

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC	TYPE	0.18	KW	2485	RPM
AK63-2 FRAME	3	PHASE	400	VOLTS	50	HZ/CYCLES
60.0 EFFICIENCY	0.57	AMPS	55	IP	IC01	IC
2 POLE	S1	DUTY	0.76	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 112.4201
NO LOAD CURRENT		AMP 0.41
NO LOAD INPUT		kW 0.0513
CORE LOSS (Pfe)		kW 0.016
WINDAGE FRICTION LOSS (Pfw)		kW 0.007
STATOR WINDING LOSS(Pcu1)		kW 0.0529
ROTOR WINDING LOSS(Pcu2)		kW 0.0398
STRAY LOAD LOSS (Ps)		kW 0.0015
FULL LOAD CURRENT		AMP 0.56
LOCKED ROTOR CURRENT		AMP 1.79
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 3.2
LOCKED ROTOR INPUT @ 100% VOLT		kW 1.074
FULL LOAD TORQUE		N.m. 0.69
LOCKED ROTOR TORQUE		N.m. 1.42
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.06
PULL OUT TORQUE		N.m. 1.88
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.72
PULL UP TORQUE		N.m. 1.01
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.46
EFFICIENCY @ FULL LOAD		% 60.41
POWER FACTOR @ FULL LOAD		0.763
FULL LOAD SLIP		17.53%
FULL LOAD SPEED		r/min 2474
STATOR WINDING TEMPERATURE RISE	30 SECS	K 62.5
DE BEARING TEMPERATURE BY PT100		Deg. C 50.0
NDE BEARING TEMPERATURE BY PT100		Deg. C 50.0
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) 49.1
VIBRATION		mm/s 0.4
MOMENT OF INERTIA		kgm ² 0.00018
WEIGHT		kg 5

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

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
0.18 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	41.7	59.0	62.5	60.4	50.4
PF	0.181	0.336	0.527	0.644	0.763	0.860	0.866
RPM	3000	2795	2761	2671	2474	2119	0
SLIP	0.00%	6.83%	7.97%	10.97%	17.53%	29.37%	100.00%
AMPS	0.41	0.43	0.46	0.48	0.56	0.79	1.79
VOLTS	400	400	400	400	400	400	400
TORQUE NM	0	0.14	0.34	0.48	0.69	1.07	1.42
KW INPUT	0.0513	0.1	0.1678	0.2141	0.296	0.4705	1.074
KW OUTPUT	0	0.042	0.099	0.134	0.179	0.237	

LOSSES (kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	125% LOAD
STATOR LOSS Pcu1	0.031	0.036	0.039	0.053	0.105
STATOR LOSS %	31.18%	21.26%	18.15%	17.87%	9.80%
ROTOR LOSS Pcu2	0.004	0.009	0.017	0.040	0.103
ROTOR LOSS %	3.61%	5.51%	8.16%	13.45%	9.55%
CORE LOSS Pfe	0.016	0.016	0.016	0.016	0.016
CORE LOSS %	16.00%	9.54%	7.47%	5.41%	1.49%
WINDGE/FRICTION Pfw	0.007	0.007	0.007	0.007	0.007
WINDGE/FRICTION %	7.00%	4.17%	3.27%	2.36%	0.65%
STRAY LOAD LOSS Ps	0.001	0.001	0.001	0.001	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	91.38666 OHMS @	17.0 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	112.4201 OHMS @	75 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	114.4 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	62.5 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	50.0 DEG.C.	at full load steady state at ambient	18.0 DEG.C.
PT100 TEMPERATURE OF NDE BEARING	50.0 DEG.C.	at full load steady state at ambient	18.0 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)	49.1	dB(A) 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	0.4	mm/sec on no load	D.E. BEARING		
WEIGHT	5	kg	N.D.E. BEARING		
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.				SCALE	N/A		
				DATE		REV	
AK63 - 2				DRAWN		DOCUMENT NO.	
0.18	kW		APPRVD				
400	VOLTS	50	CHECKED				

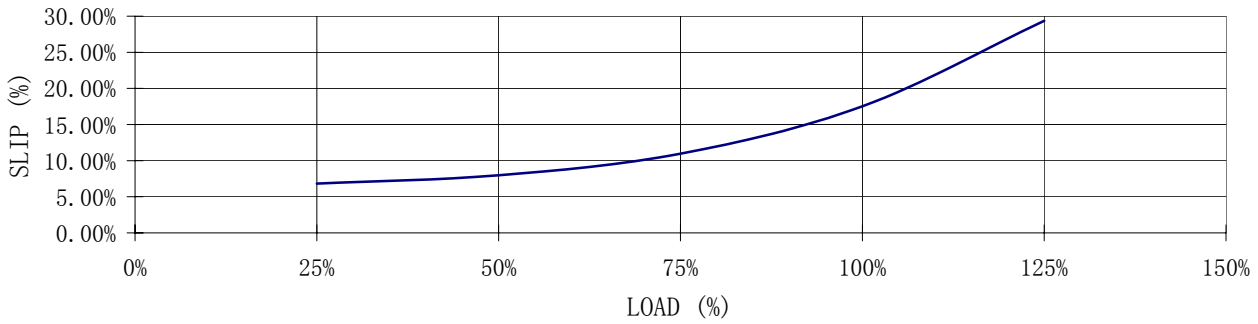
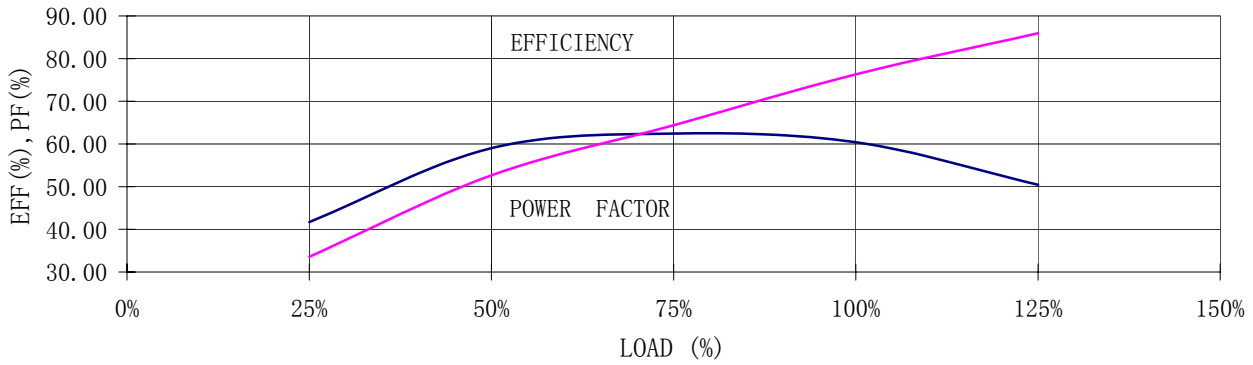
RESULT SUMMARY

VALIADIS S.A.

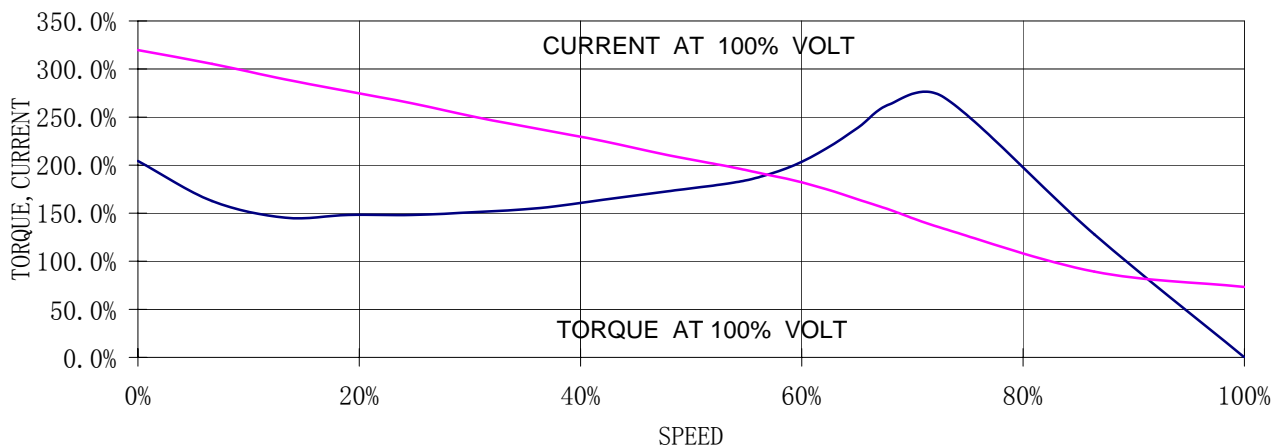
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LOAD TEST



SPEED VS TORQUE, CURRENT



VALIADIS S.A. AK63-2 0.18 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE		REV
	DRAWN		DOCUMENT NO.
	APPRVD		
CHECKED			

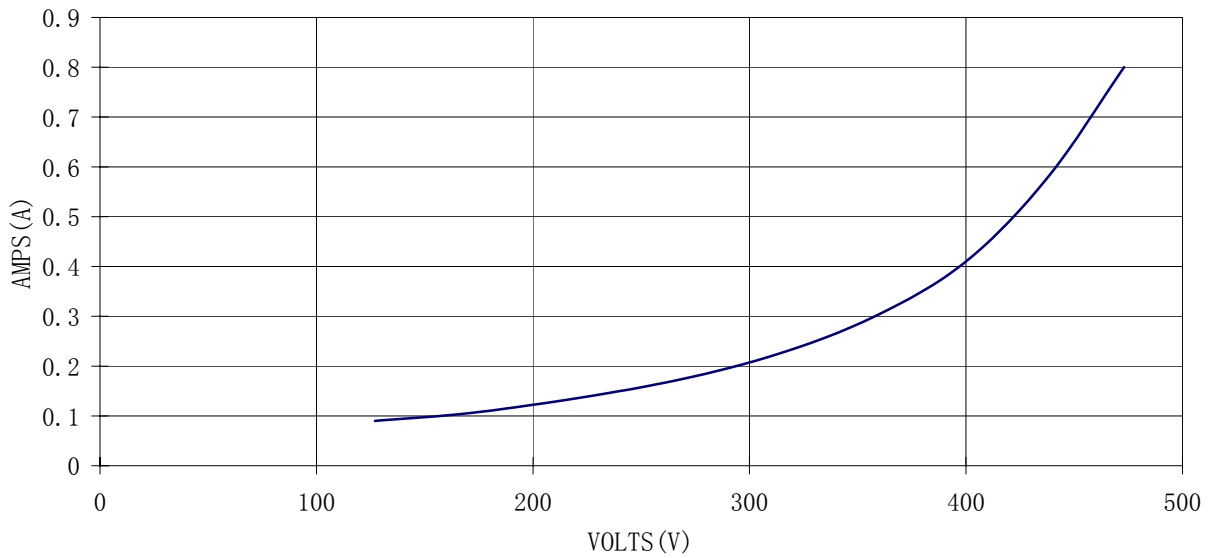
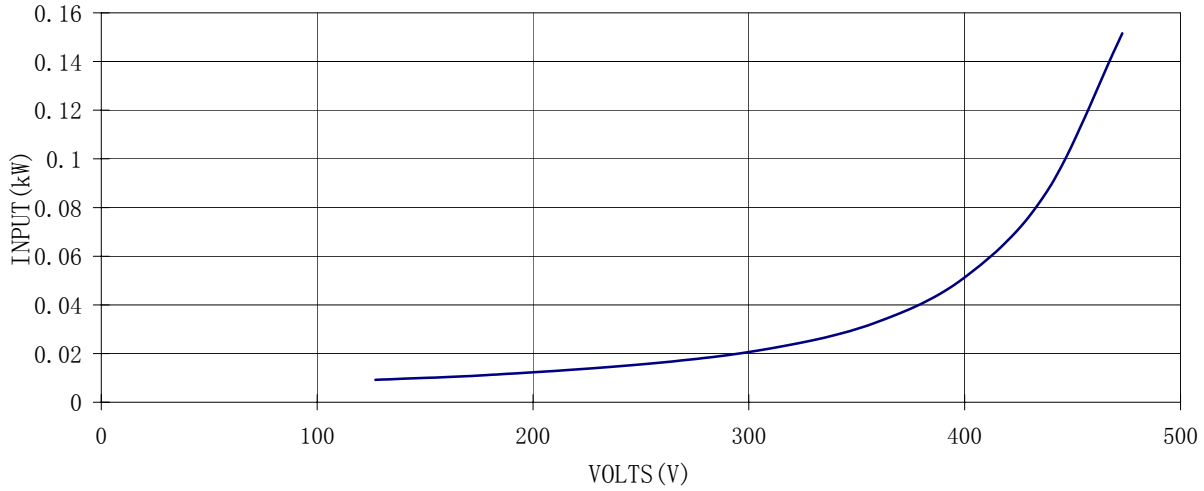
CURVE

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		DATE		REV
	AK63 - 2	DRAWN		DOCUMENT NO.
	0.18 kW	APPRVD		
400 VOLTS 50 Hz	CHECKED			

CURVE