

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 12"5822
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 221206A
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 18 in
Impeller: D12B1A
Ns: 1792
Nss: 11217
Suction: 14 in
Discharge: 12 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

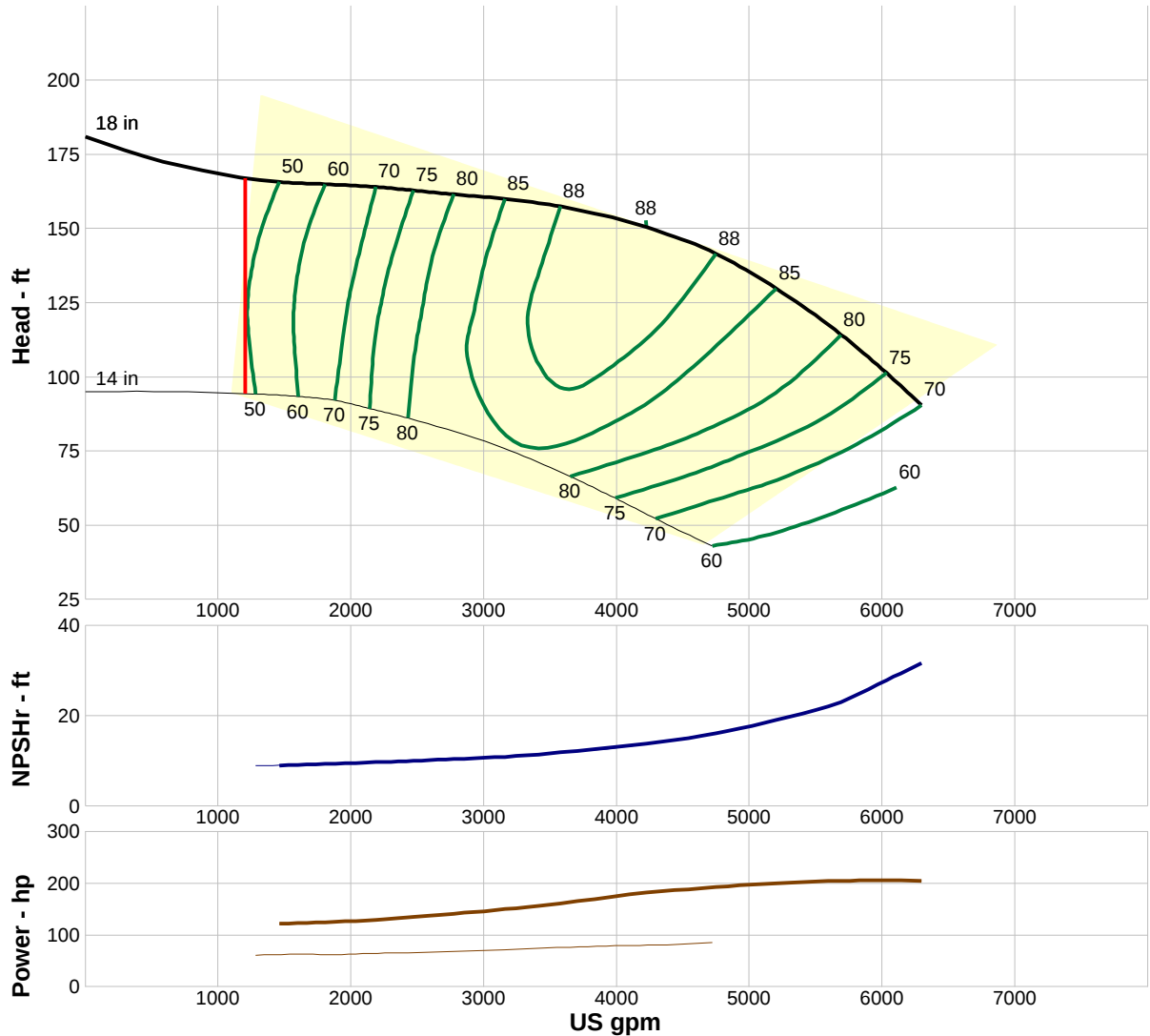
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 250 hp
Speed: 1200
Frame: 449T

Pump Limits:

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

---- Data Point ----	
Flow:	4224 US gpm
Head:	150 ft
Eff:	88%
Power:	182 hp
NPSHr:	13.9 ft
---- Design Curve ----	
Shutoff head:	181 ft
Shutoff dP:	78.2 psi
Min flow:	1200 US gpm
BEP:	88% @ 4224 US gpm
NOL power:	206 hp @ 6030 US gpm
-- Max Curve --	
Max power:	206 hp @ 6030 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
6043	1185	101	75	206	28.1
5036	1185	134	86	198	18
4029	1185	153	88	176	13.3
3022	1185	161	83	147	10.8
2014	1185	164	66	127	9.57