

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2822X
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 220606F
Specific Speeds:
Dimensions:
Speed: 1180 rpm
Dia: 11.38 in
Impeller: J6E1F
Ns: 1530
Nss: 7726
Suction: 6 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 200 psi g
Sphere size: 0.44 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

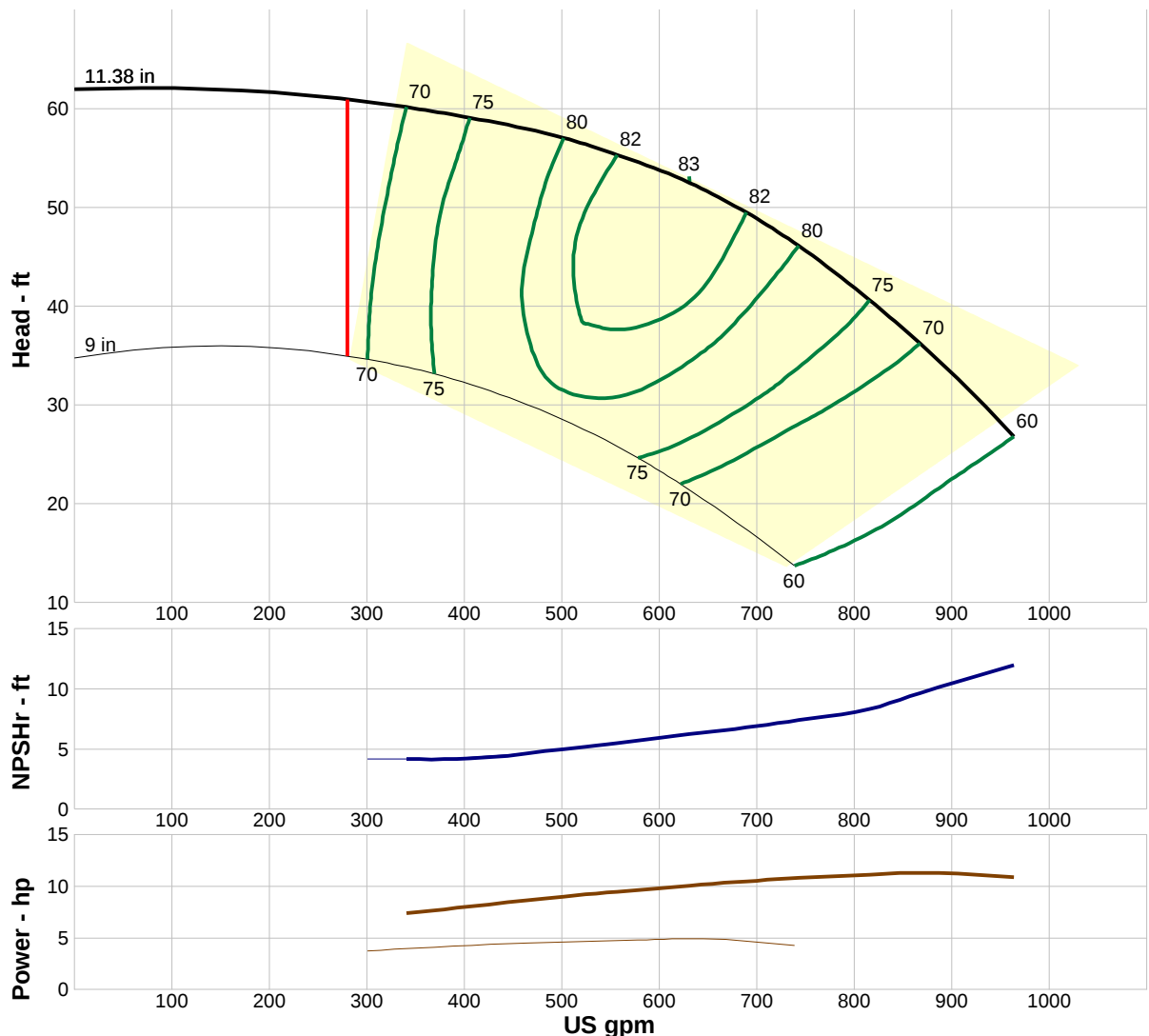
Fluid:

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: 1200
Frame: 284T

---- Data Point ----	
Flow:	631 US gpm
Head:	52.5 ft
Eff:	83%
Power:	10.1 hp
NPSHr:	6.25 ft
---- Design Curve ----	
Shutoff head:	61.9 ft
Shutoff dP:	26.8 psi
Min flow:	280 US gpm
BEP:	83% @ 631 US gpm
NOL power:	11.3 hp @ 867 US gpm
-- Max Curve --	
Max power:	11.3 hp @ 867 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
925	1180	30.6	64	11.1	11.1
771	1180	44	78	10.9	7.76
617	1180	53	83	9.96	6.11
463	1180	57.8	78	8.64	4.68
308	1180	60.3	68	7.04	4.2