

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"5822
Type: 5800-HSC
Synch speed: 1200 rpm
Curve: 220406C
Specific Speeds:
Dimensions:
Speed: 1170 rpm
Dia: 11.31 in
Impeller: D4B1C
Ns: 1271
Nss: 6329
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

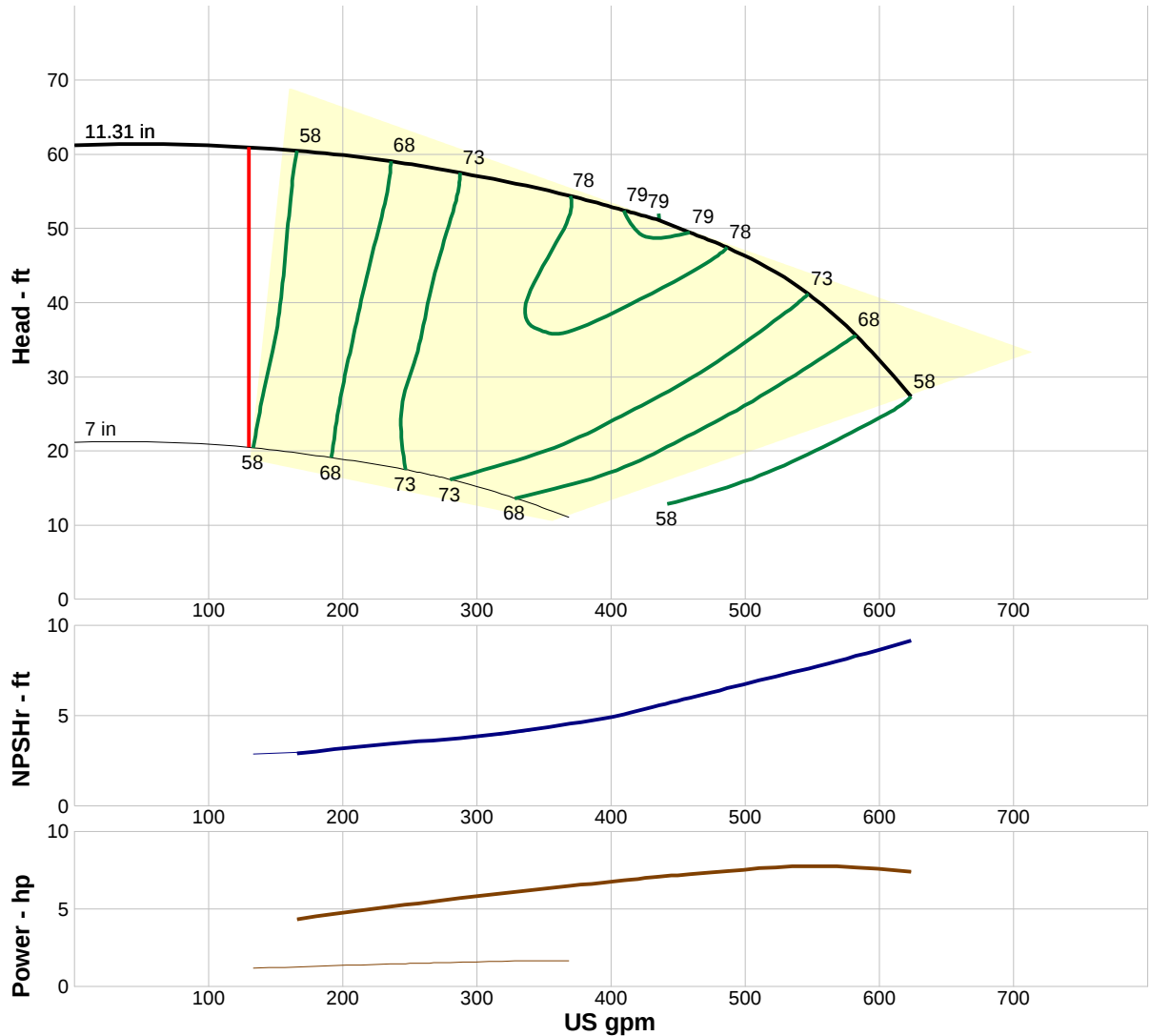
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 10 hp
Speed: 1200
Frame: 256T

Pump Limits:

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

---- Data Point ----	
Flow:	436 US gpm
Head:	51.1 ft
Eff:	79%
Power:	7.11 hp
NPSHr:	5.58 ft
---- Design Curve ----	
Shutoff head:	61.2 ft
Shutoff dP:	26.5 psi
Min flow:	130 US gpm
BEP:	79% @ 436 US gpm
NOL power:	7.79 hp @ 547 US gpm
-- Max Curve --	
Max power:	7.79 hp @ 547 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
599	1170	32.2	64	7.58	8.66
499	1170	46.1	77	7.54	6.76
399	1170	52.9	79	6.77	4.95
299	1170	57	74	5.83	3.89
200	1170	59.8	63	4.76	3.18