

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		110 KW		2976 RPM	
K315S-2 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES	
94.4 EFFICIENCY		185.1 AMPS		55 IP		IC411 IC	
2 POLE		S1 DUTY		0.909 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	86.51	92.03	93.78	94.39	94.50	94.60
PF	0.098	0.631	0.840	0.903	0.909	0.908	0.906	0.394
RPM	3000	2994	2988	2982	2976	2973	2969	0
SLIP	0.00%	0.21%	0.39%	0.58%	0.81%	0.91%	1.05%	100.00%
AMPS	58.67	72.69	102.63	140.66	185.11	203.53	231.68	1322.3
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	87.8	175.8	264.3	353.2	388.9	442.5	818.8
KW INPUT	3.982	31.79	59.76	87.98	116.54	128.04	145.35	361.10
KW OUTPUT	0	27.50	55.00	82.50	110.00	121.00	137.50	

LOSSES(kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.175	0.349	0.656	1.136	1.37	1.78
STATOR LOSS %	0.55%	0.58%	0.75%	0.97%	1.07%	1.22%
ROTOR LOSS Pcu2	0.063	0.225	0.499	0.922	1.13	1.49
ROTOR LOSS %	0.20%	0.38%	0.57%	0.79%	0.88%	1.02%
CORE LOSS Pfe	1.996	1.996	1.996	1.996	1.996	1.996
CORE LOSS %	6.28%	3.34%	2.27%	1.71%	1.56%	1.37%
WINDAGE/FRICTION Pfw	1.876	1.876	1.876	1.876	1.876	1.876
WINDAGE/FRICTION %	5.90%	3.14%	2.13%	1.61%	1.47%	1.29%
STRAY LOAD LOSS Ps	0.159	0.299	0.440	0.583	0.640	0.727
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	0.017 OHMS @	15 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.022 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.023 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	75.6 DEG.C.	at full load steady state at	90 SECS
WINDING TEMPERATURE RISE	83.6 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	93.9 DEG.C.	at full load steady state at ambient	16.8 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	NO DEG.C.	at full load steady state at ambient	16.8 DEG.C.
PT100 TEMPERATURE DE BEARING	75.6 DEG.C.	at full load steady state at ambient	16.8 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	16.8 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	54.1 DEG.C.	at full load steady state at ambient	16.8 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	58.9 DEG.C.	at full load steady state at ambient	16.8 DEG.C.

OTHER			
NOISE LEVEL(Lp)	67	dB(A) @ 1meter	INSULATION RESISTANCE 500 MEG.OHMS
VIBRATION LEVEL	1.6	mm/sec on no load	D.E. BEARING 6317C3
WEIGHT	980	kg	N.D.E.BEARING 6317C3
H-POT TEST VOLTS	1800	VOLTS	

VALIADIS S.A. K315S-2 110 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE		REV
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MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM 0.022
NO LOAD CURRENT		AMP 58.67
NO LOAD INPUT		kW 3.982
CORE LOSS(Pfe)		kW 1.996
WINDAGE FRICTION LOSS(Pfw)		kW 1.876
STATOR WINDING LOSS(Pcu1)		kW 1.136
ROTOR WINDING LOSS(Pcu2)		kW 0.922
STRAY LOAD LOSS(Ps)		kW 0.583
FULL LOAD CURRENT		AMP 185.11
LOCKED ROTOR CURRENT		AMP 1322.35
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 7.1
LOCKED ROTOR INPUT @ FULL LOAD		kW 361.10
FULL LOAD TORQUE		N.m 353.19
LOCKED ROTOR TORQUE		N.m 818.79
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.32
PULL OUT TORQUE		N.m 993.4
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.81
PULL UP TORQUE		N.m 723.67
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 2.05
EFFICIENCY @ FULL LOAD		% 94.39
POWER FACTOR @ FULL LOAD		0.909
FULL LOAD SLIP		% 0.813
FULL LOAD SPEED		r/min 2976
STATOR WINDING TEMPERATURE RISE	90 SECS	K 75.6
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C 75.6
TEMPERATURE ON LEADS BY PT100		Deg. C 58.9
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C 54.1
AMBIENT TEMPERATURE OF TESTING		Deg. C 16.8
SOUND PRESSURE LEVEL		dB(A) 67
VIBRATION		mm/s 1.6
WEIGHT		kg 980

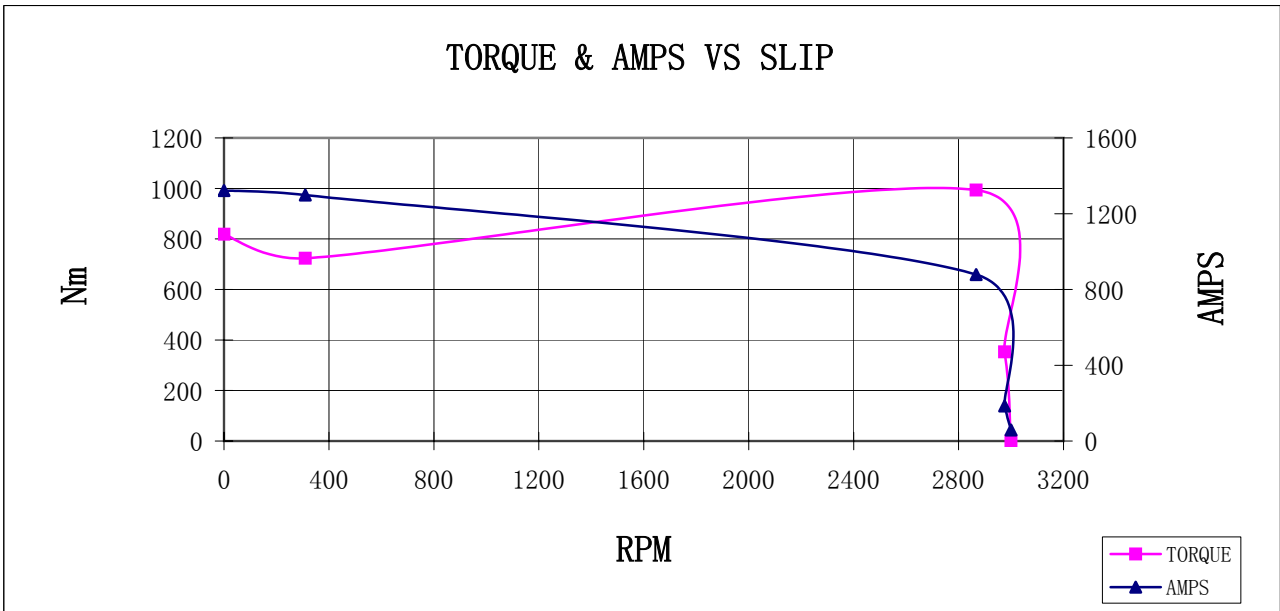
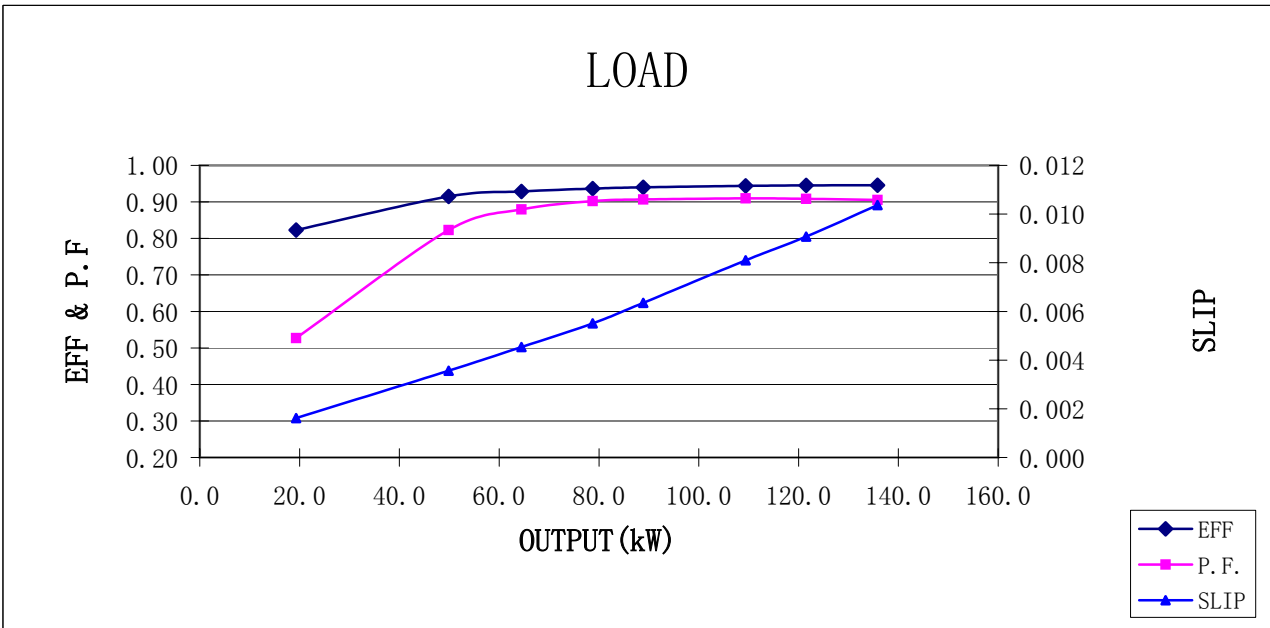
The data above is calculated as per IEC 34-2, all data at nominal Volts

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NAMEPLATE DATA

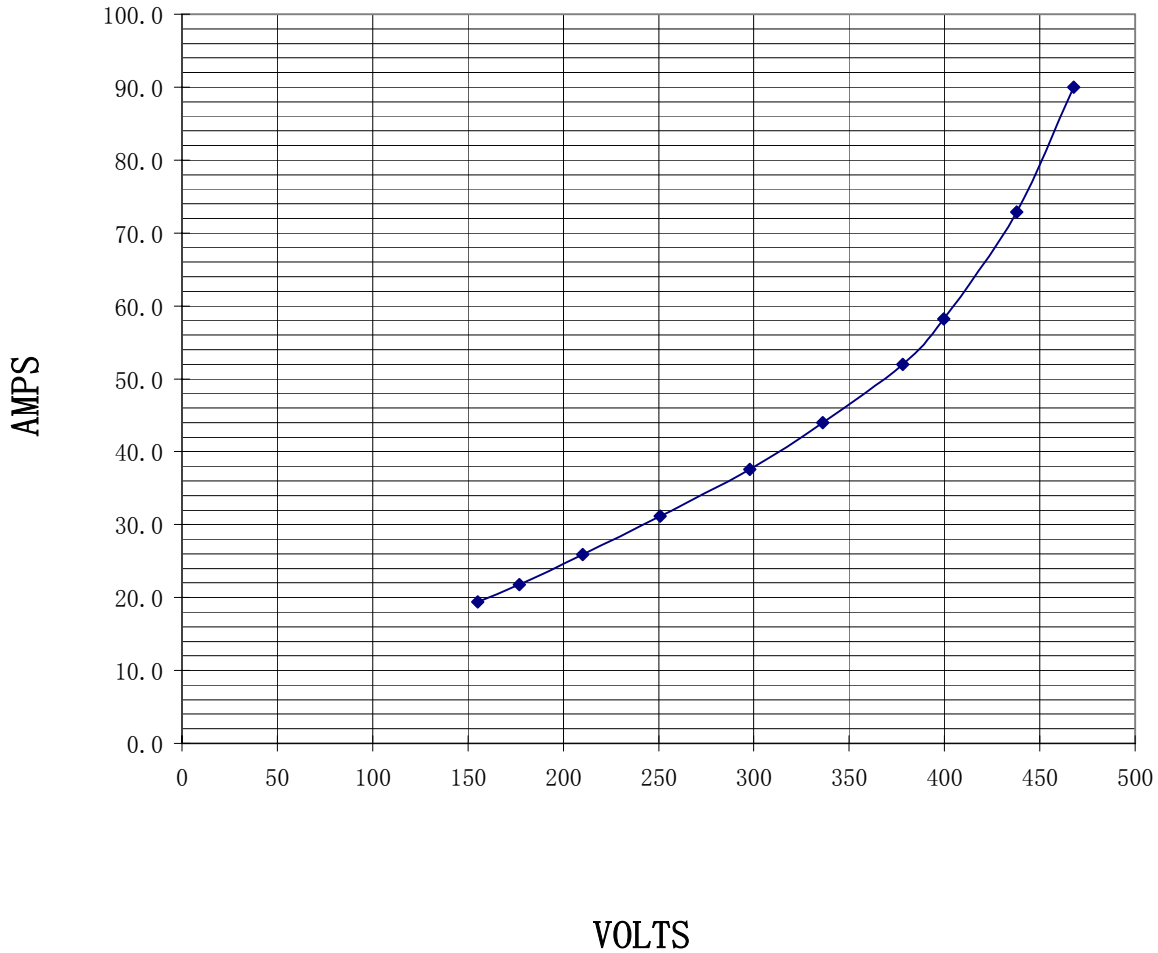
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 3 PHASE
 185.1 AMPS
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 SERIAL NO.

110 KW
 400 VOLTS
 55 IP
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 F INS.CLASS

2976 RPM
 50 HZ / CYCLES
 IC411 IC
 N/A EFF2
 DELTA CONNECTION

MAGNETIZATION CURVE - NO LOAD



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