

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 5"5823
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 230506G
Specific Speeds:
Dimensions:
Speed: 1175 rpm
Dia: 34.75 in
Impeller: D5A1G
Ns: 1157
Nss: 6987
Suction: 6 in
Discharge: 5 in

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.56 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

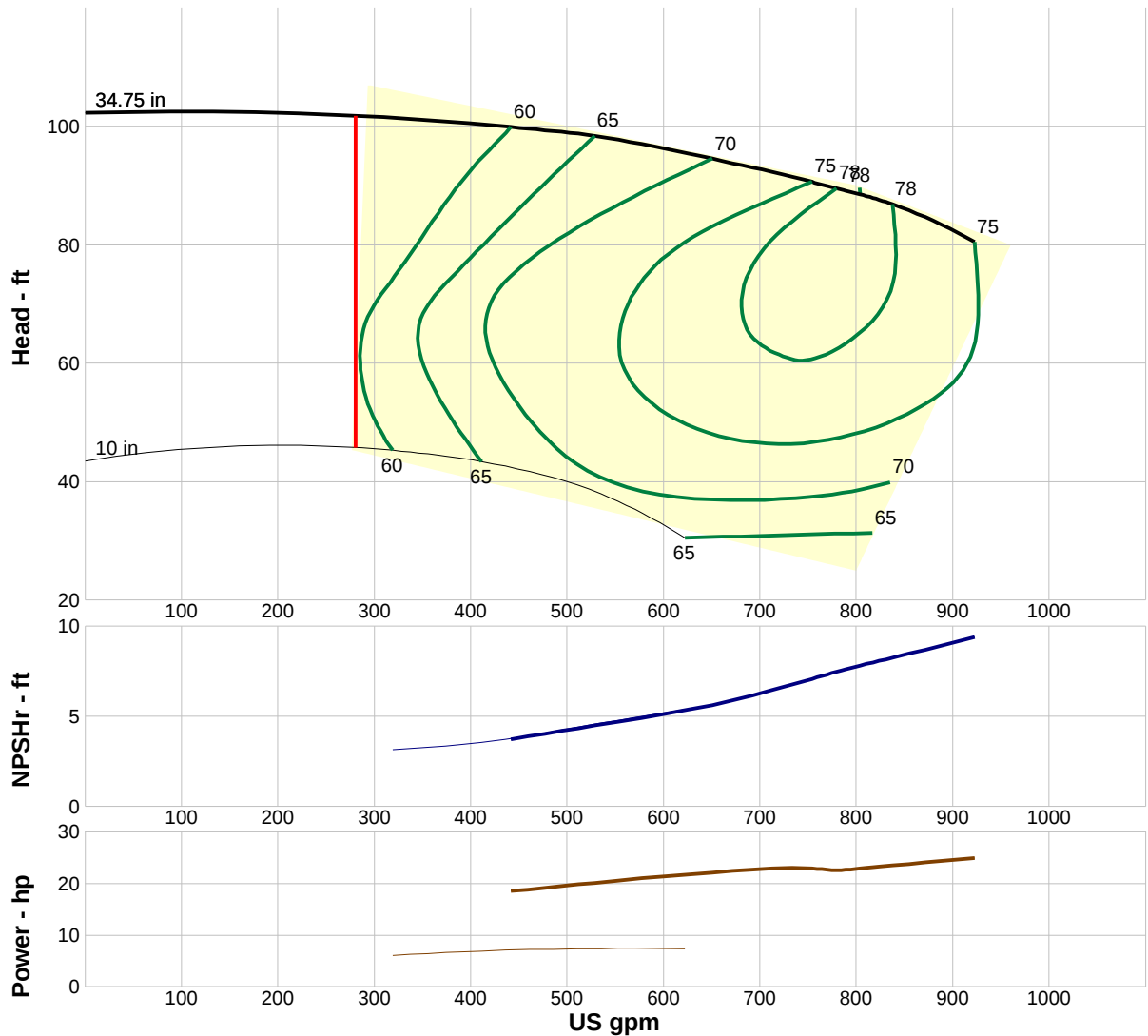
Fluid:

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: 25 hp
Speed: 1200
Frame: 324T

---- Data Point ----	
Flow:	803 US gpm
Head:	88.6 ft
Eff:	78%
Power:	23 hp
NPSHr:	7.81 ft
---- Design Curve ----	
Shutoff head:	102 ft
Shutoff dP:	44.2 psi
Min flow:	280 US gpm
BEP:	78% @ 803 US gpm
NOL power:	25 hp @ 922 US gpm
-- Max Curve --	
Max power:	25 hp @ 922 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
886	1175	83.2	76	24.4	8.92
738	1175	91.2	74	22.9	6.87
590	1175	96.4	68	21.2	5.08
443	1175	99.8	60	18.6	3.75
295	1175	101	52	15.8	2.44