

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"2822A
 Type: 2800-HSC
 Synch speed: 1200 rpm
 Curve: 221006A
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 11.63 in
 Impeller: J10E1A3
 Ns: 4271
 Nss: 7518
 Suction: 14 in
 Discharge: 10 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 1 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

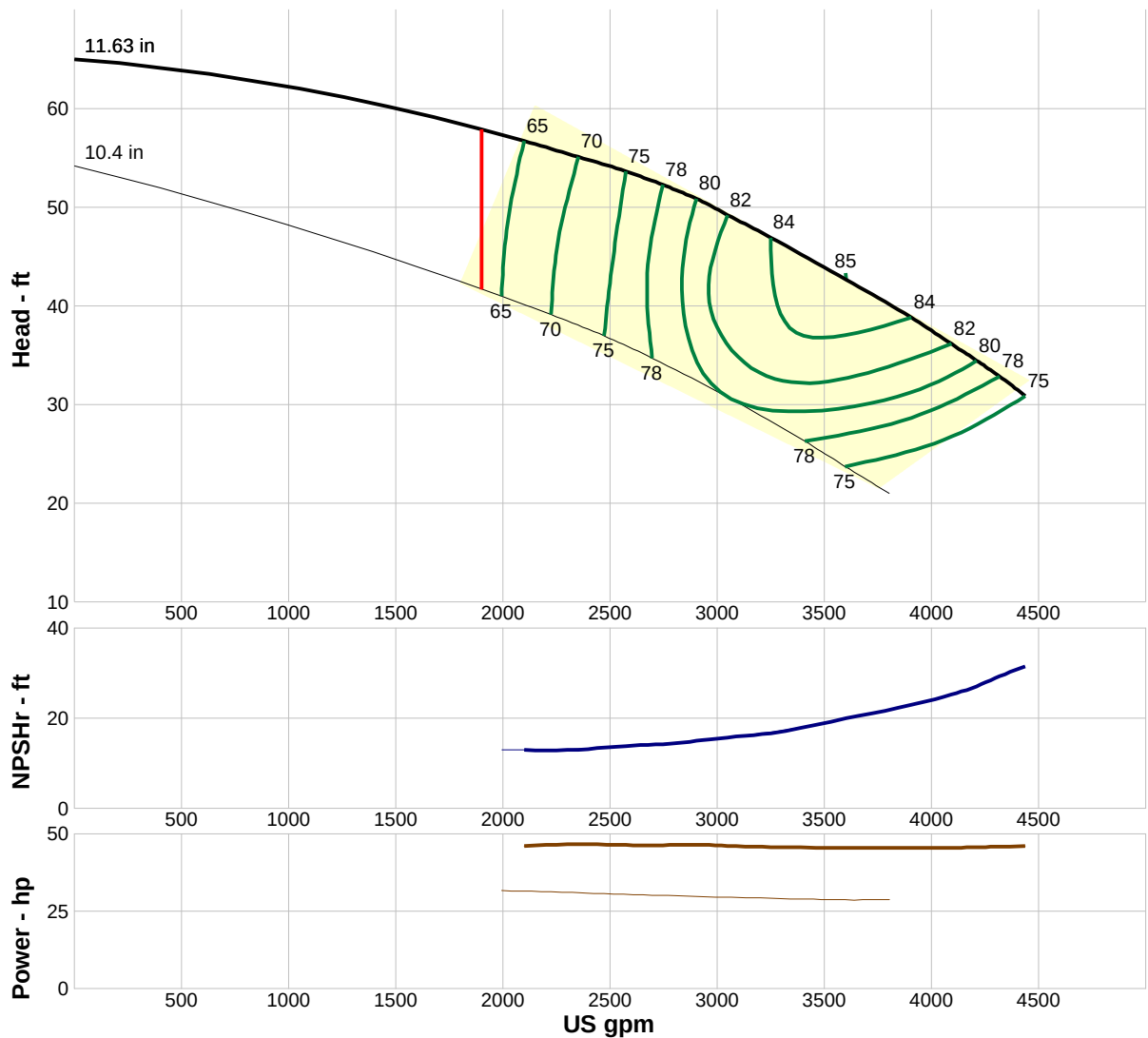
Fluid:

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: 50 hp
 Speed: 1200
 Frame: 365T

---- Data Point ----	
Flow:	3601 US gpm
Head:	42.6 ft
Eff:	85%
Power:	45.6 hp
NPSHr:	20 ft
---- Design Curve ----	
Shutoff head:	65 ft
Shutoff dP:	28.1 psi
Min flow:	1900 US gpm
BEP:	85% @ 3601 US gpm
NOL power:	46.7 hp @ 2352 US gpm
-- Max Curve --	
Max power:	46.7 hp @ 2352 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
4260	1185	33.7	79	45.9	28.2
3550	1185	43.3	85	45.6	19.5
2840	1185	51.4	79	46.5	14.7
2130	1185	56.5	66	46.3	13
1420	1185	---	---	---	---