

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 5"2824A
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 240506A
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 17.75 in
Impeller: J5L1A1
Ns: 995
Nss: 8522
Suction: 8 in
Discharge: 5 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 0.63 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

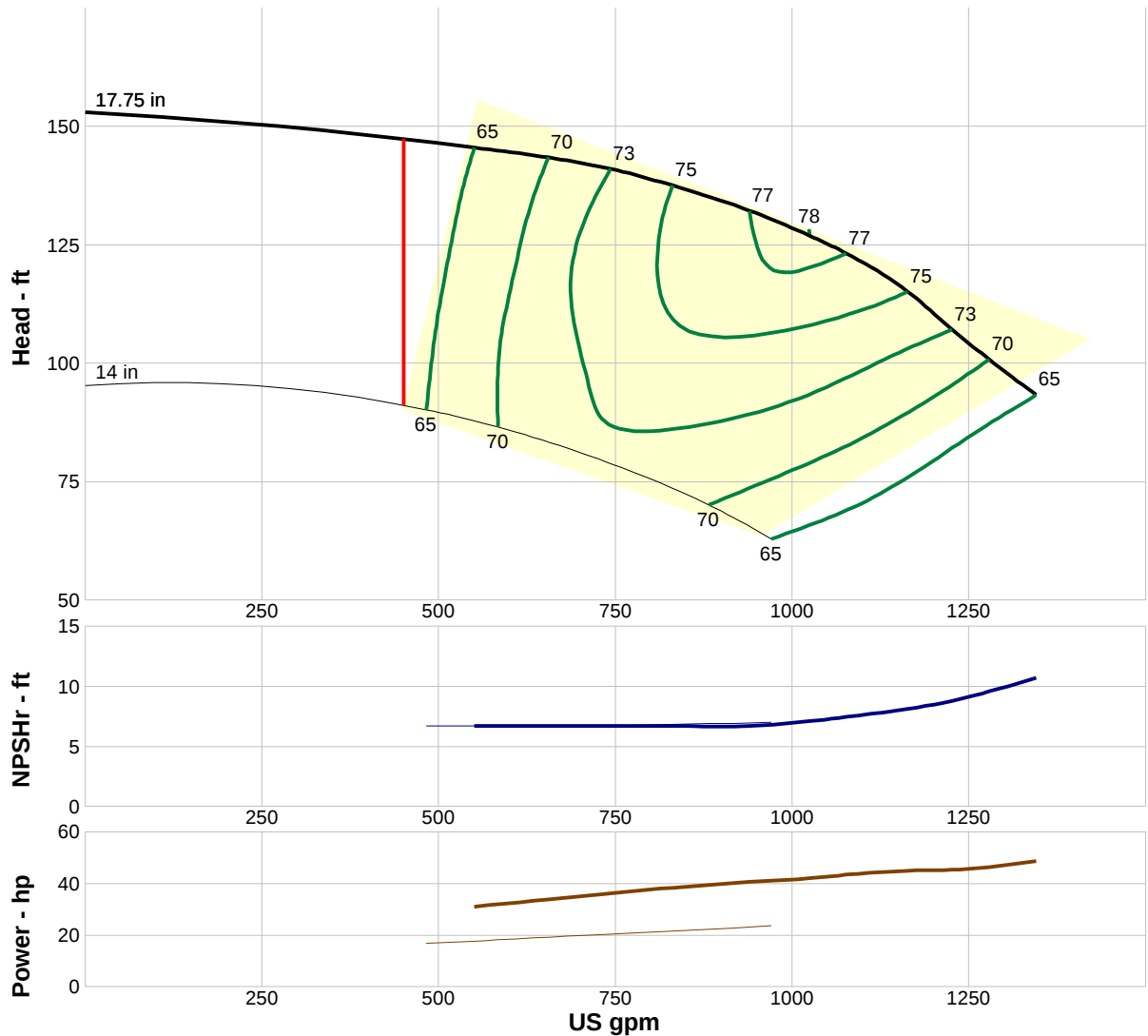
Fluid:

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: 50 hp
Speed: 1200
Frame: 365T

---- Data Point ----	
Flow:	1024 US gpm
Head:	127 ft
Eff:	78%
Power:	42.1 hp
NPSHr:	7.1 ft
---- Design Curve ----	
Shutoff head:	153 ft
Shutoff dP:	66.1 psi
Min flow:	450 US gpm
BEP:	78% @ 1024 US gpm
NOL power:	48.8 hp @ 1345 US gpm
-- Max Curve --	
Max power:	48.8 hp @ 1345 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1291	1185	99.3	69	46.9	9.81
1076	1185	123	77	43.5	7.46
861	1185	136	76	39.1	6.7
646	1185	144	70	33.6	6.7
430	1185	---	---	---	---