

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"2876A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 760404A
Specific Speeds:
Dimensions:
Speed: 1770 rpm
Dia: 11.1 in
Impeller: J5C1A1
Ns: 1413
Nss: 6913
Suction: 6 in
Discharge: 4 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 0.5 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

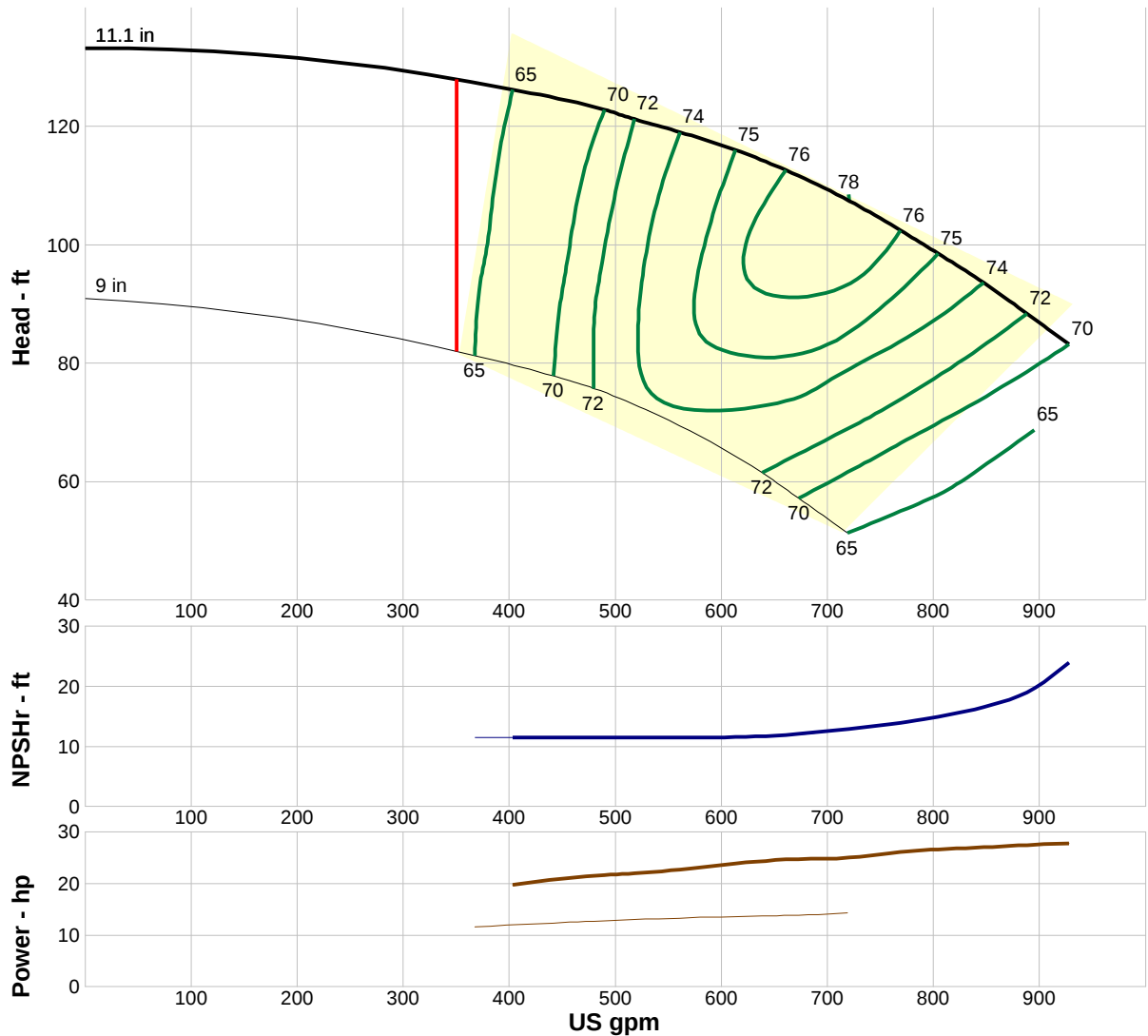
Fluid:

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: 30 hp
Speed: 1800
Frame: 286T

---- Data Point ----	
Flow:	720 US gpm
Head:	107 ft
Eff:	78%
Power:	25 hp
NPSHr:	13 ft
---- Design Curve ----	
Shutoff head:	133 ft
Shutoff dP:	57.6 psi
Min flow:	350 US gpm
BEP:	78% @ 720 US gpm
NOL power:	27.8 hp @ 927 US gpm
-- Max Curve --	
Max power:	27.8 hp @ 927 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
890	1770	88.1	72	27.5	19.3
742	1770	105	77	25.5	13.4
594	1770	117	75	23.5	11.5
445	1770	125	67	20.7	11.5
297	1770	---	---	---	---