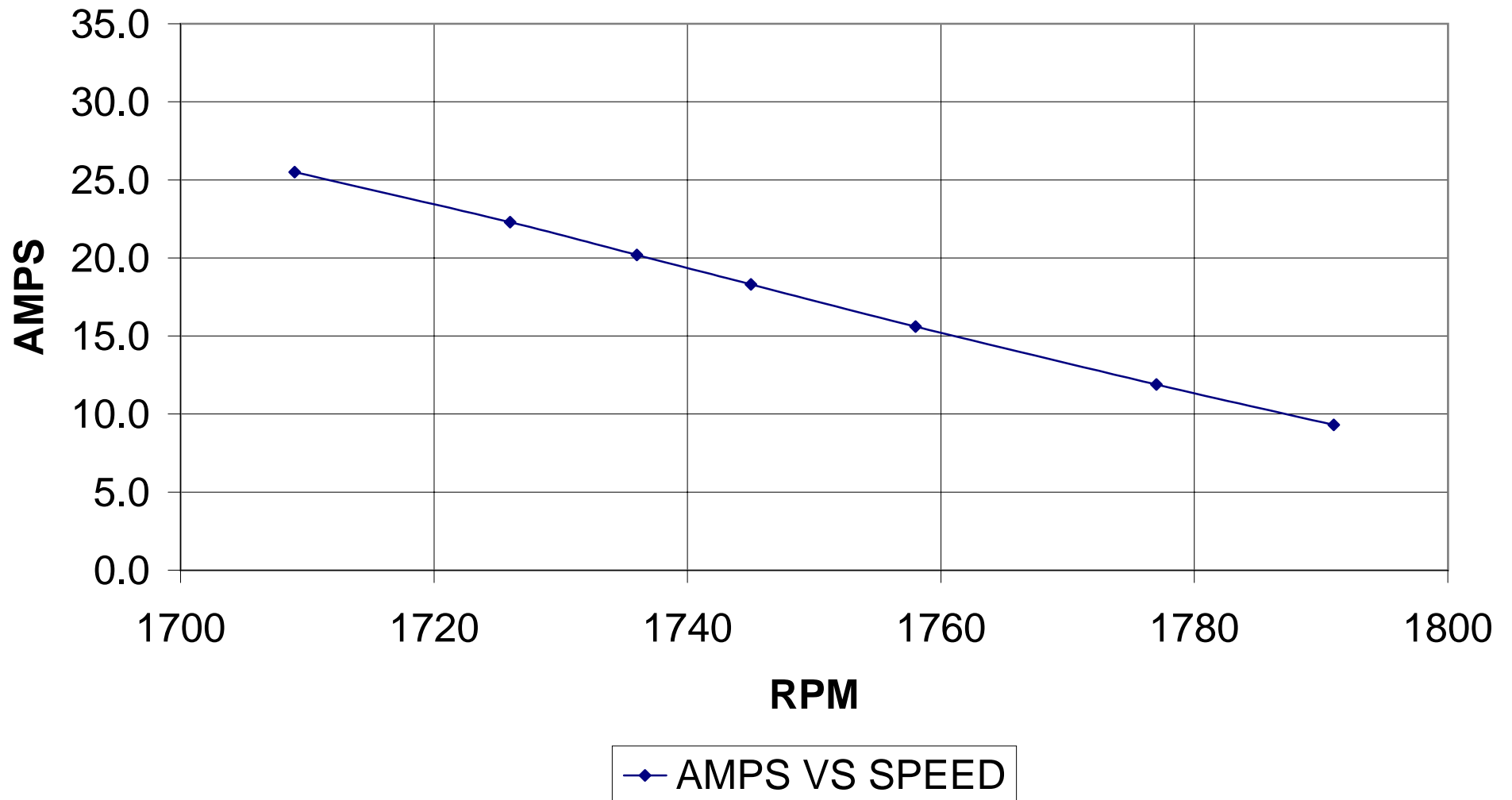
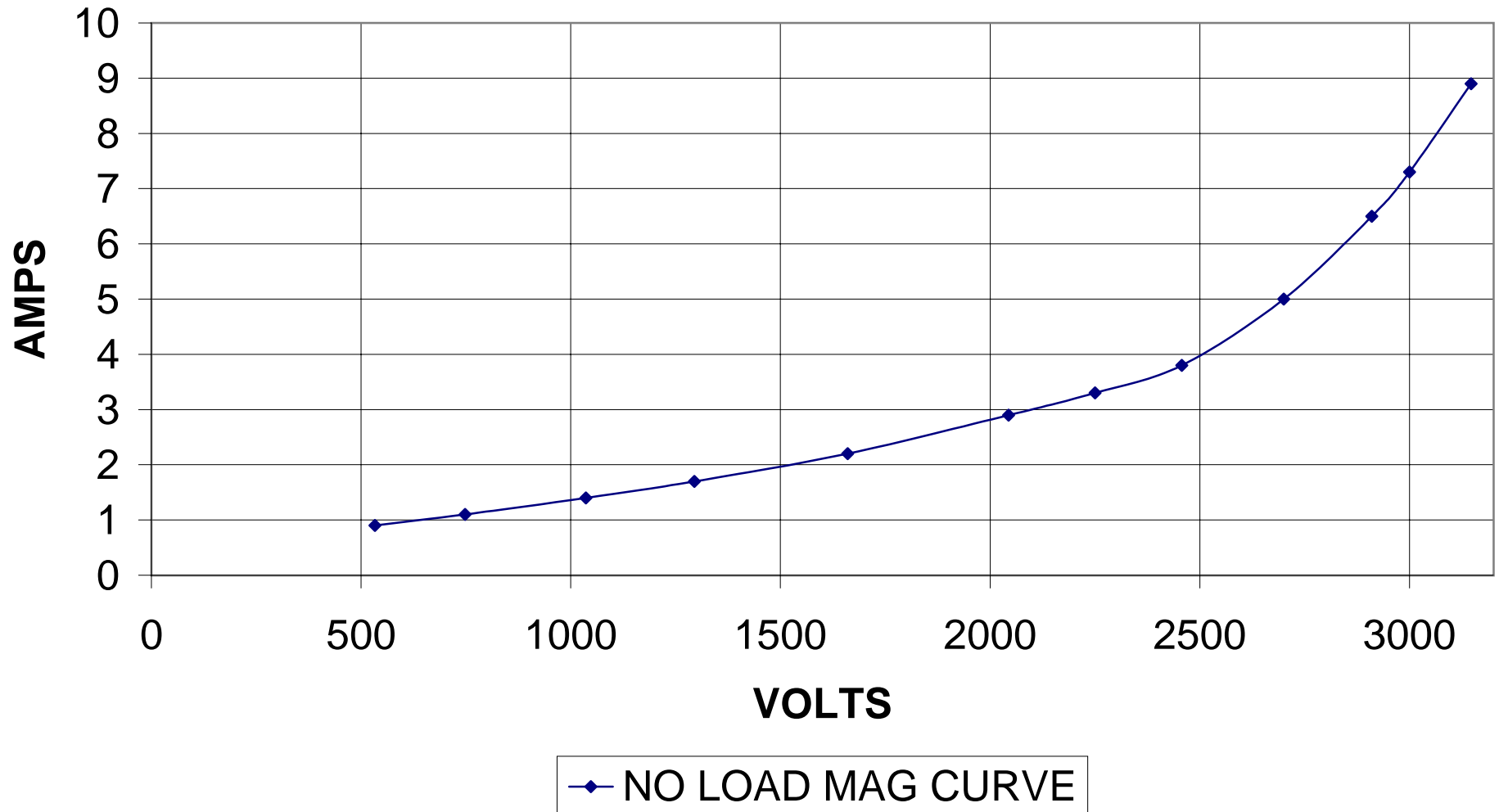


AMPS VS SPEED



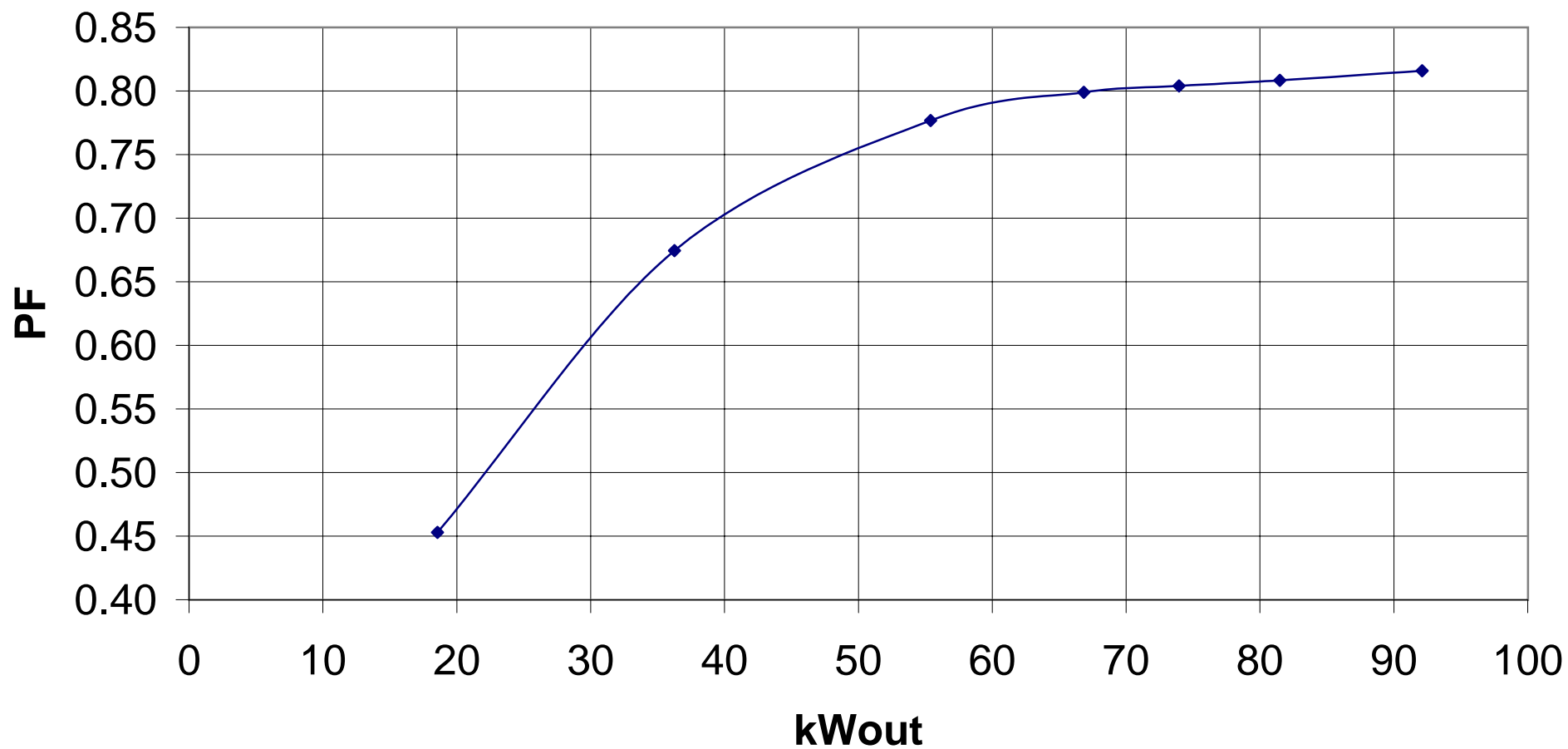
NO LOAD MAG CURVE 60HZ



NOT FULL OF OIL

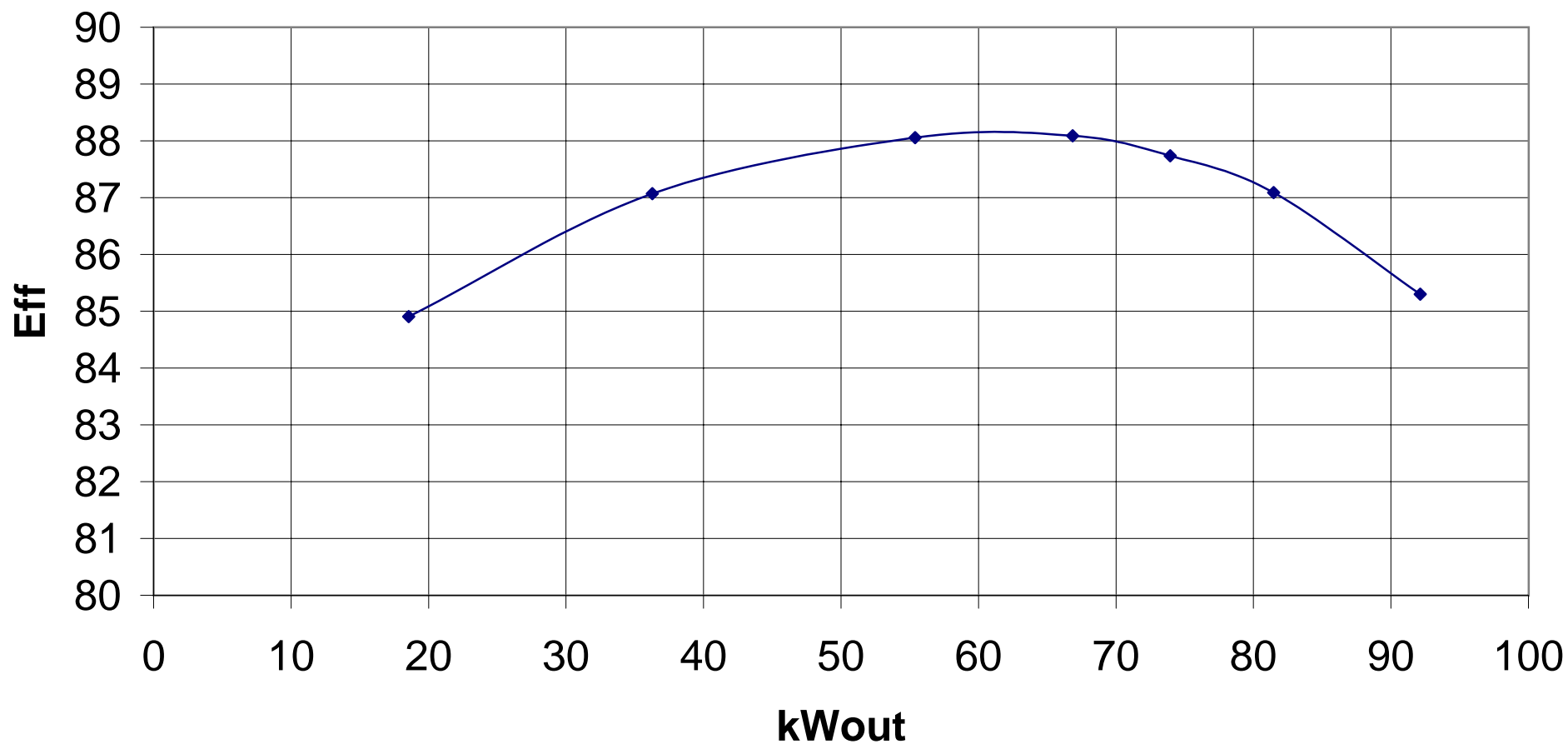
100HP 4P ROV14 3000V 60HZ 302DP243

kWout Vs PF



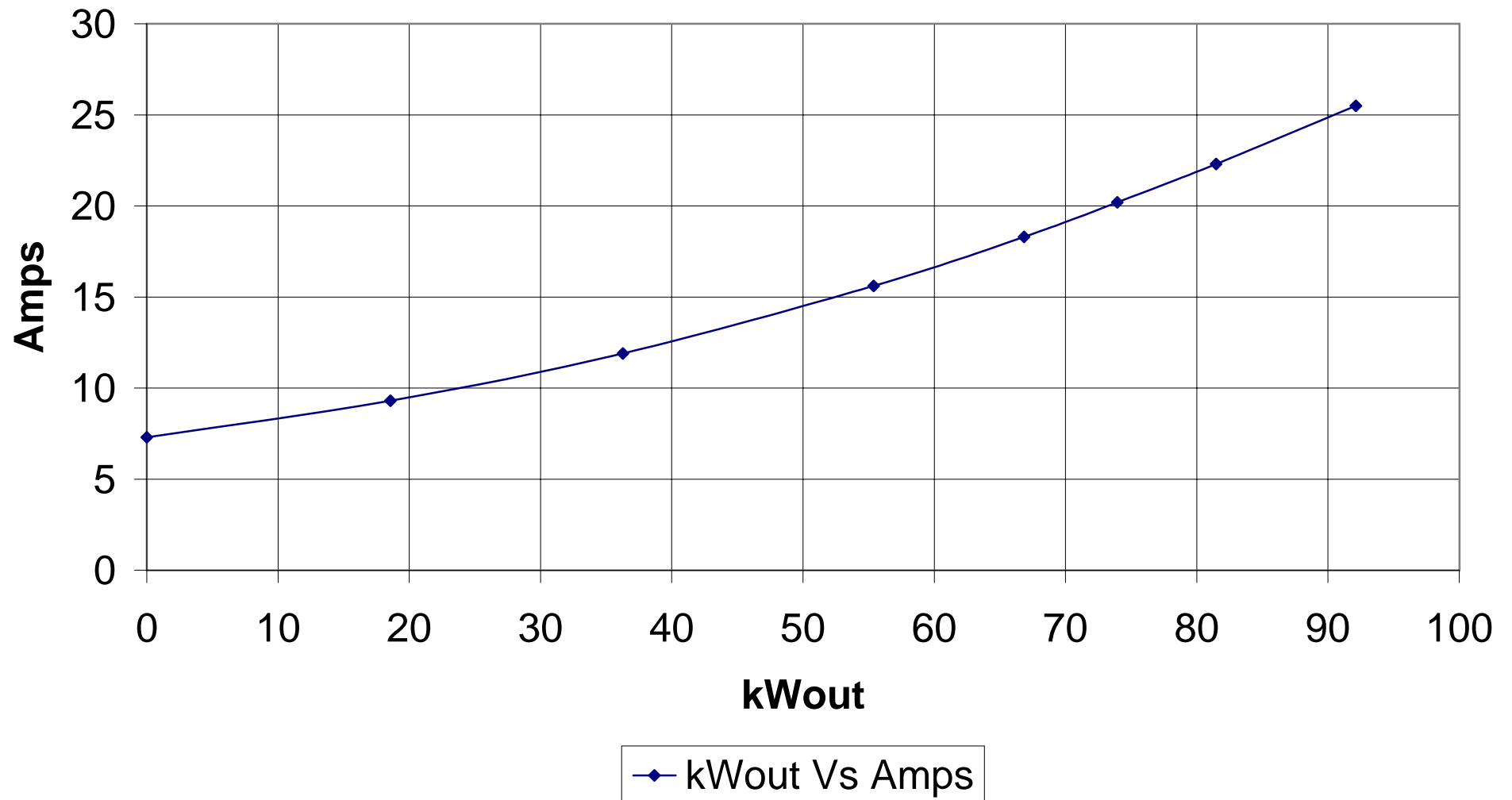
—◆ kWout Vs PF

kWout Vs Eff



—◆ kWout Vs Eff

kWout Vs Amps



SUBMERSIBLE MOTOR ENGINEERING PTY LTD

MOTOR PERFORMANCE DATA SUMMARY

NAMEPLATE DATA		OIL TYPE	75.0 KW	1735 RPM
ROV14 FRAME	3 PHASE	3000 VOLTS	60 HZ / CYCLES	
100 HP	20.4 AMPS	35DEG.C AMBIENT	N/A THRUST LOAD KG	
4 POLE	1.00 S.F.	0.80 PF	87.9 EFFICIENCY	
SME MANUFACTURER	302DP243 SERIAL NO.	F INS.CLASS	STAR CONNECTION	

TEST DATA	NO LOAD	APPROX	APPROX	APPROX	APPROX	APPROX	APPROX	APPROX
		25% LOAD	50% LOAD	75% LOAD	90% LOAD	100% LOAD	110% LOAD	125% LOAD
EFFICIENCY	0	84.9	87.1	88.1	88.1	87.7	87.1	85.3
PF	0.07	0.453	0.674	0.777	0.799	0.804	0.808	0.816
RPM	1800	1791	1777	1758	1745	1736	1726	1709
SLIP	0.00%	0.50%	1.28%	2.33%	3.06%	3.56%	4.11%	5.06%
AMPS	7.3	9.3	11.9	15.6	18.3	20.2	22.3	25.5
VOLTS	3000	3000	3000	3000	3000	3000	3000	3000
TORQUE NM	0	99	195	301	366	407	451	515
KW INPUT	2400	21.9	41.7	62.9	75.9	84.3	93.6	108.0
KW OUTPUT	0	18.6	36.3	55.4	66.8	74.0	81.5	92.1
HP OUTPUT	0	24.9	48.6	74.2	89.6	99.1	109.2	123.5

50Hz DATA 2500V, 19.9 AMPS, 1435 RPM, 410 NM, 0.81PF, 87% EFF, 61.5KW, 82.4HP
60Hz LOCKED ROTOR AMPS = 103 AMPS LOCKED ROTOR TORQUE = 635 Nm
NO LOAD LOSSES NOT FULL OF OIL IRON LOSSES = 1730 W FRICTION LOSSES = 377 W
NO LOAD LOSSES FULL OF OIL IRON LOSSES = 1730 W FRICTION LOSSES = 3484 W

TEMPERATURES
STATOR RESISTANCE COLD 4.1190 OHMS @ 25 DEG.C. BETWEEN STATOR LEADS
STATOR RESISTANCE HOT 4.958 OHMS @ 27 DEG.C. BETWEEN STATOR LEADS
WINDING TEMPERATURE 78.0 DEG.C. @ END OF LOAD TEST AT STEADY STATE
WINDING TEMPERATURE RISE 51.0 DEG.C.
PT100 TEMPERATURE @ NDE N/A DEG.C.
PT100 TEMPERATURE IN SLOT N/A DEG.C.
PT100 TEMPERATURE @ DE 63 DEG.C.
NOTE: MOTOR WAS TESTED WITH SOME OIL FOR LUBRICATION - WITH NO WATER COOLING.

OTHER
NOISE LEVEL N/A dB(A) @ 1 METRE
VIBRATION LEVEL 0.5 mm/sec ON NO LOAD
WEIGHT 184 Kg - WITH NO OIL

WINDING DATA
STACK LENGTH 240 mm
STATOR SLOTS 36
STATOR COILS 18
TURNS 54
CONNECTION STAR
WIRE SIZE 2 x 1.4 mm
PITCH 1-12/2-11/3-10
GROUPS 6 OF 3
A/mm2 6.56

NOTE
302DP243 AND 302DP244 HAVE THE SAME PERFORMANCE AND DATA

SUBMERSIBLE MOTOR ENG	SCALE	N/A	
	DATE	26/02/2003	REV
	100HP 75KW 4 POLE ROV14	DRAWN R.H.	DOCUMENT NO.
	3000 VOLTS 60HZ	APPRVD FMcG	
	CHECKED RWH	100414DU45T240	