

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 3"5874
 Type: 5800-HSC
 Synch speed: 3600 rpm
 Curve: 740302B
 Specific Speeds:
 Dimensions:
 Speed: 3550 rpm
 Dia: 9 in
 Impeller: G3A1B
 Ns: 1233
 Nss: 10621
 Suction: 4 in
 Discharge: 3 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.44 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

Flow: --- US gpm
 Head: --- ft

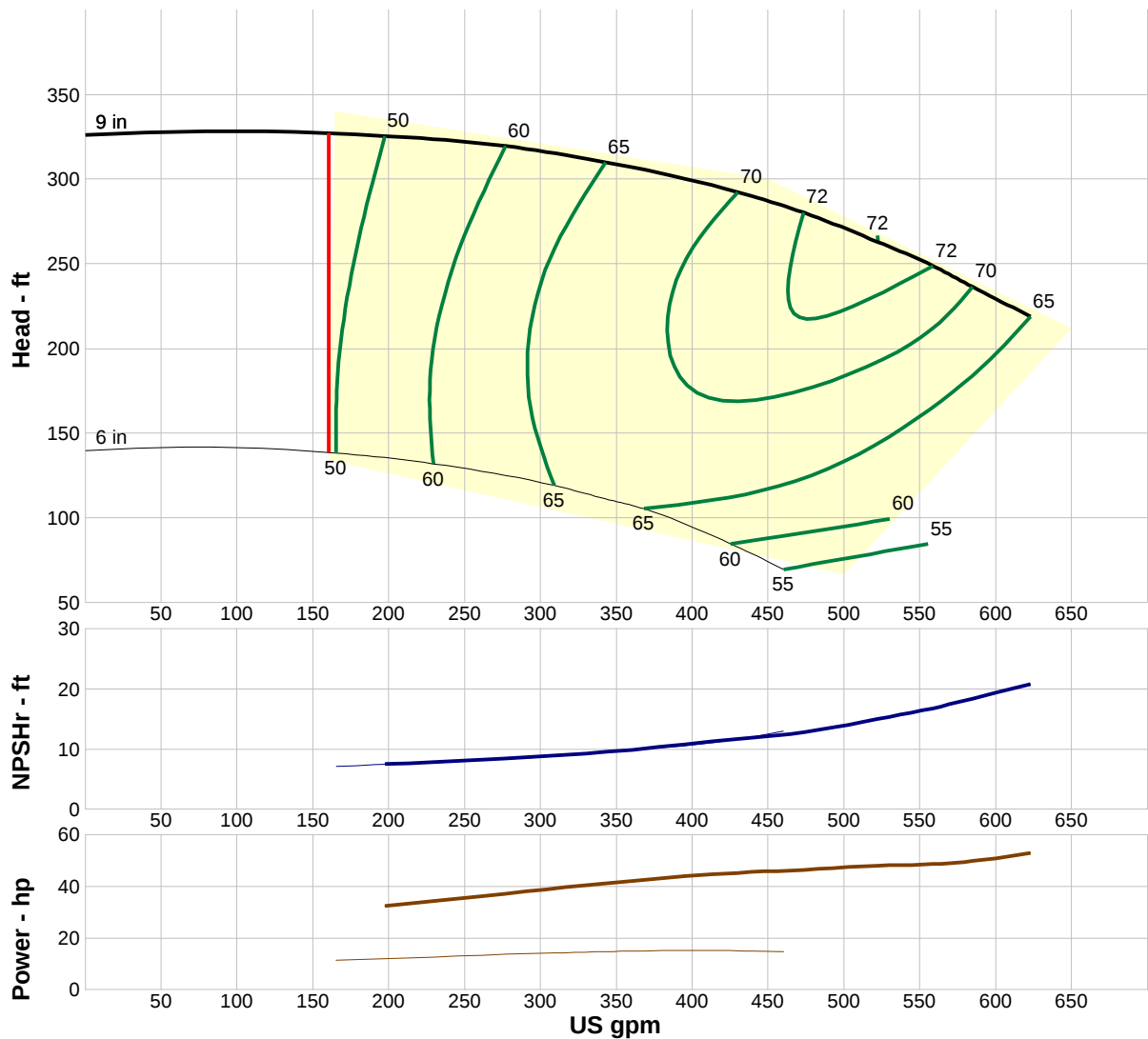
Fluid:

Water
 Density: 62.25 lb/ft³
 Viscosity: 1.105 cP
 NPSHa: --- ft
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 60 hp
 Speed: 3600
 Frame: 364TS

---- Data Point ----	
Flow:	522 US gpm
Head:	263 ft
Eff:	72%
Power:	48.1 hp
NPSHr:	15 ft
---- Design Curve ----	
Shutoff head:	326 ft
Shutoff dP:	141 psi
Min flow:	160 US gpm
BEP:	72% @ 522 US gpm
NOL power:	53 hp @ 623 US gpm
-- Max Curve --	
Max power:	53 hp @ 623 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
598	3550	230	68	51	19.3
498	3550	271	72	47.3	13.9
398	3550	299	68	43.8	10.9
299	3550	316	62	38.6	8.81
199	3550	325	50	32.5	7.52