

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 5"5824
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 240506F
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 18 in
 Impeller: D5D1F
 Ns: 1124
 Nss: 7141
 Suction: 6 in
 Discharge: 5 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.63 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

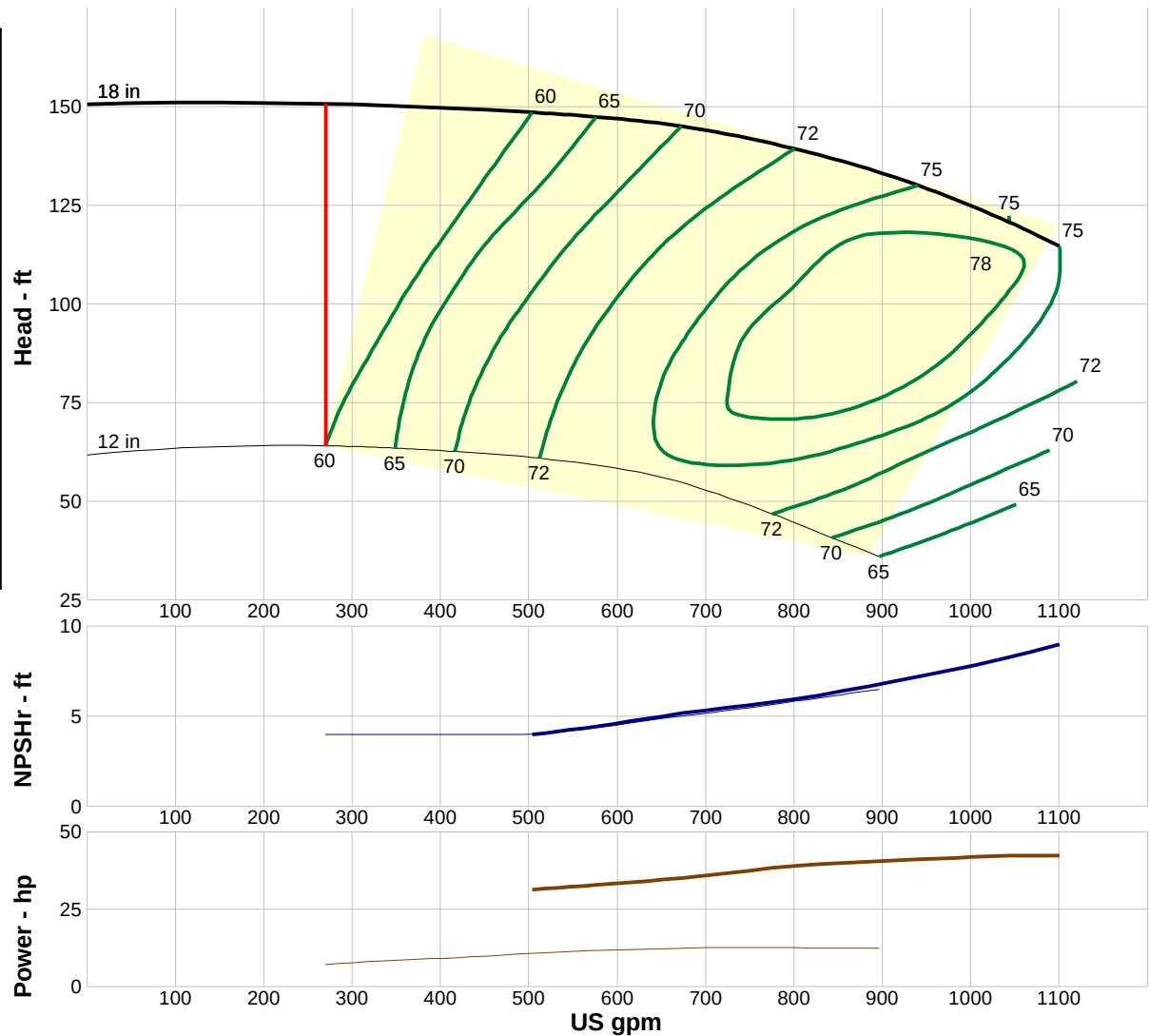
Fluid:

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:	1043 US gpm
Head:	121 ft
Eff:	75%
Power:	42.3 hp
NPSHr:	8.29 ft
---- Design Curve ----	
Shutoff head:	151 ft
Shutoff dP:	65.1 psi
Min flow:	270 US gpm
BEP:	75% @ 1043 US gpm
NOL power:	42.5 hp @ 1100 US gpm
-- Max Curve --	
Max power:	42.5 hp @ 1100 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1056	1185	119	75	42.4	8.45
880	1185	134	74	40.3	6.67
704	1185	144	71	36.1	5.37
528	1185	148	62	32	4.15
352	1185	149	50	28.3	3.06