

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		18.5 KW		979 RPM	
K200L-6 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES	
91.0 EFFICIENCY		34.3 AMPS		55 IP		IC411 IC	
6 POLE		S1 DUTY		0.855 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	85.11	89.71	90.83	90.96	90.70	90.22	
PF	0.076	0.538	0.724	0.811	0.855	0.864	0.871	0.471
RPM	1000	996	990	984	979	976	972	0
SLIP	0.00%	0.44%	1.04%	1.59%	2.13%	2.41%	2.82%	100.00%
AMPS	13.67	14.57	20.55	27.19	34.34	37.50	42.49	228.6
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	44.4	89.3	134.7	180.6	199.2	227.4	484.3
KW INPUT	0.722	5.43	10.31	15.28	20.34	22.44	25.63	74.65
KW OUTPUT	0	4.63	9.25	13.88	18.50	20.35	23.13	

LOSSES(kw)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.124	0.246	0.431	0.688	0.82	1.05
STATOR LOSS %	2.28%	2.39%	2.82%	3.38%	3.66%	4.11%
ROTOR LOSS Pcu2	0.021	0.100	0.228	0.408	0.51	0.68
ROTOR LOSS %	0.39%	0.97%	1.49%	2.01%	2.26%	2.65%
CORE LOSS Pfe	0.528	0.528	0.528	0.528	0.528	0.528
CORE LOSS %	9.71%	5.12%	3.45%	2.59%	2.35%	2.06%
WINDAGE/FRICTION Pfw	0.106	0.106	0.106	0.106	0.106	0.106
WINDAGE/FRICTION %	1.96%	1.03%	0.70%	0.52%	0.47%	0.41%
STRAY LOAD LOSS Ps	0.027	0.052	0.076	0.102	0.112	0.128
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	0.3120667 OHMS @	25.8 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.389 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.393 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	63.6 DEG.C.	at full load steady state at	30 SECS
WINDING TEMPERATURE RISE	66.6 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	91 DEG.C.	at full load steady state at ambient	24.4 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.	at full load steady state at ambient	24.4 DEG.C.
PT100 TEMPERATURE DE BEARING	74.8 DEG.C.	at full load steady state at ambient	24.4 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	24.4 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	50.8 DEG.C.	at full load steady state at ambient	24.4 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	55.2 DEG.C.	at full load steady state at ambient	24.4 DEG.C.

OTHER			
NOISE LEVEL(Lp)	60	dB(A) @ 1meter	INSULATION RESISTANCE 500 MEG.OHMS
VIBRATION LEVEL	0.9	mm/sec on no load	D.E. BEARING 6312 C3
WEIGHT	264	kg	N.D.E.BEARING 6312 C3
H-POT TEST VOLTS	1800	VOLTS	

VALIADIS S.A. K200L-6 18.5 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE	2003.09.20	REV
	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 0.389
NO LOAD CURRENT		AMP 13.67
NO LOAD INPUT		kW 0.722
CORE LOSS(Pfe)		kW 0.528
WINDAGE FRICTION LOSS(Pfw)		kW 0.106
STATOR WINDING LOSS(Pcu1)		kW 0.688
ROTOR WINDING LOSS(Pcu2)		kW 0.408
STRAY LOAD LOSS(Ps)		kW 0.102
FULL LOAD CURRENT		AMP 34.34
LOCKED ROTOR CURRENT		AMP 228.57
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 6.7
LOCKED ROTOR INPUT @ FULL LOAD		kW 74.65
FULL LOAD TORQUE		N.m 180.60
LOCKED ROTOR TORQUE		N.m 484.32
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.68
PULL OUT TORQUE		N.m 489.3
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.71
PULL UP TORQUE		N.m 315.90
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.75
EFFICIENCY @ FULL LOAD		% 90.96
POWER FACTOR @ FULL LOAD		0.855
FULL LOAD SLIP		% 2.133
FULL LOAD SPEED		r/min 979
STATOR WINDING TEMPERATURE RISE	30 SECS	K 63.6
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C 74.8
TEMPERATURE ON LEADS BY PT100		Deg. C 55.2
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C 50.8
AMBIENT TEMPERATURE OF TESTING		Deg. C 24.4
SOUND PRESSURE LEVEL		dB(A) 60
VIBRATION		mm/s 0.9
MOMENT OF INERTIA		kgm2 0.3150
WEIGHT		kg 220

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

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 34.3 AMPS
 S1 DUTY
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18.5 KW

400 VOLTS

55 IP

0.855 PF

F INS.CLASS

979 RPM

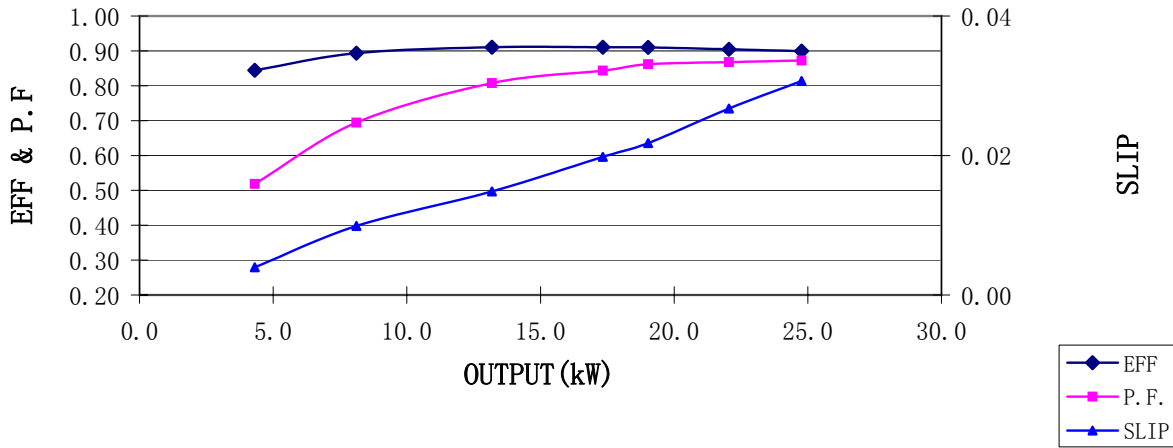
50 HZ / CYCLES

IC411 IC

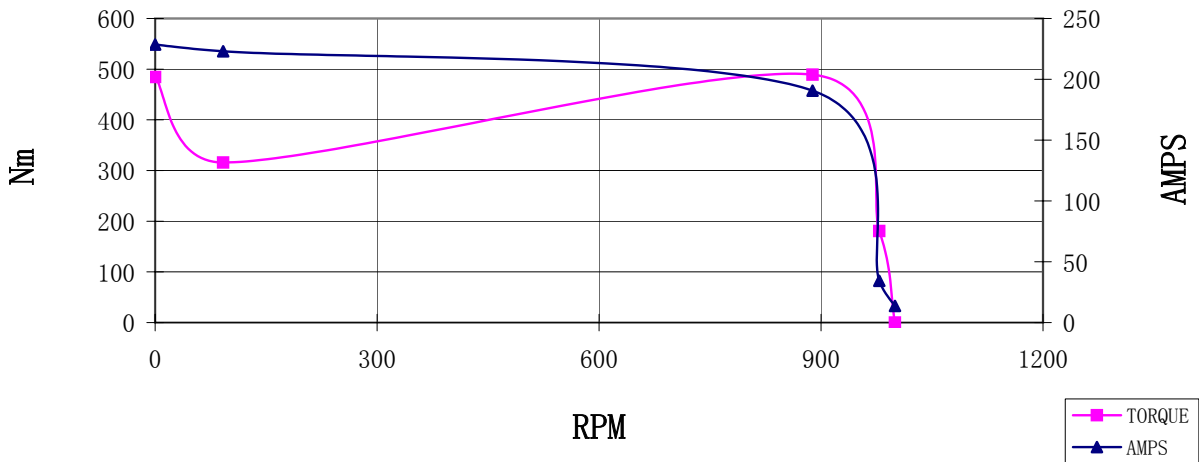
N/A EFF2

DELTA CONNECTION

LOAD



TORQUE & AMPS VS SLIP



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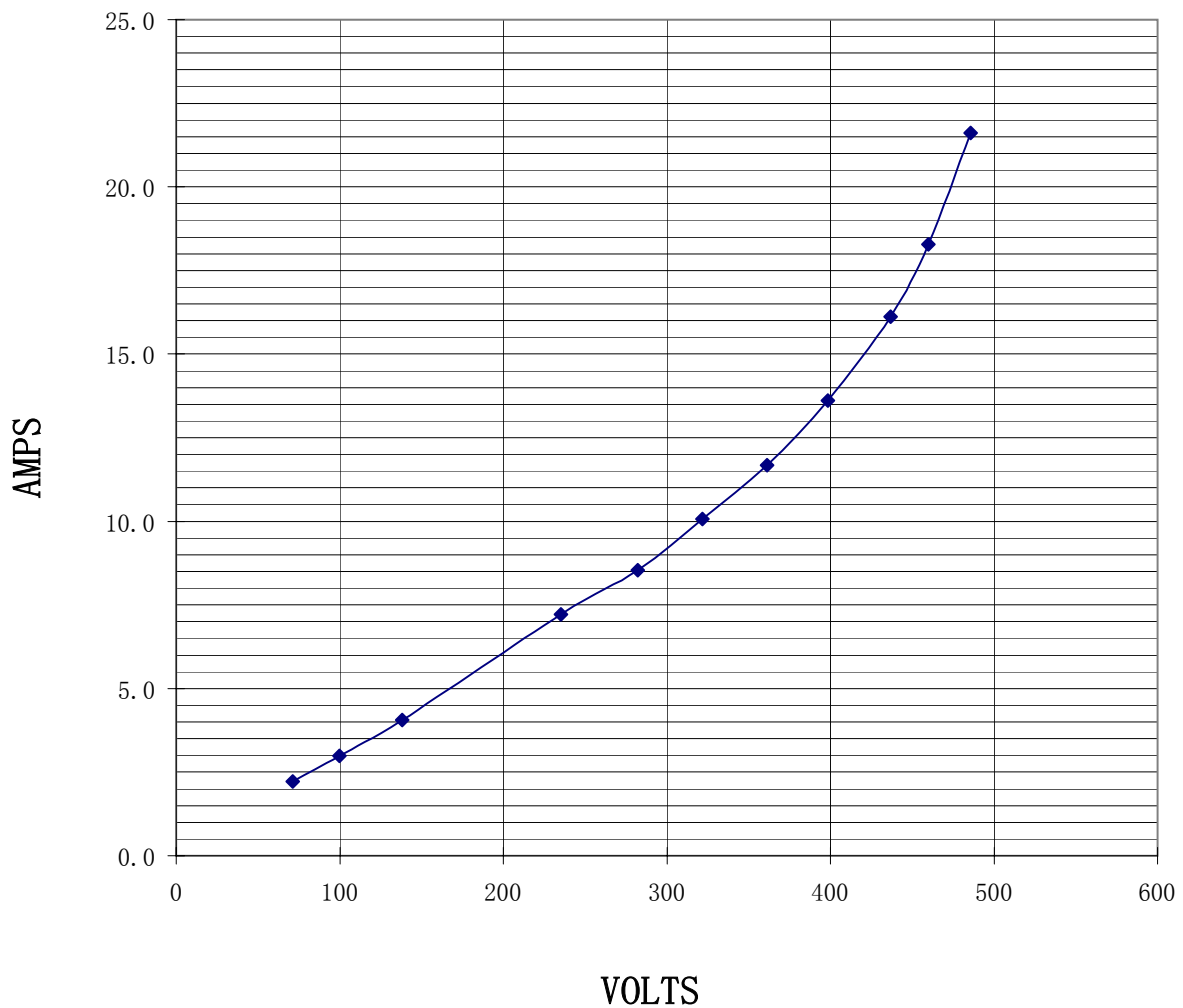
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400 VOLTS
 55 IP
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MAGNETIZATION CURVE - NO LOAD



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