

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"2824A
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 241006A
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 17.38 in
Impeller: J10L1A1
Ns: 2702
Nss: 13033
Suction: 14 in
Discharge: 10 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 1.41 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

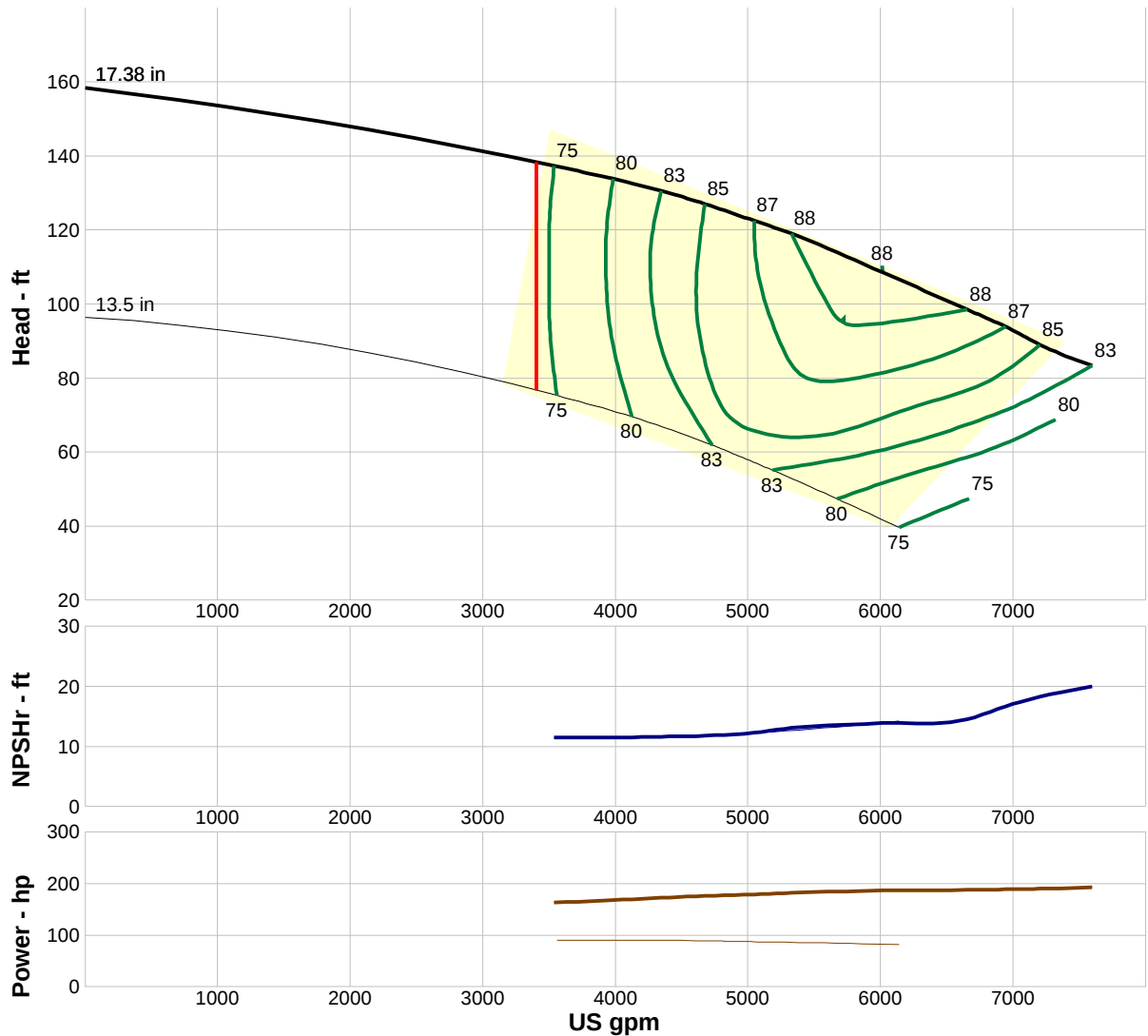
Fluid:

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: 200 hp
Speed: 1200
Frame: 447T

---- Data Point ----	
Flow:	6015 US gpm
Head:	109 ft
Eff:	88%
Power:	187 hp
NPSHr:	13.9 ft
---- Design Curve ----	
Shutoff head:	158 ft
Shutoff dP:	68.4 psi
Min flow:	3400 US gpm
BEP:	88% @ 6015 US gpm
NOL power:	193 hp @ 7593 US gpm
-- Max Curve --	
Max power:	193 hp @ 7593 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
7289	1185	87.7	85	191	18.6
6074	1185	108	88	187	14
4859	1185	125	86	178	12.1
3644	1185	136	76	165	11.5
2430	1185	---	---	---	---