

PRODUCT INFORMATION PACKET



Model No: BN51
Catalog No: BN51
Pool Pump Motor, 2-.25 HP, 1 Ph, 60 Hz, 230 V, 3600 RPM, X48Y Frame, DP



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Nameplate Specifications

Output HP	2-.25 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	230 V
Current	10.5/2.6 A	Speed	3450/1725 rpm
Service Factor	1	Phase	1
Duty	Continuous	Insulation Class	F
Frame	X48Y	Enclosure	Drip Proof
Thermal Protection	Thermally Protected	Ambient Temperature	40 °C
UL	Recognized	CSA	Y
Number of Speeds	2-2-VT		

Technical Specifications

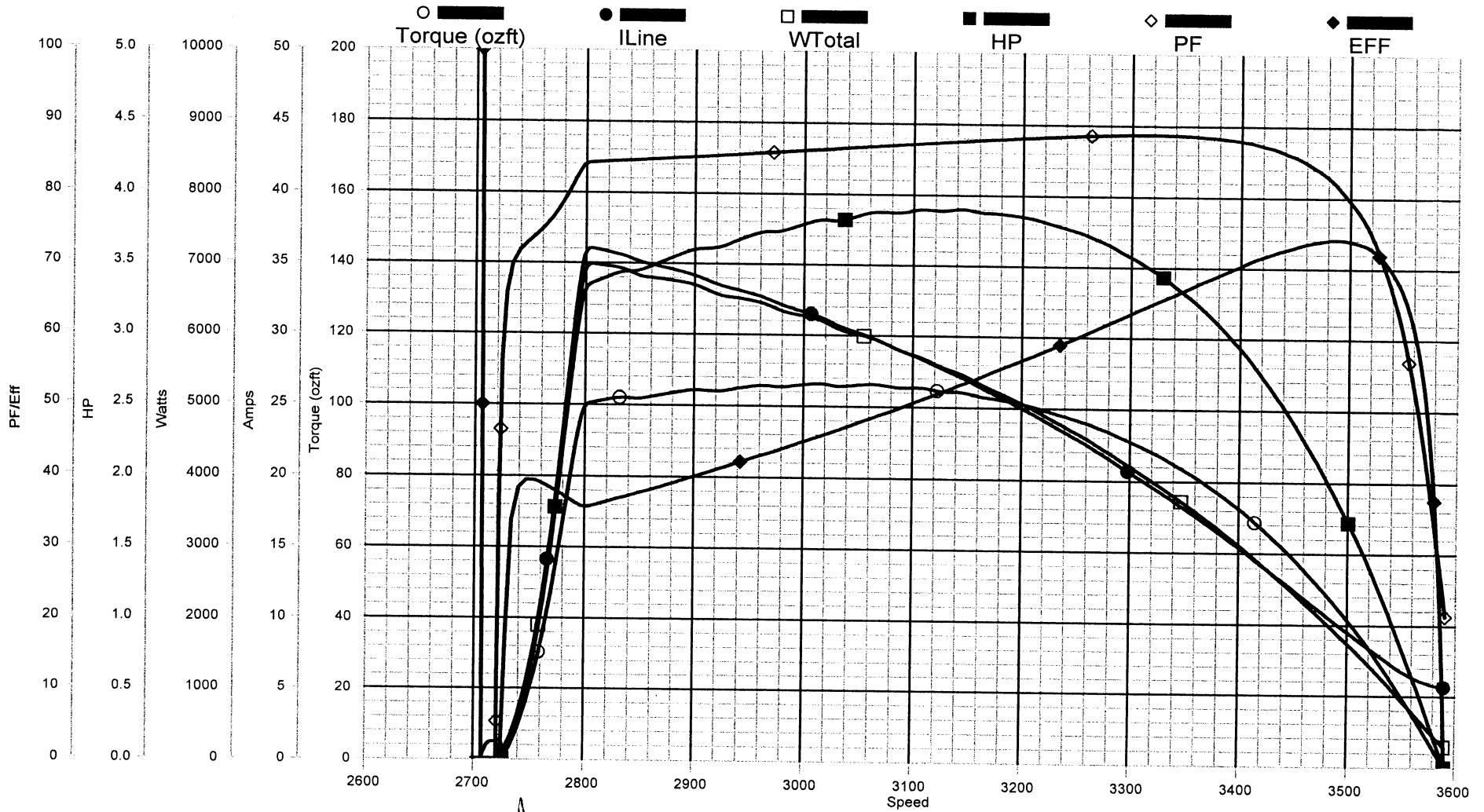
Electrical Type	Capacitor Start, Induction Run, Multi-Speed	Poles	2/4
Rotation	Counterclockwise Pump End	Mounting	Thru Bolt
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	3/8 Threaded	Overall Length	13.33 in
Frame Length	8.50 in	Shaft Diameter	0.500 in
Shaft Extension	2.36 in		
Outline Drawing	BN51-S01	Connection Drawing	17888724.PCX

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AO Smith

Performance Down Project: 0342492 (High Speed)

Wednesday, June 11, 2003 07:03 PM



TRACKING #: 10013481
 SBU: Pump
 ENGINEER: D FOX
 TECHNICIAN: TODD
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 3450
 # SPEEDS: 2
 MOTOR #: 1
 TYPE: CAP START

↑
 protector trip

CUSTOMER:
 MODEL: 0342492A
 FRAME: X48Y
 PHASES: 1
 HP: 2.00
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 53.00
 RUN CAP: 0.00
 COMMENT3:

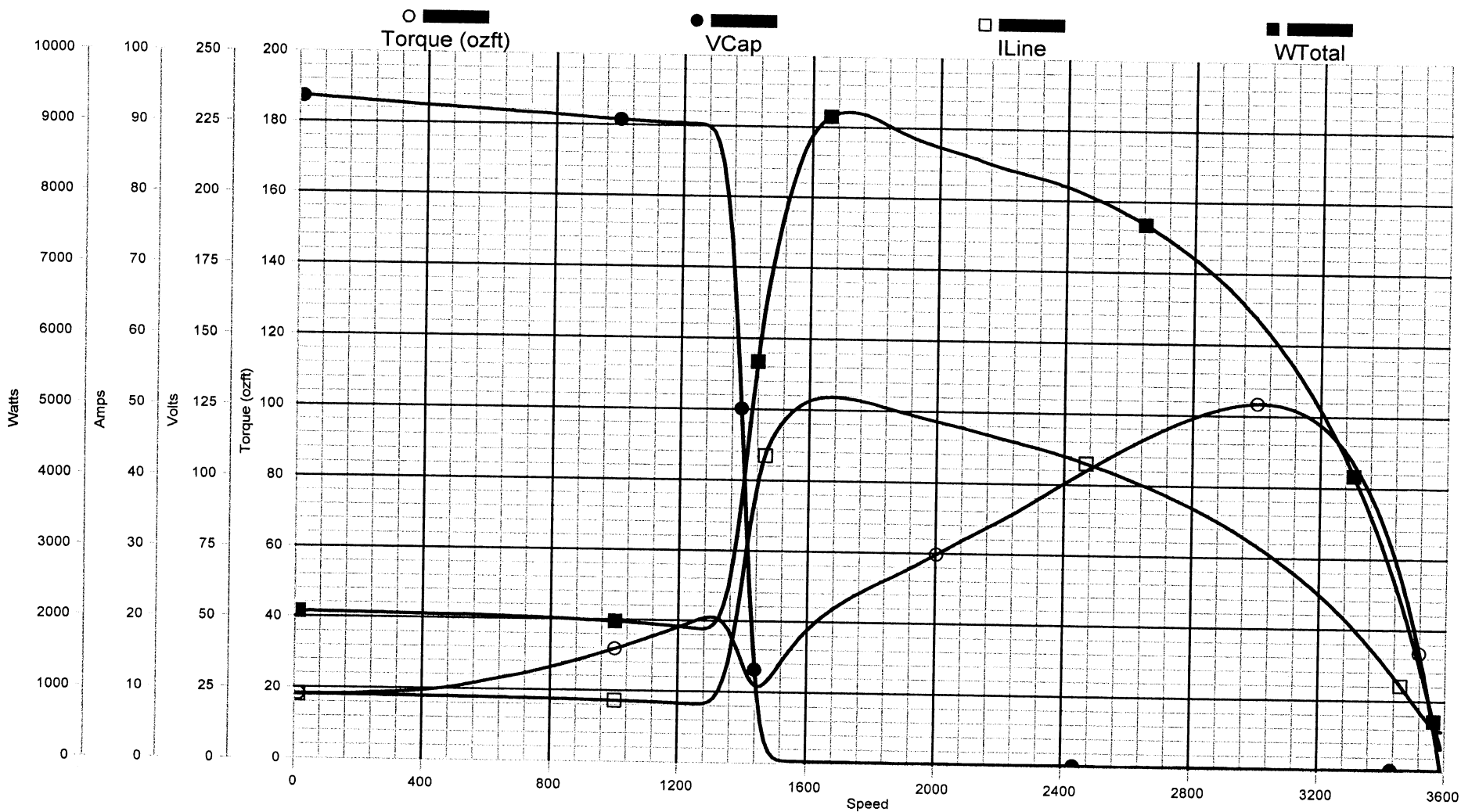
LOCK AMPS: 9.0 A
 LOCK TORQUE: 19.0 oz-ft
 BREAKDOWN TORQUE: 106.0 oz-ft

DESCRIPTION: OFFSET
 BDT: 106.23
 MT: 106.31
 SF: 0.00
 LRT: 0.00
 LRA: 0.00
 PUT: 0.00
 COMMENT1:
 COMMENT2:
 COMMENT4:

AO Smith

Performance Up Project: 0342492 (High Speed)

Wednesday, June 11, 2003 08:00 PM



TRACKING #: 10013482
 SBU: Pump
 ENGINEER: D FOX
 TECHNICIAN: TODD
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 3450
 # SPEEDS: 2
 MOTOR #: 2
 TYPE: CAP START

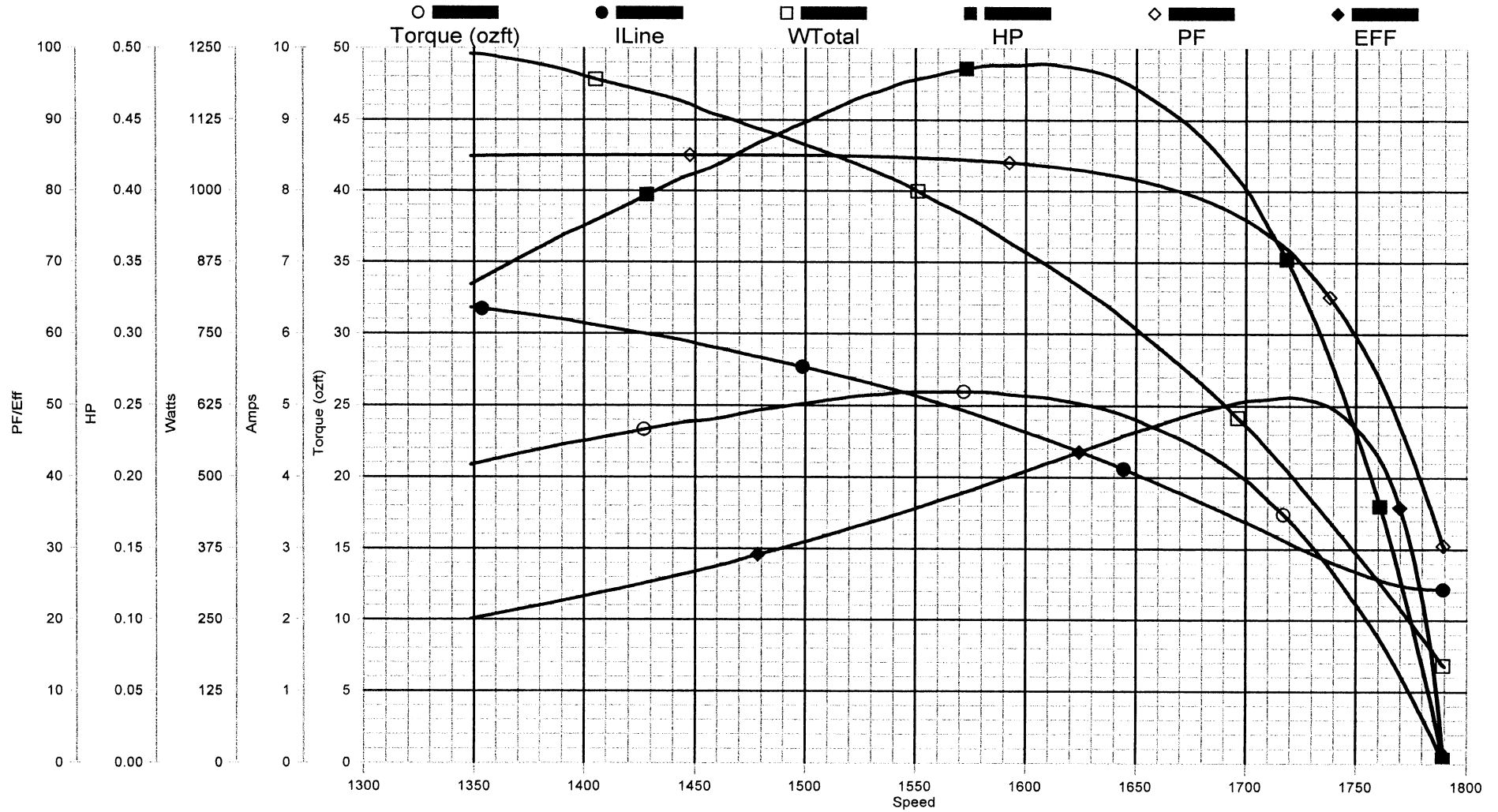
CUSTOMER:
 MODEL: 0342492A
 FRAME: X48Y
 PHASES: 1
 HP: 2.00
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 53.00
 RUN CAP: 0.00
 COMMENT3:

DESCRIPTION: 0-SYNC
 BDT: 103.40
 MT: 103.40
 SF: 0.00
 LRT: 18.13
 LRA: 9.02
 PUT: 18.13
 COMMENT1:
 COMMENT2:
 COMMENT4:

AO Smith

Performance Down Project: 0342492 (Low Speed)

Wednesday, June 11, 2003 07:34 PM



TRACKING #: 10013481
 SBU: Pump
 ENGINEER: D FOX
 TECHNICIAN: TODD
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 1725
 # SPEEDS: 2
 MOTOR #: 1
 TYPE: CAP START

CUSTOMER:
 MODEL: 0342492A
 FRAME: X48Y
 PHASES: 1
 HP: 0.25
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 53.00
 RUN CAP: 0.00
 COMMENT3:

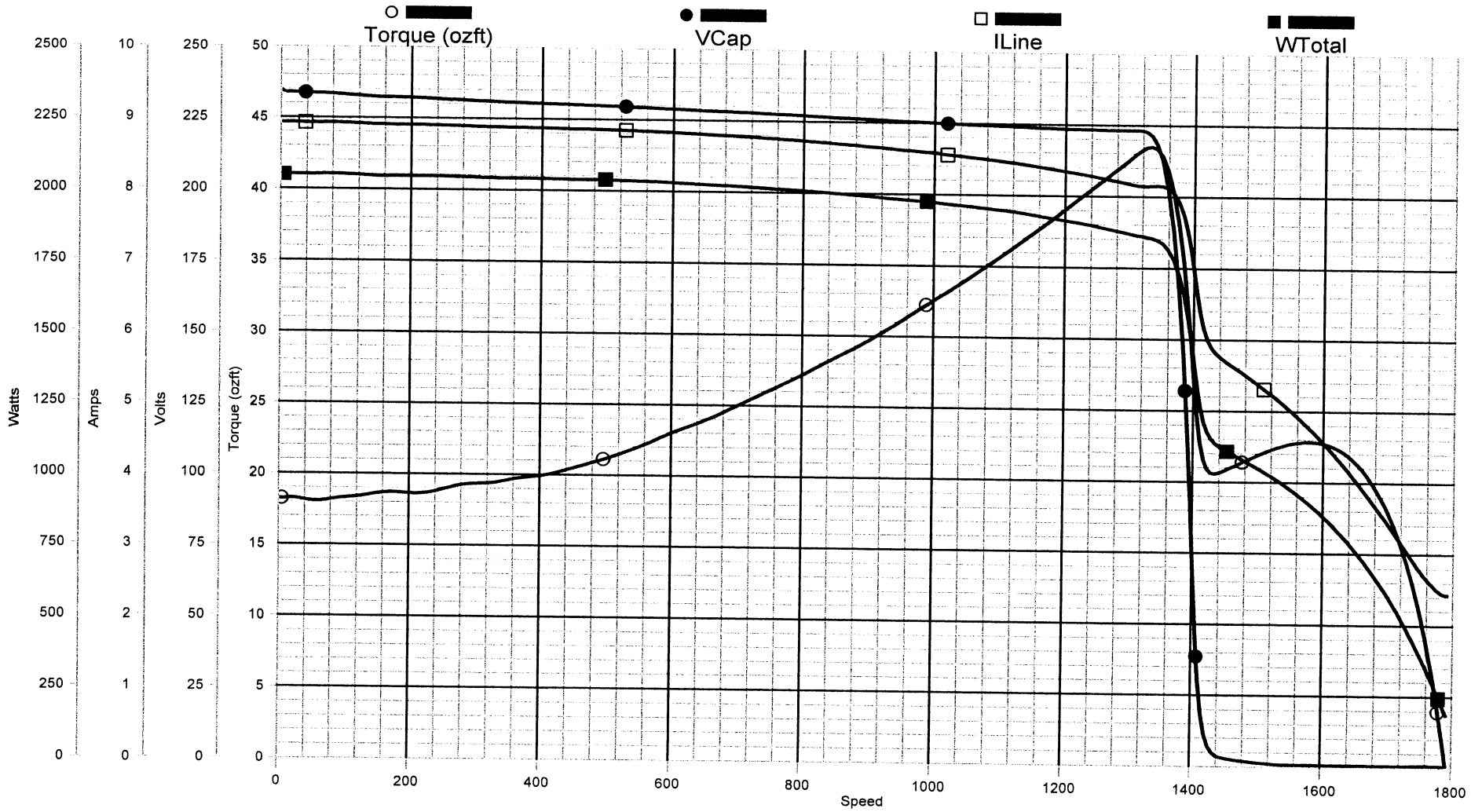
DESCRIPTION: OFFSET
 BDT: 25.96
 MT: 25.96
 SF: 0.00
 LRT: 0.00
 LRA: 0.00
 PUT: 0.00
 COMMENT1:
 COMMENT2:
 COMMENT4:

LOCK AMPS: 9.0A
 LOCK TORQUE: 19.0 oz-ft
 BREAKDOWN
 TORQUE: 25.9 oz-ft

AO Smith

Performance Up Project: 0342492 (Low Speed)

Wednesday, June 11, 2003 07:37 PM



TRACKING #: 10013481
 SBU: Pump
 ENGINEER: D FOX
 TECHNICIAN: TODD
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 1725
 # SPEEDS: 2
 MOTOR #: 1
 TYPE: CAP START

CUSTOMER:
 MODEL: 0342492A
 FRAME: X48Y
 PHASES: 1
 HP: 0.25
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 53.00
 RUN CAP: 0.00
 COMMENT3:

DESCRIPTION: 0-SYNC
 BDT: 22.83
 MT: 43.47
 SF: 0.00
 LRT: 18.23
 LRA: 8.93
 PUT: 18.06
 COMMENT1:
 COMMENT2:
 COMMENT4: