

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 6"5826
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 260604A
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 23 in
 Impeller: D6F1A
 Ns: 780
 Nss: 8853
 Suction: 10 in
 Discharge: 6 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 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

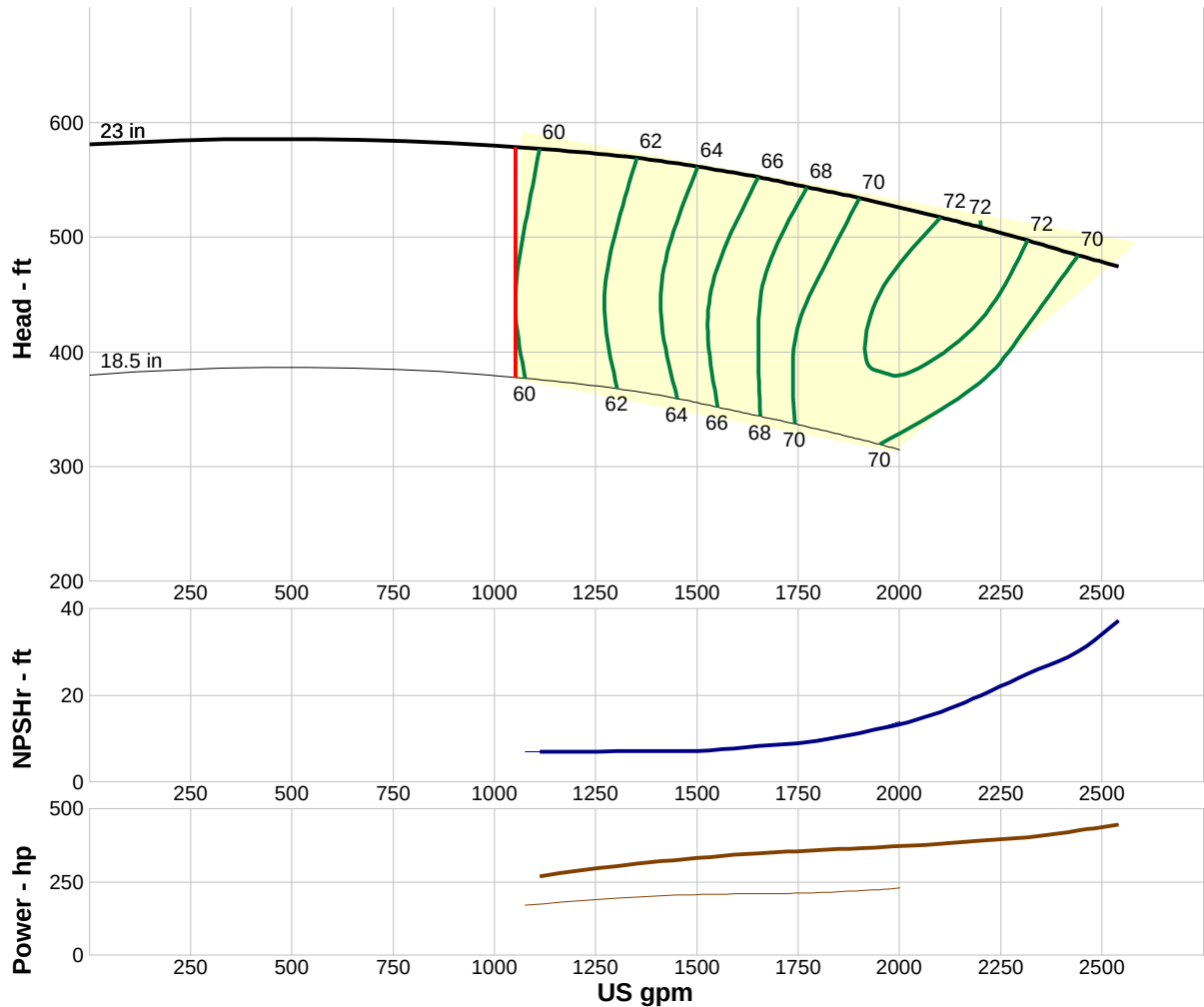
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 --- hp
 Speed: ---
 Frame: ---

Pump Selection Warnings:

Pump shutoff dP exceeds limit for the pump.

---- Data Point ----	
Flow:	2200 US gpm
Head:	509 ft
Eff:	72%
Power:	392 hp
NPSHr:	20 ft
---- Design Curve ----	
Shutoff head:	581 ft
Shutoff dP:	251 psi
Min flow:	1050 US gpm
BEP:	72% @ 2200 US gpm
NOL power:	447 hp @ 2540 US gpm
-- Max Curve --	
Max power:	447 hp @ 2540 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2438	1785	484	70	426	30.1
2032	1785	523	71	376	14.5
1626	1785	554	66	346	8.11
1219	1785	573	61	289	7.05
813	1785	---	---	---	---