

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 8"2823A
 Type: 2800-HSC
 Synch speed: 1200 rpm
 Curve: 230806A
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 13.88 in
 Impeller: J8H1A3
 Ns: 2660
 Nss: 9682
 Suction: 12 in
 Discharge: 8 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 1.12 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

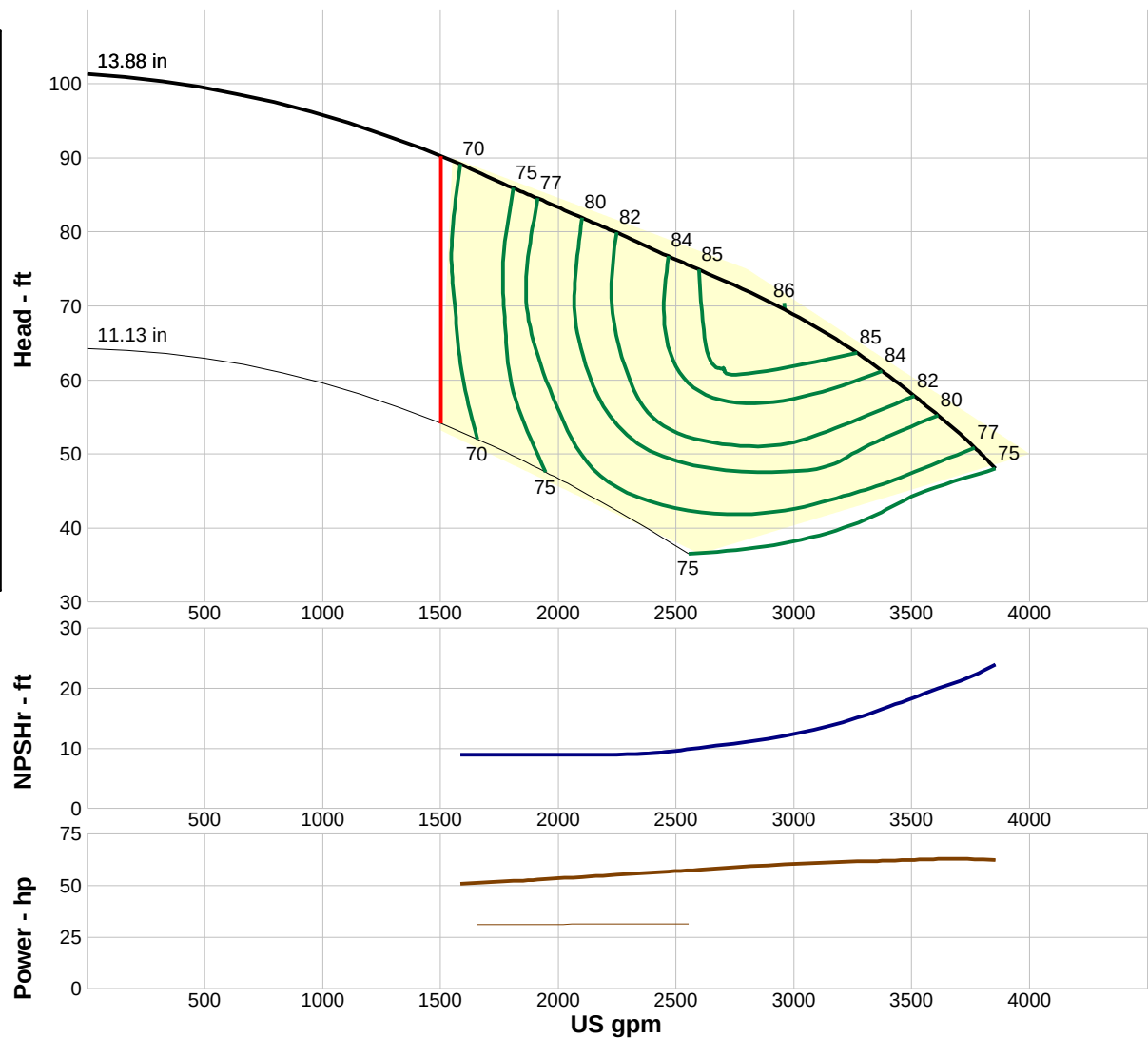
Fluid:

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: 1200
 Frame: 405T

---- Data Point ----	
Flow:	2960 US gpm
Head:	69.5 ft
Eff:	86%
Power:	60.4 hp
NPSHr:	12.1 ft
---- Design Curve ----	
Shutoff head:	101 ft
Shutoff dP:	43.8 psi
Min flow:	1500 US gpm
BEP:	86% @ 2960 US gpm
NOL power:	62.9 hp @ 3609 US gpm
-- Max Curve --	
Max power:	62.9 hp @ 3609 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3700	1185	52.7	78	62.9	21.3
3083	1185	67.1	86	60.9	13.3
2466	1185	76.7	84	56.9	9.47
1850	1185	85.3	76	52.6	9
1233	1185	---	---	---	---