

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 20"5824
Type: 5800-HSC
Synch speed: 900 rpm
Curve: 242008A
Specific Speeds:
Dimensions:
Speed: 890 rpm
Dia: 35 in
Impeller: D20D1A
Ns: 1839
Nss: 16939
Suction: 30 in
Discharge: 24 in

Pump Limits:

Temperature: 160 °F
Pressure: 140 psi g
Sphere size: 2.25 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

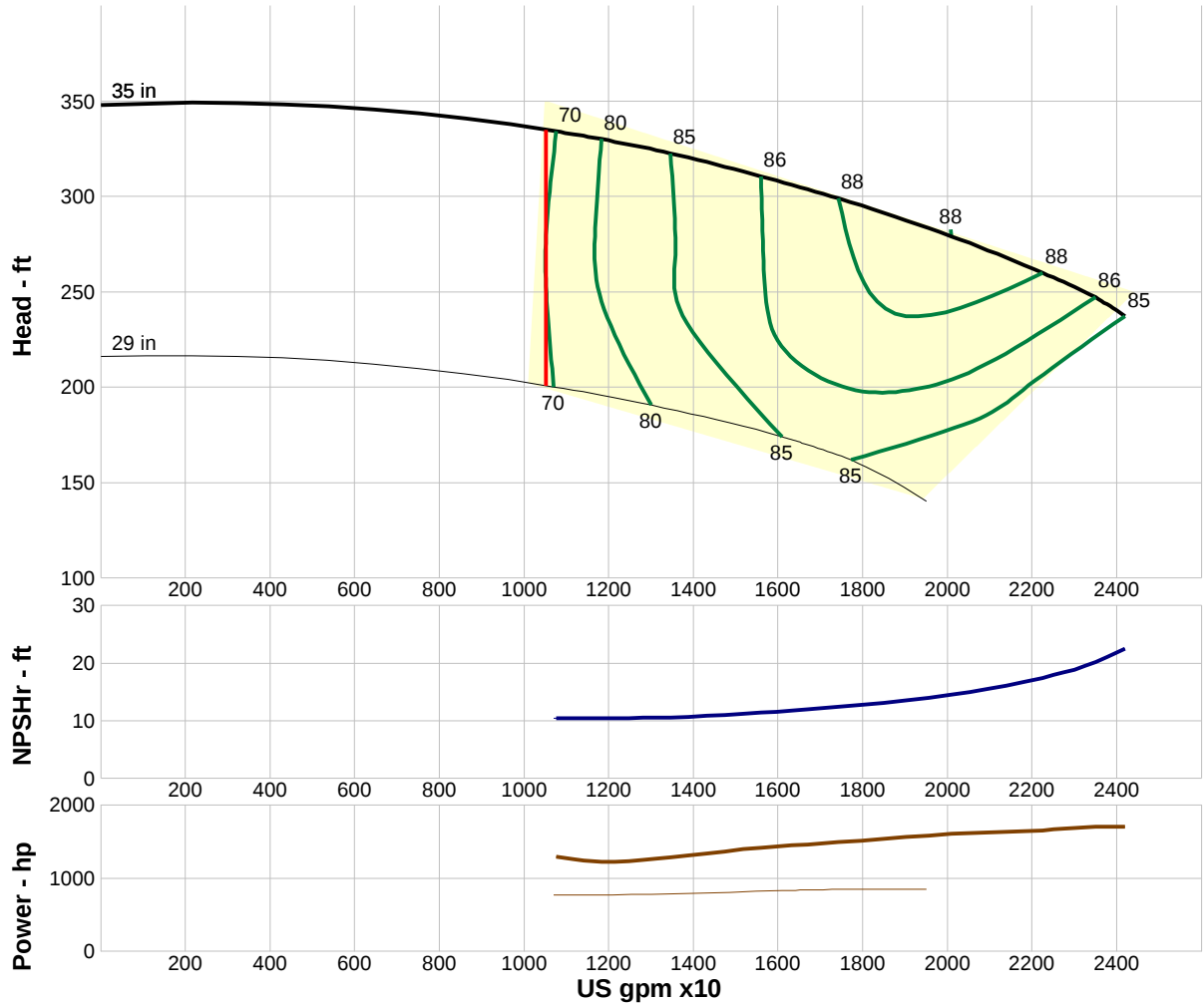
Motor:

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:	20083 US gpm
Head:	279 ft
Eff:	88%
Power:	1607 hp
NPSHr:	14.5 ft
---- Design Curve ----	
Shutoff head:	348 ft
Shutoff dP:	150 psi
Min flow:	10500 US gpm
BEP:	88% @ 20083 US gpm
NOL power:	1705 hp @ 24181 US gpm
-- Max Curve --	
Max power:	1705 hp @ 24181 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
23214	890	250	86	1695	19.6
19345	890	285	88	1576	13.9
15476	890	311	86	1415	11.4
11607	890	331	78	1244	10.5
7738	890	---	---	---	---