

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 16"5823 (L)
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 231606L
 Specific Speeds:
 Dimensions:
 Speed: 1185 rpm
 Dia: 28.5 in
 Impeller: M16A1L
 Ns: 1564
 Nss: 12100
 Suction: 20 in
 Discharge: 16 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 1 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

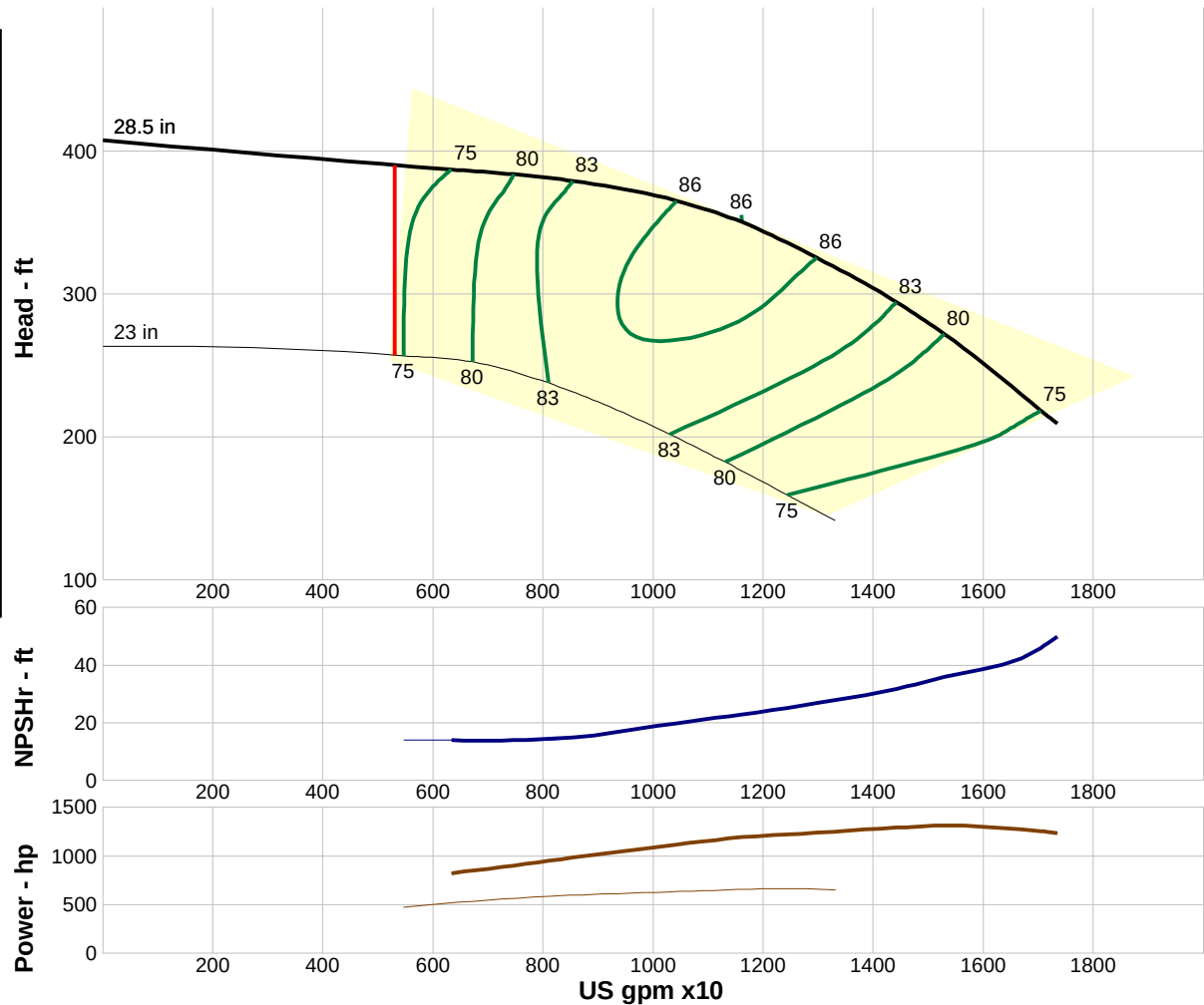
Motor:

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

Pump Selection Warnings:

Pump shutoff dP exceeds limit for the pump.

---- Data Point ----	
Flow:	11605 US gpm
Head:	350 ft
Eff:	86%
Power:	1192 hp
NPSHr:	22.9 ft
---- Design Curve ----	
Shutoff head:	407 ft
Shutoff dP:	176 psi
Min flow:	5300 US gpm
BEP:	86% @ 11605 US gpm
NOL power:	1313 hp @ 15284 US gpm
-- Max Curve --	
Max power:	1313 hp @ 15284 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
16642	1185	231	76	1267	43.7
13868	1185	306	84	1271	30
11094	1185	357	86	1160	21.6
8321	1185	380	82	968	14.8
5547	1185	390	72	770	14