

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"5876
Type: 5800-HSC
Synch speed: 3600 rpm
Curve: 760602A
Specific Speeds:
Dimensions:
Speed: 3565 rpm
Dia: 10 in
Impeller: G6B1A
Ns: 2206
Nss: 14745
Suction: 10 in
Discharge: 6 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

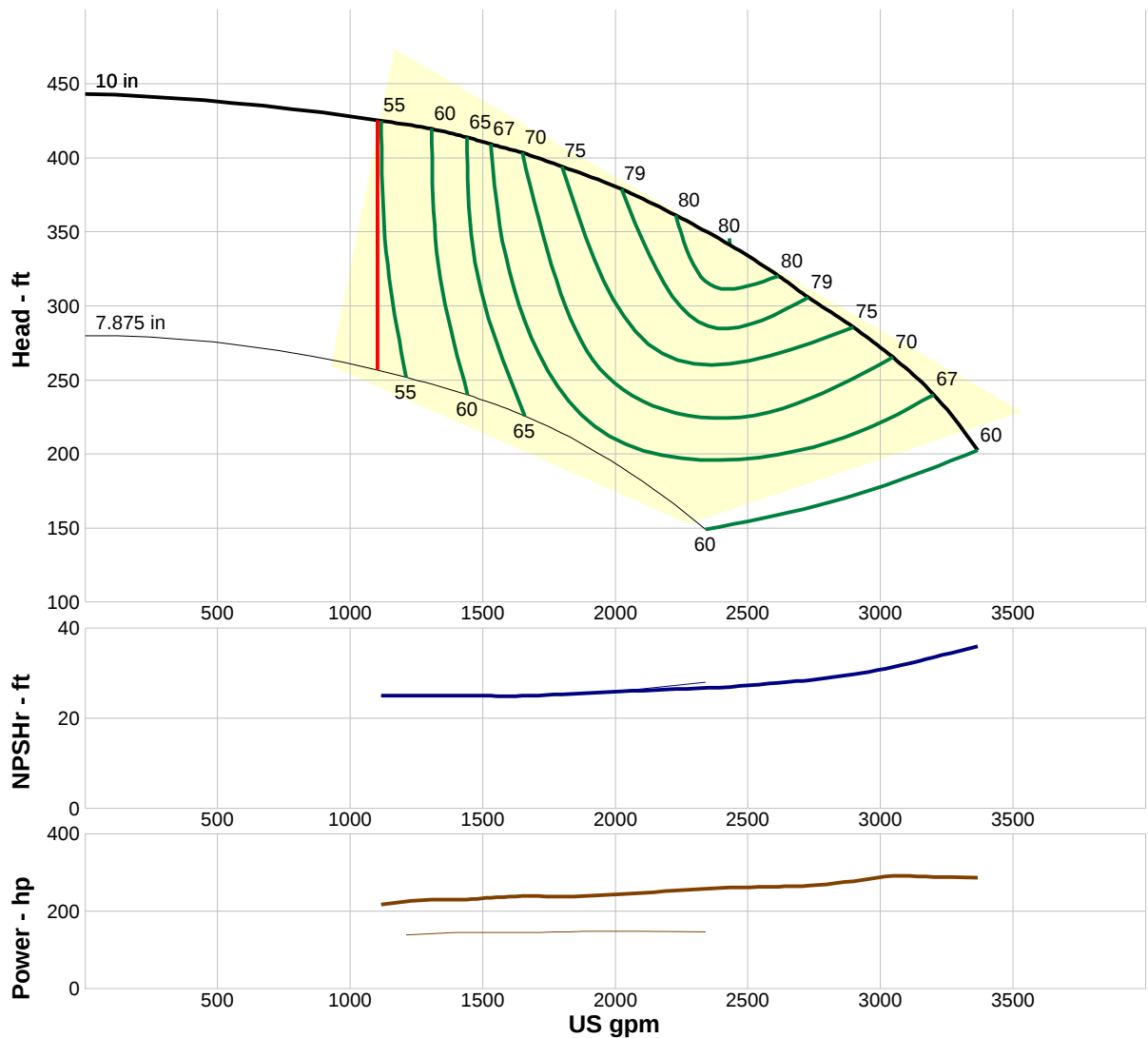
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 300 hp
Speed: 3600
Frame: 449TS

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 0.63 in
Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	2430 US gpm
Head:	341 ft
Eff:	80%
Power:	261 hp
NPSHr:	27 ft
---- Design Curve ----	
Shutoff head:	443 ft
Shutoff dP:	192 psi
Min flow:	1100 US gpm
BEP:	80% @ 2430 US gpm
NOL power:	291 hp @ 3045 US gpm
-- Max Curve --	
Max power:	291 hp @ 3045 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3230	3565	233	66	289	34.1
2692	3565	310	79	266	28.3
2154	3565	367	80	251	26.3
1615	3565	405	69	239	25
1077	3565	---	---	---	---