

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 12"5821
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 211206B
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 14 in
 Impeller: D12C1B
 Ns: 3631
 Nss: 12142
 Suction: 14 in
 Discharge: 12 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 1.25 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

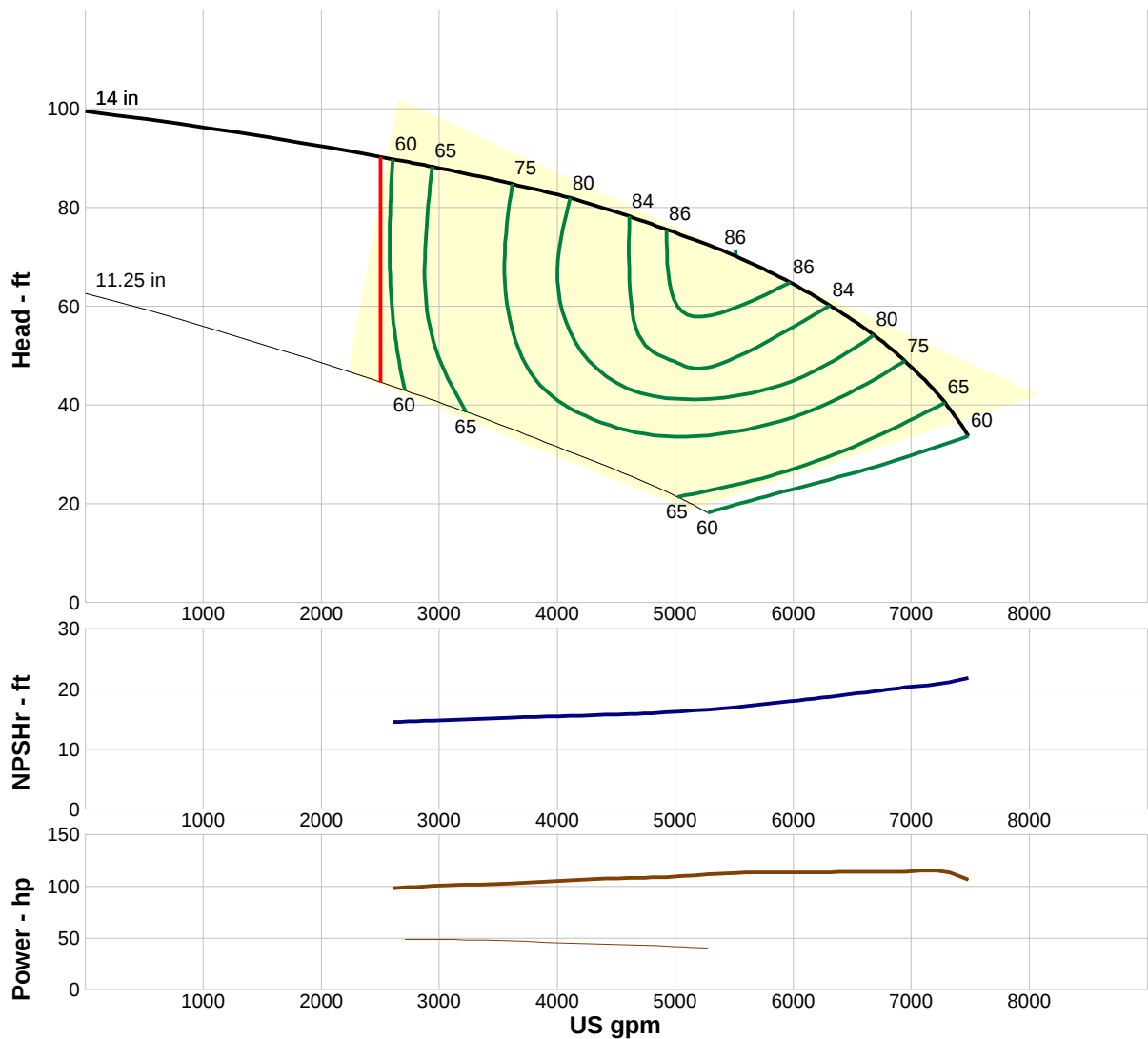
Fluid:

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: 125 hp
 Speed: 1200
 Frame: 445T

---- Data Point ----	
Flow:	5508 US gpm
Head:	70.1 ft
Eff:	86%
Power:	113 hp
NPSHr:	17 ft
---- Design Curve ----	
Shutoff head:	99.4 ft
Shutoff dP:	43 psi
Min flow:	2500 US gpm
BEP:	86% @ 5508 US gpm
NOL power:	115 hp @ 7280 US gpm
-- Max Curve --	
Max power:	115 hp @ 7280 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
7182	1185	42.9	68	114	20.8
5985	1185	64.6	86	114	18
4788	1185	76.6	85	109	16
3591	1185	84.9	75	103	15.2
2394	1185	---	---	---	---