

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 3"5874
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 740304B
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 9 in
Impeller: G3A1B
Ns: 1195
Nss: 10813
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

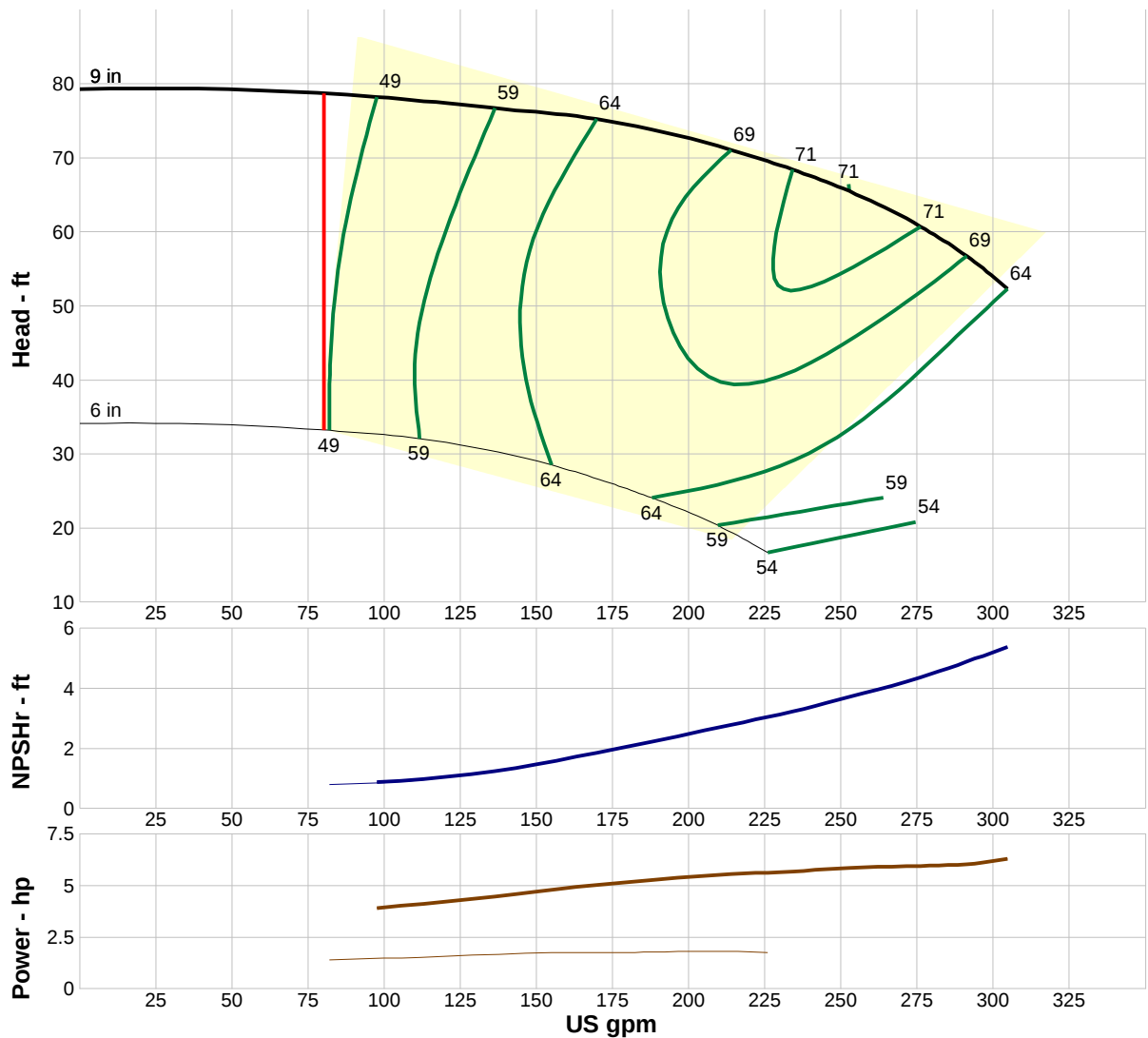
Fluid:

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: 7.5 hp
Speed: 1800
Frame: 213T

---- Data Point ----	
Flow:	253 US gpm
Head:	65.4 ft
Eff:	71%
Power:	5.88 hp
NPSHr:	3.72 ft
---- Design Curve ----	
Shutoff head:	79.3 ft
Shutoff dP:	34.3 psi
Min flow:	80 US gpm
BEP:	71% @ 253 US gpm
NOL power:	6.29 hp @ 305 US gpm
-- Max Curve --	
Max power:	6.29 hp @ 305 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
293	1750	56.1	68	6.08	4.96
244	1750	66.8	71	5.79	3.49
195	1750	72.8	67	5.34	2.39
146	1750	76.3	60	4.64	1.43
97.6	1750	78.2	49	3.93	0.892