

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 10LC-2C (1 stage)
 Type: Vertical
 Synch speed: 3450 rpm
 Curve: 10LC-2C
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 7.5 in
 Impeller:
 Ns: 3450
 Nss: ---
 Suction: --- in
 Discharge: --- 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

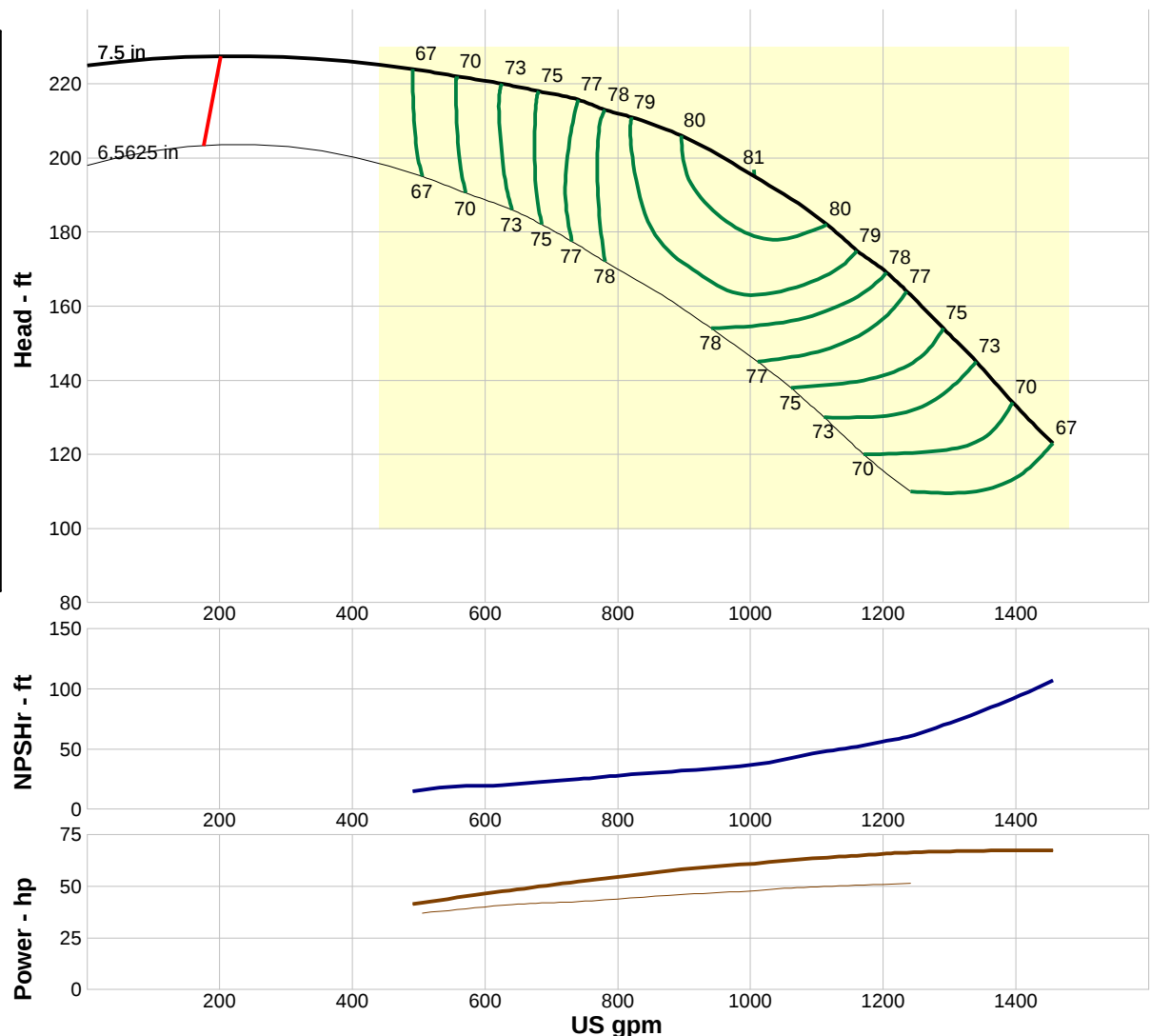
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 --- hp
 Speed: ---
 Frame: ---

Pump Limits:

Temperature: 140 °F
 Pressure: 540 psi g
 Sphere size: 1.5 in
 Power: 150 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	1005 US gpm
Head:	195 ft
Eff:	81%
Power:	61.1 hp
NPSHr:	37 ft
---- Design Curve ----	
Shutoff head:	225 ft
Shutoff dP:	97.3 psi
Min flow:	201 US gpm
BEP:	81% @ 1005 US gpm
NOL power:	67.5 hp @ 1455 US gpm
-- Max Curve --	
Max power:	67.5 hp @ 1455 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1397	3450	134	69.9	67.4	92.5
1164	3450	174	78.9	65	52.4
931	3450	202	80.3	59.1	33.6
698	3450	217	75.6	50.6	23.3
466	3450	224	65.9	40.2	13.6