

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 3"2823A
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 230306A
Specific Speeds:
Dimensions:
Speed: 1175 rpm
Dia: 13.46 in
Impeller: J3H1A1
Ns: 1013
Nss: 5760
Suction: 5 in
Discharge: 3 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 0.54 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

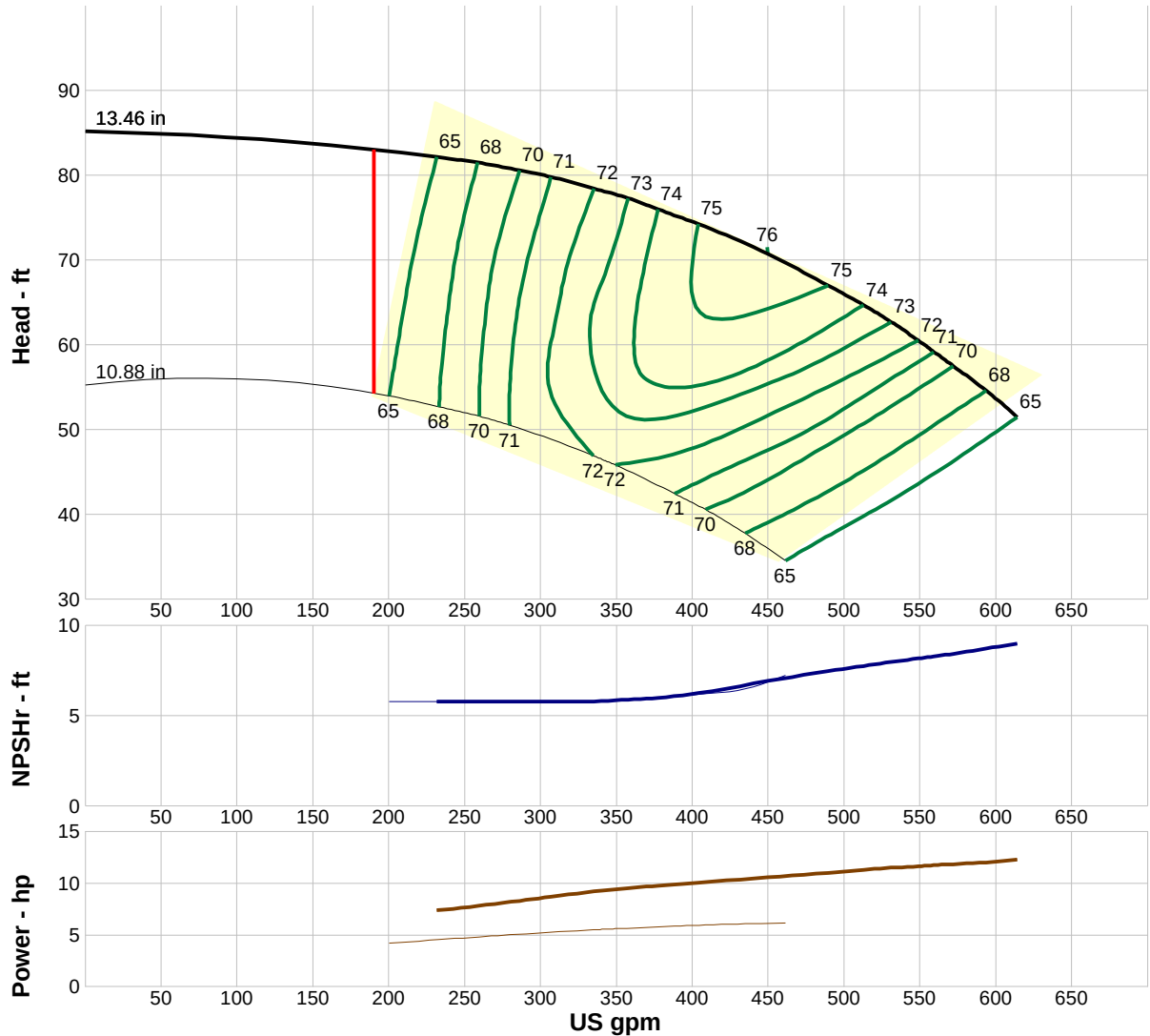
Fluid:

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: 15 hp
Speed: 1200
Frame: 284T

---- Data Point ----	
Flow:	450 US gpm
Head:	70.7 ft
Eff:	76%
Power:	10.6 hp
NPSHr:	6.94 ft
---- Design Curve ----	
Shutoff head:	85.2 ft
Shutoff dP:	36.8 psi
Min flow:	190 US gpm
BEP:	76% @ 450 US gpm
NOL power:	12.3 hp @ 614 US gpm
-- Max Curve --	
Max power:	12.3 hp @ 614 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
589	1175	55.2	68	12	8.67
491	1175	66.8	75	11.1	7.5
393	1175	75	75	9.97	6.15
295	1175	80.3	70	8.49	5.8
196	1175	82.6	61	6.81	5.8