

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"5823
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 230606F
Specific Speeds:
Dimensions:
Speed: 1180 rpm
Dia: 14.75 in
Impeller: D6A1F
Ns: 1539
Nss: 10991
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

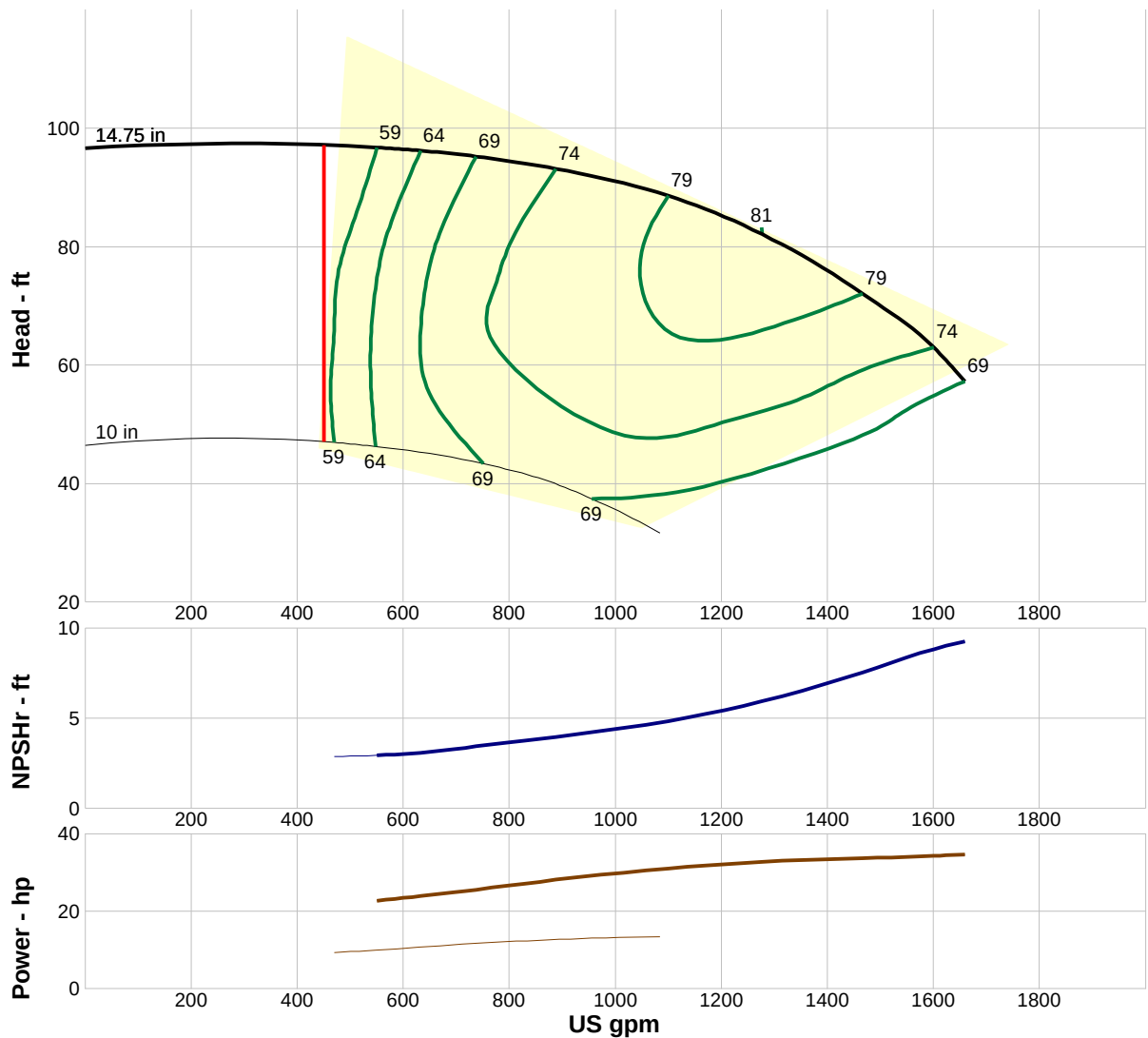
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 40 hp
Speed: 1200
Frame: 364T

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.88 in
Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	1276 US gpm
Head:	82.1 ft
Eff:	81%
Power:	32.9 hp
NPSHr:	5.95 ft
---- Design Curve ----	
Shutoff head:	96.6 ft
Shutoff dP:	41.8 psi
Min flow:	450 US gpm
BEP:	81% @ 1276 US gpm
NOL power:	34.8 hp @ 1658 US gpm
-- Max Curve --	
Max power:	34.8 hp @ 1658 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1591	1180	63.6	74	34.3	8.76
1326	1180	79.5	80	33.1	6.37
1061	1180	89.4	78	30.6	4.7
796	1180	94.4	71	26.7	3.66
530	1180	96.7	58	22.5	2.93