

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 5"5822
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 220504K
Specific Speeds:
Dimensions:
Speed: 1775 rpm
Dia: 11.31 in
Impeller: D5B1K
Ns: 1574
Nss: 8574
Suction: 6 in
Discharge: 5 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

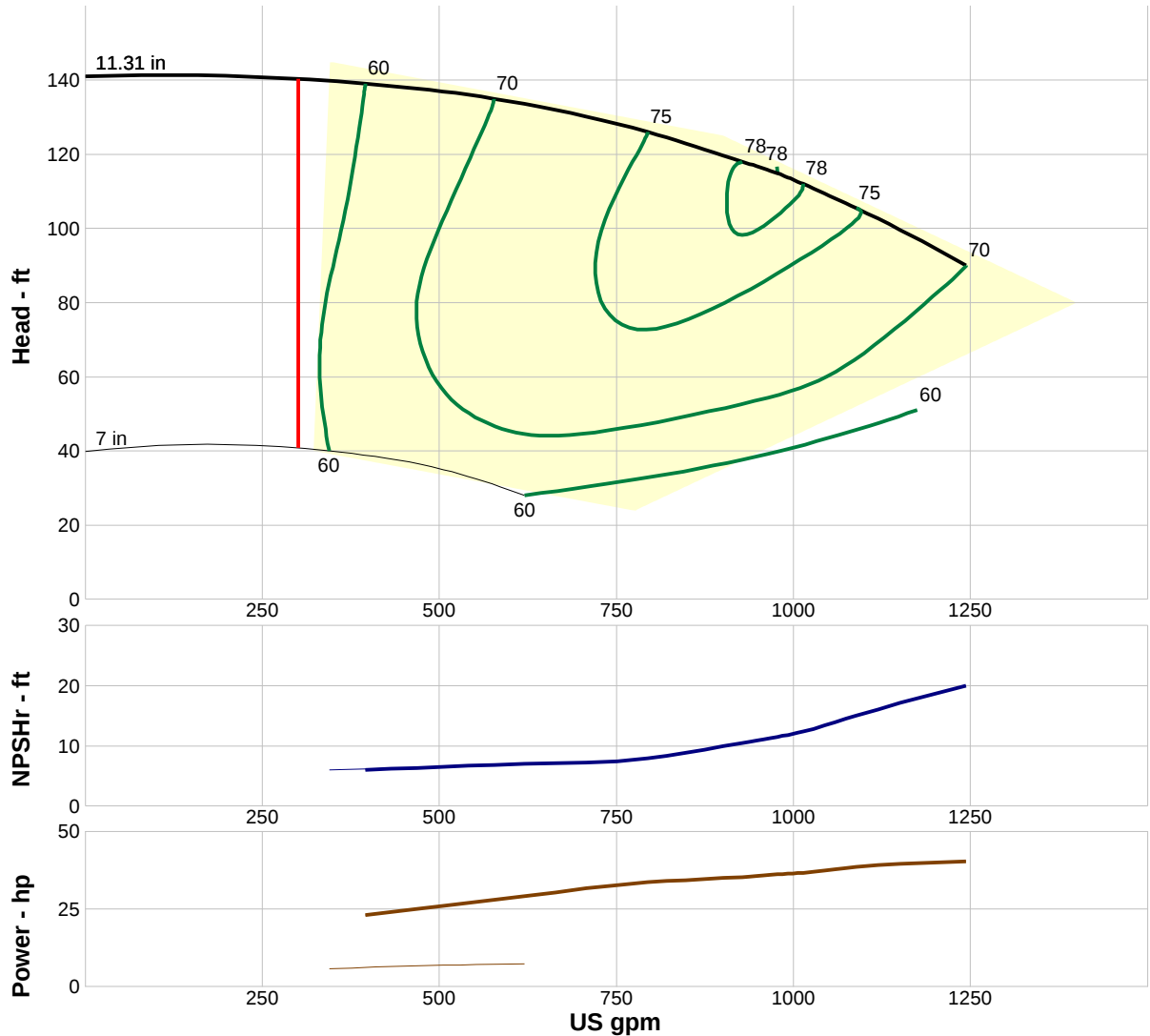
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 50 hp
Speed: 1800
Frame: 326T

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.63 in
Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	977 US gpm
Head:	115 ft
Eff:	78%
Power:	36.3 hp
NPSHr:	11.5 ft
---- Design Curve ----	
Shutoff head:	141 ft
Shutoff dP:	61 psi
Min flow:	300 US gpm
BEP:	78% @ 977 US gpm
NOL power:	40.4 hp @ 1243 US gpm
-- Max Curve --	
Max power:	40.4 hp @ 1243 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1193	1775	95	72	39.8	18.4
994	1775	114	78	36.5	11.9
795	1775	126	75	33.7	7.97
596	1775	134	70	28.6	6.97
398	1775	139	60	23.2	6.06