

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 2"2873A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 730204B
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 8 in
 Impeller: J2B1A1
 Ns: 1290
 Nss: 10214
 Suction: 4 in
 Discharge: 2 in

Pump Limits:

Temperature: 160 °F
 Pressure: 275 psi g
 Sphere size: 0.38 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

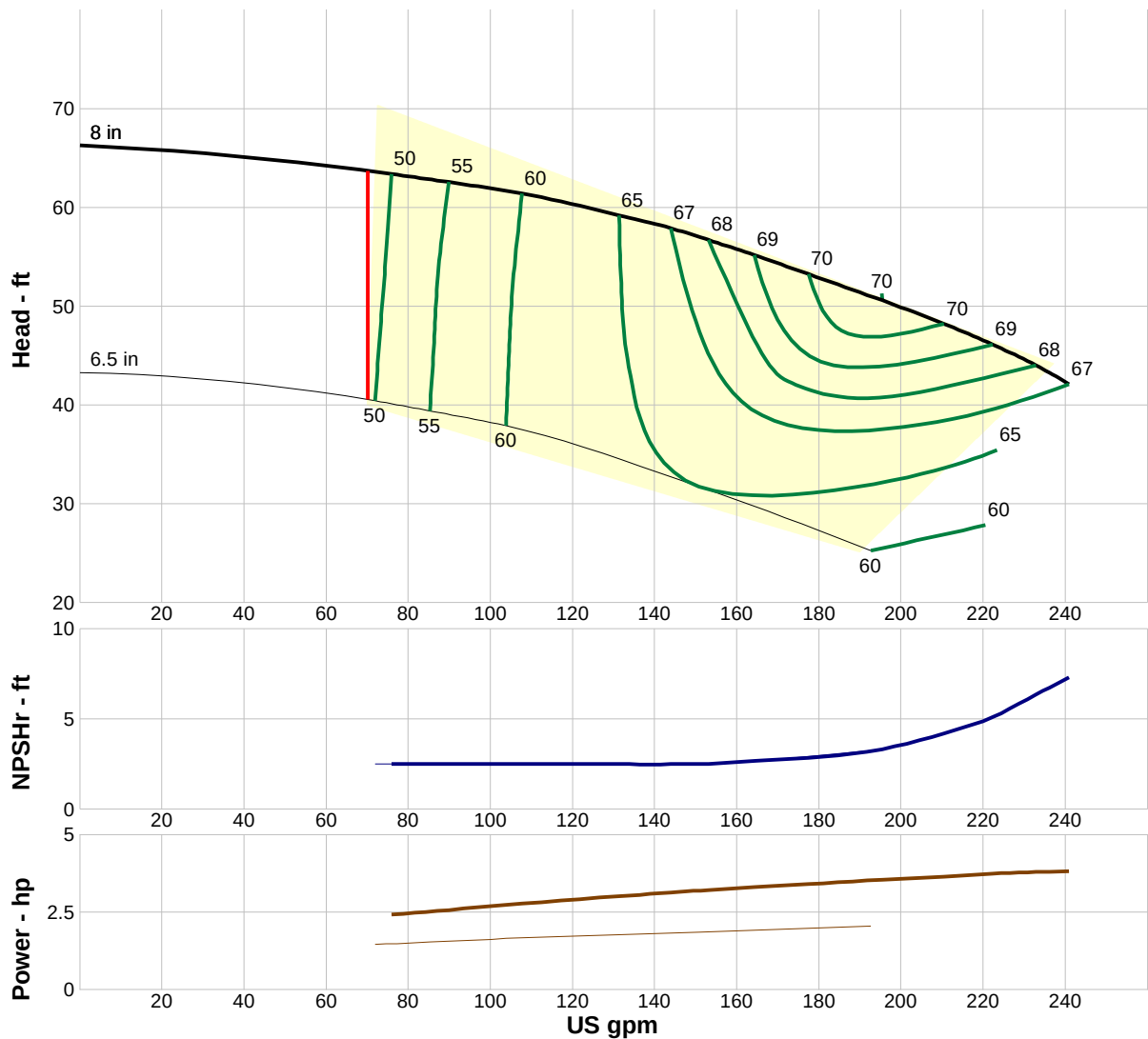
Fluid:

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: 5 hp
 Speed: 1800
 Frame: 184T

---- Data Point ----	
Flow:	195 US gpm
Head:	50.6 ft
Eff:	70%
Power:	3.56 hp
NPSHr:	3.33 ft
---- Design Curve ----	
Shutoff head:	66.3 ft
Shutoff dP:	28.7 psi
Min flow:	70 US gpm
BEP:	70% @ 195 US gpm
NOL power:	3.82 hp @ 241 US gpm
-- Max Curve --	
Max power:	3.82 hp @ 241 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
232	1750	44.2	68	3.8	6.27
193	1750	50.9	70	3.54	3.28
154	1750	56.6	68	3.23	2.53
116	1750	60.6	62	2.87	2.5
77.2	1750	63.3	51	2.44	2.5