

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"2873A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 730404A
Specific Speeds:
Dimensions:
Speed: 1760 rpm
Dia: 8 in
Impeller: J4B1A1
Ns: 2023
Nss: 10368
Suction: 6 in
Discharge: 4 in

Pump Limits:

Temperature: 160 °F
Pressure: 200 psi g
Sphere size: 0.5 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

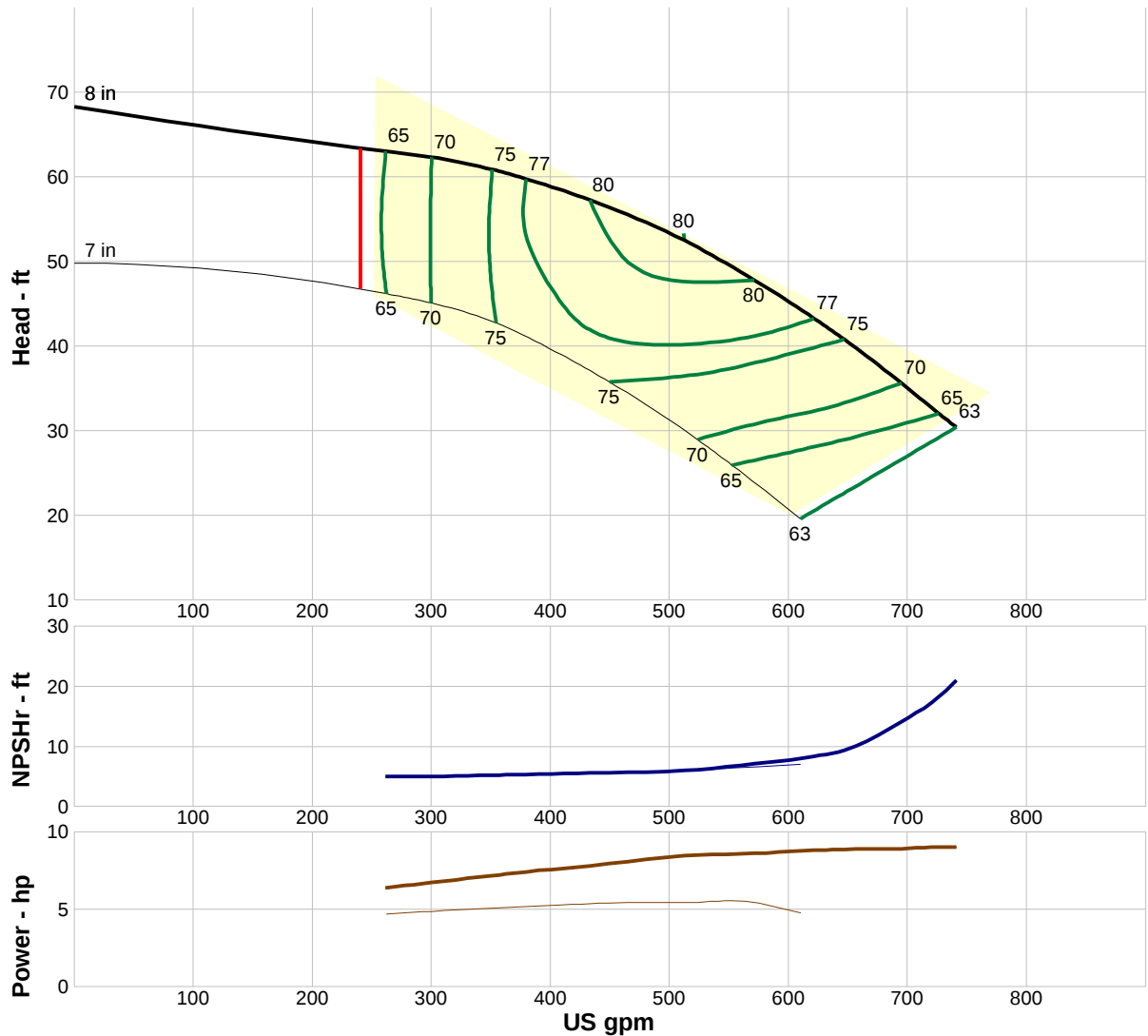
Fluid:

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: 10 hp
Speed: 1800
Frame: 215T

---- Data Point ----	
Flow:	512 US gpm
Head:	52.5 ft
Eff:	80%
Power:	8.48 hp
NPSHr:	5.98 ft
---- Design Curve ----	
Shutoff head:	68.3 ft
Shutoff dP:	29.5 psi
Min flow:	240 US gpm
BEP:	80% @ 512 US gpm
NOL power:	9.04 hp @ 741 US gpm
-- Max Curve --	
Max power:	9.04 hp @ 741 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
712	1760	33.6	67	8.99	16.4
593	1760	45.8	79	8.71	7.66
474	1760	54.8	80	8.16	5.79
356	1760	60.7	75	7.24	5.24
237	1760	---	---	---	---