

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 5"5822
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 220506K
Specific Speeds:
Dimensions:
Speed: 1170 rpm
Dia: 11.31 in
Impeller: D5B1K
Ns: 1504
Nss: 8112
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

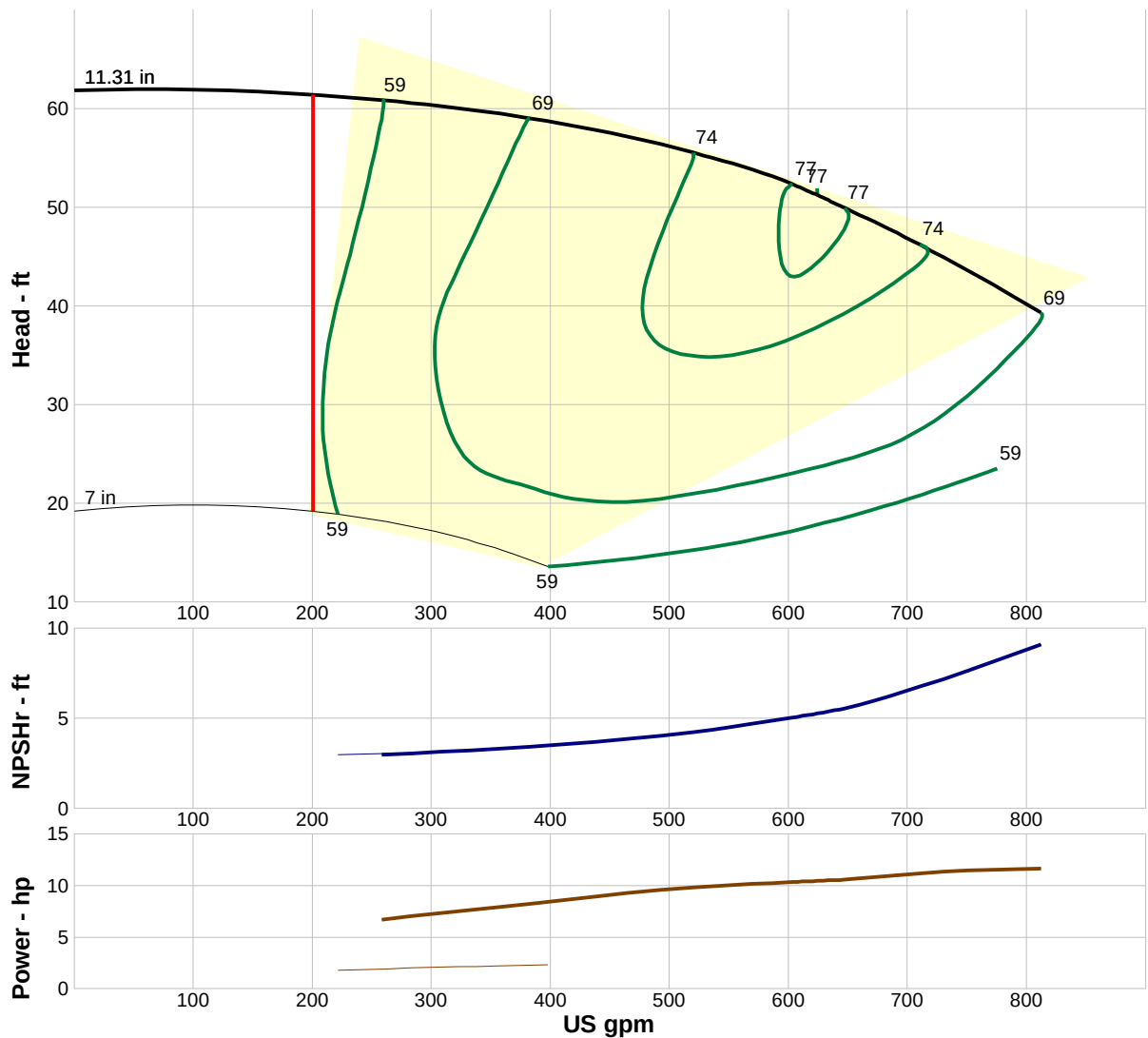
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 15 hp
Speed: 1200
Frame: 284T

Pump Limits:

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

---- Data Point ----	
Flow:	624 US gpm
Head:	51.2 ft
Eff:	77%
Power:	10.5 hp
NPSHr:	5.27 ft
---- Design Curve ----	
Shutoff head:	61.8 ft
Shutoff dP:	26.7 psi
Min flow:	200 US gpm
BEP:	77% @ 624 US gpm
NOL power:	11.7 hp @ 812 US gpm
-- Max Curve --	
Max power:	11.7 hp @ 812 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
780	1170	41.5	71	11.5	8.38
650	1170	49.7	77	10.6	5.63
520	1170	55.5	74	9.85	4.24
390	1170	58.8	69	8.35	3.48
260	1170	60.8	59	6.75	3.01