

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		90 KW		741 RPM		
K315L-8 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES		
93,8 EFFICIENCY		168,7 AMPS		55 IP		IC411 IC		
8 POLE		S1 DUTY		0,822 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	86,50	91,61	93,27	93,75	93,79	93,78	
PF	0,057	0,421	0,641	0,769	0,822	0,832	0,844	0,280
RPM	750	746	744	743	741	740	739	0
SLIP	0,00%	0,57%	0,75%	0,95%	1,19%	1,29%	1,45%	100,00%
AMPS	77,97	89,09	110,67	135,76	168,65	183,02	205,26	1103,5
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	288,3	577,6	868,1	1160,3	1277,6	1454,2	2258,5
KW INPUT	3,071	26,01	49,12	72,37	96,00	105,55	119,96	214,32
KW OUTPUT	0	22,50	45,00	67,50	90,00	99,00	112,50	

LOSSES(kw)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0,453	0,699	1,052	1,623	1,91	2,40
STATOR LOSS %	1,74%	1,42%	1,45%	1,69%	1,81%	2,00%
ROTOR LOSS Pcu2	0,133	0,347	0,657	1,097	1,31	1,67
ROTOR LOSS %	0,51%	0,71%	0,91%	1,14%	1,24%	1,39%
CORE LOSS Pfe	2,201	2,201	2,201	2,201	2,201	2,201
CORE LOSS %	8,46%	4,48%	3,04%	2,29%	2,09%	1,84%
WINDAGE/FRICTION Pfw	0,573	0,573	0,573	0,573	0,573	0,573
WINDAGE/FRICTION %	2,20%	1,17%	0,79%	0,60%	0,54%	0,48%
STRAY LOAD LOSS Ps	0,130	0,246	0,362	0,480	0,528	0,600
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	0,02926 OHMS @	15 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0,038 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0,038 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	69,0 DEG.C.	at full load steady state at	90 SECS
WINDING TEMPERATURE RISE	73,2 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	92,3 DEG.C.	at full load steady state at ambient	17,5 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	NO DEG.C.	at full load steady state at ambient	17,5 DEG.C.
PT100 TEMPERATURE DE BEARING	65,8 DEG.C.	at full load steady state at ambient	17,5 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	17,5 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	44,5 DEG.C.	at full load steady state at ambient	17,5 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	51,8 DEG.C.	at full load steady state at ambient	17,5 DEG.C.

OTHER			
NOISE LEVEL(Lp)	71	dB(A) @ 1meter	INSULATION RESISTANCE 500 MEG.OHMS
VIBRATION LEVEL	2,2	mm/sec on no load	D.E. BEARING 6319
WEIGHT	1160	kg	N.D.E.BEARING 6319
H-POT TEST VOLTS	1800	VOLTS	

VALIADIS S.A. K315L-8 90 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE		REV
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	APPRVD		
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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	0,038038
NO LOAD CURRENT		AMP	77,97
NO LOAD INPUT		kW	3,071
CORE LOSS(Pfe)		kW	2,201
WINDAGE FRICTION LOSS(Pfw)		kW	0,573
STATOR WINDING LOSS(Pcu1)		kW	1,623
ROTOR WINDING LOSS(Pcu2)		kW	1,097
STRAY LOAD LOSS(Ps)		kW	0,480
FULL LOAD CURRENT		AMP	168,65
LOCKED ROTOR CURRENT		AMP	1103,49
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U.	6,5
LOCKED ROTOR INPUT @ FULL LOAD		kW	214,32
FULL LOAD TORQUE		N.m	1160,31
LOCKED ROTOR TORQUE		N.m	2258,46
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U.	1,95
PULL OUT TORQUE		N.m	3109,2
PULL OUT TORQUE/FULL LOAD TORQUE		P.U.	2,68
PULL UP TORQUE		N.m	1994,72
PULL UP TORQUE/FULL LOAD TORQUE		P.U.	1,72
EFFICIENCY @ FULL LOAD		%	93,75
POWER FACTOR @ FULL LOAD			0,822
FULL LOAD SLIP		%	1,190
FULL LOAD SPEED		r/min	741
STATOR WINDING TEMPERATURE RISE	90 SECS	K	69,0
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C	65,8
TEMPERATURE ON LEADS BY PT100		Deg. C	51,8
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C	44,5
AMBIENT TEMPERATURE OF TESTING		Deg. C	17,5
SOUND PRESSURE LEVEL		dB(A)	71
VIBRATION		mm/s	2,2
WEIGHT		kg	1160

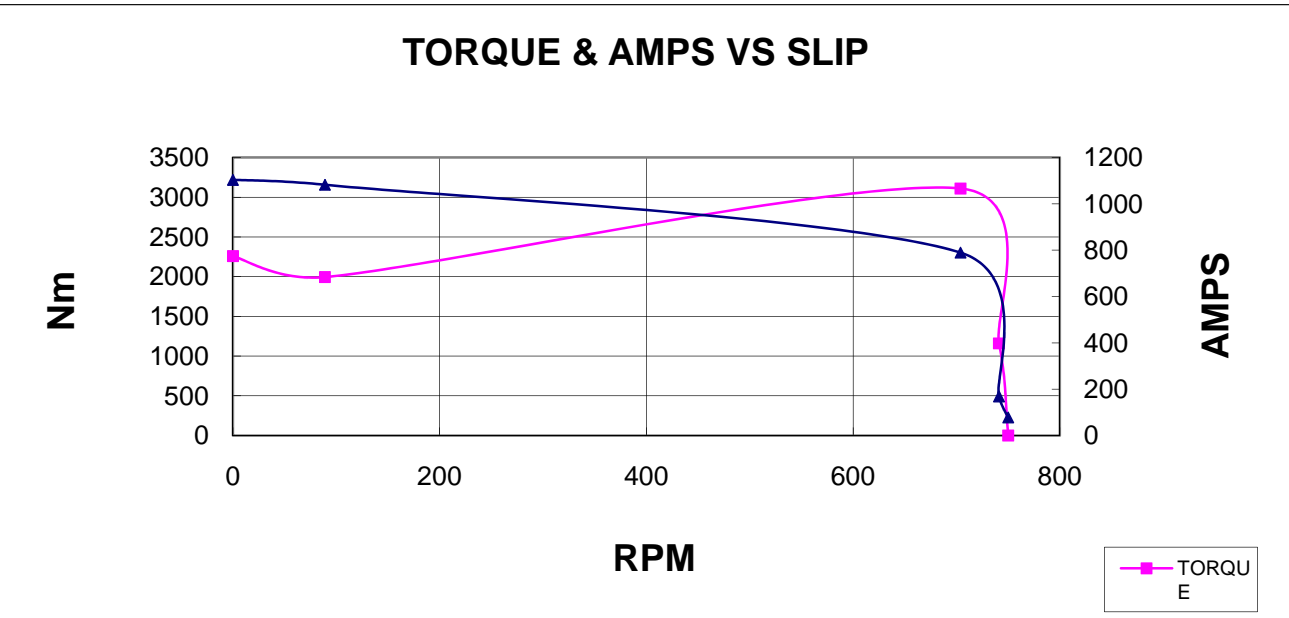
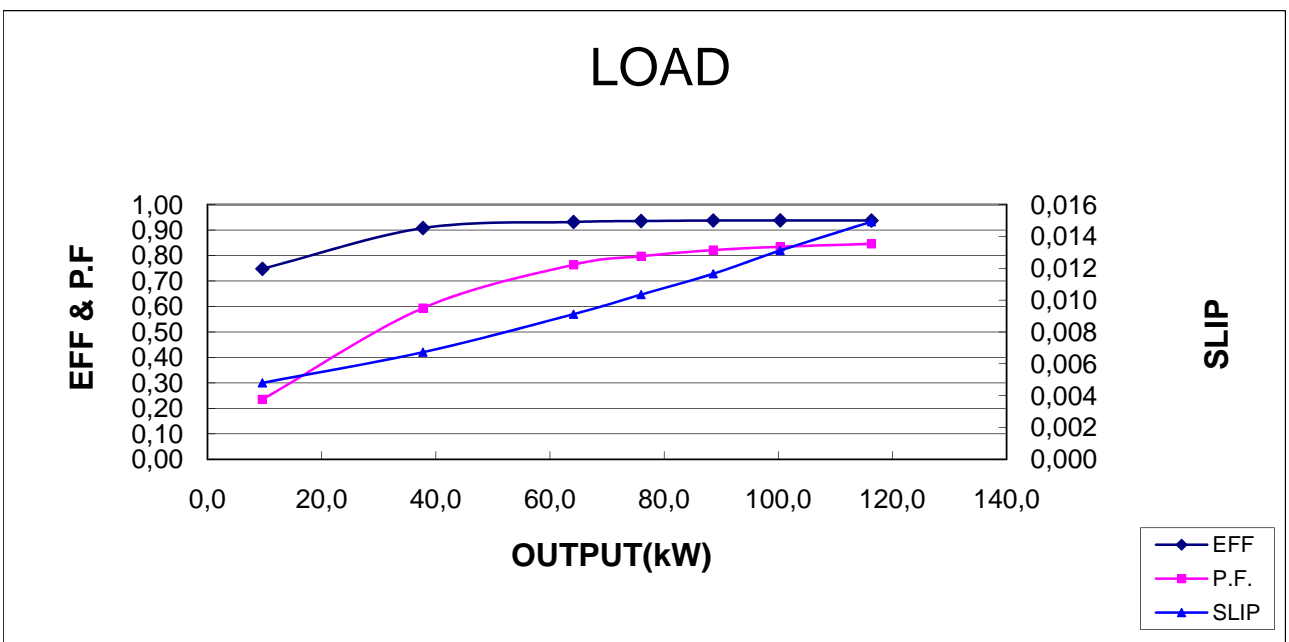
The data above is calculated as per IEC 34-2, all data at nominal Volts

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 8 POLE
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 SERIAL NO.

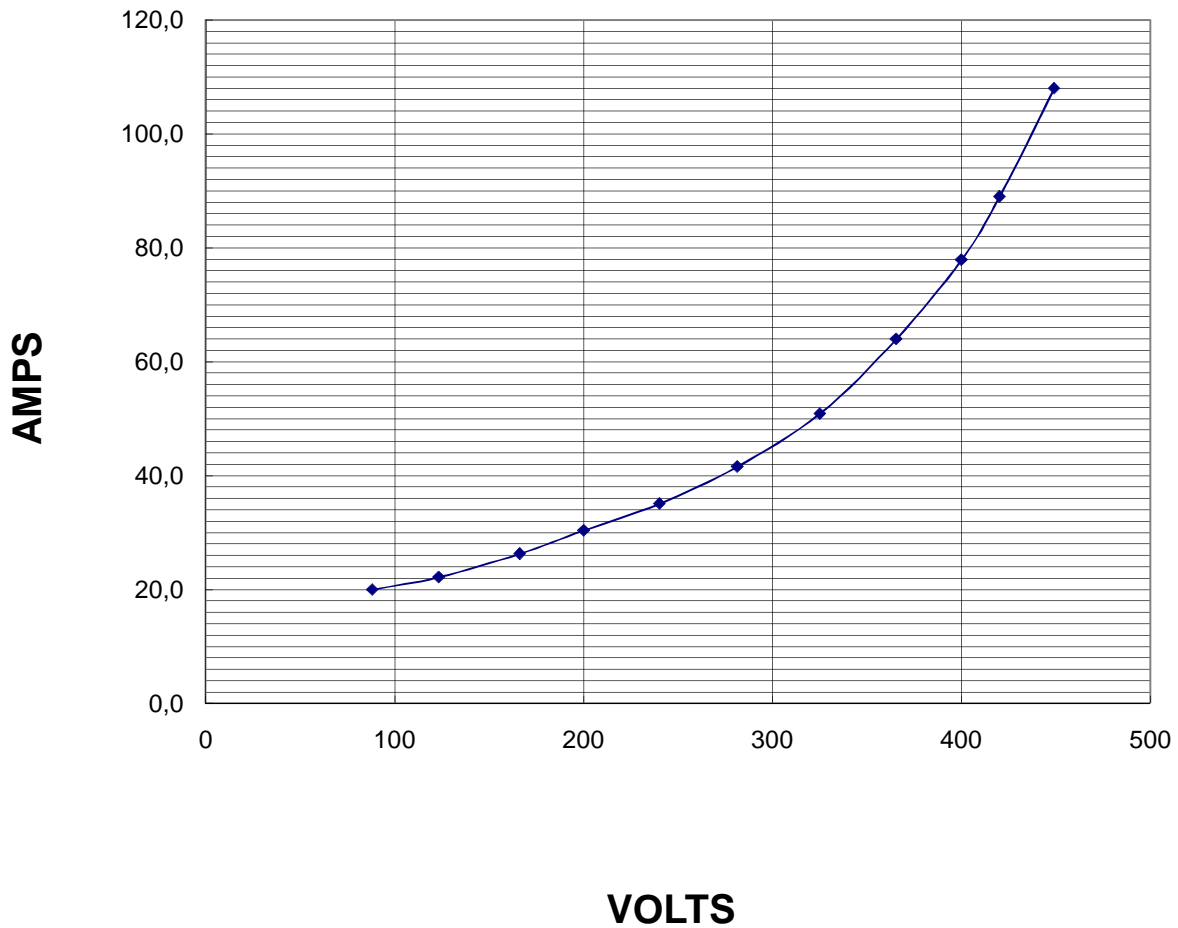
90 KW

400 VOLTS
 55 IP
 0,822 PF
 F INS.CLASS

741 RPM

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

MAGNETIZATION CURVE - NO LOAD



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