

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"2822A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 221004A
Specific Speeds:
Dimensions:
Speed: 1785 rpm
Dia: 11.63 in
Impeller: J10E1A3
Ns: 4291
Nss: 10726
Suction: 14 in
Discharge: 10 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 1 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

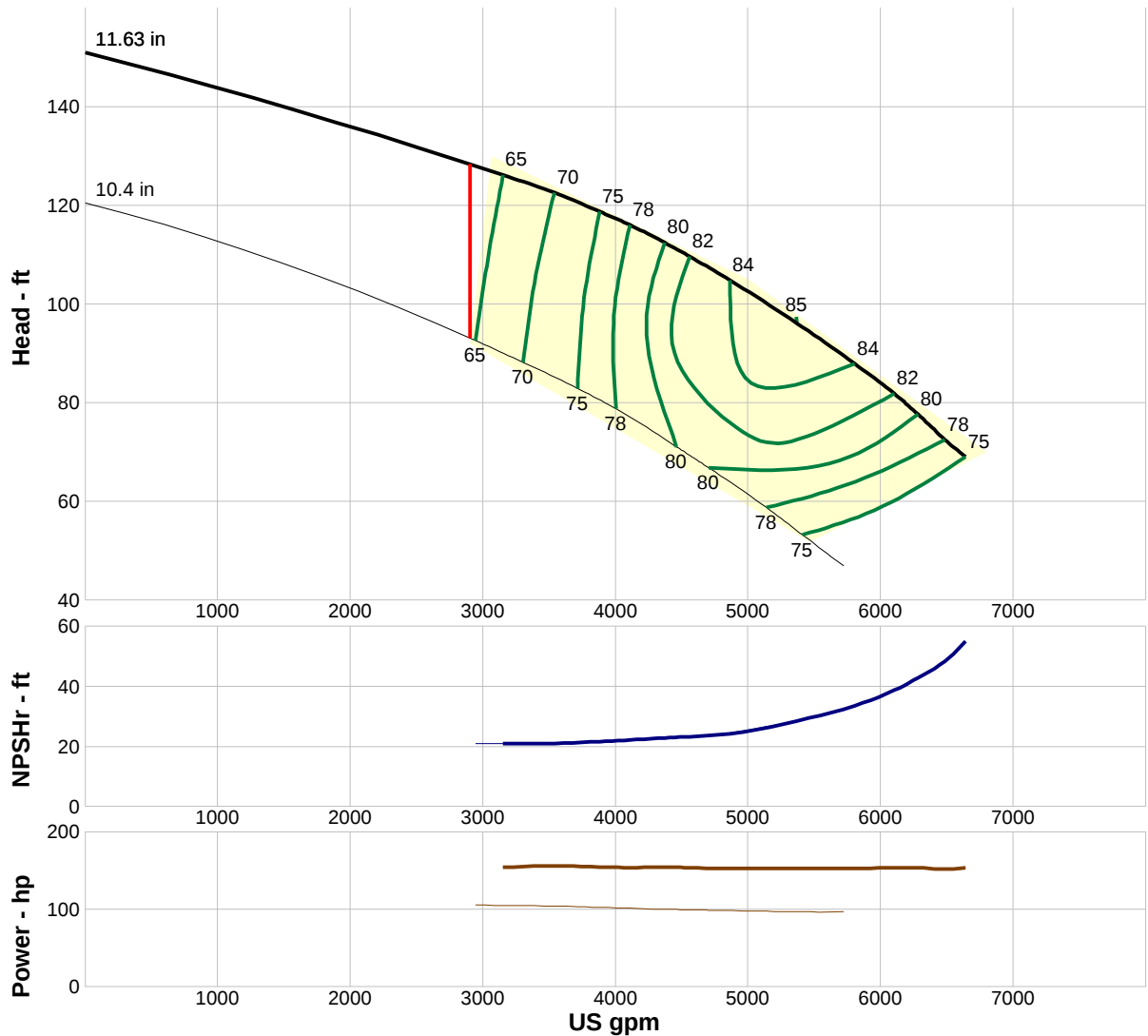
Fluid:

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
Size: 200 hp
Speed: 1800
Frame: 447T

---- Data Point ----	
Flow:	5366 US gpm
Head:	96.1 ft
Eff:	85%
Power:	153 hp
NPSHr:	28.5 ft
---- Design Curve ----	
Shutoff head:	151 ft
Shutoff dP:	65.2 psi
Min flow:	2900 US gpm
BEP:	85% @ 5366 US gpm
NOL power:	156 hp @ 3537 US gpm
-- Max Curve --	
Max power:	156 hp @ 3537 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
6373	1785	75.3	79	153	45.4
5311	1785	97.1	85	153	28
4249	1785	114	79	155	22.5
3187	1785	126	65	155	21
2124	1785	---	---	---	---