

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 2"2873A
 Type: 2800-HSC
 Synch speed: 3600 rpm
 Curve: 730202B
 Specific Speeds:
 Dimensions:
 Speed: 3550 rpm
 Dia: 8 in
 Impeller: J2B1B1
 Ns: 1271
 Nss: 10240
 Suction: 4 in
 Discharge: 2 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 0.38 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

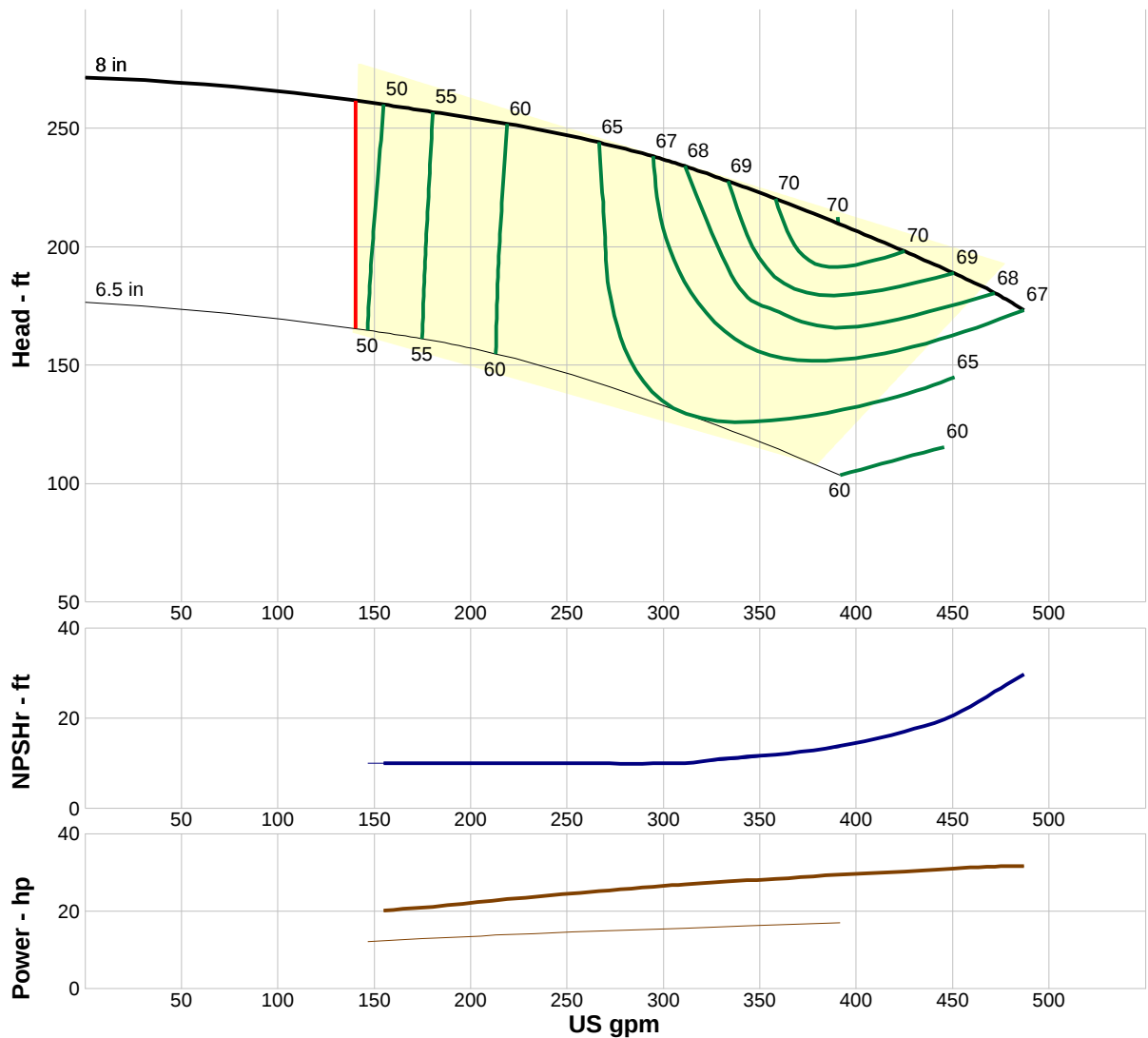
Fluid:

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: 40 hp
 Speed: 3600
 Frame: 324TS

---- Data Point ----	
Flow:	390 US gpm
Head:	210 ft
Eff:	70%
Power:	29.5 hp
NPSHr:	13.8 ft
---- Design Curve ----	
Shutoff head:	271 ft
Shutoff dP:	117 psi
Min flow:	140 US gpm
BEP:	70% @ 390 US gpm
NOL power:	31.8 hp @ 487 US gpm
-- Max Curve --	
Max power:	31.8 hp @ 487 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
467	3550	182	68	31.5	24.8
389	3550	210	70	29.5	13.7
311	3550	234	68	27	10.1
233	3550	250	62	23.8	10
156	3550	260	50	20.4	10