

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"5824
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 240604AM
Specific Speeds:
Dimensions:
Speed: 1785 rpm
Dia: 18 in
Impeller: D6D1AM
Ns: 1093
Nss: 10342
Suction: 8 in
Discharge: 6 in

Pump Limits:

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

Search Criteria:

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

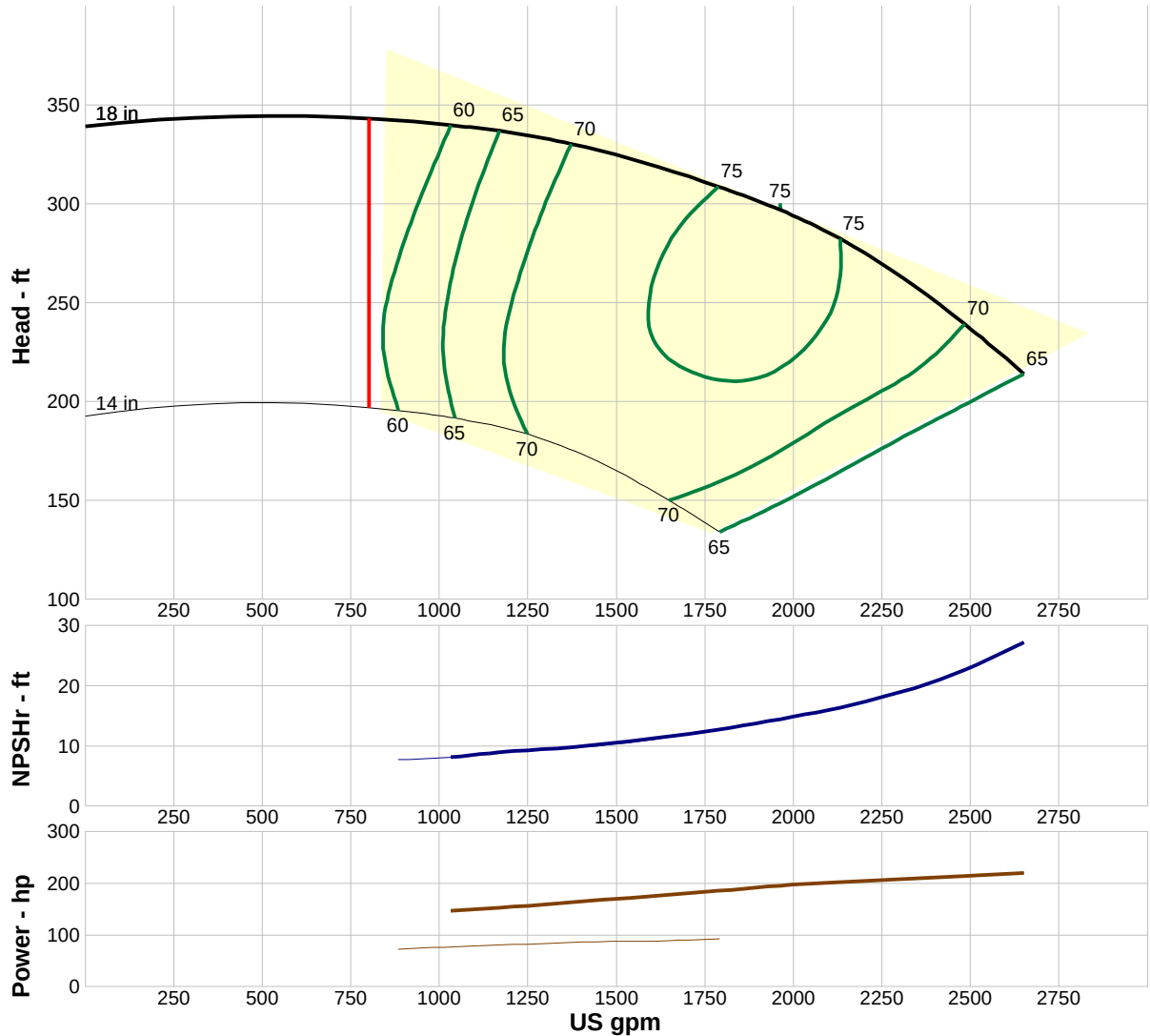
Fluid:

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: 250 hp
Speed: 1800
Frame: 447T

---- Data Point ----	
Flow:	1962 US gpm
Head:	297 ft
Eff:	75%
Power:	196 hp
NPSHr:	14.5 ft
---- Design Curve ----	
Shutoff head:	339 ft
Shutoff dP:	147 psi
Min flow:	800 US gpm
BEP:	75% @ 1962 US gpm
NOL power:	220 hp @ 2649 US gpm
-- Max Curve --	
Max power:	220 hp @ 2649 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2543	1785	230	68	216	24.3
2119	1785	283	75	202	16.3
1695	1785	313	74	181	12.1
1271	1785	334	68	158	9.38
848	1785	340	53	140	7.06