

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 6LC-3C (1 stage)
 Type: Submersible
 Synch speed: 3450 rpm
 Curve: S6LC-3C
 Specific Speeds:
 Dimensions:
 Vertical Turbine:
 Speed: 3450 rpm
 Dia: 4.487 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 4 in
 Discharge: 4 in
 Bowl size: 5.65 in
 Max lateral: 0.281 in
 Thrust K factor: 1.5 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

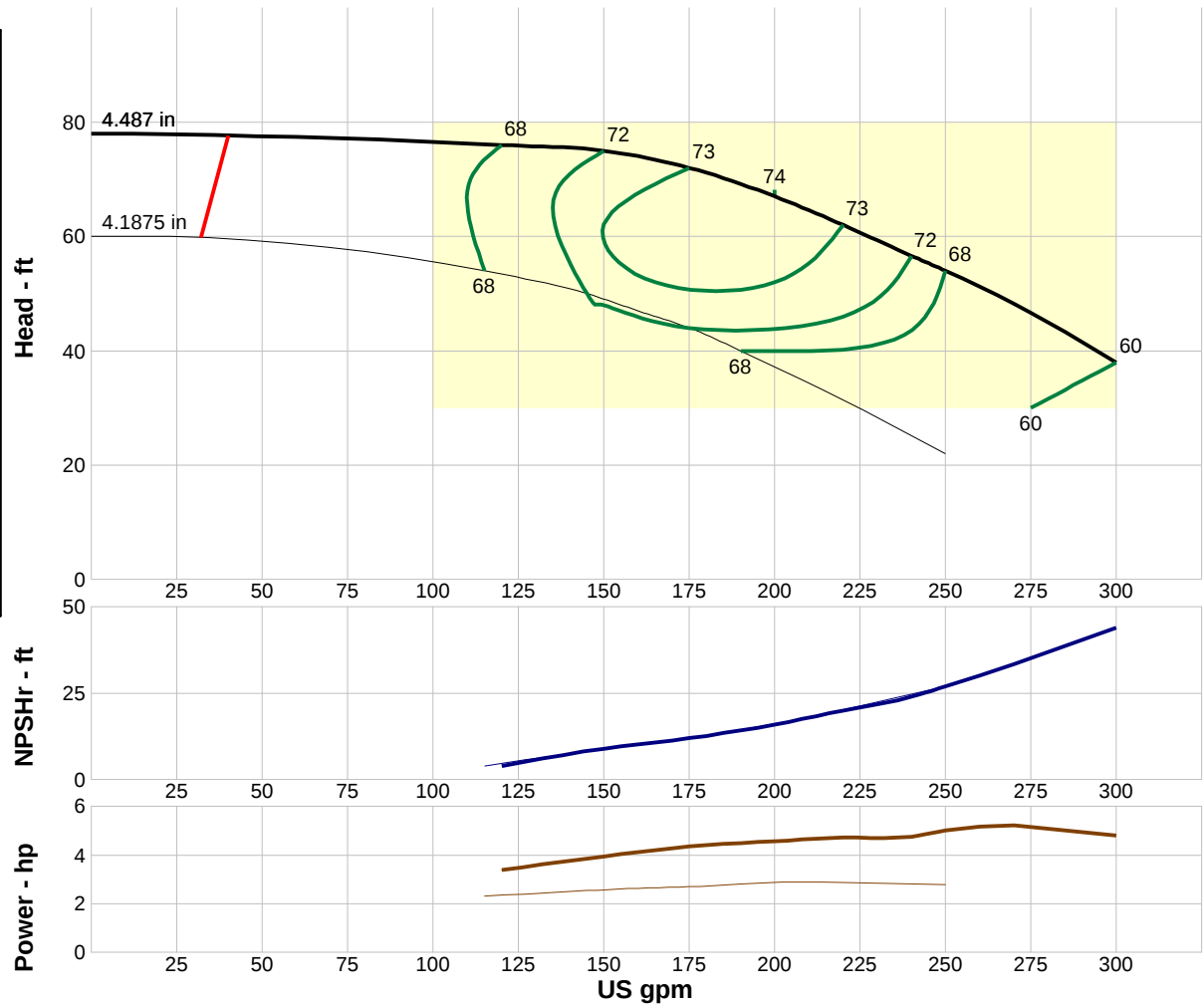
Motor:

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

Pump Limits:

Temperature: 140 °F
 Pressure: 400 psi g
 Sphere size: 0.25 in
 Power: 60 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	200 US gpm
Head:	67 ft
Eff:	74%
Power:	4.57 hp
NPSHr:	16 ft
---- Design Curve ----	
Shutoff head:	78 ft
Shutoff dP:	33.7 psi
Min flow:	40 US gpm
BEP:	74% @ 200 US gpm
NOL power:	5.01 hp @ 250 US gpm
-- Max Curve --	
Max power:	5.01 hp @ 250 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
288	3450	41.8	61.9	4.85	39.9
240	3450	56.6	72	4.76	24
192	3450	68.6	73.7	4.5	14.7
144	3450	75.2	71.2	3.83	8
96	3450	76.4	64.8	2.94	---