

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 5"2874A
Type: 2800-HSC
Synch speed: 3600 rpm
Curve: 740502A
Specific Speeds:
Dimensions:
Speed: 3570 rpm
Dia: 9.05 in
Impeller: J5C1A1
Ns: 2853
Nss: 12982
Suction: 8 in
Discharge: 5 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 0.86 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

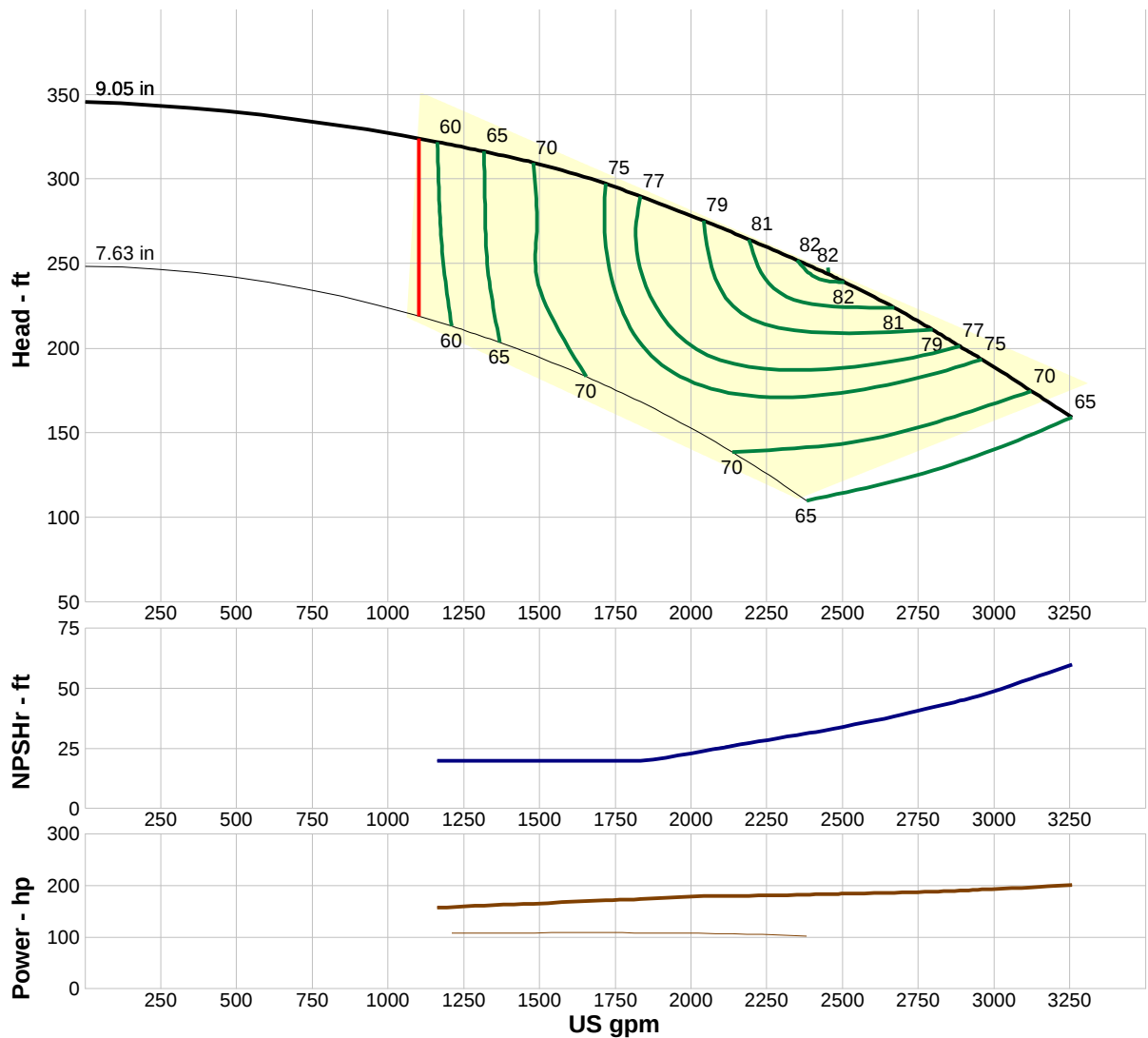
Fluid:

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: 250 hp
Speed: 3600
Frame: 449TS

---- Data Point ----	
Flow:	2452 US gpm
Head:	244 ft
Eff:	82%
Power:	184 hp
NPSHr:	32.8 ft
---- Design Curve ----	
Shutoff head:	346 ft
Shutoff dP:	149 psi
Min flow:	1100 US gpm
BEP:	82% @ 2452 US gpm
NOL power:	201 hp @ 3255 US gpm
-- Max Curve --	
Max power:	201 hp @ 3255 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3125	3570	174	70	197	54.3
2604	3570	230	81	186	36.7
2083	3570	272	80	180	24.9
1562	3570	305	72	167	20
1042	3570	---	---	---	---