

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC TYPE	37 KW	2949 RPM
K200L-2 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
92,5 EFFICIENCY	64,6 AMPS	55 IP	IC411 IC
2 POLE	S1 DUTY	0,894 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	85,94	90,98	92,42	92,52	92,50	92,34
PF	0,109	0,640	0,813	0,877	0,894	0,899	0,903	0,405
RPM	3000	2986	2976	2964	2949	2944	2935	0
SLIP	0,00%	0,45%	0,80%	1,21%	1,69%	1,88%	2,16%	100,00%
AMPS	17,86	24,26	36,10	49,40	64,57	70,66	80,03	463,3
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	29,6	59,4	89,5	119,9	132,1	150,6	335,3
KW INPUT	1,351	10,76	20,33	30,03	39,99	44,00	50,08	130,08
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	0,113	0,250	0,468	0,799	0,96	1,23
STATOR LOSS %	1,05%	1,23%	1,56%	2,00%	2,17%	2,45%
ROTOR LOSS Pcu2	0,044	0,155	0,348	0,648	0,79	1,04
ROTOR LOSS %	0,41%	0,76%	1,16%	1,62%	1,81%	2,08%
CORE LOSS Pfe	0,792	0,792	0,792	0,792	0,792	0,792
CORE LOSS %	7,36%	3,89%	2,64%	1,98%	1,80%	1,58%
WINDAGE/FRICTION Pfw	0,505	0,505	0,505	0,505	0,505	0,505
WINDAGE/FRICTION %	4,69%	2,48%	1,68%	1,26%	1,15%	1,01%
STRAY LOAD LOSS Ps	0,054	0,102	0,150	0,200	0,220	0,250
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	0,10251 OHMS @	25,8 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0,128 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0,130 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	70,1 DEG.C.	at full load steady state at	30 SECS
WINDING TEMPERATURE RISE	72,0 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	99,6 DEG.C.	at full load steady state at ambient	20,9 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.	at full load steady state at ambient	20,9 DEG.C.
PT100 TEMPERATURE DE BEARING	77,8 DEG.C.	at full load steady state at ambient	20,9 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	20,9 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	44,6 DEG.C.	at full load steady state at ambient	20,9 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	60,7 DEG.C.	at full load steady state at ambient	20,9 DEG.C.

OTHER

NOISE LEVEL(Lp)	78 dB(A) @ 1meter	INSULATION RESISTANCE	500 MEG.OHMS
VIBRATION LEVEL	1,0 mm/sec on no load	D.E. BEARING	6312
WEIGHT	255 kg	N.D.E.BEARING	6312
H-POT TEST VOLTS	1800 VOLTS		

VALIADIS S.A. K200L-2 37 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE		REV
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	APPRVD		
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RESULT SUMMARY

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MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM 0.128
NO LOAD CURRENT		AMP 17.86
NO LOAD INPUT		kW 1.351
CORE LOSS(Pfe)		kW 0.792
WINDAGE FRICTION LOSS(Pfw)		kW 0.505
STATOR WINDING LOSS(Pcu1)		kW 0.799
ROTOR WINDING LOSS(Pcu2)		kW 0.648
STRAY LOAD LOSS(Ps)		kW 0.200
FULL LOAD CURRENT		AMP 64.57
LOCKED ROTOR CURRENT		AMP 463.28
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 7.2
LOCKED ROTOR INPUT @ FULL LOAD		kW 130.08
FULL LOAD TORQUE		N.m 119.86
LOCKED ROTOR TORQUE		N.m 335.27
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.80
PULL OUT TORQUE		N.m 350.2
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.92
PULL UP TORQUE		N.m 218.03
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.82
EFFICIENCY @ FULL LOAD		% 92.52
POWER FACTOR @ FULL LOAD		0.894
FULL LOAD SLIP		% 1.689
FULL LOAD SPEED		r/min 2949
STATOR WINDING TEMPERATURE RISE	30 SECS	K 70.1
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C 77.8
TEMPERATURE ON LEADS BY PT100		Deg. C 60.7
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C 44.6
AMBIENT TEMPERATURE OF TESTING		Deg. C 20.9
SOUND PRESSURE LEVEL		dB(A) 78
VIBRATION		mm/s 1.0
MOMENT OF INERTIA		kgm2 0.1390
WEIGHT		kg 255

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

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 2 POLE
 VALIADIS MANUFACTURER

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3 PHASE
 64.6 AMPS
 S1 DUTY
 SERIAL NO.

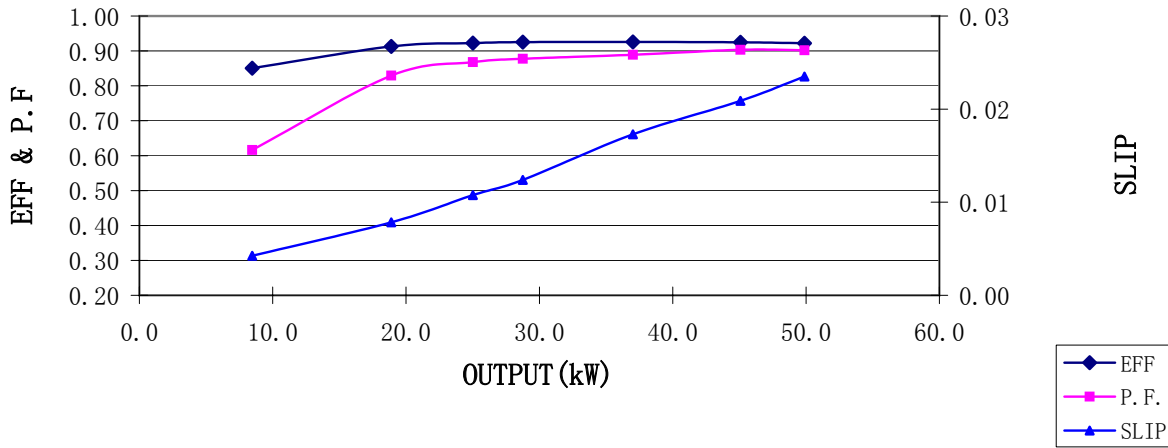
37 KW

400 VOLTS
 55 IP
 0.894 PF
 F INS.CLASS

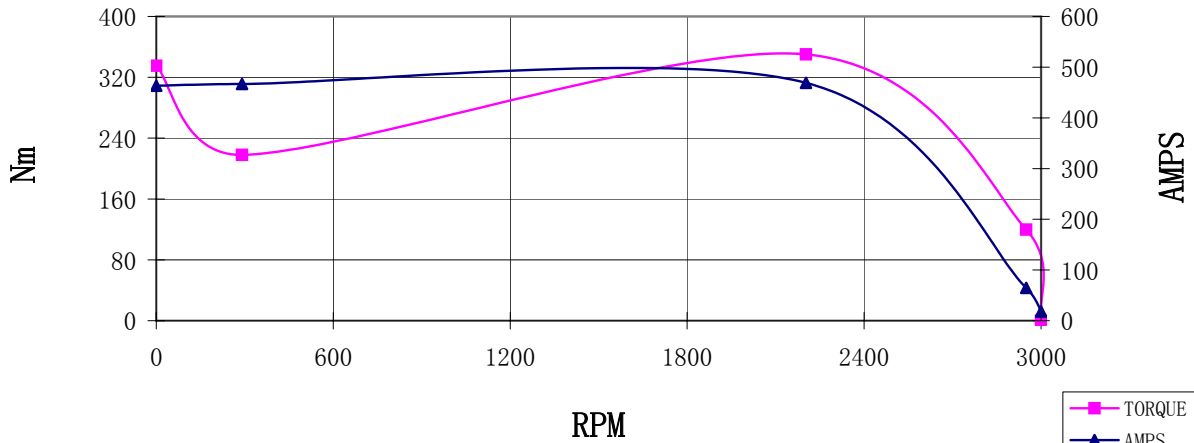
2949 RPM

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LOAD



TORQUE & AMPS VS SLIP



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NAMEPLATE DATA

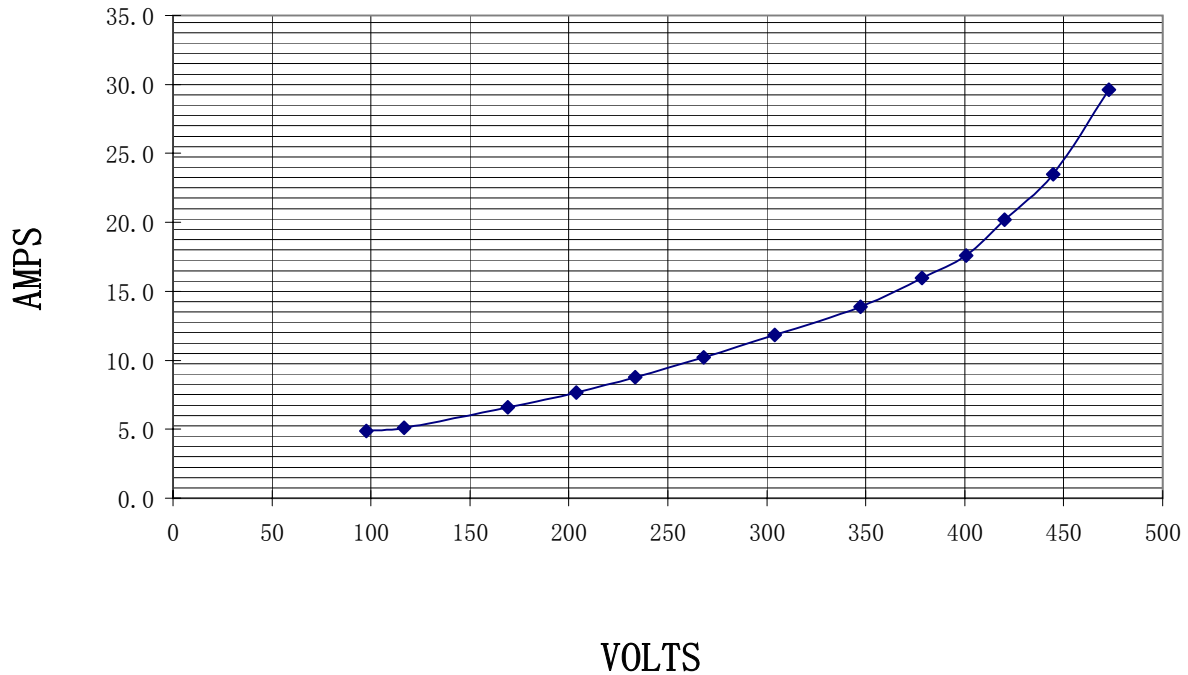
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MAGNETIZATION CURVE - NO LOAD



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