

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		200 KW		2981 RPM		
K315L-2 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES		
95.6 EFFICIENCY		334.8 AMPS		55 IP		IC411 IC		
2 POLE		S1 DUTY		0.902 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	89.67	93.88	95.13	95.58	95.65	95.68	
PF	0.113	0.737	0.845	0.889	0.902	0.901	0.895	0.300
RPM	3000	2995	2991	2987	2981	2979	2975	0
SLIP	0.00%	0.16%	0.29%	0.44%	0.62%	0.70%	0.83%	100.00%
AMPS	67.34	109.17	181.89	256.11	334.81	368.40	421.30	2172.6
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	159.5	319.4	479.8	640.9	705.6	802.8	1465.2
KW INPUT	5.295	55.76	106.52	157.69	209.24	230.00	261.29	451.09
KW OUTPUT	0	50.00	100.00	150.00	200.00	220.00	250.00	
LOSSES(kw)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD		
STATOR LOSS P _{cu1}	0.178	0.494	0.979	1.673	2.03	2.65		
STATOR LOSS %	0.32%	0.46%	0.62%	0.80%	0.88%	1.01%		
ROTOR LOSS P _{cu2}	0.085	0.298	0.683	1.281	1.58	2.12		
ROTOR LOSS %	0.15%	0.28%	0.43%	0.61%	0.69%	0.81%		
CORE LOSS P _{fe}	2.407	2.407	2.407	2.407	2.407	2.407		
CORE LOSS %	4.32%	2.26%	1.53%	1.15%	1.05%	0.92%		
WINDAGE/FRICTION P _{fw}	2.807	2.807	2.807	2.807	2.807	2.807		
WINDAGE/FRICTION %	5.03%	2.64%	1.78%	1.34%	1.22%	1.07%		
STRAY LOAD LOSS P _s	0.279	0.533	0.788	1.046	1.150	1.306		
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	0.0080087 OHMS @		26.6 DEG.C.		BETWEEN STATOR LEADS			
STATOR RESISTANCE ADJUSTED	0.010 OHMS @		90 DEG.C.		BETWEEN STATOR LEADS			
STATOR RESISTANCE HOT	0.011 OHMS		after test of temp rise		BETWEEN STATOR LEADS			
WINDING TEMPERATURE RISE	70.1 DEG.C.		at full load steady state at			90	SECS	
WINDING TEMPERATURE RISE	76.7 DEG.C.		at full load steady state at			0	SECS	
PT100 TEMPERATURE OF DE WINDING	99.2 DEG.C.		at full load steady state at ambient			28.6	DEG.C.	
PT100 TEMPERATURE OF NDE WINDING	NO DEG.C.		at full load steady state at ambient			28.6	DEG.C.	
PT100 TEMPERATURE DE BEARING	75.4 DEG.C.		at full load steady state at ambient			28.6	DEG.C.	
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.		at full load steady state at ambient			28.6	DEG.C.	
PT100 TEMPERATURE IN TERMINAL BOX	46 DEG.C.		at full load steady state at ambient			28.6	DEG.C.	
PT100 TEMPERATURE ON STATOR LEADS	55.3 DEG.C.		at full load steady state at ambient			28.6	DEG.C.	
OTHER								
NOISE LEVEL(Lp)	87	dB(A) @ 1meter		INSULATION RESISTANCE		500	MEG.OHMS	
VIBRATION LEVEL	2.6	mm/sec on no load		D.E. BEARING		6317C3		
WEIGHT	1220	kg		N.D.E.BEARING		6317C3		
H-POT TEST VOLTS	1800	VOLTS						
VALIADIS S.A. K315L-2 200 kW 400 VOLTS 50 Hz				SCALE	N/A			
				DATE				
				DRAWN				
				APPRVD				
				CHECKED				
				DOCUMENT NO.				

RESULT SUMMARY

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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	0.009950
NO LOAD CURRENT	AMP	67.34
NO LOAD INPUT	kW	5.295
CORE LOSS(Pfe)	kW	2.407
WINDAGE FRICTION LOSS(Pfw)	kW	2.807
STATOR WINDING LOSS(Pcu1)	kW	1.673
ROTOR WINDING LOSS(Pcu2)	kW	1.281
STRAY LOAD LOSS(Ps)	kW	1.046
FULL LOAD CURRENT	AMP	334.81
LOCKED ROTOR CURRENT	AMP	2172.62
LOCKED ROTOR CURRENT/FULL LOAD CURRENT	P.U.	6.5
LOCKED ROTOR INPUT @ FULL LOAD	kW	451.09
FULL LOAD TORQUE	N.m	640.95
LOCKED ROTOR TORQUE	N.m	1465.24
LOCKED ROTOR TORQUE/FULL LOAD TORQUE	P.U.	2.29
PULL OUT TORQUE	N.m	1863.2
PULL OUT TORQUE/FULL LOAD TORQUE	P.U.	2.91
PULL UP TORQUE	N.m	1281.24
PULL UP TORQUE/FULL LOAD TORQUE	P.U.	2.00
EFFICIENCY @ FULL LOAD	%	95.58
POWER FACTOR @ FULL LOAD		0.902
FULL LOAD SLIP	%	0.624
FULL LOAD SPEED	r/min	2981
STATOR WINDING TEMPERATURE RISE	90 SECS	70.1
D.E. BEARINGS TEMPERATURE BY PT100	Deg. C	75.4
TEMPERATURE ON LEADS BY PT100	Deg. C	55.3
TEMPERATURE IN TERMINAL BOX BY PT100	Deg. C	46.0
AMBIENT TEMPERATURE OF TESTING	Deg. C	28.6
SOUND PRESSURE LEVEL	dB(A)	87
VIBRATION	mm/s	2.6
MOMENT OF INERTIA	kgm2	2.0200
WEIGHT	kg	1220

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

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 S1 DUTY
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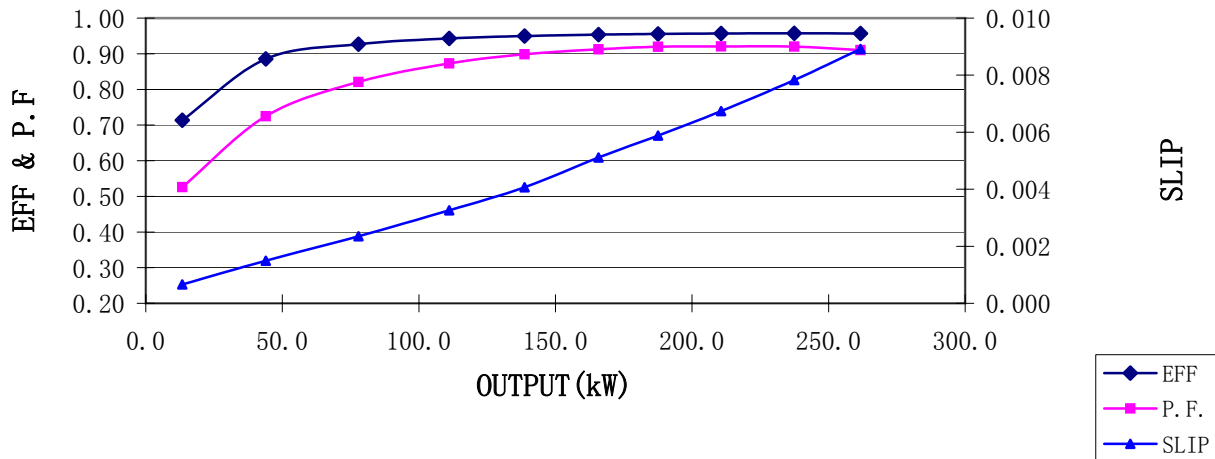
200 KW

400 VOLTS
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 0.902 PF
 F INS.CLASS

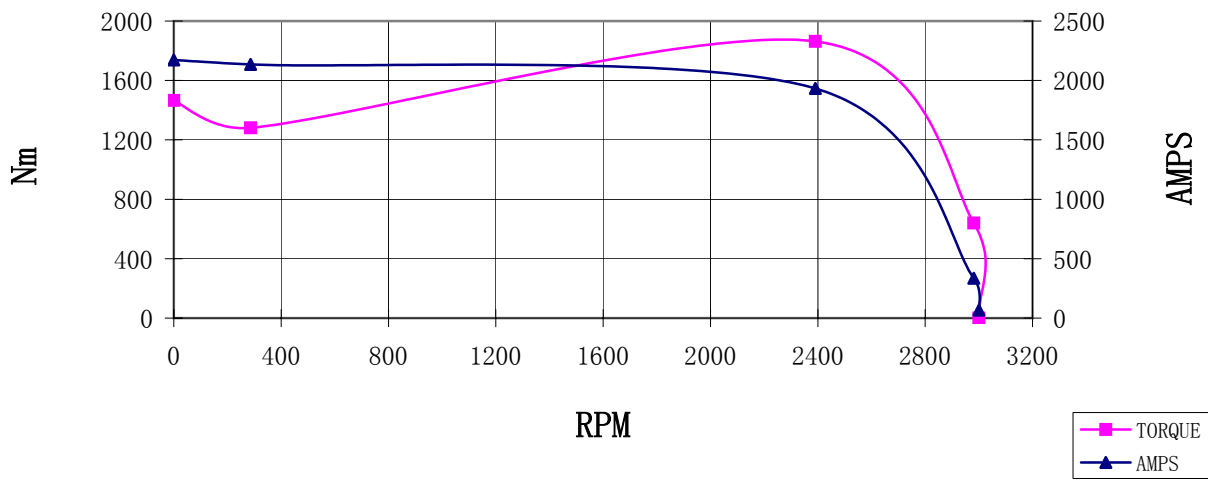
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LOAD



TORQUE & AMPS VS SLIP



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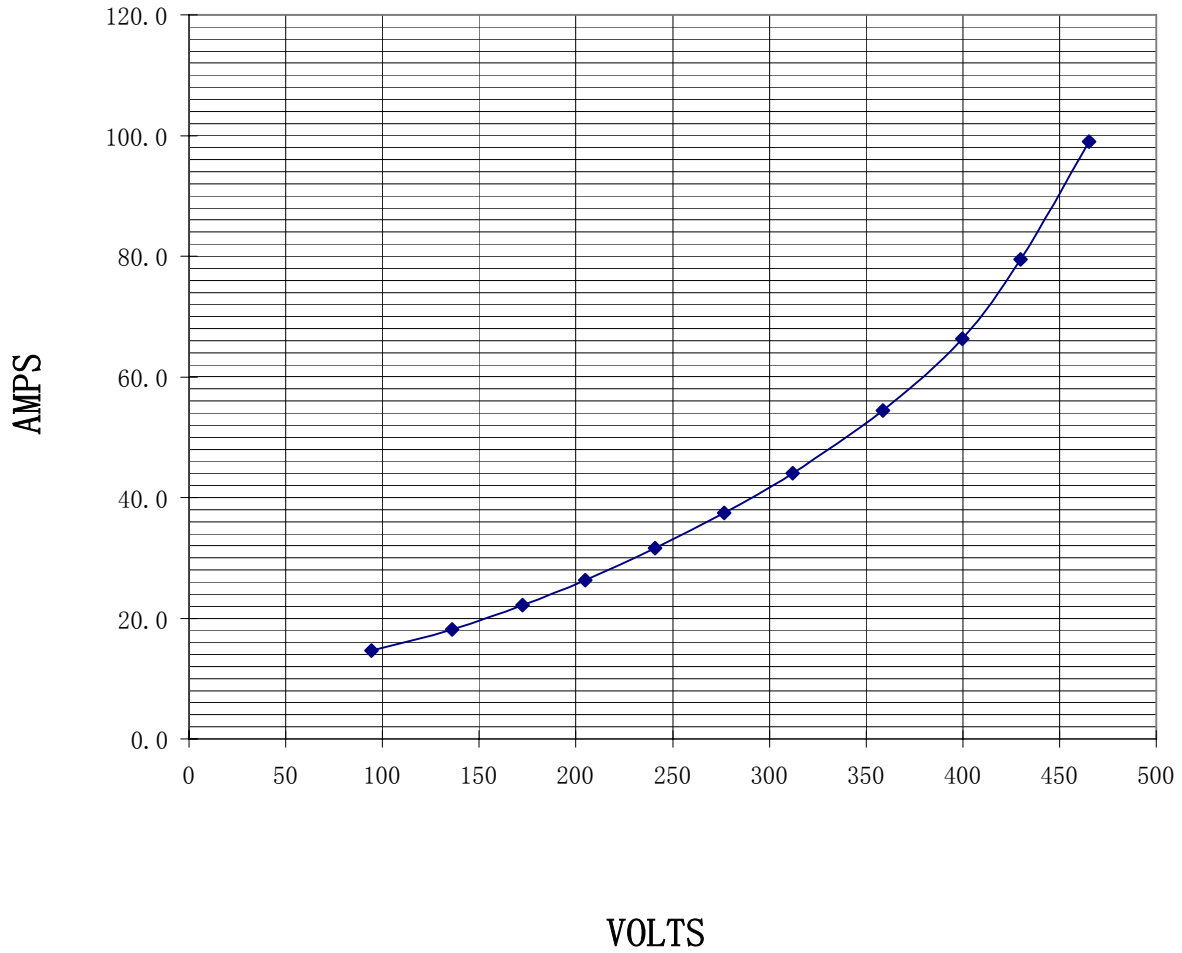
200 KW

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2981 RPM

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MAGNETIZATION CURVE - NO LOAD



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