

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"5822
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 220606F
Specific Speeds:
Dimensions:
Speed: 1175 rpm
Dia: 12 in
Impeller: D6B1F
Ns: 1662
Nss: 9692
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

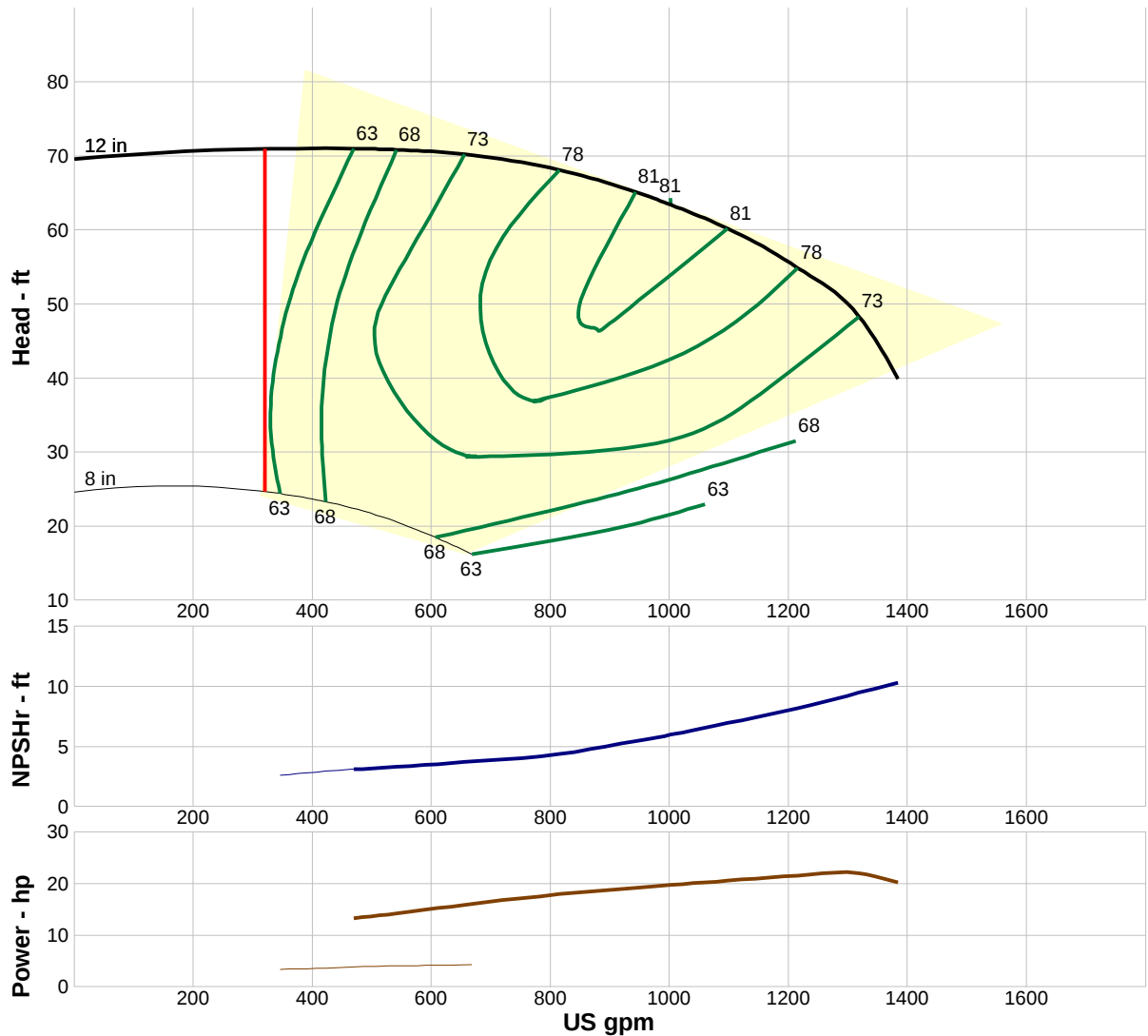
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 25 hp
Speed: 1200
Frame: 324T

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.81 in
Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	1002 US gpm
Head:	63.4 ft
Eff:	81%
Power:	19.8 hp
NPSHr:	5.98 ft
---- Design Curve ----	
Shutoff head:	69.6 ft
Shutoff dP:	30.1 psi
Min flow:	320 US gpm
BEP:	81% @ 1002 US gpm
NOL power:	22 hp @ 1318 US gpm
-- Max Curve --	
Max power:	22 hp @ 1318 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1327	1175	47.1	72	21.8	9.59
1106	1175	59.8	81	20.7	7.04
885	1175	66.5	80	18.6	4.97
664	1175	70.1	73	16	3.75
442	1175	70.9	61	13	3.01