

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

RESULT SUMMARY

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC TYPE	160 KW	2982 RPM
K315L-2 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
95.0 EFFICIENCY	262.6 AMPS	55 IP	IC411 IC
2 POLE	S1 DUTY	0.926 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	0.015847
NO LOAD CURRENT		AMP	67.89
NO LOAD INPUT		kW	5.079
CORE LOSS(Pfe)		kW	2.050
WINDAGE FRICTION LOSS(Pfw)		kW	2.923
STATOR WINDING LOSS(Pcu1)		kW	1.639
ROTOR WINDING LOSS(Pcu2)		kW	1.001
STRAY LOAD LOSS(Ps)		kW	0.842
FULL LOAD CURRENT		AMP	262.62
LOCKED ROTOR CURRENT		AMP	1805.02
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U.	6.9
LOCKED ROTOR INPUT @ FULL LOAD		kW	454.30
FULL LOAD TORQUE		N.m	512.67
LOCKED ROTOR TORQUE		N.m	1113.40
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U.	2.17
PULL OUT TORQUE		N.m	1473.8
PULL OUT TORQUE/FULL LOAD TORQUE		P.U.	2.87
PULL UP TORQUE		N.m	871.10
PULL UP TORQUE/FULL LOAD TORQUE		P.U.	1.70
EFFICIENCY @ FULL LOAD		%	94.96
POWER FACTOR @ FULL LOAD			0.926
FULL LOAD SLIP		%	0.608
FULL LOAD SPEED		r/min	2982
STATOR WINDING TEMPERATURE RISE	90 SECS	K	66.6
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C	82.0
TEMPERATURE ON LEADS BY PT100		Deg. C	63.2
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C	50.2
AMBIENT TEMPERATURE OF TESTING		Deg. C	28.1
SOUND PRESSURE LEVEL		dB(A)	85
VIBRATION		mm/s	2.8
MOMENT OF INERTIA		kgm2	1.7600
WEIGHT		kg	1190

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

	VALIADIS S.A.	SCALE	N/A		
		DATE	2003.08.03	REV	
		DRAWN		DOCUMENT NO.	
		APPRVD			
	K315L-2	CHECKED			
	160 kW				
	400 VOLTS				
	50 Hz				

VALIADIS S.A.

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NAMEPLATE DATA

K315L-2 FRAME

95.0 EFFICIENCY

2 POLE

VALIADIS MANUFACTURER

IEC TYPE

3 PHASE

262.6 AMPS

S1 DUTY

SERIAL NO.

160 KW

400 VOLTS

55 IP

0.926 PF

F INS.CLASS

2982 RPM

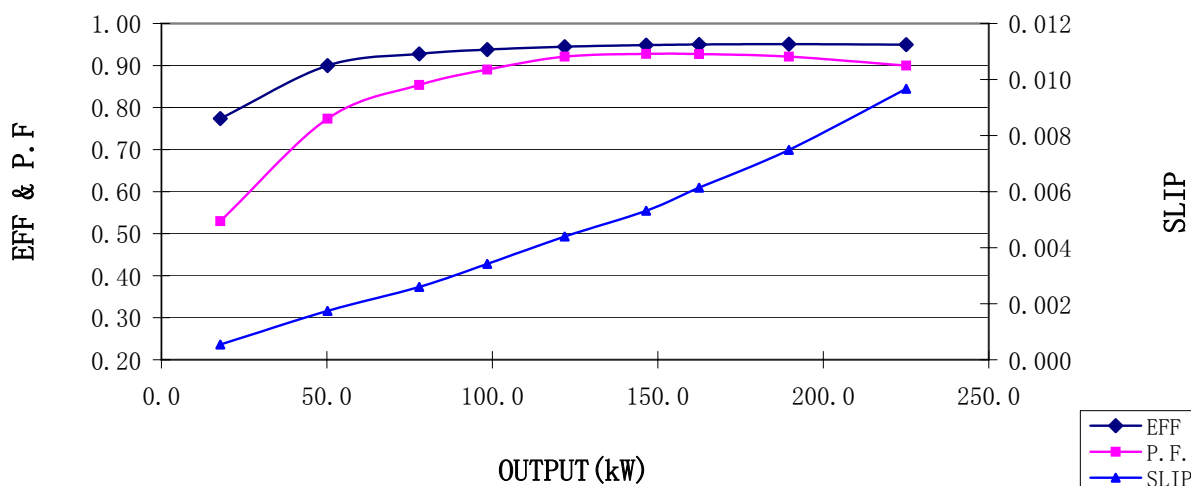
50 HZ / CYCLES

IC411 IC

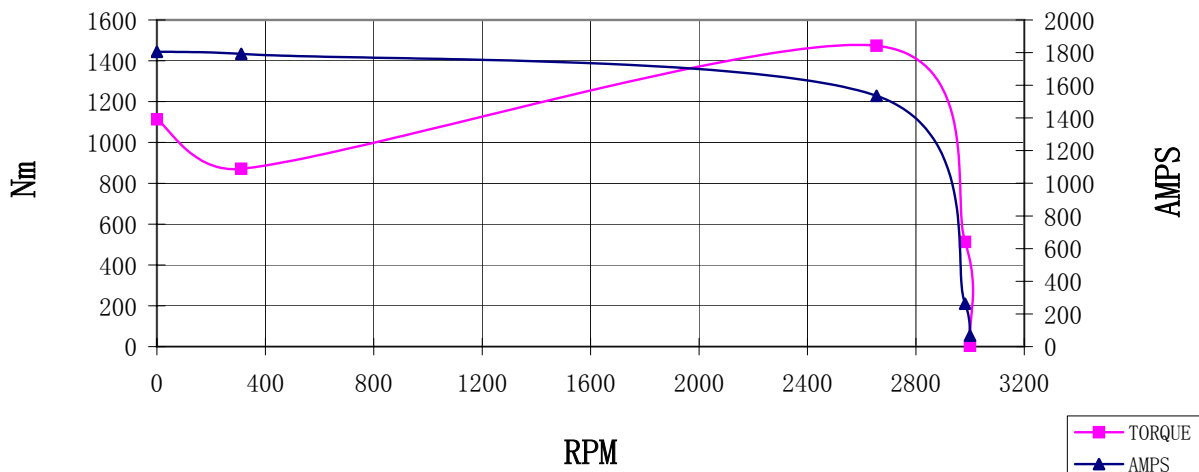
N/A EFF2

DELTA CONNECTION

LOAD



TORQUE & AMPS VS SLIP



VALIADIS S.A.

K315L-2

160

kw

400 VOLTS

50 Hz

SCALE

DATE

DRAWN

APPRVD

CHECKED

N/A

2003.08.03

REV

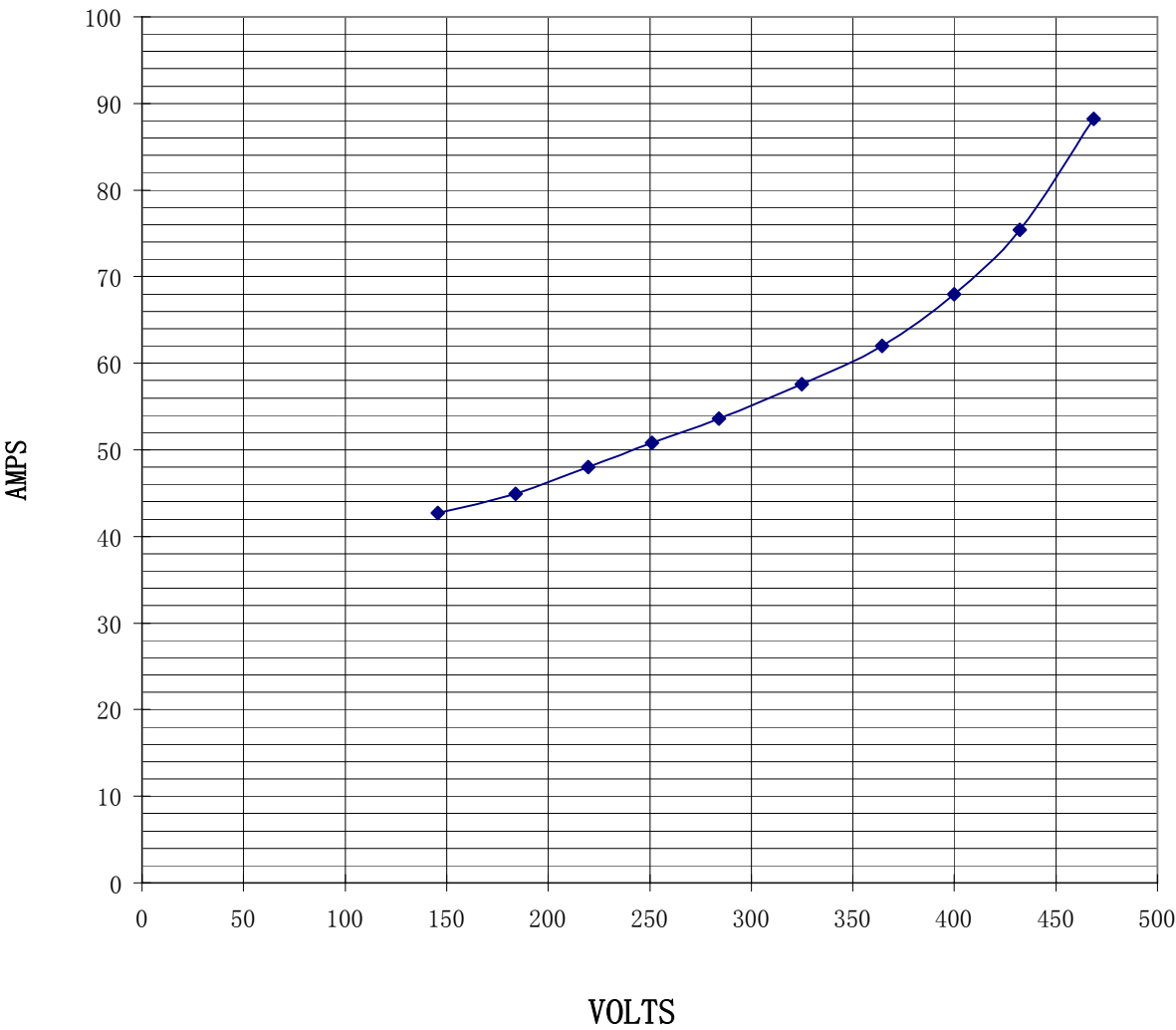
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VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAGNETIZATION CURVE – NO LOAD



VALIADIS S.A. K315L-2 160 KW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE	2003.08.03	REV
	DRAWN		DOCUMENT NO.
	APPRVD		
	CHECKED		