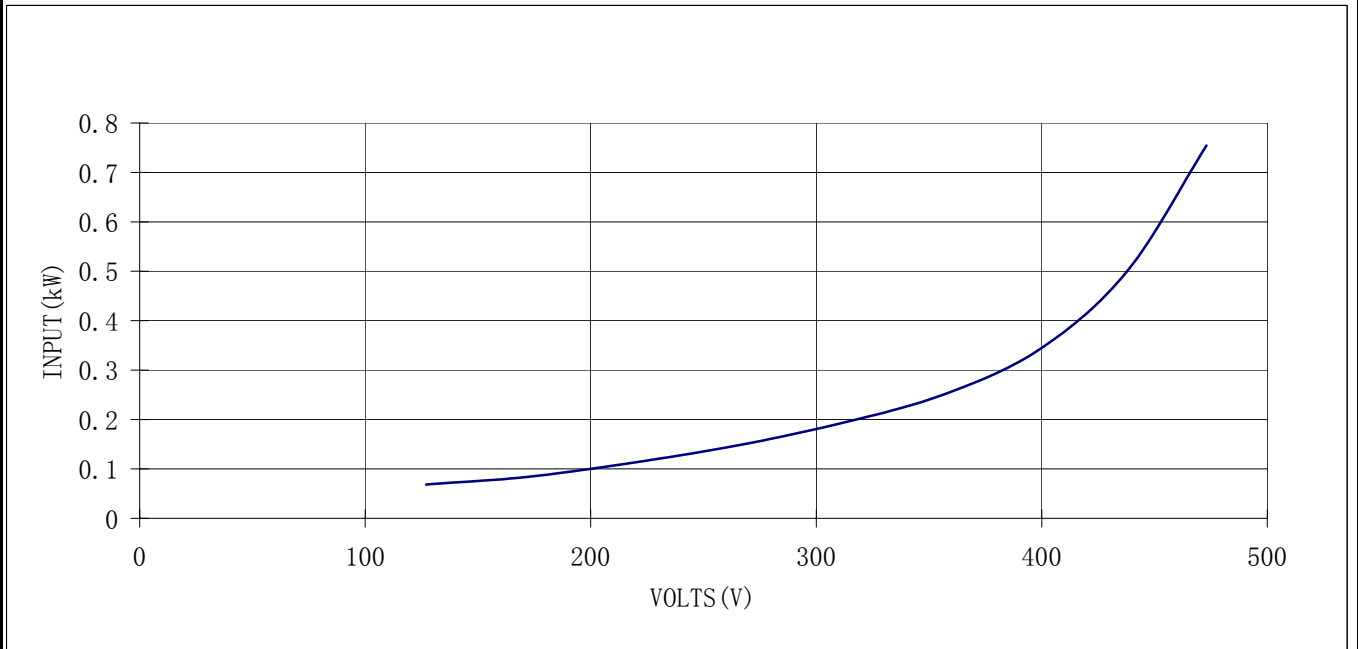
	VALIADIS S.A.	SCALE	N/A	
		DATE		REV
	AK132M - 4	DRAWN		DOCUMENT NO.
	7.5 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

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				DATE		REV
	AK132M - 4			DRAWN		DOCUMENT NO.
	7.5	kW		APPRVD		
400	VOLTS	50	CHECKED			

CURVE