

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		30 KW		2952 RPM	
K200L-2 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES	
92,2 EFFICIENCY		52,3 AMPS		55 IP		IC411 IC	
2 POLE		S1 DUTY		0,897 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	84,49	90,38	91,86	92,24	92,15	91,94
PF	0,117	0,626	0,818	0,874	0,897	0,900	0,901	0,406
RPM	3000	2991	2980	2966	2952	2946	2937	0
SLIP	0,00%	0,30%	0,68%	1,13%	1,60%	1,79%	2,11%	100,00%
AMPS	15,59	20,47	29,29	40,45	52,35	57,45	65,35	374,6
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	24,0	48,1	72,5	97,1	107,0	122,0	277,5
KW INPUT	1,261	8,88	16,60	24,49	32,52	35,81	40,79	105,38
KW OUTPUT	0	7,50	15,00	22,50	30,00	33,00	37,50	

LOSSES(kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0,100	0,205	0,391	0,655	0,79	1,02
STATOR LOSS %	1,13%	1,23%	1,60%	2,01%	2,20%	2,50%
ROTOR LOSS Pcu2	0,024	0,107	0,265	0,498	0,62	0,83
ROTOR LOSS %	0,27%	0,64%	1,08%	1,53%	1,72%	2,03%
CORE LOSS Pfe	0,661	0,661	0,661	0,661	0,661	0,661
CORE LOSS %	7,45%	3,98%	2,70%	2,03%	1,85%	1,62%
WINDAGE/FRICTION Pfw	0,530	0,530	0,530	0,530	0,530	0,530
WINDAGE/FRICTION %	5,97%	3,19%	2,16%	1,63%	1,48%	1,30%
STRAY LOAD LOSS Ps	0,044	0,083	0,122	0,163	0,179	0,204
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	0,1269667 OHMS @	24 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0,159 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0,162 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	65,8 DEG.C.	at full load steady state at	30 SECS
WINDING TEMPERATURE RISE	67,6 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	96,4 DEG.C.	at full load steady state at ambient	26,5 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.	at full load steady state at ambient	26,5 DEG.C.
PT100 TEMPERATURE DE BEARING	74,5 DEG.C.	at full load steady state at ambient	26,5 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	26,5 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	44 DEG.C.	at full load steady state at ambient	26,5 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	56,2 DEG.C.	at full load steady state at ambient	26,5 DEG.C.

OTHER			
NOISE LEVEL(Lp)	78 dB(A) @ 1meter	INSULATION RESISTANCE	500 MEG.OHMS
VIBRATION LEVEL	2,4 mm/sec on no load	D.E. BEARING	6312
WEIGHT	240 kg	N.D.E.BEARING	6312
H-POT TEST VOLTS	1800 VOLTS		

VALIADIS S.A.		SCALE	N/A	REV
K200L-2		DATE	2003.09.29	
30 kW		DRAWN		DOCUMENT NO.
400 VOLTS 50 Hz		APPRVD		
		CHECKED		

RESULT SUMMARY

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2 POLE	S1 DUTY	0,897 PF	N/A EFF2
VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM 0,159
NO LOAD CURRENT		AMP 15,59
NO LOAD INPUT		kW 1,261
CORE LOSS(Pfe)		kW 0,661
WINDAGE FRICTION LOSS(Pfw)		kW 0,530
STATOR WINDING LOSS(Pcu1)		kW 0,655
ROTOR WINDING LOSS(Pcu2)		kW 0,498
STRAY LOAD LOSS(Ps)		kW 0,163
FULL LOAD CURRENT		AMP 52,35
LOCKED ROTOR CURRENT		AMP 374,59
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 7,2
LOCKED ROTOR INPUT @ FULL LOAD		kW 105,38
FULL LOAD TORQUE		N.m 97,09
LOCKED ROTOR TORQUE		N.m 277,50
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2,86
PULL OUT TORQUE		N.m 300,0
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 3,09
PULL UP TORQUE		N.m 205,73
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 2,12
EFFICIENCY @ FULL LOAD		% 92,24
POWER FACTOR @ FULL LOAD		0,897
FULL LOAD SLIP		% 1,596
FULL LOAD SPEED		r/min 2952
STATOR WINDING TEMPERATURE RISE	30 SECS	K 65,8
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C 74,5
TEMPERATURE ON LEADS BY PT100		Deg. C 56,2
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C 44,0
AMBIENT TEMPERATURE OF TESTING		Deg. C 26,5
SOUND PRESSURE LEVEL		dB(A) 78
VIBRATION		mm/s 2,4
MOMENT OF INERTIA		kgm2 0,1240
WEIGHT		kg 240

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

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	DATE	2003.09.29	REV
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 2 POLE
 VALIADIS MANUFACTURER

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3 PHASE
 52.3 AMPS
 S1 DUTY
 SERIAL NO.

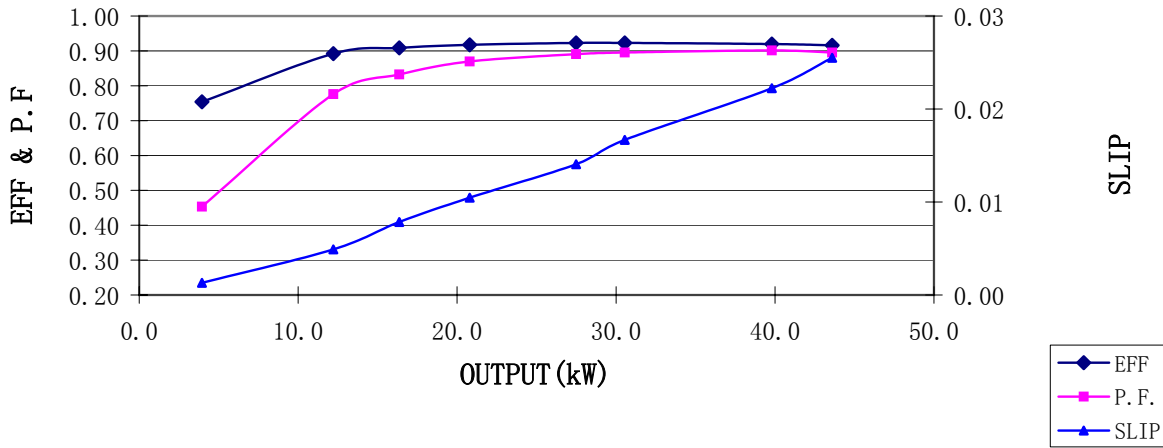
30 KW

400 VOLTS
 55 IP
 0.897 PF
 F INS.CLASS

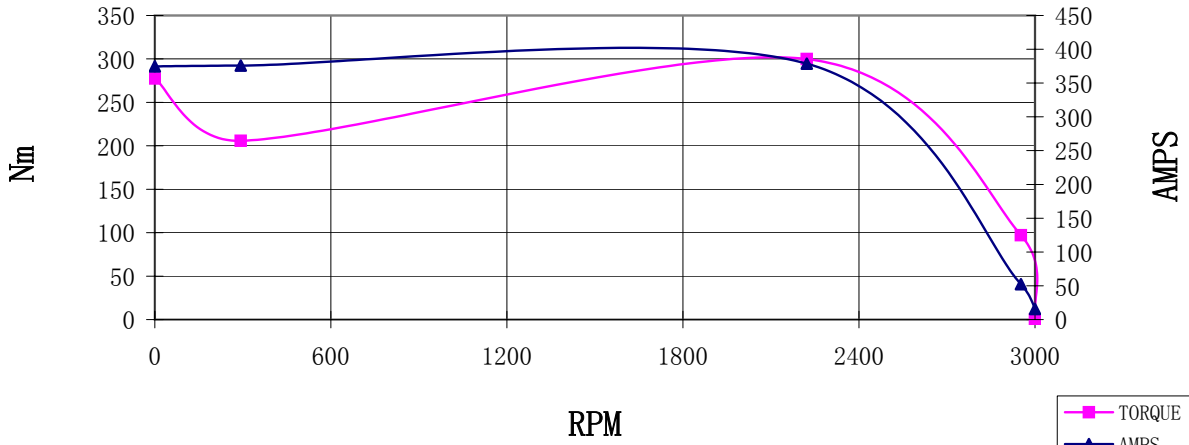
2952 RPM

50 HZ / CYCLES
 IC411 IC
 N/A EFF2
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LOAD



TORQUE & AMPS VS SLIP



VALIADIS S.A.	SCALE	N/A	
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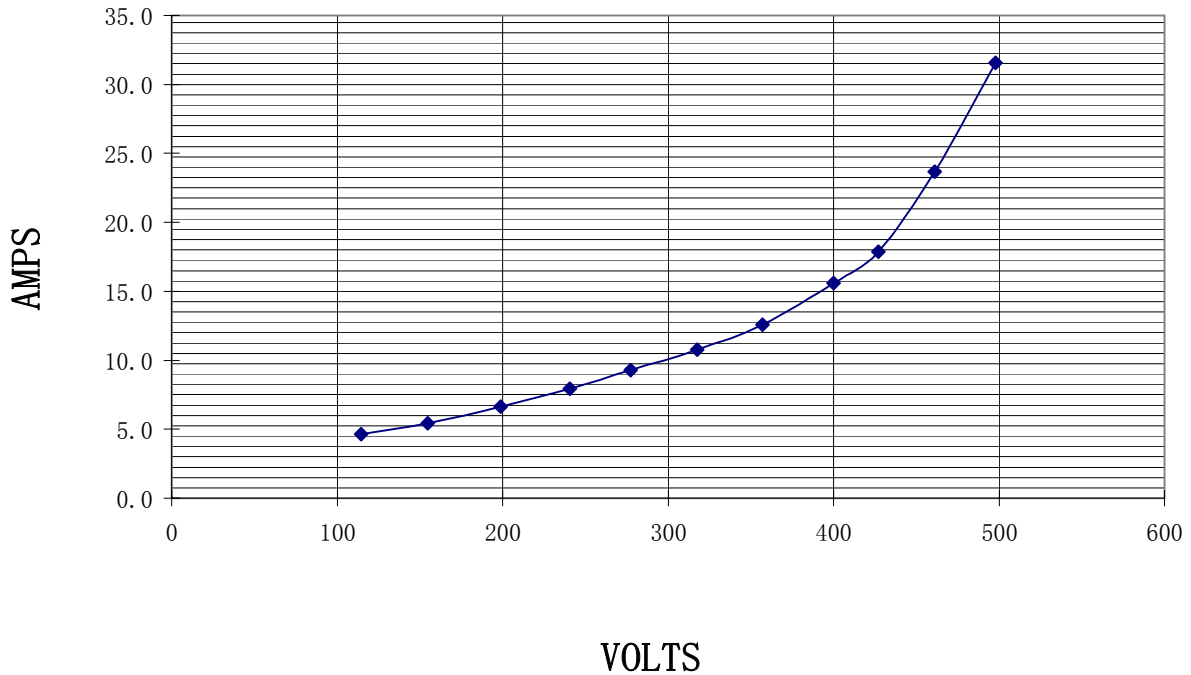
30 KW

400 VOLTS
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 F INS.CLASS

2952 RPM

50 HZ / CYCLES
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 N/A EFF2
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MAGNETIZATION CURVE - NO LOAD



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