

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 4"5823
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 230404C
 Specific Speeds:
 Dimensions:
 Speed: 1775 rpm
 Dia: 14.38 in
 Impeller: D4A1C
 Ns: 986
 Nss: 6431
 Suction: 5 in
 Discharge: 4 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

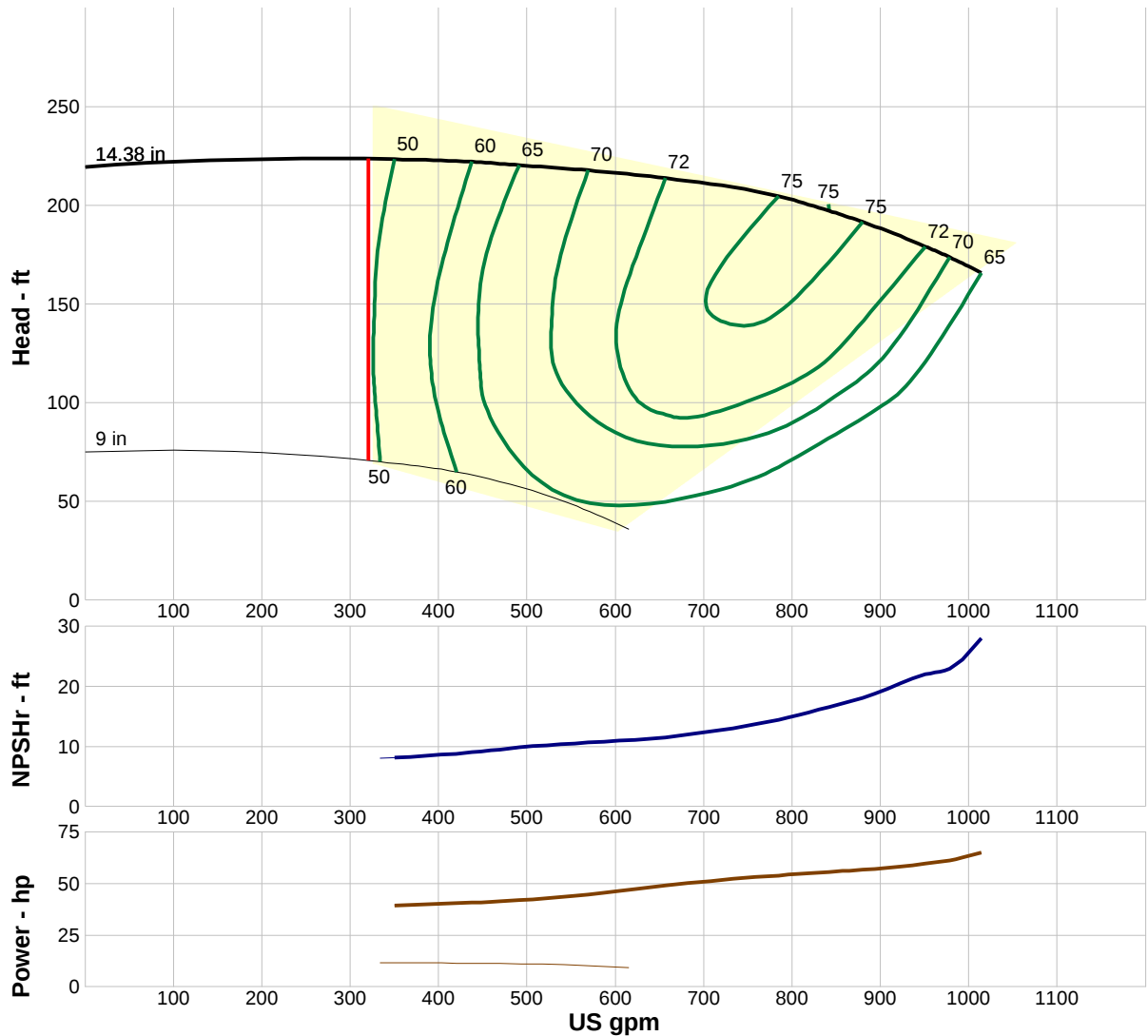
Fluid:

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: 75 hp
 Speed: 1800
 Frame: 365T

---- Data Point ----	
Flow:	841 US gpm
Head:	197 ft
Eff:	75%
Power:	55.8 hp
NPSHr:	16.5 ft
---- Design Curve ----	
Shutoff head:	220 ft
Shutoff dP:	94.9 psi
Min flow:	320 US gpm
BEP:	75% @ 841 US gpm
NOL power:	65.2 hp @ 1014 US gpm
-- Max Curve --	
Max power:	65.2 hp @ 1014 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
973	1775	175	70	61	22.8
811	1775	201	75	54.8	15.5
649	1775	214	72	48.8	11.5
487	1775	220	65	41.9	9.79
324	1775	223	47	39.1	7.93