

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H12MFA (1 stage)
 Type: MixFlow
 Synch speed: 1160 rpm
 Curve: H12MFA
 Specific Speeds:
 Dimensions:
 Speed: 1160 rpm
 Dia: 8.5 in
 Impeller:
 Ns: 1160
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: --- psi g
 Sphere size: --- in
 Power: 150 hp
 Eye area: --- in²

Search Criteria:

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

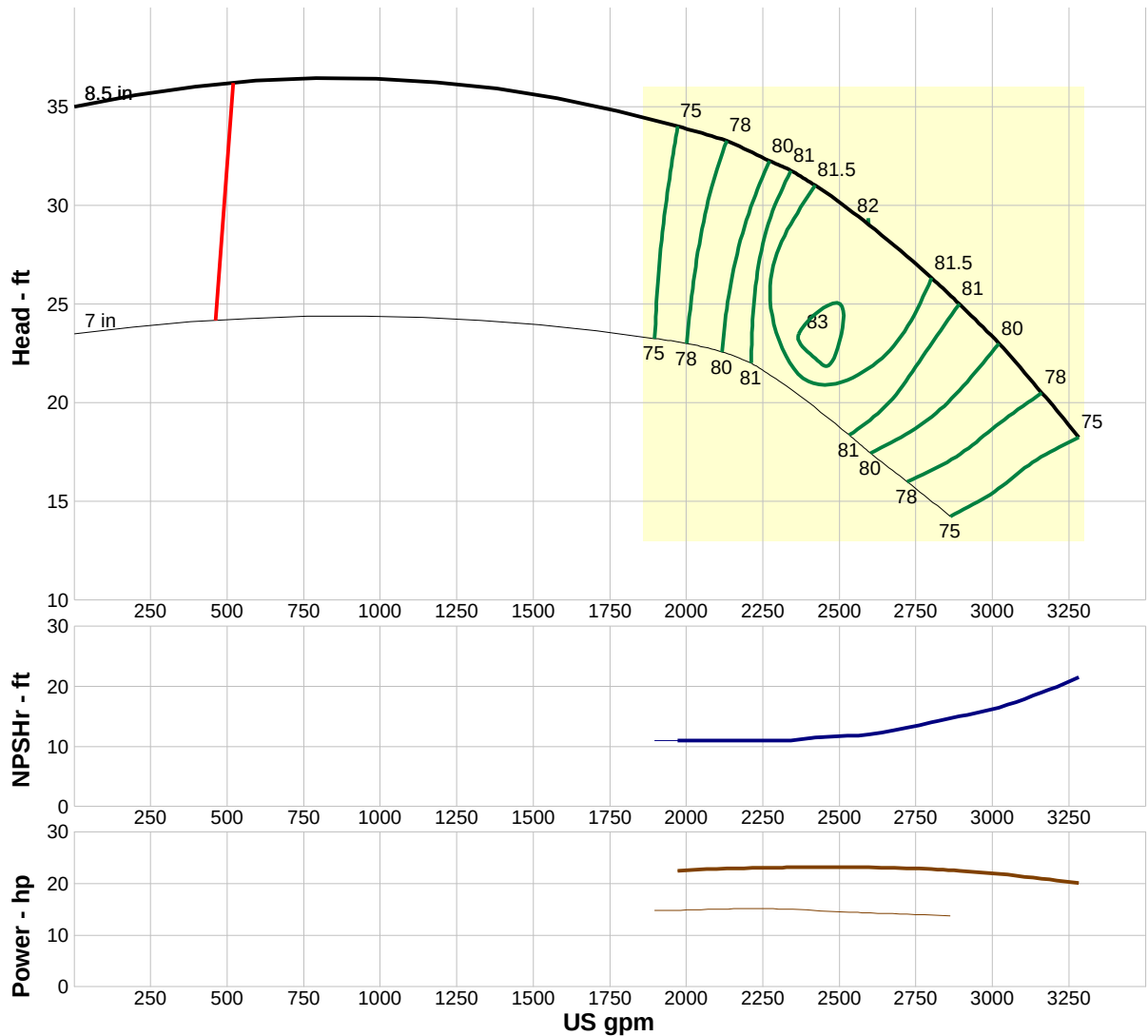
Fluid:

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
 --- hp
 Speed: ---
 Frame: ---

---- Data Point ----	
Flow:	2595 US gpm
Head:	29 ft
Eff:	82%
Power:	23.2 hp
NPSHr:	12 ft
---- Design Curve ----	
Shutoff head:	35 ft
Shutoff dP:	15.1 psi
Min flow:	519 US gpm
BEP:	82% @ 2595 US gpm
NOL power:	23.2 hp @ 2420 US gpm
-- Max Curve --	
Max power:	23.2 hp @ 2420 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3149	1160	20.7	78.2	21	18.8
2624	1160	28.6	81.9	23.1	12.3
2099	1160	33.4	77.4	22.9	11
1574	1160	34.2	67.6	21.6	11
1050	1160	34.5	57.8	20.4	11