

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"5821
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 210606A
Specific Speeds:
Dimensions:
Speed: 1170 rpm
Dia: 9.25 in
Impeller: D6C1A
Ns: 2809
Nss: 10497
Suction: 8 in
Discharge: 6 in

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

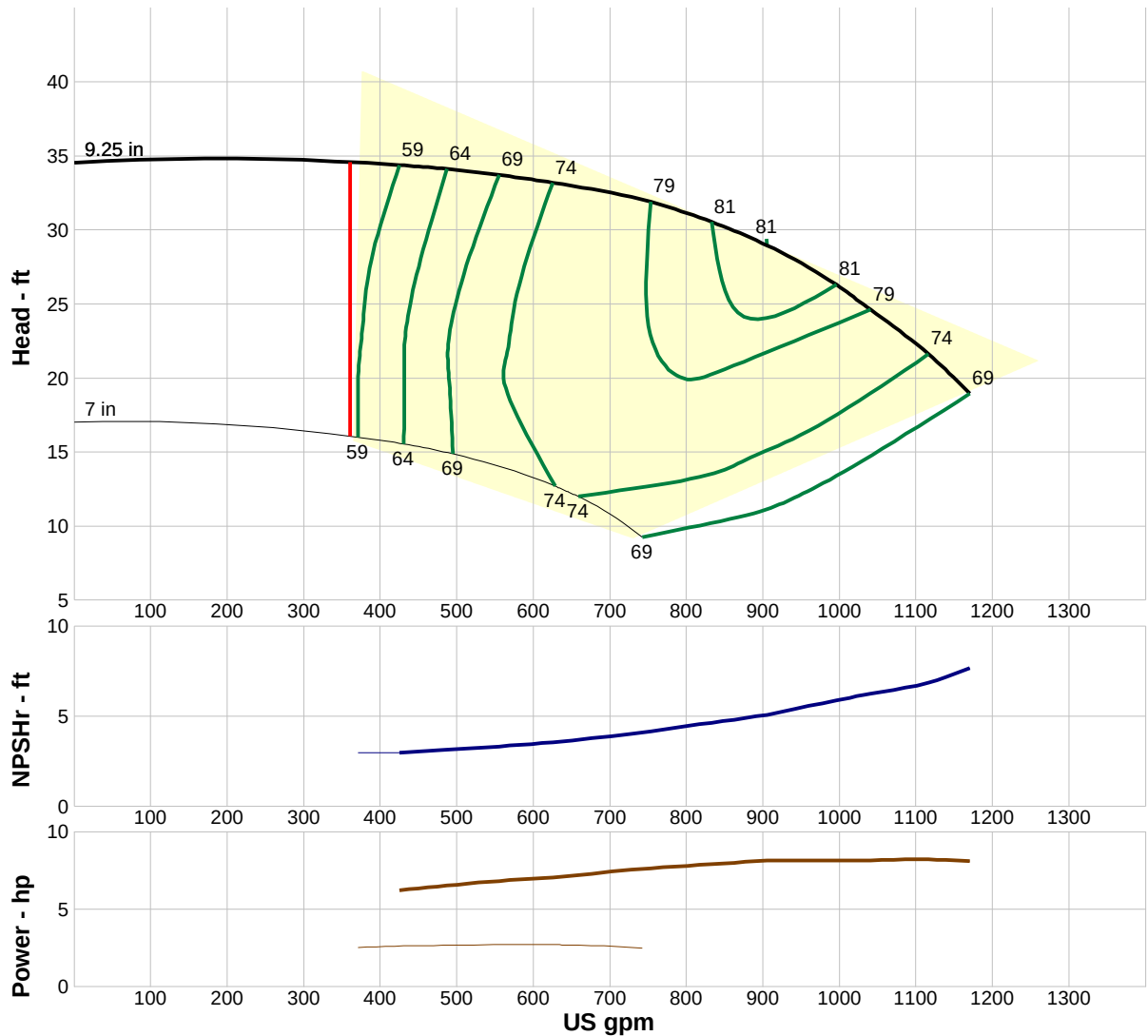
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 10 hp
Speed: 1200
Frame: 256T

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.75 in
Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	905 US gpm
Head:	29 ft
Eff:	81%
Power:	8.16 hp
NPSHr:	5.1 ft
---- Design Curve ----	
Shutoff head:	34.5 ft
Shutoff dP:	14.9 psi
Min flow:	360 US gpm
BEP:	81% @ 905 US gpm
NOL power:	8.23 hp @ 1116 US gpm
-- Max Curve --	
Max power:	8.23 hp @ 1116 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1123	1170	21.3	73	8.21	6.98
936	1170	28	81	8.16	5.37
749	1170	31.9	79	7.66	4.16
562	1170	33.7	70	6.87	3.36
374	1170	34.4	55	6	2.88