

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"5823
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 231004A
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 15 in
 Impeller: D10A1A
 Ns: 2011
 Nss: 14112
 Suction: 12 in
 Discharge: 10 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

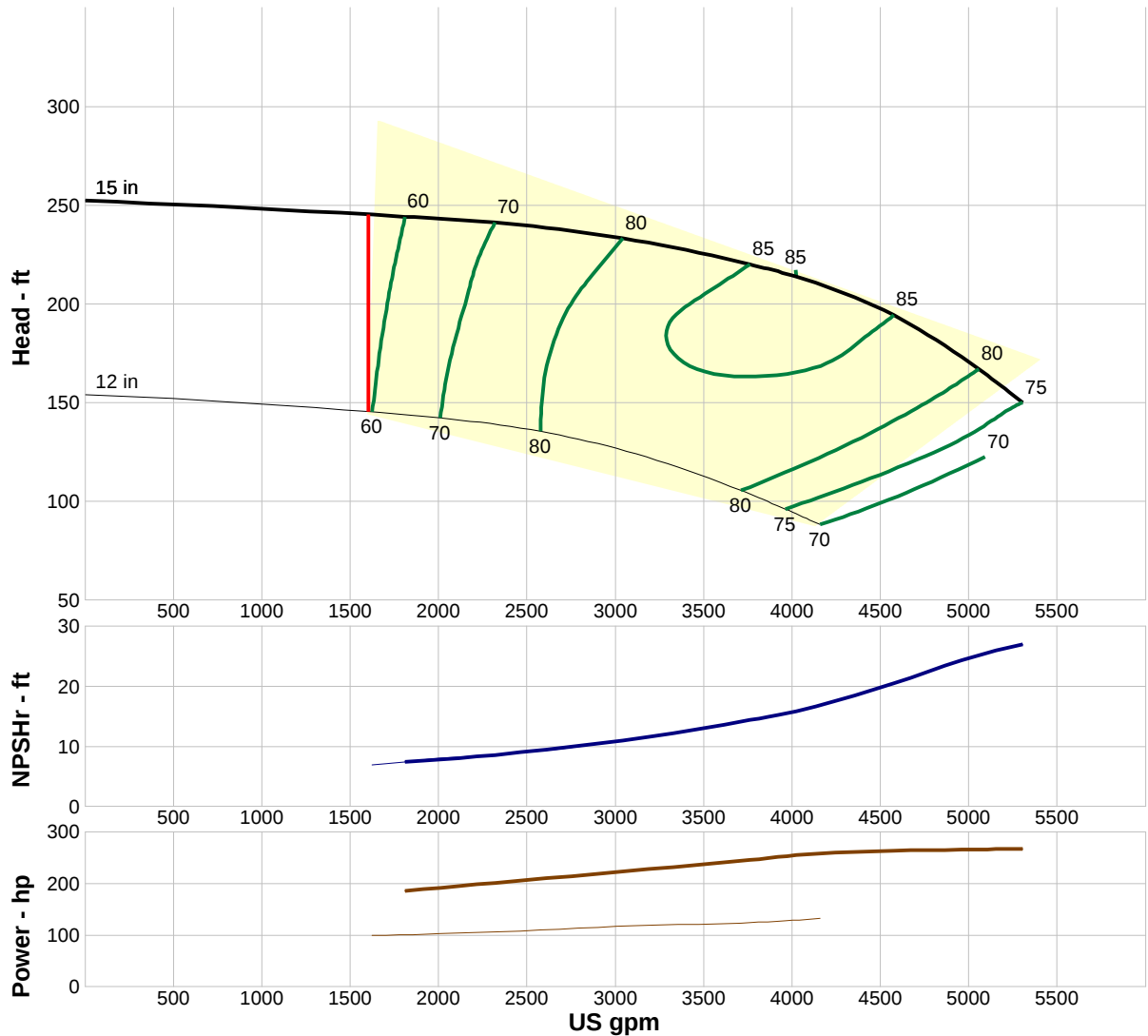
Fluid:

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
 Size: 300 hp
 Speed: 1800
 Frame: 449T

---- Data Point ----	
Flow:	4022 US gpm
Head:	214 ft
Eff:	85%
Power:	255 hp
NPSHr:	15.9 ft
---- Design Curve ----	
Shutoff head:	252 ft
Shutoff dP:	109 psi
Min flow:	1600 US gpm
BEP:	85% @ 4022 US gpm
NOL power:	268 hp @ 5301 US gpm
-- Max Curve --	
Max power:	268 hp @ 5301 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
5089	1785	165	79	267	25.5
4241	1785	206	85	259	17.7
3393	1785	227	82	235	12.7
2545	1785	239	73	209	9.37
1696	1785	245	58	182	7.17