

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"5822
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 220404C
Specific Speeds:
Dimensions:
Speed: 1765 rpm
Dia: 11.31 in
Impeller: D4B1C
Ns: 1291
Nss: 7033
Suction: 5 in
Discharge: 4 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

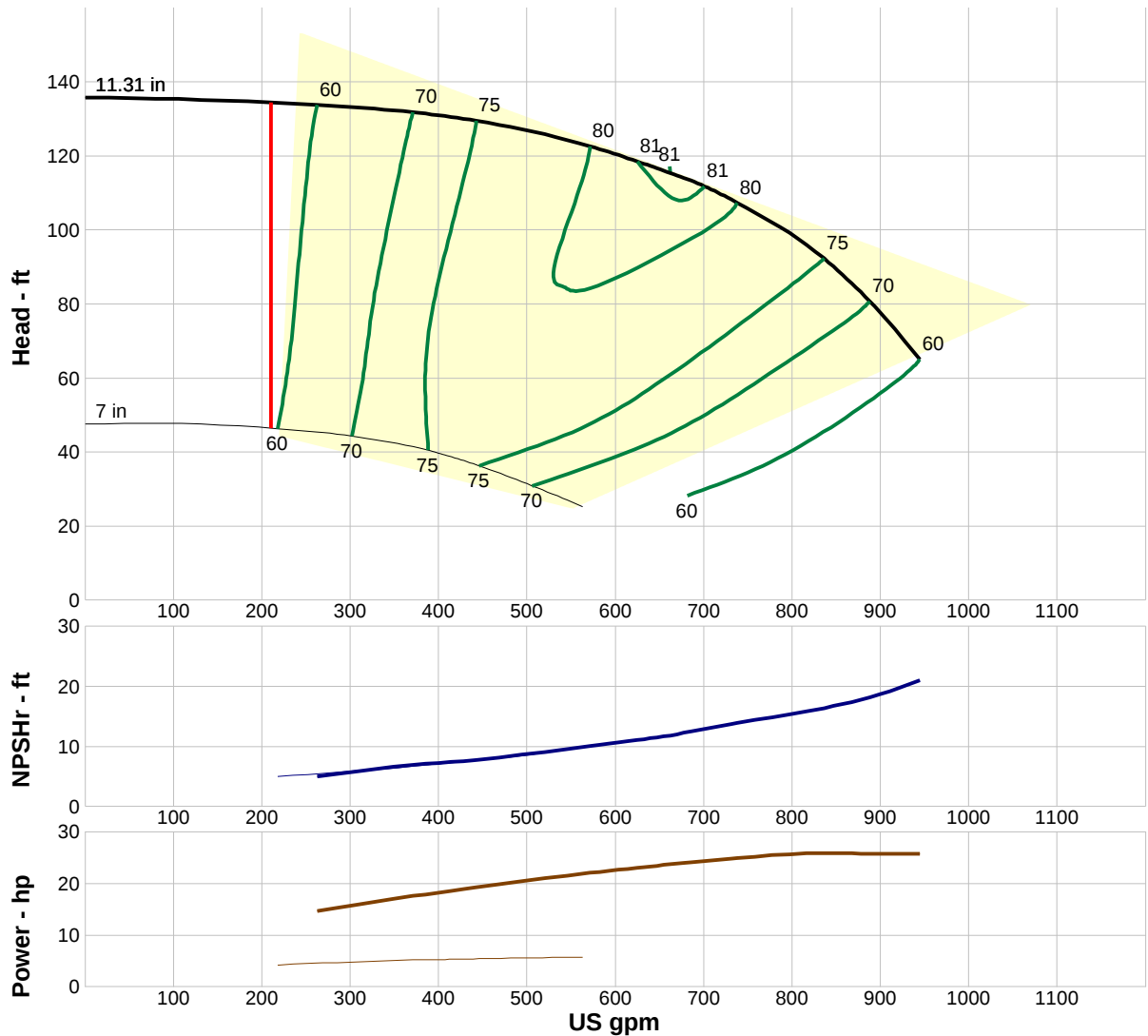
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 30 hp
Speed: 1800
Frame: 286T

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.5 in
Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	662 US gpm
Head:	115 ft
Eff:	81%
Power:	23.8 hp
NPSHr:	11.9 ft
---- Design Curve ----	
Shutoff head:	136 ft
Shutoff dP:	58.7 psi
Min flow:	210 US gpm
BEP:	81% @ 662 US gpm
NOL power:	26 hp @ 836 US gpm
-- Max Curve --	
Max power:	26 hp @ 836 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
906	1765	75.5	67	25.8	19.1
755	1765	105	79	25.2	14.4
604	1765	120	81	22.7	10.7
453	1765	129	75	19.5	7.96
302	1765	133	64	15.8	5.71