

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 16"5823 (C)
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 231606C
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 28 in
 Impeller: M16A1C
 Ns: 1774
 Nss: 11310
 Suction: 20 in
 Discharge: 16 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.88 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

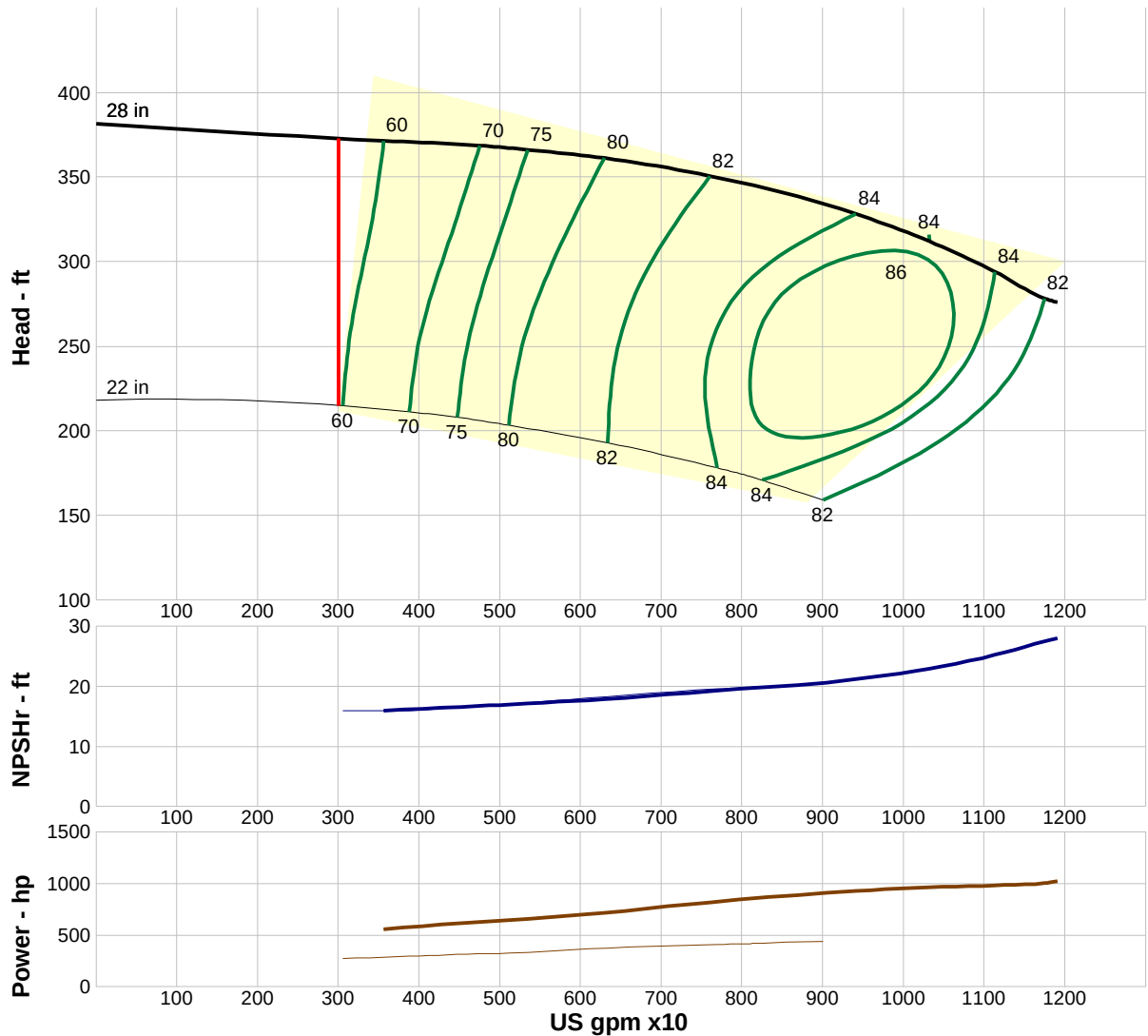
Fluid:

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

---- Data Point ----	
Flow:	10316 US gpm
Head:	312 ft
Eff:	84%
Power:	966 hp
NPSHr:	22.9 ft
---- Design Curve ----	
Shutoff head:	381 ft
Shutoff dP:	165 psi
Min flow:	3000 US gpm
BEP:	84% @ 10316 US gpm
NOL power:	1023 hp @ 11900 US gpm
-- Max Curve --	
Max power:	1023 hp @ 11900 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
11424	1185	286	83	995	26.3
9520	1185	326	84	933	21.4
7616	1185	350	82	822	19.2
5712	1185	364	77	681	17.4
3808	1185	371	62	572	16.2