

NAMEPLATE DATA	IEC TYPE	30 KW	983 RPM
K225M-6 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
91.4 EFFICIENCY	56.2 AMPS	55 IP	IC411 IC
6 POLE	S1 DUTY	0.843 PF	N/A EFF2
VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

TEST DATA								LOCKED
	NO LOAD	25% LOAD	50% LOAD	75% LOAD	100% LOAD	110% LOAD	125% LOAD	ROTOR
EFFICIENCY	0	84.04	89.45	91.03	91.40	91.27	91.07	
PF	0.089	0.541	0.729	0.811	0.843	0.846	0.853	0.443
RPM	1000	998	993	988	983	981	977	0
SLIP	0.00%	0.21%	0.72%	1.21%	1.68%	1.91%	2.26%	100.00%
AMPS	21.59	23.79	33.20	44.00	56.19	61.71	69.65	383.1
VOLTS	400	400	400	400	400	400	400	400
TORQUE NM	0	71.8	144.3	217.6	291.5	321.4	366.5	754.1
KW INPUT	1.332	8.92	16.77	24.72	32.82	36.16	41.18	117.57
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	0.163	0.318	0.558	0.911	1.10	1.40
STATOR LOSS %	1.83%	1.90%	2.26%	2.77%	3.04%	3.40%
ROTOR LOSS Pcu2	0.016	0.111	0.280	0.518	0.65	0.87
ROTOR LOSS %	0.18%	0.66%	1.13%	1.58%	1.79%	2.12%
CORE LOSS Pfe	1.063	1.063	1.063	1.063	1.063	1.063
CORE LOSS %	11.91%	6.34%	4.30%	3.24%	2.94%	2.58%
WINDAGE/FRICTION Pfw	0.147	0.147	0.147	0.147	0.147	0.147
WINDAGE/FRICTION %	1.64%	0.87%	0.59%	0.45%	0.41%	0.36%
STRAY LOAD LOSS Ps	0.045	0.084	0.124	0.164	0.181	0.206
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	0.1546667 OHMS @	26.5 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE ADJUSTED	0.192 OHMS @	90 DEG.C.	BETWEEN STATOR LEADS
STATOR RESISTANCE HOT	0.200 OHMS	after test of temp rise	BETWEEN STATOR LEADS
WINDING TEMPERATURE RISE	77.6 DEG.C.	at full load steady state at	30 SECS
WINDING TEMPERATURE RISE	80.1 DEG.C.	at full load steady state at	0 SECS
PT100 TEMPERATURE OF DE WINDING	104.3 DEG.C.	at full load steady state at ambient	26.2 DEG.C.
PT100 TEMPERATURE OF NDE WINDING	N/A DEG.C.	at full load steady state at ambient	26.2 DEG.C.
PT100 TEMPERATURE DE BEARING	79.5 DEG.C.	at full load steady state at ambient	26.2 DEG.C.
PT100 TEMPERATURE NDE BEARING	N/A DEG.C.	at full load steady state at ambient	26.2 DEG.C.
PT100 TEMPERATURE IN TERMINAL BOX	65.5 DEG.C.	at full load steady state at ambient	26.2 DEG.C.
PT100 TEMPERATURE ON STATOR LEADS	71.8 DEG.C.	at full load steady state at ambient	26.2 DEG.C.

OTHER

NOISE LEVEL(Lp)	69	dB(A) @ 1meter	INSULATION RESISTANCE	500	MEG.OHMS
VIBRATION LEVEL	1.8	mm/sec on no load	D.E. BEARING	6313	
WEIGHT	330	kg	N.D.E.BEARING	6312	
H-POT TEST VOLTS	1800	VOLTS			

VALIADIS S.A. K225M-6 30 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE	2003.09.14	REV
	DRAWN		DOCUMENT NO.
	APPRVD		
	CHECKED		

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC TYPE	30 KW	983 RPM
K225M-6 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
91.4 EFFICIENCY	56.2 AMPS	55 IP	IC411 IC
6 POLE	S1 DUTY	0.843 PF	N/A EFF2
VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAJOR CONTENTS	UNIT	TEST VALUE
STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM 0.192
NO LOAD CURRENT		AMP 21.59
NO LOAD INPUT		kW 1.332
CORE LOSS(Pfe)		kW 1.063
WINDAGE FRICTION LOSS(Pfw)		kW 0.147
STATOR WINDING LOSS(Pcu1)		kW 0.911
ROTOR WINDING LOSS(Pcu2)		kW 0.518
STRAY LOAD LOSS(Ps)		kW 0.164
FULL LOAD CURRENT		AMP 56.19
LOCKED ROTOR CURRENT		AMP 383.08
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U. 6.8
LOCKED ROTOR INPUT @ FULL LOAD		kW 117.57
FULL LOAD TORQUE		N.m 291.51
LOCKED ROTOR TORQUE		N.m 754.12
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U. 2.59
PULL OUT TORQUE		N.m 783.7
PULL OUT TORQUE/FULL LOAD TORQUE		P.U. 2.69
PULL UP TORQUE		N.m 547.77
PULL UP TORQUE/FULL LOAD TORQUE		P.U. 1.88
EFFICIENCY @ FULL LOAD		% 91.40
POWER FACTOR @ FULL LOAD		0.843
FULL LOAD SLIP		% 1.678
FULL LOAD SPEED		r/min 983
STATOR WINDING TEMPERATURE RISE	30 SECS	K 77.6
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C 79.5
TEMPERATURE ON LEADS BY PT100		Deg. C 71.8
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C 65.5
AMBIENT TEMPERATURE OF TESTING		Deg. C 26.2
SOUND PRESSURE LEVEL		dB(A) 69
VIBRATION		mm/s 1.8
MOMENT OF INERTIA		kgm2 0.5470
WEIGHT		kg 330

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

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ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA

K225M-6 FRAME
 91.4 EFFICIENCY
 6 POLE
 VALIADIS MANUFACTURER

IEC TYPE

3 PHASE
 56.2 AMPS
 S1 DUTY
 SERIAL NO.

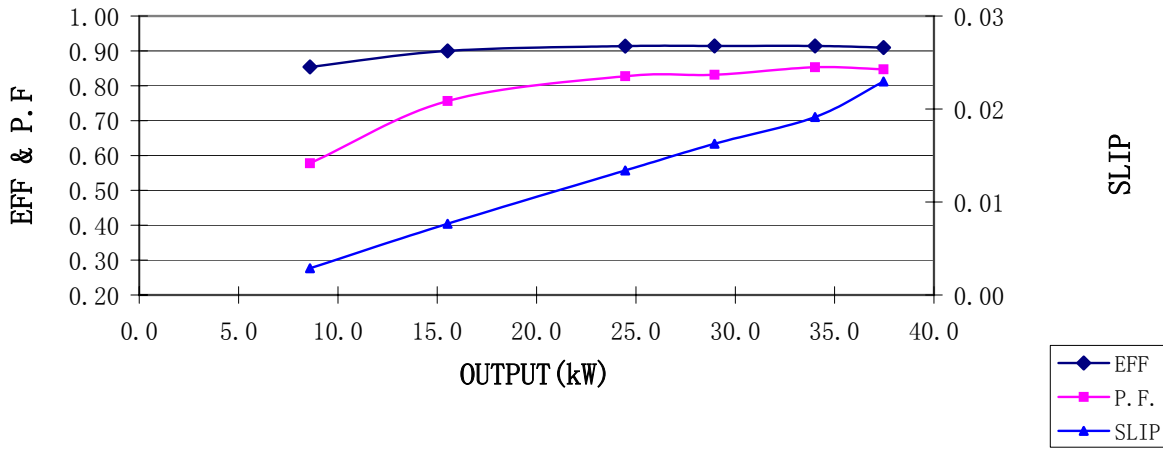
30 KW

400 VOLTS
 55 IP
 0.843 PF
 F INS.CLASS

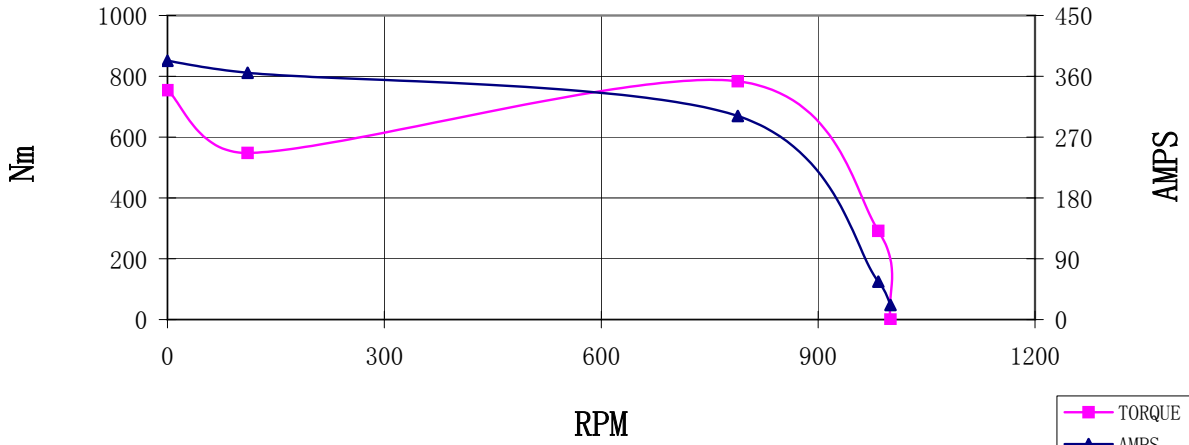
983 RPM

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

LOAD



TORQUE & AMPS VS SLIP



VALIADIS S.A.	SCALE	N/A	
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VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA

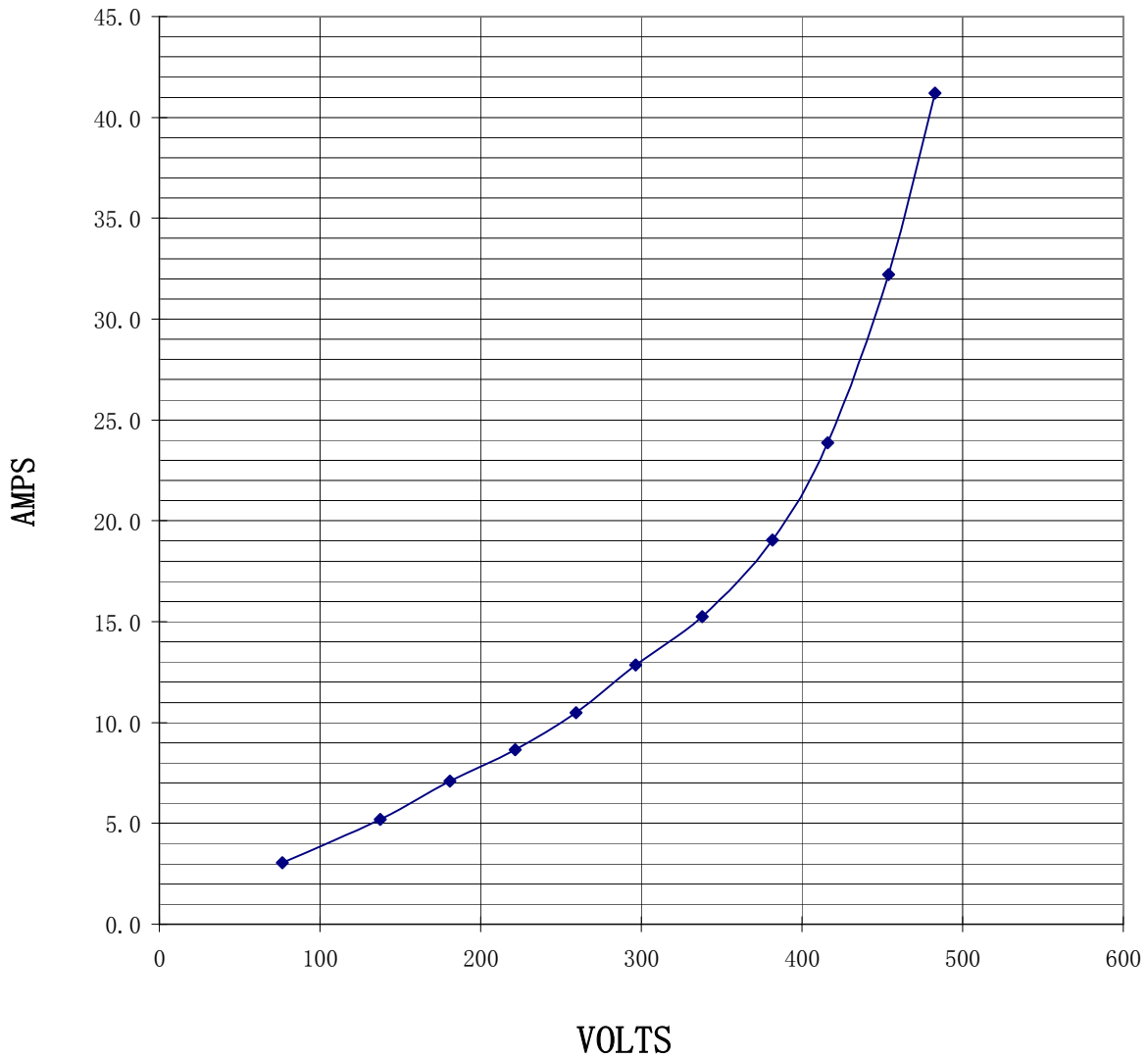
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IEC TYPE
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 56.2 AMPS
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 SERIAL NO.

30 KW
 400 VOLTS
 55 IP
 0.843 PF
 F INS.CLASS

983 RPM
 50 HZ / CYCLES
 IC411 IC
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MAGNETIZATION CURVE - NO LOAD



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