

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 3"2874C
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 740304C
Specific Speeds:
Dimensions:
Speed: 1760 rpm
Dia: 9.22 in
Impeller: J3C1C1
Ns: 1594
Nss: 12294
Suction: 5 in
Discharge: 3 in

Pump Limits:

Temperature: 160 °F
Pressure: 275 psi g
Sphere size: 0.5 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

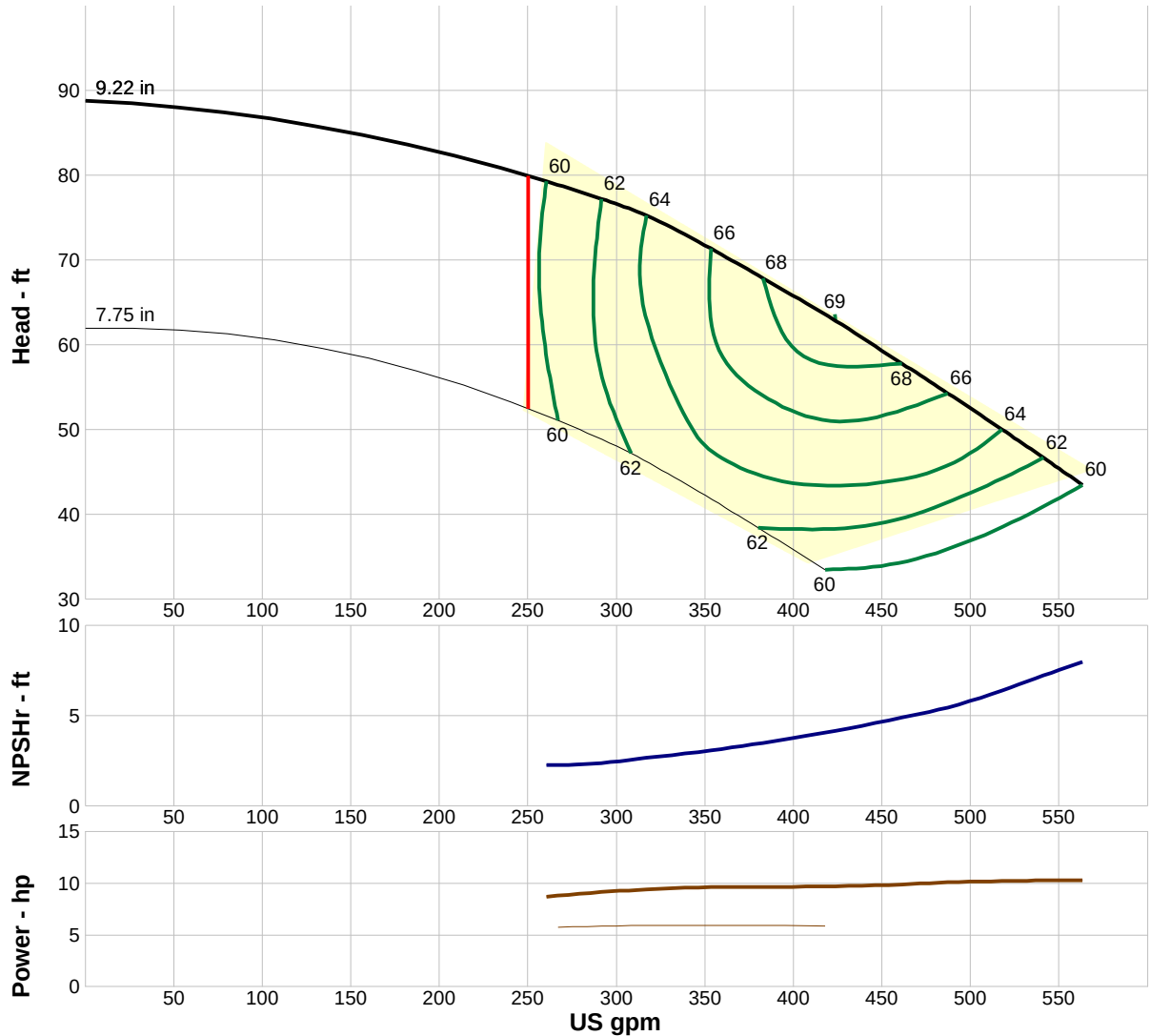
Fluid:

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: 1800
Frame: 254T

---- Data Point ----	
Flow:	423 US gpm
Head:	62.9 ft
Eff:	69%
Power:	9.74 hp
NPSHr:	4.16 ft
---- Design Curve ----	
Shutoff head:	88.8 ft
Shutoff dP:	38.4 psi
Min flow:	250 US gpm
BEP:	69% @ 423 US gpm
NOL power:	10.3 hp @ 563 US gpm
-- Max Curve --	
Max power:	10.3 hp @ 563 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
540	1760	46.8	62	10.3	7.19
450	1760	59.3	68	9.85	4.69
360	1760	70.6	66	9.64	3.19
270	1760	78.7	61	8.84	2.31
180	1760	---	---	---	---