

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 3"2874A
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 740304A
 Specific Speeds:
 Dimensions:
 Speed: 1760 rpm
 Dia: 9.03 in
 Impeller: J3C1A1
 Ns: 1559
 Nss: 11166
 Suction: 5 in
 Discharge: 3 in

Pump Limits:

Temperature: 160 °F
 Pressure: 275 psi g
 Sphere size: 0.63 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

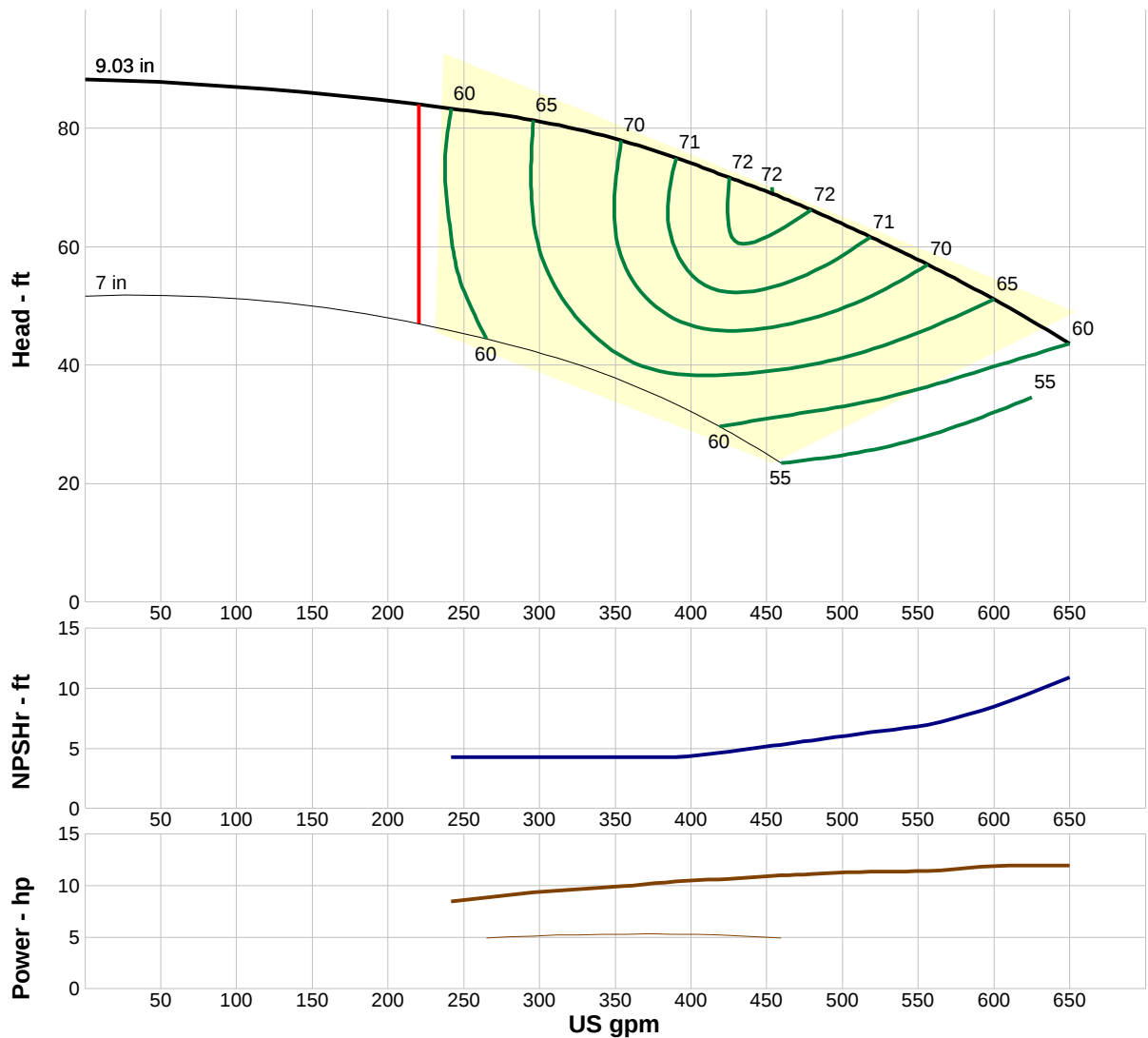
Fluid:

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: 15 hp
 Speed: 1800
 Frame: 254T

---- Data Point ----	
Flow:	454 US gpm
Head:	68.9 ft
Eff:	72%
Power:	11 hp
NPSHr:	5.24 ft
---- Design Curve ----	
Shutoff head:	88.3 ft
Shutoff dP:	38.2 psi
Min flow:	220 US gpm
BEP:	72% @ 454 US gpm
NOL power:	11.9 hp @ 650 US gpm
-- Max Curve --	
Max power:	11.9 hp @ 650 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
624	1760	47.5	63	11.9	9.68
520	1760	61.4	71	11.4	6.38
416	1760	72.5	72	10.6	4.61
312	1760	80.4	66	9.51	4.3
208	1760	---	---	---	---