

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"2825C
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 251004C
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 17.81 in
 Impeller: J8L1C1
 Ns: 1786
 Nss: 14658
 Suction: 12 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 275 psi g
 Sphere size: 1.12 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

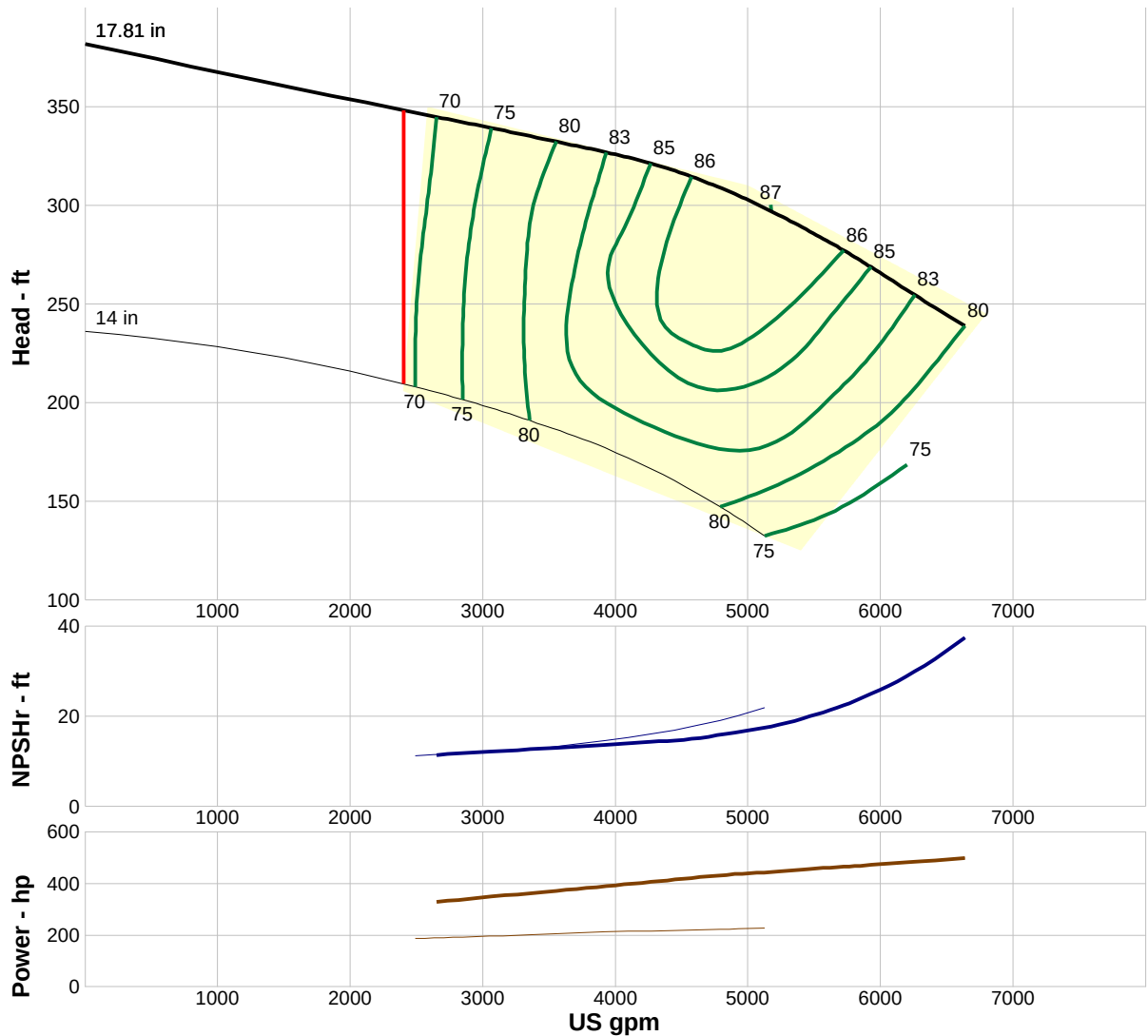
Fluid:

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
 --- hp
 Speed: ---
 Frame: ---

---- Data Point ----	
Flow:	5172 US gpm
Head:	297 ft
Eff:	87%
Power:	446 hp
NPSHr:	17.8 ft
---- Design Curve ----	
Shutoff head:	382 ft
Shutoff dP:	165 psi
Min flow:	2400 US gpm
BEP:	87% @ 5172 US gpm
NOL power:	500 hp @ 6633 US gpm
-- Max Curve --	
Max power:	500 hp @ 6633 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
6367	1785	250	82	489	32.2
5306	1785	292	87	451	18.8
4245	1785	322	85	406	14.3
3184	1785	337	76	355	12.4
2122	1785	---	---	---	---