

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 12HXXH-B (1 stage)
 Type: Vertical
 Synch speed: 1760 rpm
 Curve: 12HXXH-B
 Specific Speeds:
 Dimensions:
 Vertical Turbine:
 Speed: 1760 rpm
 Dia: 9.47 in
 Impeller:
 Ns: 1760
 Nss: ---
 Suction: 8 in
 Discharge: 8 in
 Bowl size: 11.625 in
 Max lateral: 0.375 in
 Thrust K factor: 11 lb/ft

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

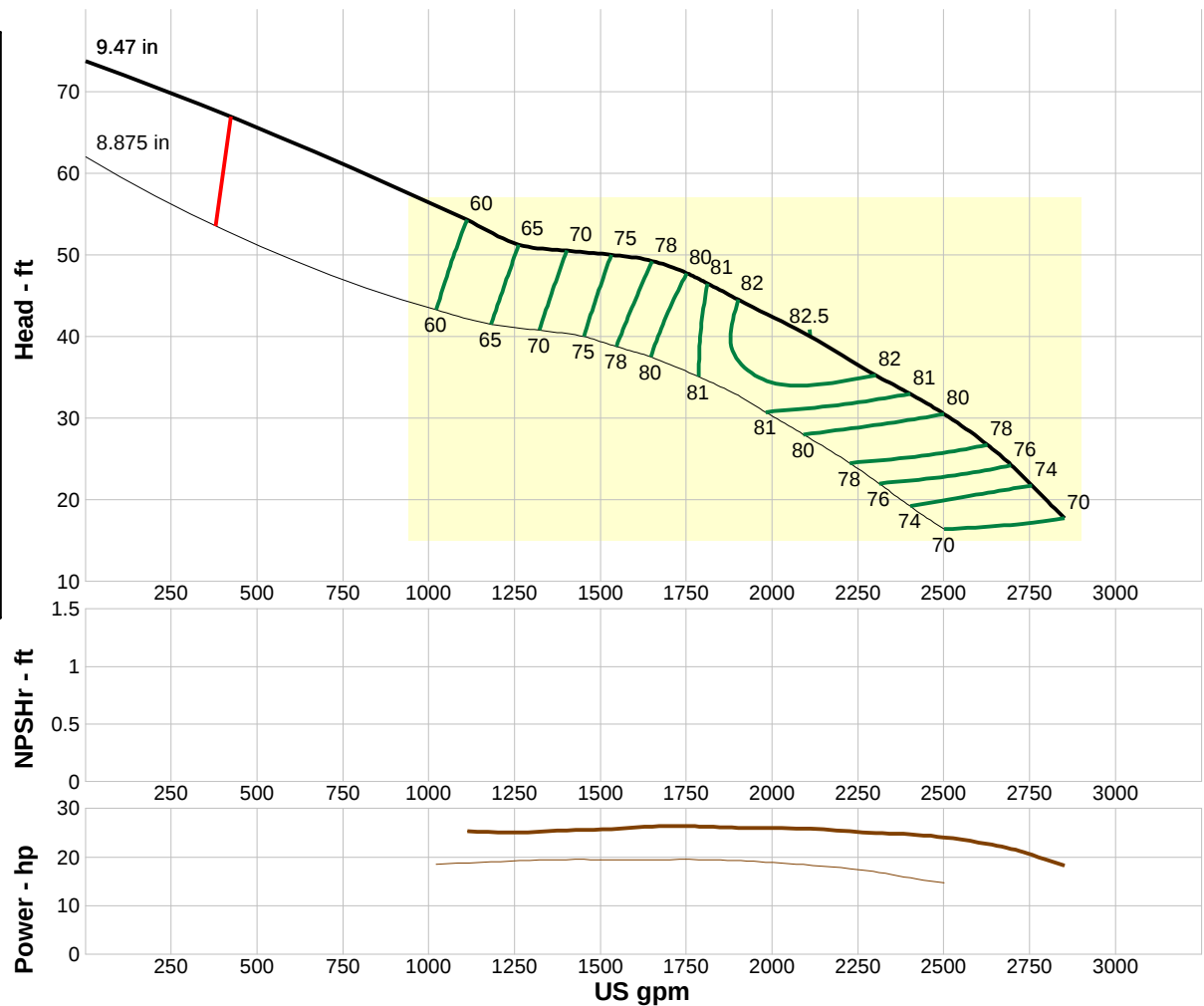
Motor:

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

Pump Limits:

Temperature: 140 °F
 Pressure: 355 psi g
 Sphere size: 0.625 in
 Power: 450 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	2110 US gpm
Head:	40 ft
Eff:	82.5%
Power:	25.8 hp
NPSHr:	--- ft
---- Design Curve ----	
Shutoff head:	73.8 ft
Shutoff dP:	31.9 psi
Min flow:	422 US gpm
BEP:	82.5% @ 2110 US gpm
NOL power:	26.5 hp @ 422 US gpm
-- Max Curve --	
Max power:	26.5 hp @ 422 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2736	1760	22.5	74.6	20.8	---
2280	1760	35.8	82.1	25.1	---
1824	1760	46.2	81.2	26.2	---
1368	1760	50.7	68.9	25.4	---
912	1760	57.7	53.4	25.7	---