

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

RESULT SUMMARY

VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA

K180L-4 **FRAME**
91.4 **EFFICIENCY**
4 **POLE**
VALIADIS **MANUFACTURER**

IEC **TYPE**
3 **PHASE**
39.3 **AMPS**
S1 **DUTY**
SERIAL NO.

22 **KW**
400 **VOLTS**
55 **IP**
0.885 **PF**
F **INS.CLASS**

1469 **RPM**
50 **HZ / CYCLES**
IC411 **IC**
N/A **EFF2**
DELTA **CONNECTION**

MAJOR CONTENTS

UNIT

TEST VALUE

STATOR RESISTANCE OF PHASE TO PHASE	90 DEG.C	OHM	0.299
NO LOAD CURRENT		AMP	15.17
NO LOAD INPUT		kW	0.847
CORE LOSS(Pfe)		kW	0.564
WINDAGE FRICTION LOSS(Pfw)		kW	0.212
STATOR WINDING LOSS(Pcu1)		kW	0.691
ROTOR WINDING LOSS(Pcu2)		kW	0.471
STRAY LOAD LOSS(Ps)		kW	0.120
FULL LOAD CURRENT		AMP	39.28
LOCKED ROTOR CURRENT		AMP	297.90
LOCKED ROTOR CURRENT/FULL LOAD CURRENT		P.U.	7.6
LOCKED ROTOR INPUT @ FULL LOAD		kW	99.03
FULL LOAD TORQUE		N.m	143.08
LOCKED ROTOR TORQUE		N.m	370.17
LOCKED ROTOR TORQUE/FULL LOAD TORQUE		P.U.	2.59
PULL OUT TORQUE		N.m	467.8
PULL OUT TORQUE/FULL LOAD TORQUE		P.U.	3.27
PULL UP TORQUE		N.m	276.01
PULL UP TORQUE/FULL LOAD TORQUE		P.U.	1.93
EFFICIENCY @ FULL LOAD		%	91.37
POWER FACTOR @ FULL LOAD			0.885
FULL LOAD SLIP		%	2.065
FULL LOAD SPEED		r/min	1469
STATOR WINDING TEMPERATURE RISE	30 SECS	K	66.4
D.E. BEARINGS TEMPERATURE BY PT100		Deg. C	0.0
TEMPERATURE ON LEADS BY PT100		Deg. C	0.0
TEMPERATURE IN TERMINAL BOX BY PT100		Deg. C	0.0
AMBIENT TEMPERATURE OF TESTING		Deg. C	17.3
SOUND PRESSURE LEVEL		dB(A)	65
VIBRATION		mm/s	1.2
MOMENT OF INERTIA		kgm2	0.1580
WEIGHT		kg	190

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

VALIADIS S.A.

K180L-4
22 kW

400 VOLTS 50 Hz

SCALE

N/A

DATE

REV

DRAWN

DOCUMENT NO.

APPRVD

CHECKED

PERFORMANCE

VALIADIS S.A.

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91.4 EFFICIENCY

4 POLE

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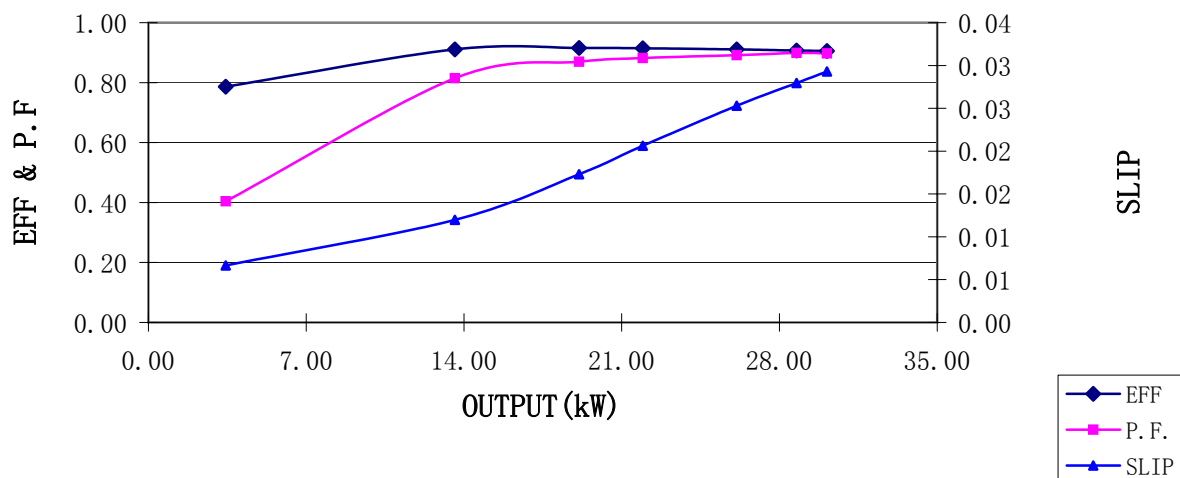
50 HZ / CYCLES

IC411 IC

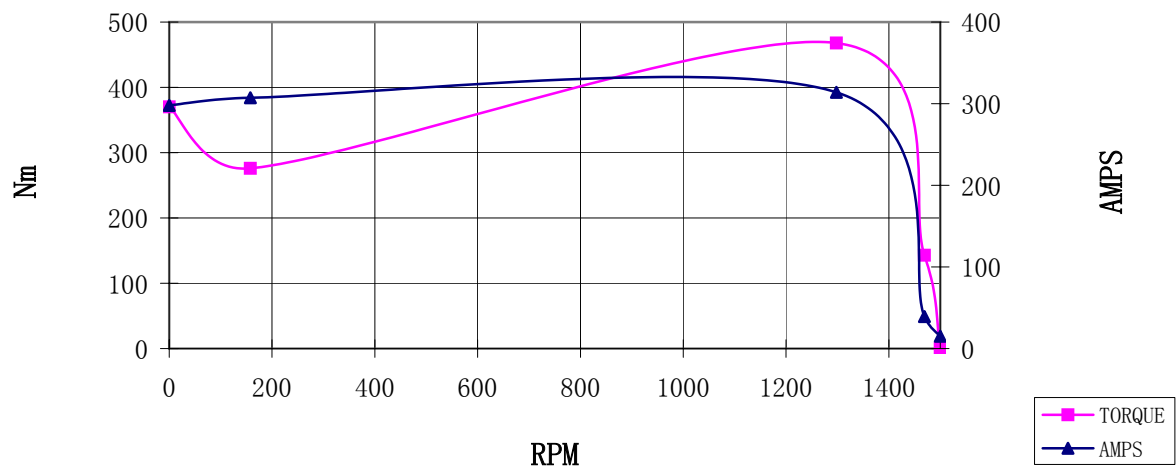
N/A EFF2

DELTA CONNECTION

LOAD



TORQUE & AMPS VS SLIP



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K180L-4

22 kW

400 VOLTS 50 Hz

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N/A

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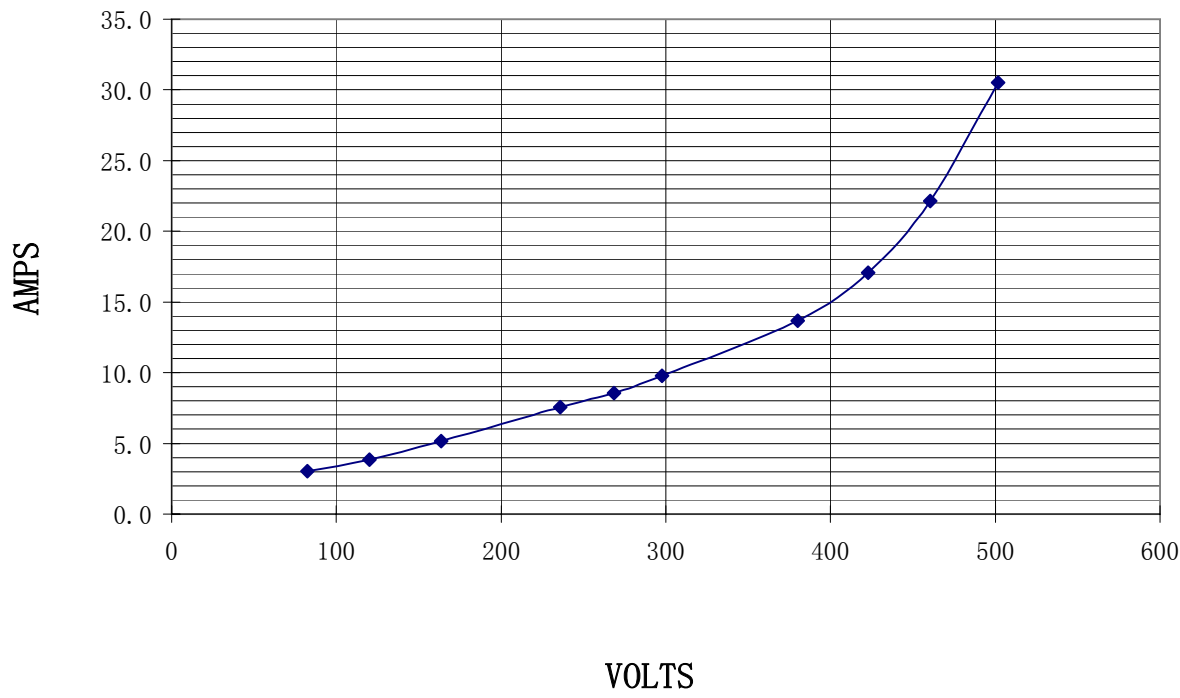
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VALIADIS S.A.

ELECTRIC MOTOR TEST REPORT - THREE PHASE INDUCTION MOTOR

NAMEPLATE DATA	IEC TYPE	22 KW	1469 RPM
K180L-4 FRAME	3 PHASE	400 VOLTS	50 HZ / CYCLES
91.4 EFFICIENCY	39.3 AMPS	55 IP	IC411 IC
4 POLE	S1 DUTY	0.885 PF	N/A EFF2
VALIADIS MANUFACTURER	SERIAL NO.	F INS.CLASS	DELTA CONNECTION

MAGNETIZATION CURVE – NO LOAD



VALIADIS S.A. K180L-4 22 kW 400 VOLTS 50 Hz	SCALE	N/A	
	DATE		REV
	DRAWN		DOCUMENT NO.
	APPRVD		
	CHECKED		