



Company: National Energy Equipment

Name:

Date: 5/8/2009

**Pump:**

Size: RS5A-B-1  
 Type: RS/RD-Series  
 Synch speed: 1800 rpm  
 Curve: RS5A-B-1  
 Specific Speeds:  
 Dimensions:  
 Speed: 1750 rpm  
 Dia: 13.25 in  
 Impeller: 38623-531  
 Ns: ---  
 Nss: ---  
 Suction: 6 in  
 Discharge: 5 in

**Search Criteria:**

Flow: --- Head: ---

**Fluid:**

Water  
 SG: 1  
 Viscosity: 1.105 cP  
 NPSHa: ---  
 Temperature: 60 °F  
 Vapor pressure: 0.2563 psi a  
 Atm pressure: 14.7 psi a

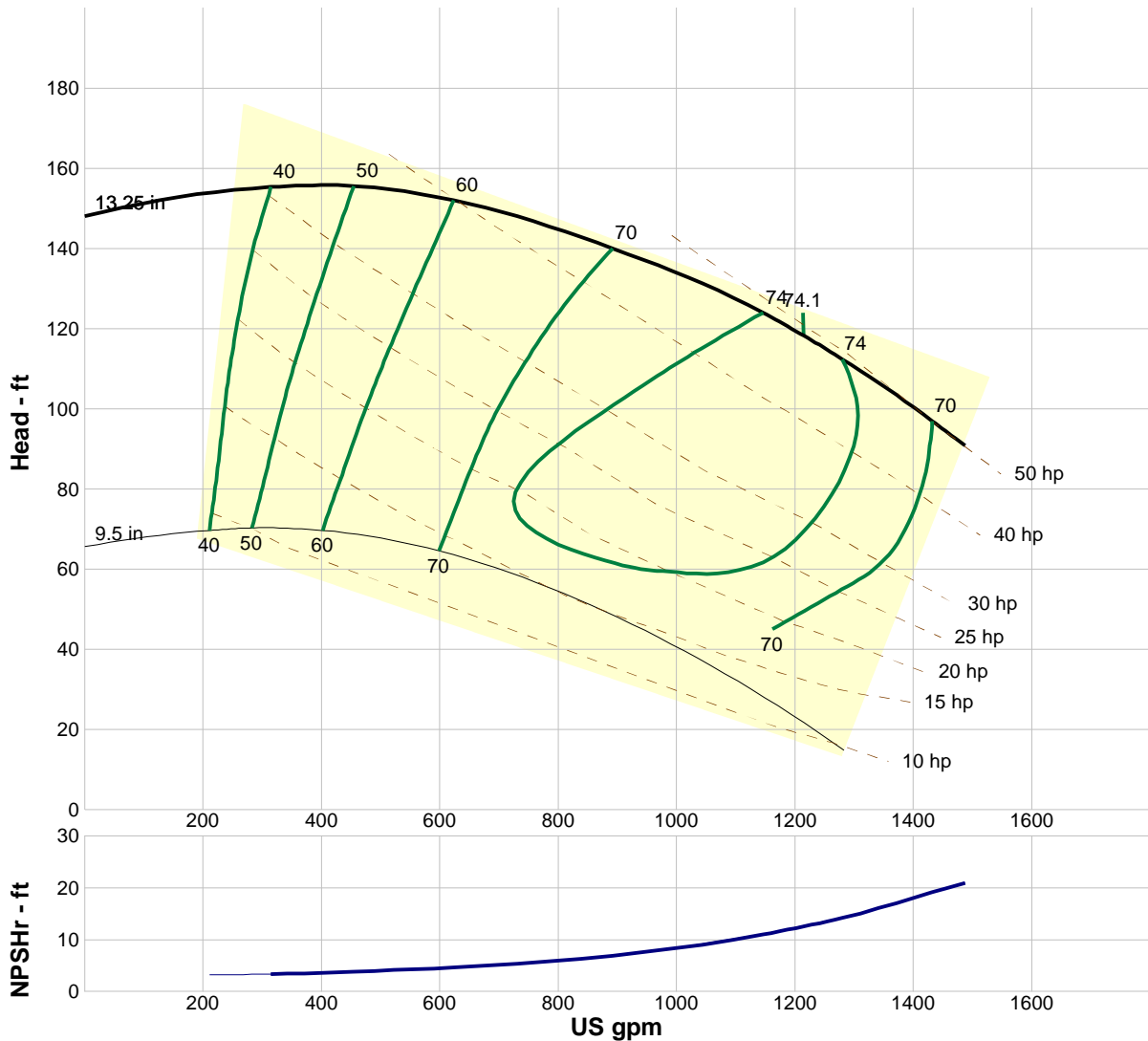
**Motor:**

Standard: NEMA  
 Enclosure: TEFC  
 Sizing criteria: Max Power on Design Curve  
 Size: 60 hp  
 Speed: 1800  
 Frame: 364T

**Pump Limits:**

Temperature: ---  
 Pressure: ---  
 Sphere size: ---  
 Power: ---  
 Eye area: ---

---- Data Point ----	
Flow:	1214 US gpm
Head:	118 ft
Eff:	74.1%
Power:	48.9 hp
NPSHr:	12.6 ft
---- Design Curve ----	
Shutoff head:	148 ft
Shutoff dP:	64 psi
Min flow:	---
BEP:	74.1% @ 1214 US gpm
NOL power:	50.1 hp @ 1486 US gpm
-- Max Curve --	
Max power:	50.1 hp @ 1486 US gpm



**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1427	1750	97.4	70.1	50	19.1
1189	1750	120	74.1	48.8	12
951	1750	136	70.9	45.8	7.89
713	1750	148	63.4	41.6	5.43
476	1750	155	51.3	36.2	3.97