

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 16"5823 (A)
 Type: 5800-HSC
 Synch speed: 900 rpm
 Curve: 231608A
 Specific Speeds:
 Dimensions:
 Speed: 890 rpm
 Dia: 28.25 in
 Impeller: M15A1A
 Ns: 1617
 Nss: 10175
 Suction: 20 in
 Discharge: 16 in

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

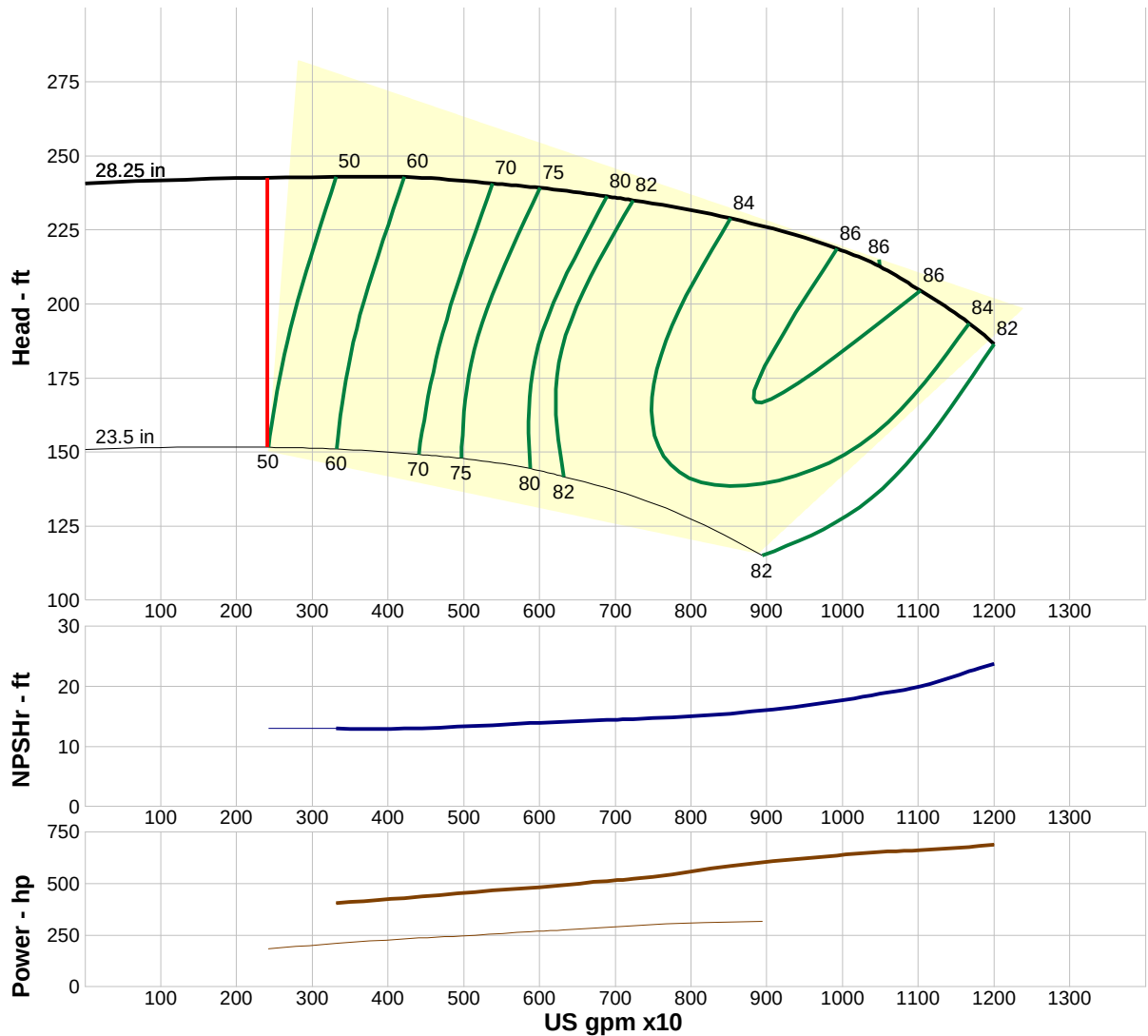
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 --- hp
 Speed: ---
 Frame: ---

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 1 in
 Power: --- hp
 Eye area: --- in²

---- Data Point ----	
Flow:	10482 US gpm
Head:	213 ft
Eff:	86%
Power:	654 hp
NPSHr:	18.8 ft
---- Design Curve ----	
Shutoff head:	241 ft
Shutoff dP:	104 psi
Min flow:	2400 US gpm
BEP:	86% @ 10482 US gpm
NOL power:	689 hp @ 11994 US gpm
-- Max Curve --	
Max power:	689 hp @ 11994 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
11514	890	196	84	675	21.9
9595	890	221	86	625	17.1
7676	890	233	83	545	14.9
5757	890	240	73	477	13.8
3838	890	243	56	420	13