

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2823A
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 230606A
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 13.88 in
Impeller: J6H1A1
Ns: 1917
Nss: 10271
Suction: 10 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 1 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

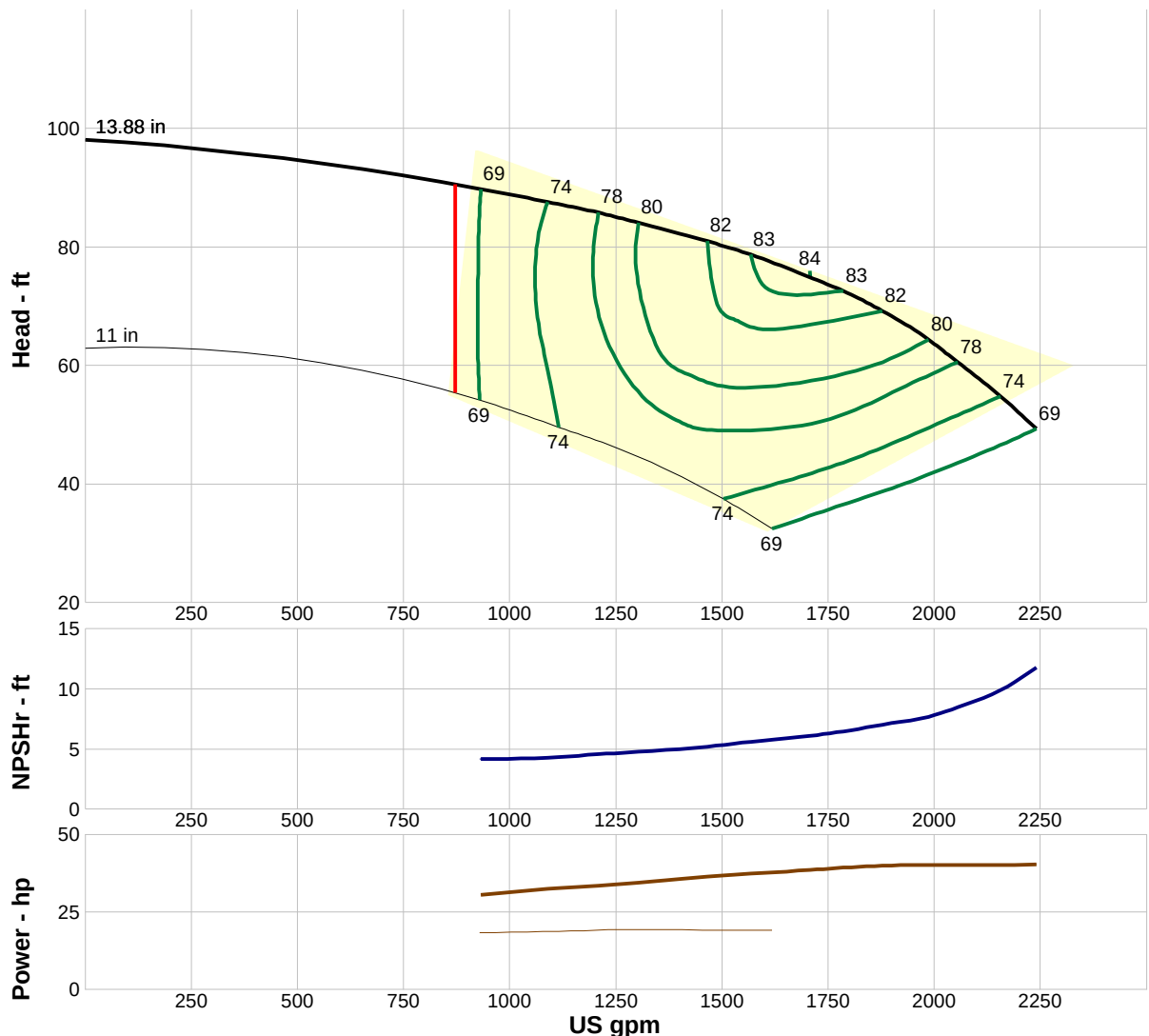
Fluid:

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: 50 hp
Speed: 1200
Frame: 365T

---- Data Point ----	
Flow:	1707 US gpm
Head:	74.8 ft
Eff:	84%
Power:	38.6 hp
NPSHr:	6.1 ft
---- Design Curve ----	
Shutoff head:	98.1 ft
Shutoff dP:	42.4 psi
Min flow:	870 US gpm
BEP:	84% @ 1707 US gpm
NOL power:	40.4 hp @ 2239 US gpm
-- Max Curve --	
Max power:	40.4 hp @ 2239 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2149	1185	55.2	74	40.3	9.82
1791	1185	72.3	83	39.4	6.51
1433	1185	81.6	82	36.1	5.12
1075	1185	87.8	74	32.4	4.27
716	1185	---	---	---	---