



Company: National Energy Equipment

Name:

Date: 5/8/2009

Pump:

Size: RS3A-B-1
 Type: RS/RD-Series
 Synch speed: 1800 rpm
 Curve: RS3A-B-1
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 12.25 in
 Impeller: 38623-530
 Ns: ---
 Nss: ---
 Suction: 4 in
 Discharge: 3 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: 25 hp
 Speed: 1800
 Frame: 284T

Pump Limits:

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

---- Data Point ----

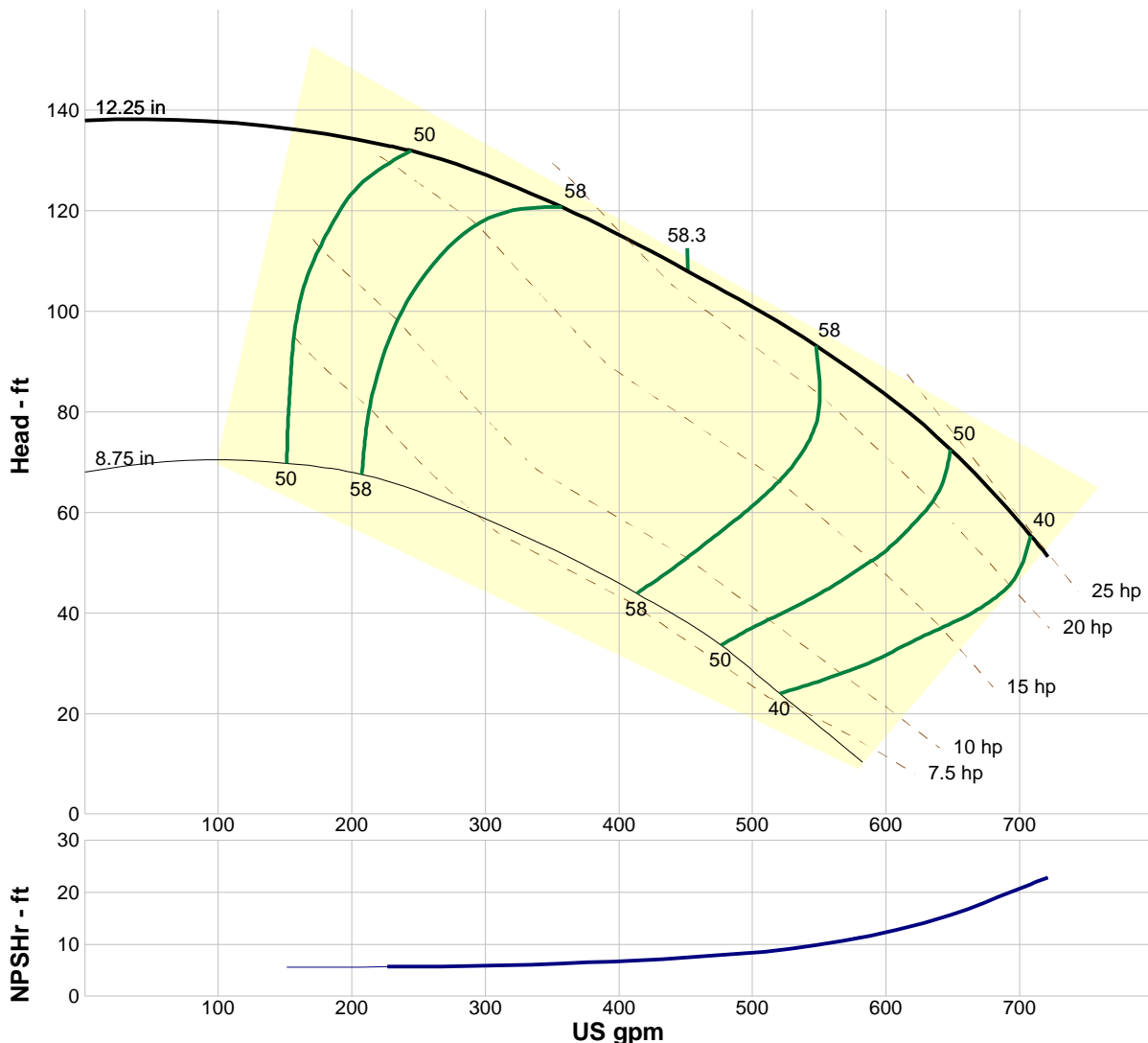
Flow: 451 US gpm
 Head: 108 ft
 Eff: 58.3%
 Power: 21.1 hp
 NPSHr: 7.5 ft

---- Design Curve ----

Shutoff head: 138 ft
 Shutoff dP: 59.7 psi
 Min flow: ---
 BEP: 58.3% @ 451 US gpm
 NOL power:
 24.9 hp @ 721 US gpm

-- Max Curve --

Max power:
 24.9 hp @ 721 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
692	1750	60	42.7	24.5	20
577	1750	87.1	55.6	22.7	11.6
462	1750	106	58.3	21.2	7.76
346	1750	122	57.2	18.5	6.27
231	1750	133	48.5	15.9	5.68