

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		37 KW		1480 RPM	
K225S-4 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES	
92,3 EFFICIENCY		65,79 AMPS		55 IP		IC411 IC	
4 POLE		S1 DUTY		0,880 PF		N/A EFF2	
VALIADIS MANUFACTURER		SERIAL NO.		F INS.CLASS		DELTA CONNECTION	

TEST DATA	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125% LOAD	LOCKED ROTOR
	EFFICIENCY	0	84,96	90,38	92,07	92,29	92,22	92,04
PF	0,097	0,592	0,777	0,861	0,880	0,882	0,885	0,378
RPM	1500	1495	1490	1485	1480	1477	1473	0
SLIP	0,00%	0,32%	0,66%	0,99%	1,36%	1,53%	1,80%	100,00%
AMPS	22,44	26,53	38,03	50,52	65,79	72,23	81,97	458,1
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	59,1	118,6	178,5	238,9	263,3	300,0	524,9
KW INPUT	1,483	10,89	20,47	30,14	40,09	44,13	50,25	119,89
KW OUTPUT	0	9,25	18,50	27,75	37,00	40,70	46,25	

LOSSES(kw)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0,157	0,322	0,569	0,643	1,16	1,50
STATOR LOSS %	1,44%	1,57%	1,89%	1,60%	2,63%	2,98%
ROTOR LOSS Pcu2	0,032	0,127	0,284	0,525	0,65	0,86
ROTOR LOSS %	0,29%	0,62%	0,94%	1,31%	1,46%	1,72%
CORE LOSS Pfe	0,816	0,816	0,816	0,816	0,816	0,816
CORE LOSS %	7,50%	3,99%	2,71%	2,04%	1,85%	1,62%
WINDAGE/FRICTION Pfw	0,573	0,573	0,573	0,573	0,573	0,573
WINDAGE/FRICTION %	5,26%	2,80%	1,90%	1,43%	1,30%	1,14%
STRAY LOAD LOSS Ps	0,054	0,102	0,151	0,200	0,221	0,251
STRAY LOAD LOSS %	0,50%	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	0,1104 OHMS @	6,5 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0,149 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0,144 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	67,5 DEG.C.	at full load steady state at	30 SECS
WINDING TEMPERATURE RISE	70,0 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	80,7 DEG.C.	at full load steady state at ambient	9 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.	at full load steady state at ambient	9 DEG.C.
PT100 TEMPERATURE DE BEARING	73,5 DEG.C.	at full load steady state at ambient	9 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	9 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	37,4 DEG.C.	at full load steady state at ambient	9 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	48,2 DEG.C.	at full load steady state at ambient	9 DEG.C.

OTHER

NOISE LEVEL(Lp)	72	dB(A) @ 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	1,8	mm/sec on no load	D.E. BEARING	6313	
WEIGHT	284	kg	N.D.E.BEARING	6312	
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A.		SCALE	N/A	
		DATE		REV
K225S-4 37 kw 400 VOLTS 50 Hz		DRAWN		DOCUMENT NO.
		APPRVD		
		CHECKED		

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VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE	
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM	0,149
NO LOAD CURRENT		AMP	22,44
NO LOAD INPUT		kW	1,483
CORE LOSS(Pfe)		kW	0,816
WINDAGE FRICTION LOSS(Pfw)		kW	0,573
STATOR WINDING LOSS(Pcu1)		kW	0,643
ROTOR WINDING LOSS(Pcu2)		kW	0,525
STRAY LOAD LOSS(Ps)		kW	0,200
FULL LOAD CURRENT		AMP	65,79
LOCKED ROTOR CURRENT		AMP	458,1
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U.	7,0
LOCKED ROTOR INPUT @ FULL LOAD		kW	119,89
FULL LOAD TORQUE		N.m	238,92
LOCKED ROTOR TORQUE		N.m	524,89
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U.	2,20
PULL OUT TORQUE		N.m	709,4
PULL OUT TORQUE/FULL LOAD TORQUE		P.U.	2,97
PULL UP TORQUE		N.m	434,6
PULL UP TORQUE/FULL LOAD TORQUE		P.U.	1,82
EFFICIENCY @ FULL LOAD		%	92,29
POWER FACTOR @ FULL LOAD			0,880
FULL LOAD SLIP		%	1,359
FULL LOAD SPEED		r/min	1480
STATOR WINDING TEMPERATURE RISE	30 SECS	K	67,5
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C	73,5
TEMPERATURE ON LEADS BY PT100		Deg. C	48,2
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C	37,4
AMBIENT TEMPERATURE OF TESTING		Deg. C	9,0
SOUND PRESSURE LEVEL		dB(A)	72
VIBRATION		mm/s	1,8
MOMENT OF INERTIA		kgm2	0,406
WEIGHT		kg	284

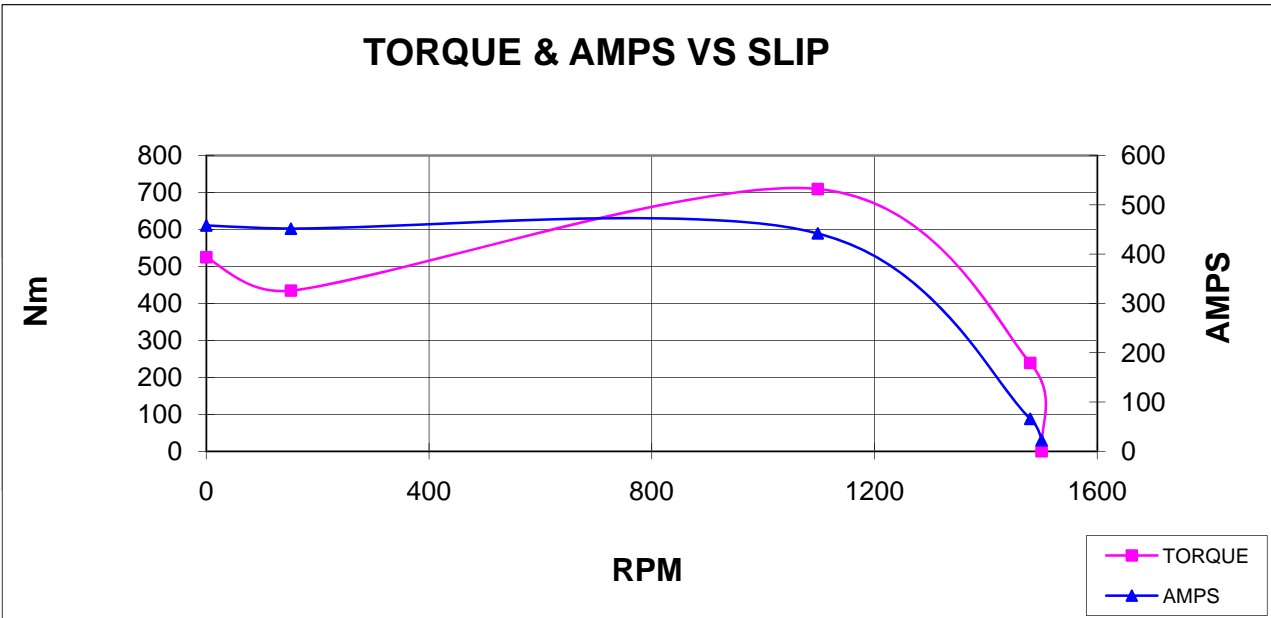
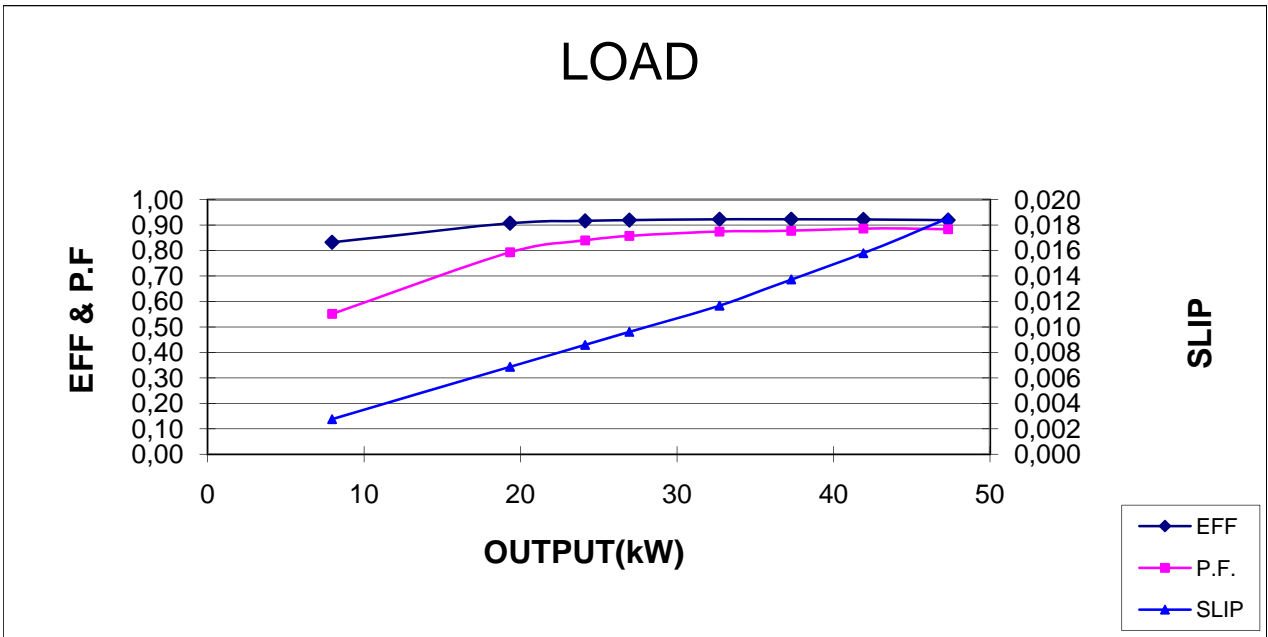
The data above is calculated as per IEC 34-2, all data at nominal Volts.

VALIADIS S.A. K225S-4 37 kW 400 VOLTS 50 Hz	SCALE	N/A	REV
	DATE		
	DRAWN		DOCUMENT NO.
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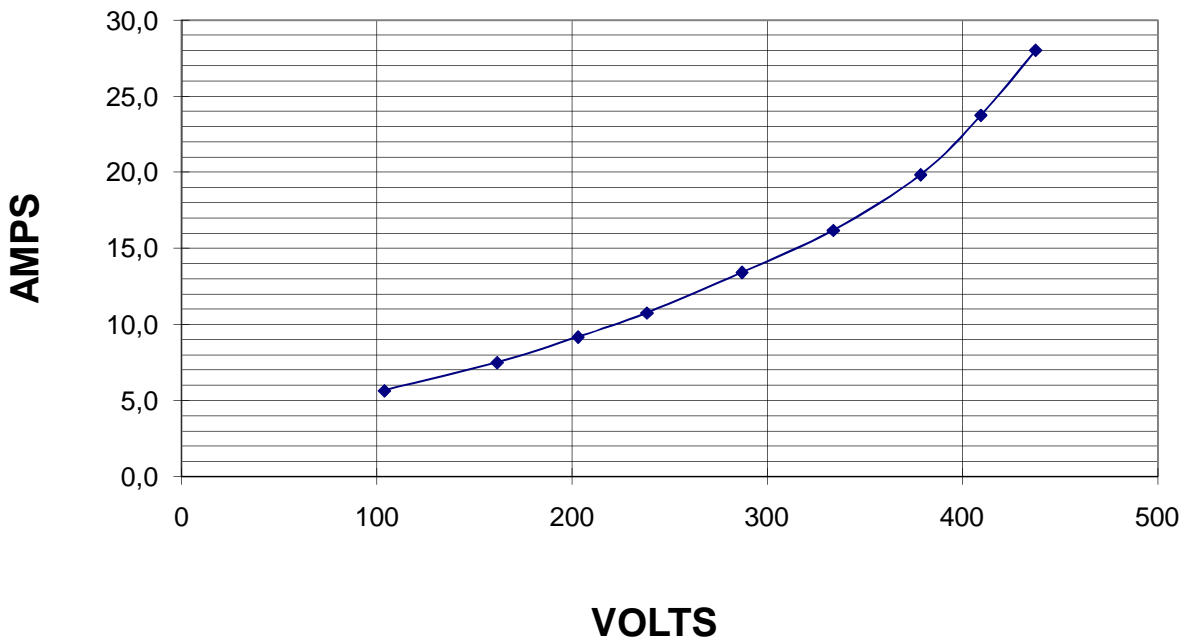
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MAGNETIZATION CURVE - NO LOAD



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K225S-4	DRAWN		DOCUMENT NO.
37 kw	APPRVD		
400 VOLTS	CHECKED		
50 Hz			