

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA		IEC TYPE		30 KW		1468 RPM		
K200L-4 FRAME		3 PHASE		400 VOLTS		50 HZ / CYCLES		
92.3 EFFICIENCY		53.6 AMPS		55 IP		IC411 IC		
4 POLE		S1 DUTY		0.875 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	87.88	91.49	92.44	92.33	92.17	91.80	
PF	0.074	0.582	0.765	0.847	0.875	0.881	0.887	0.395
RPM	1500	1488	1482	1475	1468	1465	1461	0
SLIP	0.00%	0.82%	1.20%	1.64%	2.13%	2.32%	2.63%	100.00%
AMPS	17.18	21.17	30.93	41.48	53.63	58.67	66.49	339.7
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	48.2	96.7	145.7	195.2	215.2	245.3	391.6
KW INPUT	0.878	8.53	16.40	24.34	32.49	35.80	40.85	93.01
KW OUTPUT	0	7.50	15.00	22.50	30.00	33.00	37.50	
LOSSES(kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD		
STATOR LOSS Pcu1	0.132	0.283	0.508	0.849	1.02	1.31		
STATOR LOSS %	1.55%	1.72%	2.09%	2.61%	2.84%	3.20%		
ROTOR LOSS Pcu2	0.064	0.187	0.381	0.662	0.79	1.02		
ROTOR LOSS %	0.76%	1.14%	1.56%	2.04%	2.21%	2.51%		
CORE LOSS Pfe	0.578	0.578	0.578	0.578	0.578	0.578		
CORE LOSS %	6.77%	3.52%	2.37%	1.78%	1.61%	1.41%		
WINDAGE/FRICTION Pfw	0.227	0.227	0.227	0.227	0.227	0.227		
WINDAGE/FRICTION %	2.66%	1.38%	0.93%	0.70%	0.63%	0.56%		
STRAY LOAD LOSS Ps	0.043	0.082	0.122	0.162	0.179	0.204		
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	0.1598333 OHMS @		28.8 DEG.C.		BETWEEN STATOR LEADS			
STATOR RESISTANCE ADJUSTED	0.197 OHMS @		90 DEG.C.		BETWEEN STATOR LEADS			
STATOR RESISTANCE HOT	0.209 OHMS		after test of temp rise		BETWEEN STATOR LEADS			
WINDING TEMPERATURE RISE	78.7 DEG.C.		at full load steady state at			30	SECS	
WINDING TEMPERATURE RISE	81.7 DEG.C.		at full load steady state at			0	SECS	
PT100 TEMPERATURE OF DE WINDING	98.6 DEG.C.		at full load steady state at ambient			25.5	DEG.C.	
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.		at full load steady state at ambient			25.5	DEG.C.	
PT100 TEMPERATURE DE BEARING	90.3 DEG.C.		at full load steady state at ambient			25.5	DEG.C.	
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.		at full load steady state at ambient			25.5	DEG.C.	
PT100 TEMPERATURE IN TERMINAL BOX	52.5 DEG.C.		at full load steady state at ambient			25.5	DEG.C.	
PT100 TEMPERATURE ON STATOR LEADS	61.7 DEG.C.		at full load steady state at ambient			25.5	DEG.C.	
OTHER								
NOISE LEVEL(Lp)	72	dB(A) @ 1meter		INSULATION RESISTANCE		500	MEG.OHMS	
VIBRATION LEVEL	1.6	mm/sec on no load		D.E. BEARING		6312 C3		
WEIGHT	270	kg		N.D.E.BEARING		6212 C3		
H-POT TEST VOLTS	1800	VOLTS						
VALIADIS S.A. K200L-4 30 kW 400 VOLTS 50 Hz				SCALE	N/A			
				DATE				
				DRAWN				
				APPRVD				
				CHECKED				
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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	OHM 0.197
NO LOAD CURRENT		AMP 17.18
NO LOAD INPUT		kW 0.878
CORE LOSS(Pfe)		kW 0.578
WINDAGE FRICTION LOSS(Pfw)		kW 0.227
STATOR WINDING LOSS(Pcu1)		kW 0.849
ROTOR WINDING LOSS(Pcu2)		kW 0.662
STRAY LOAD LOSS(Ps)		kW 0.162
FULL LOAD CURRENT		AMP 53.63
LOCKED ROTOR CURRENT		AMP 339.70
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 6.3
LOCKED ROTOR INPUT @ FULL LOAD		kW 93.01
FULL LOAD TORQUE		N.m 195.25
LOCKED ROTOR TORQUE		N.m 391.55
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.01
PULL OUT TORQUE		N.m 509.9
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.61
PULL UP TORQUE		N.m 359.07
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.84
EFFICIENCY @ FULL LOAD		% 92.33
POWER FACTOR @ FULL LOAD		0.875
FULL LOAD SLIP		% 2.132
FULL LOAD SPEED		r/min 1468
STATOR WINDING TEMPERATURE RISE	30 SECS	K 78.7
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C 90.3
TEMPERATURE ON LEADS BY PT100		Deg. C 61.7
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C 52.5
AMBIENT TEMPERATURE OF TESTING		Deg. C 25.5
SOUND PRESSURE LEVEL		dB(A) 72
VIBRATION		mm/s 1.6
MOMENT OF INERTIA		kgm2 0.2620
WEIGHT		kg 270

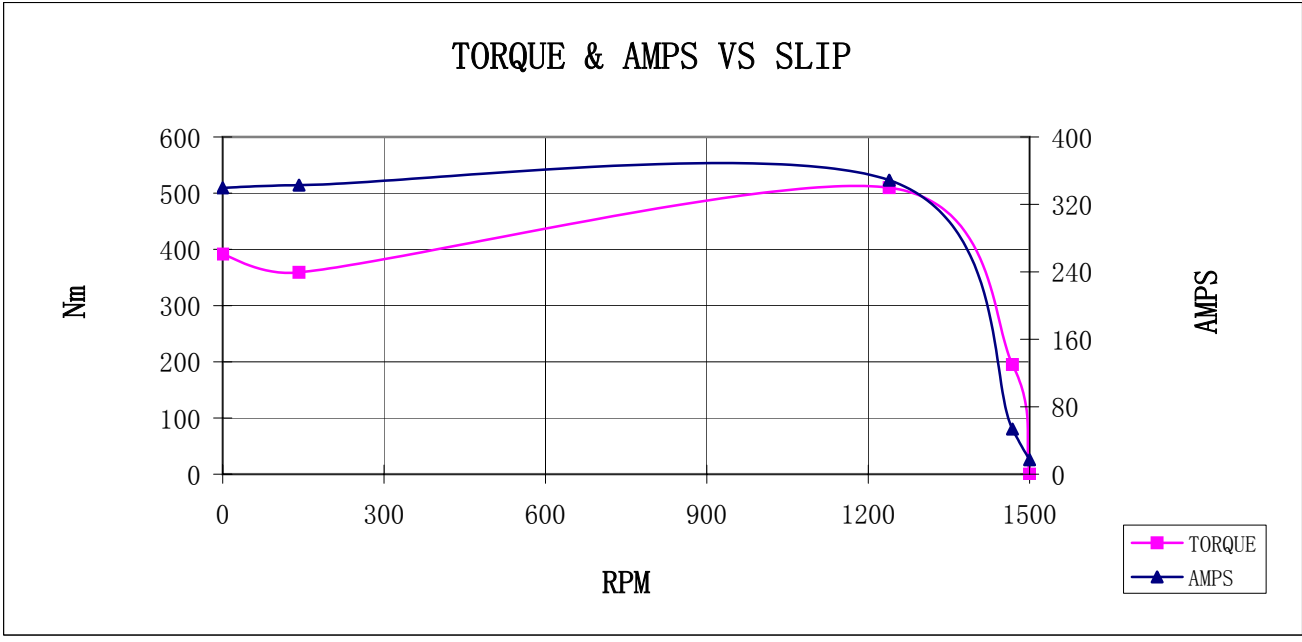
The data above is calculated as per IEC 34-2,all data at nominal Volts

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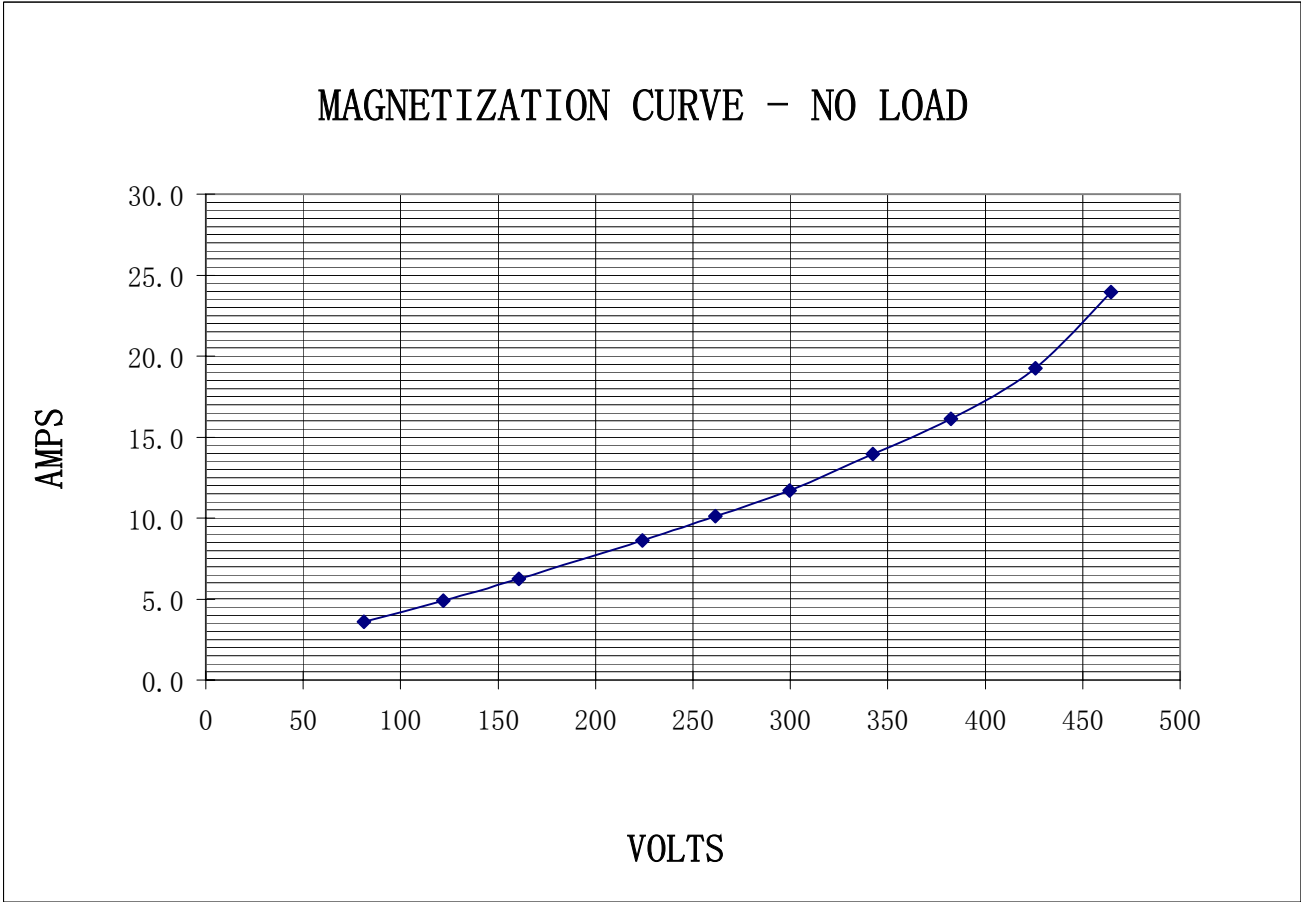


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