

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC TYPE	45 KW	1479 RPM
K225M-4 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
93.3 EFFICIENCY	78.4 AMPS	55 IP	IC411 IC
4 POLE	S1 DUTY	0.888 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	88.17	92.11	93.30	93.27	93.20	92.86	
PF	0.078	0.624	0.799	0.863	0.888	0.894	0.894	0.388
RPM	1500	1494	1489	1483	1479	1477	1473	0
SLIP	0.00%	0.37%	0.73%	1.11%	1.41%	1.55%	1.82%	100.00%
AMPS	24.96	29.53	44.11	60.49	78.41	85.76	97.80	525.7
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	71.9	144.4	217.4	290.7	320.3	364.9	534.0
KW INPUT	1.346	12.76	24.43	36.17	48.25	53.11	60.58	141.35
KW OUTPUT	0	11.25	22.50	33.75	45.00	49.50	56.25	

LOSSES(kW)	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125%LOAD
STATOR LOSS Pcu1	0.153	0.342	0.643	1.081	1.29	1.68
STATOR LOSS %	1.20%	1.40%	1.78%	2.24%	2.43%	2.78%
ROTOR LOSS Pcu2	0.044	0.169	0.383	0.654	0.79	1.06
ROTOR LOSS %	0.34%	0.69%	1.06%	1.35%	1.49%	1.74%
CORE LOSS Pfe	0.911	0.911	0.911	0.911	0.911	0.911
CORE LOSS %	7.14%	3.73%	2.52%	1.89%	1.72%	1.50%
WINDAGE/FRICTION Pfw	0.336	0.336	0.336	0.336	0.336	0.336
WINDAGE/FRICTION %	2.63%	1.38%	0.93%	0.70%	0.63%	0.55%
STRAY LOAD LOSS Ps	0.064	0.122	0.181	0.241	0.266	0.303
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	0.0941333 OHMS @	26 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.117 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.124 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	75.1 DEG.C.	at full load steady state at	30 SECS
WINDING TEMPERATURE RISE	77.5 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	105.8 DEG.C.	at full load steady state at ambient	28.7 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.	at full load steady state at ambient	28.7 DEG.C.
PT100 TEMPERATURE DE BEARING	96.3 DEG.C.	at full load steady state at ambient	28.7 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	28.7 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	64.8 DEG.C.	at full load steady state at ambient	28.7 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	66.2 DEG.C.	at full load steady state at ambient	28.7 DEG.C.

OTHER

NOISE LEVEL(Lp)	69	dB(A) @ 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	2.3	mm/sec on no load	D.E. BEARING		6313C3
WEIGHT	320	kg	N.D.E.BEARING		6313C3
H-POT TEST VOLTS	1800	VOLTS			

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MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM 0.117
NO LOAD CURRENT		AMP 24.96
NO LOAD INPUT		kW 1.346
CORE LOSS(Pfe)		kW 0.911
WINDAGE FRICTION LOSS(Pfw)		kW 0.336
STATOR WINDING LOSS(Pcu1)		kW 1.081
ROTOR WINDING LOSS(Pcu2)		kW 0.654
STRAY LOAD LOSS(Ps)		kW 0.241
FULL LOAD CURRENT		AMP 78.41
LOCKED ROTOR CURRENT		AMP 525.68
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 6.7
LOCKED ROTOR INPUT @ FULL LOAD		kW 141.35
FULL LOAD TORQUE		N.m 290.73
LOCKED ROTOR TORQUE		N.m 533.99
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 1.84
PULL OUT TORQUE		N.m 813.6
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.80
PULL UP TORQUE		N.m 520.15
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.79
EFFICIENCY @ FULL LOAD		% 93.27
POWER FACTOR @ FULL LOAD		0.888
FULL LOAD SLIP		% 1.413
FULL LOAD SPEED		r/min 1479
STATOR WINDING TEMPERATURE RISE	30 SECS	K 75.1
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C 96.3
TEMPERATURE ON LEADS BY PT100		Deg. C 66.2
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C 64.8
AMBIENT TEMPERATURE OF TESTING		Deg. C 28.7
SOUND PRESSURE LEVEL		dB(A) 69
VIBRATION		mm/s 2.3
MOMENT OF INERTIA		kgm2 0.469
WEIGHT		kg 320

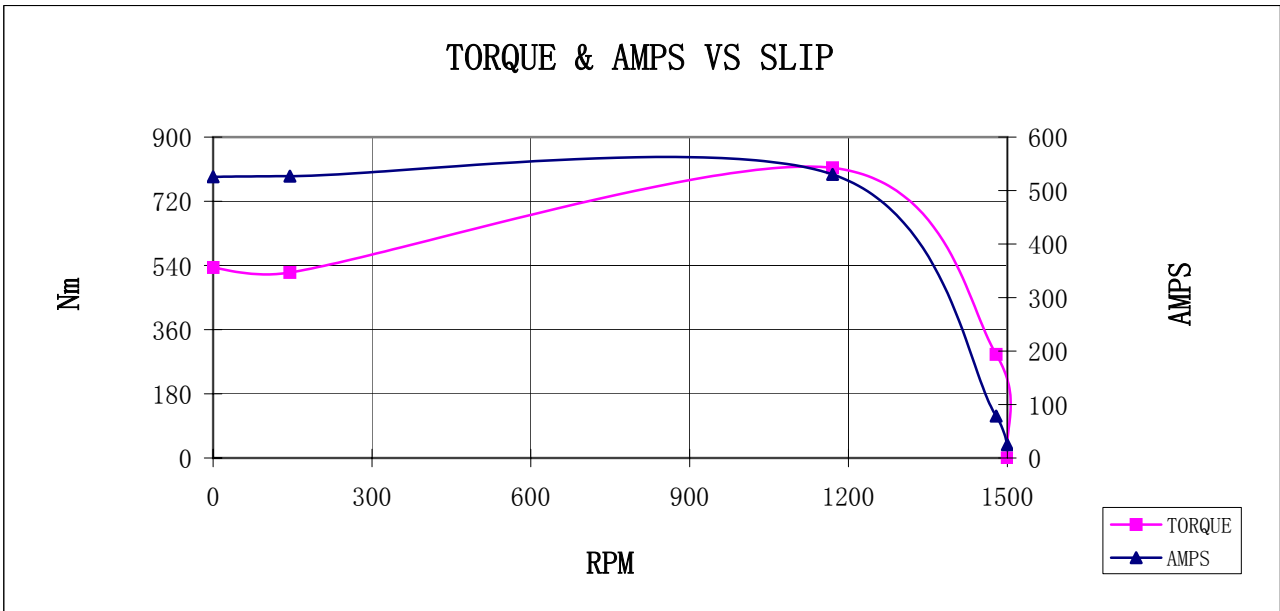
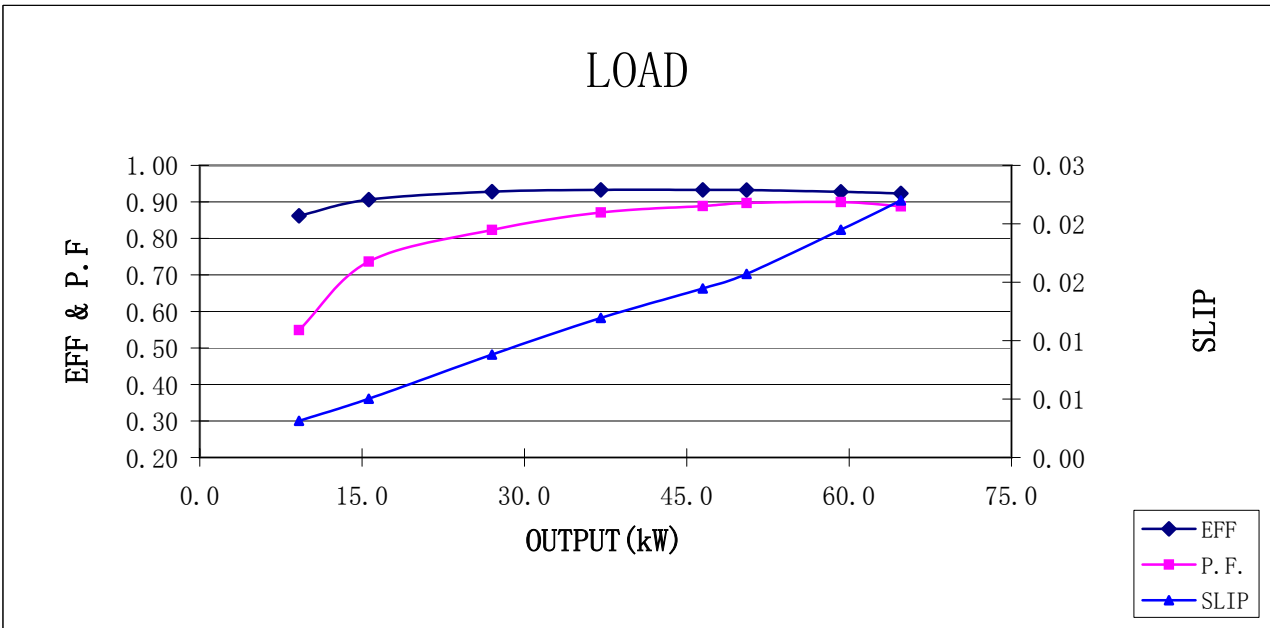
The data above is calculated as per IEC 34-2, all data at nominal Volts

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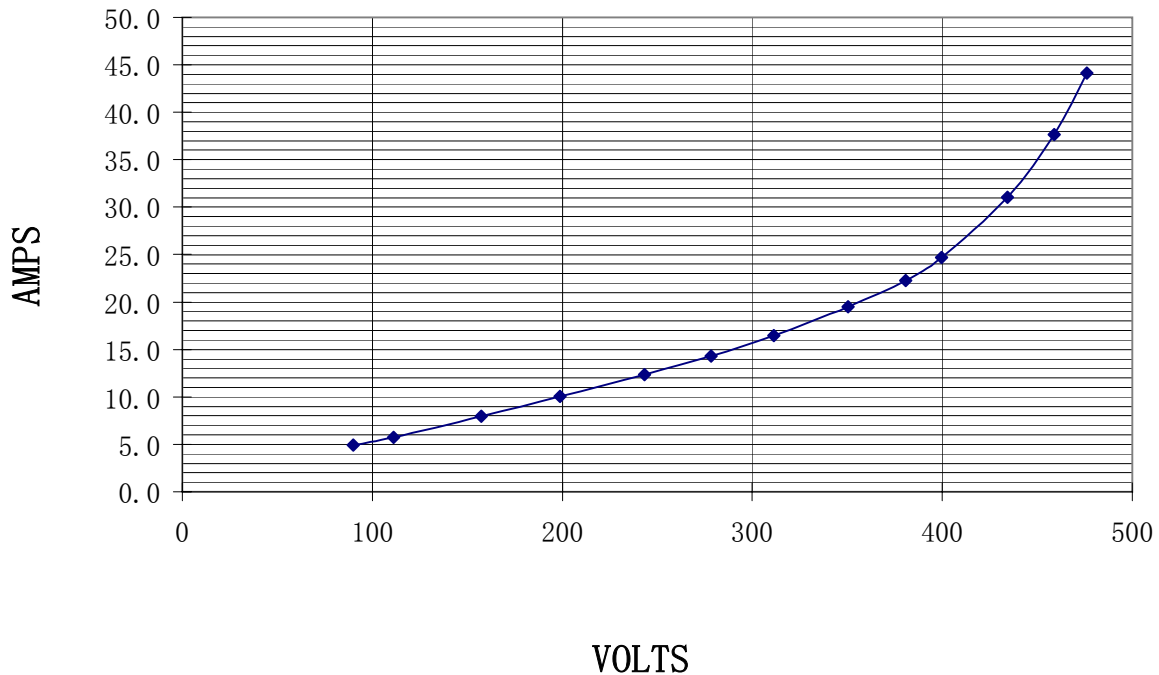
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MAGNETIZATION CURVE - NO LOAD



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