

# VALIADIS S.A.

## ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

<b>NAMEPLATE DATA</b>	IEC	TYPE	7.5	KW	2885	RPM
AK132S-2 <b>FRAME</b>	3	<b>PHASE</b>	400	<b>VOLTS</b>	50	<b>HZ/CYCLES</b>
87.5 <b>EFFICIENCY</b>	13.9	<b>AMPS</b>	55	<b>IP</b>	IC01	<b>IC</b>
2 <b>POLE</b>	S1	<b>DUTY</b>	0.89	<b>PF</b>	N/A	<b>EFF2</b>
VALIADIS <b>MANUFACTURER</b>		<b>SERIAL NO.</b>	F	<b>INS. CLASS</b>	DELTA	<b>CONNECTION</b>

MAJOR CONTENTS	UNIT	TESE VALUE
STATOR RESISTANCE OF PHASE TO PHASE	75 DEG.C	OHM 1.2836
NO LOAD CURRENT		AMP 4.37
NO LOAD INPUT		kW 0.3832
CORE LOSS (Pfe)		kW 0.22
WINDAGE FRICTION LOSS (Pfw)		kW 0.127
STATOR WINDING LOSS(Pcu1)		kW 0.3656
ROTOR WINDING LOSS(Pcu2)		kW 0.3086
STRAY LOAD LOSS (Ps)		kW 0.0428
FULL LOAD CURRENT		AMP 13.78
LOCKED ROTOR CURRENT		AMP 94.64
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 6.9
LOCKED ROTOR INPUT @ 100% VOLT		kW 33.79
FULL LOAD TORQUE		N.m. 24.84
LOCKED ROTOR TORQUE		N.m. 54.73
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.20
PULL OUT TORQUE		N.m. 87.45
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 3.52
PULL UP TORQUE		N.m. 41.77
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.68
EFFICIENCY @ FULL LOAD		% 87.58
POWER FACTOR @ FULL LOAD		0.897
FULL LOAD SLIP		3.87%
FULL LOAD SPEED		r/min 2884
STATOR WINDING TEMPERATURE RISE	30 SECS	K 76.6
DE BEARING TEMPERATURE BY PT100		Deg. C 69.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 65.0
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) 70.5
VIBRATION		mm/s 0.8
MOMENT OF INERTIA		kgm <sup>2</sup> 0.0126
WEIGHT		kg 42

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

<b>VALIADIS S.A.</b>	SCALE	N/A		
	DATE		REV	
AK132S-2	DRAWN		DOCUMENT NO.	
7.5 kW	APPRVD			
400 VOLTS 50 Hz	CHECKED			

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2	<b>POLE</b>	S1	<b>DUTY</b>	0.89	<b>PF</b>	N/A
VALIADIS	<b>MANUFACTURER</b>	<b>SERIAL NO.</b>	F	<b>INS. CLASS</b>	DELTA	<b>CONNECTION</b>

<b>TEST DATA</b>	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD	LOCKED ROTOR
EFFICIENCY	0	81.2	87.2	88.2	87.6	86.2	
PF	0.127	0.620	0.805	0.875	0.897	0.901	0.515
RPM	3000	2976	2950	2919	2884	2847	0
SLIP	0.00%	0.80%	1.67%	2.70%	3.87%	5.10%	100.00%
AMPS	4.37	5.3	7.66	10.49	13.78	17.49	94.64
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	5.93	12.06	18.35	24.84	31.56	54.73
KW INPUT	0.3832	2.2771	4.2719	6.36	8.5659	10.9144	33.79
KW OUTPUT	0	1.849	3.725	5.609	7.502	9.408	

<b>LOSSES (kW)</b>	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.054	0.113	0.212	0.366	0.589
STATOR LOSS %	2.38%	2.64%	3.33%	4.27%	1.74%
ROTOR LOSS Pcu2	0.016	0.066	0.160	0.309	0.515
ROTOR LOSS %	0.70%	1.54%	2.52%	3.60%	1.53%
CORE LOSS Pfe	0.22	0.22	0.22	0.22	0.22
CORE LOSS %	9.66%	5.15%	3.46%	2.57%	0.65%
WINDGE/FRICTION Pfw	0.127	0.127	0.127	0.127	0.127
WINDGE/FRICTION %	5.58%	2.97%	2.00%	1.48%	0.38%
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	1.07033 OHMS @	23.5	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	1.2836 OHMS @	75	DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	1.375 OHMS	after test of temp rise		BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	76.6 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	69.0 DEG.C.	at full load steady state at ambient		20.5 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	65.0 DEG.C.	at full load steady state at ambient		20.5 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)	70.5	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.8	mm/sec on no load	D.E. BEARING		
WEIGHT	42	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

<b>VALIADIS S.A.</b>				<b>SCALE</b>	<b>N/A</b>		
				<b>DATE</b>		<b>REV</b>	
<b>AK132S-2</b>				<b>DRAWN</b>		<b>DOCUMENT NO.</b>	
				<b>APPRVD</b>			
				<b>CHECKED</b>			
<b>400</b>	<b>7.5</b>	<b>50</b>	<b>kW</b>	<b>Hz</b>			
<b>VOLTS</b>		<b>50</b>					

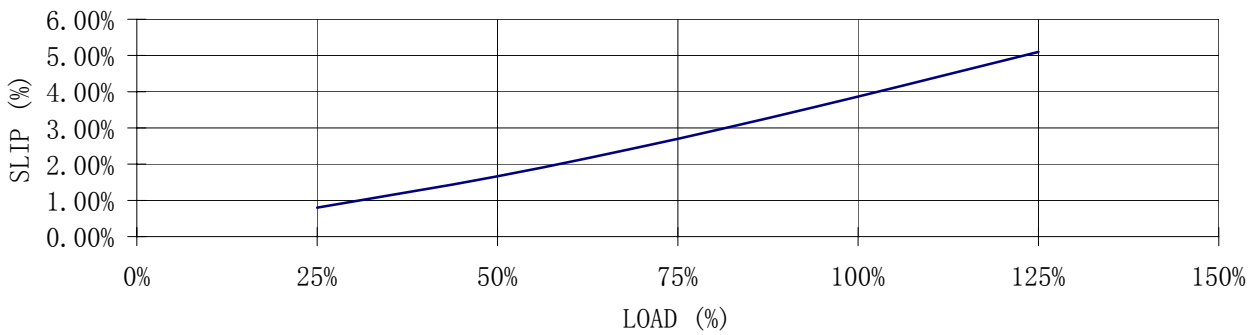
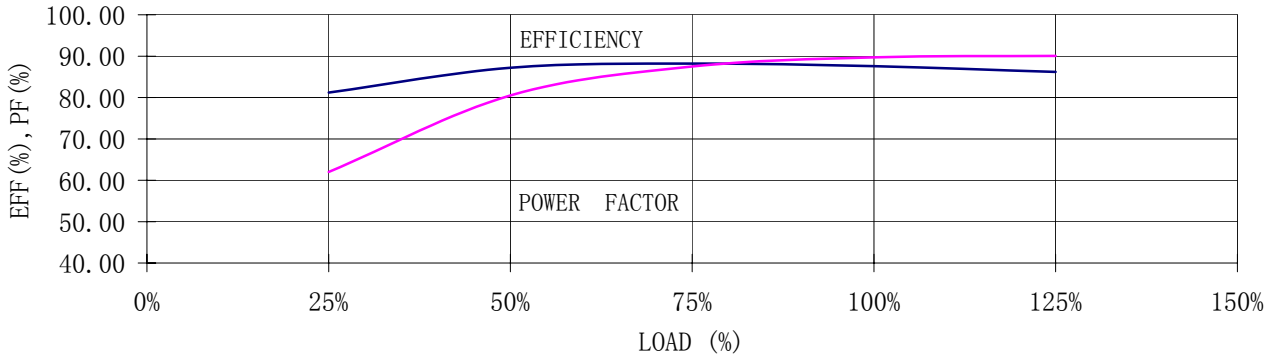
RESULT SUMMARY

# VALIADIS S.A.

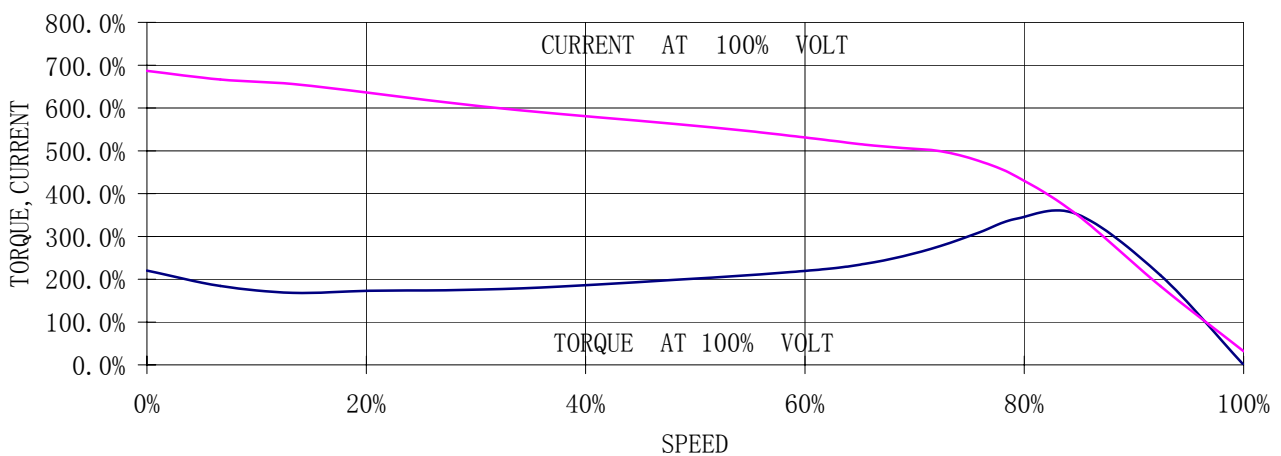
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VALIADIS	<b>MANUFACTURER</b>	<b>SERIAL NO.</b>	F	<b>INS. CLASS</b>	DELTA	<b>CONNECTION</b>

### LOAD TEST



### SPEED VS TORQUE, CURRENT



	<b>VALIADIS S.A.</b>	<b>SCALE</b>	N/A	
		<b>DATE</b>		<b>REV</b>
	<b>AK132S-2</b>	<b>DRAWN</b>		<b>DOCUMENT NO.</b>
	<b>7.5 kW</b>	<b>APPRVD</b>		
<b>400 VOLTS 50 Hz</b>	<b>CHECKED</b>			

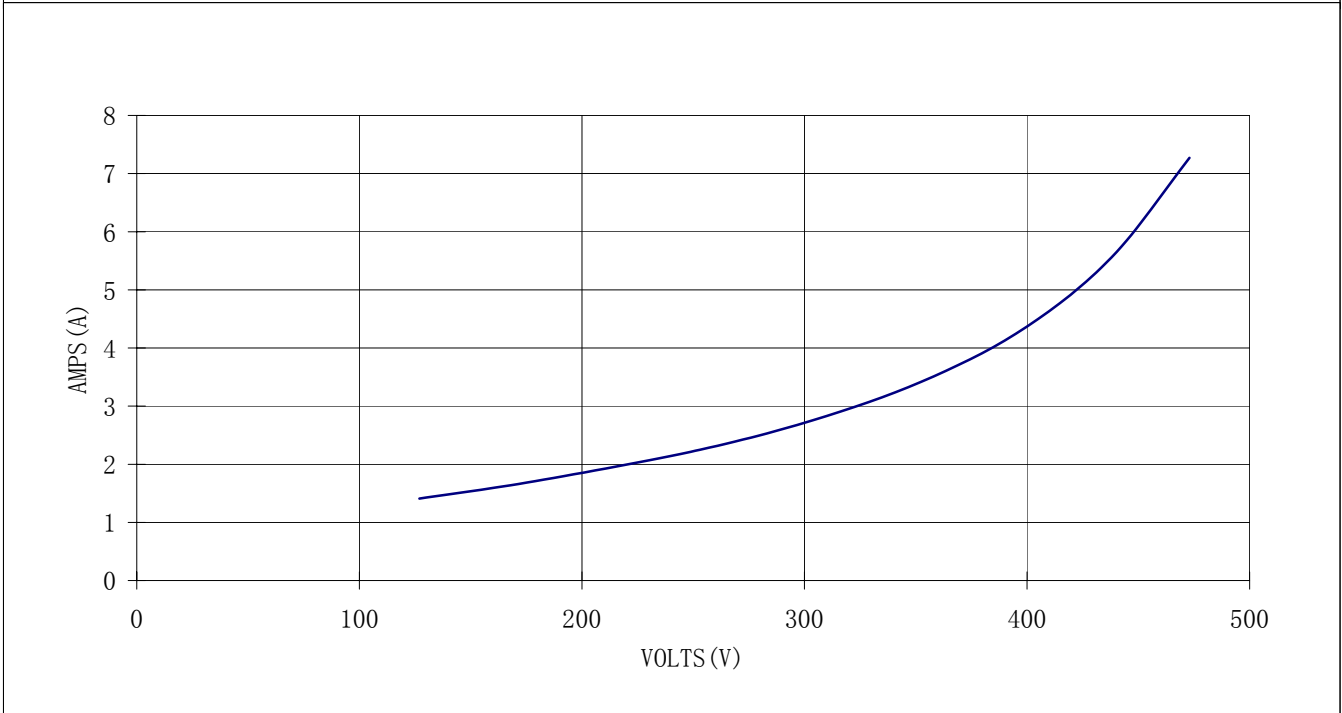
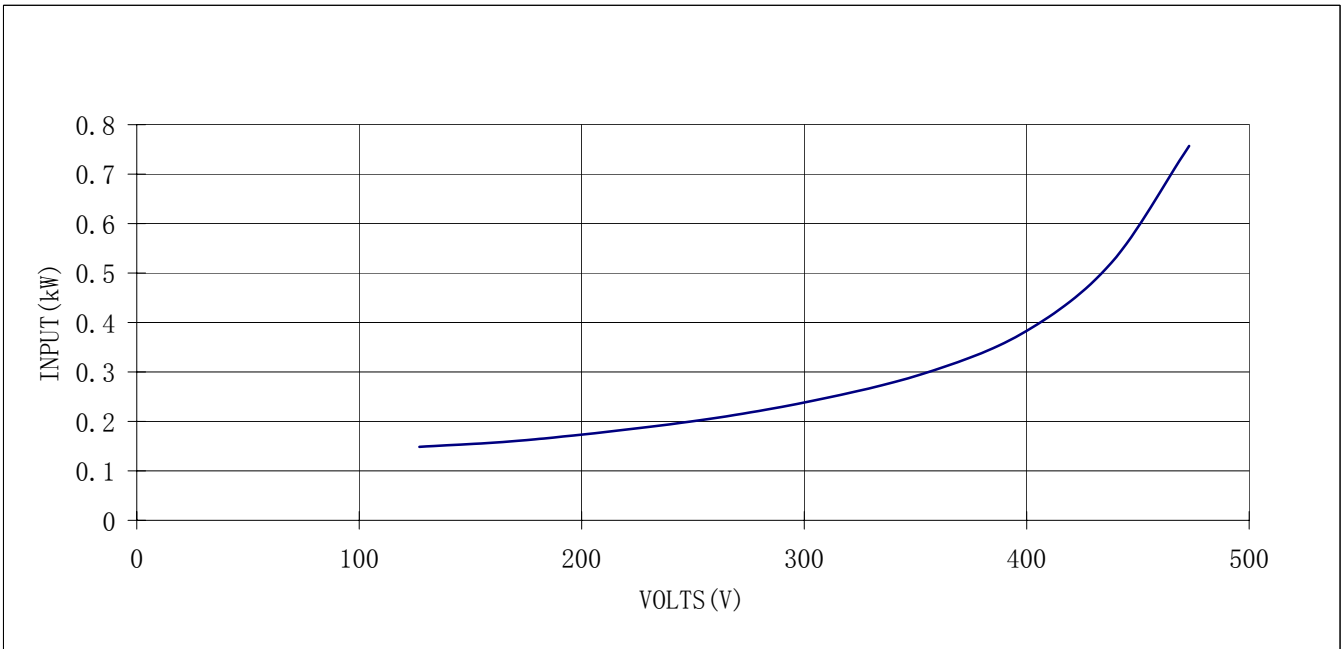
CURVE

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### NO LOAD TEST



	<b>VALIADIS S.A.</b>			<b>SCALE</b>	N/A	
				<b>DATE</b>		<b>REV</b>
	AK132S-2			<b>DRAWN</b>		<b>DOCUMENT NO.</b>
	7.5	kW		<b>APPRVD</b>		
400	VOLTS	50	<b>CHECKED</b>			

CURVE