

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2824C
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 240604C
Specific Speeds:
Dimensions:
Speed: 1785 rpm
Dia: 17.57 in
Impeller: J6L1C1
Ns: 1393
Nss: 12815
Suction: 10 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 275 psi g
Sphere size: 0.88 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

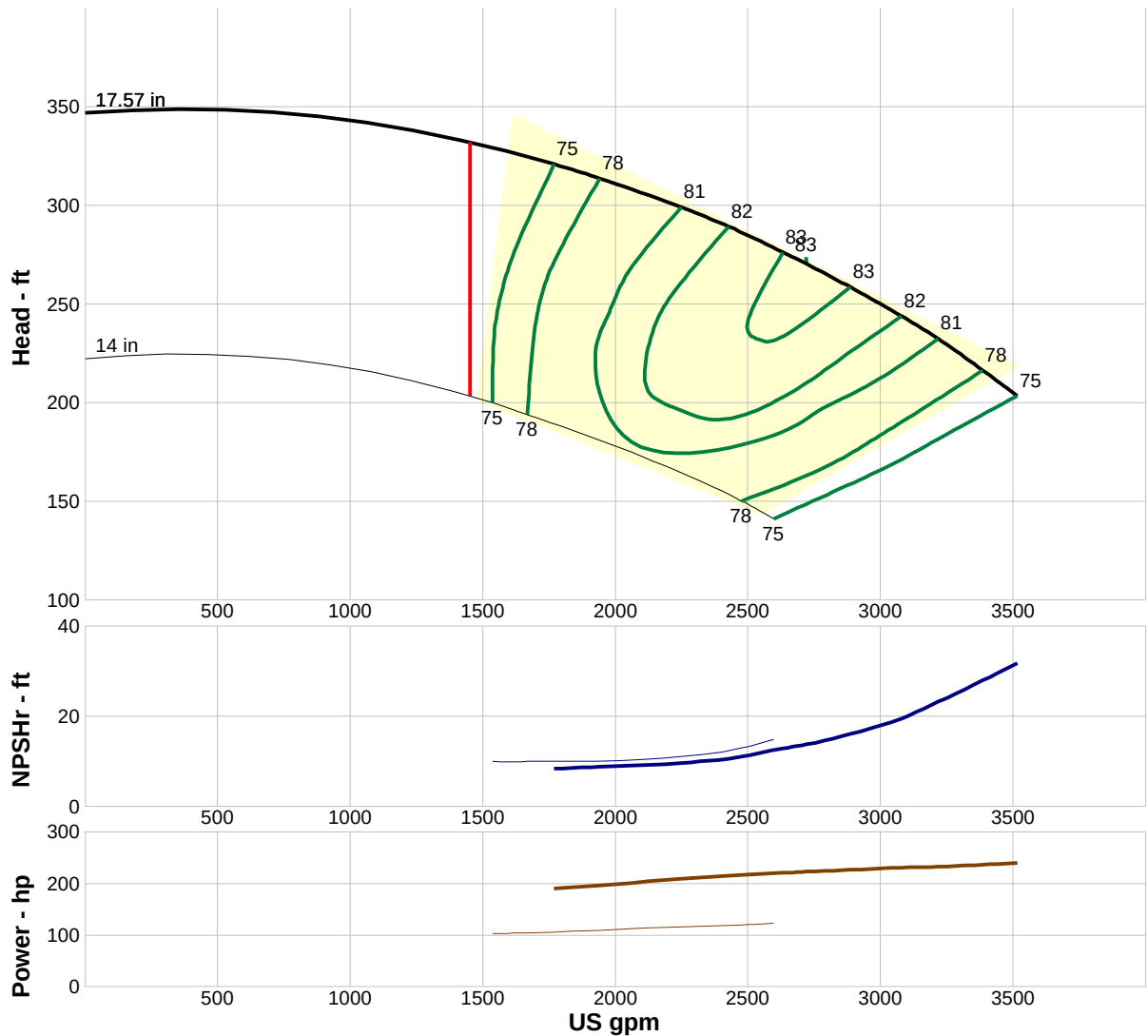
Fluid:

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:	2719 US gpm
Head:	270 ft
Eff:	83%
Power:	223 hp
NPSHr:	13.8 ft
---- Design Curve ----	
Shutoff head:	347 ft
Shutoff dP:	150 psi
Min flow:	1450 US gpm
BEP:	83% @ 2719 US gpm
NOL power:	241 hp @ 3515 US gpm
-- Max Curve --	
Max power:	241 hp @ 3515 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3374	1785	217	78	237	27.7
2812	1785	264	83	225	15.1
2250	1785	299	81	209	9.71
1687	1785	322	74	188	8.27
1125	1785	---	---	---	---