



Company: National Energy Equipment

Name:

Date: 5/8/2009

Pump:

Size: 64K-B-4
 Type: 60-Series
 Synch speed: 3600 rpm
 Curve: 64K-B-4
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 10.25 in
 Impeller: N18952
 Ns: ---
 Nss: ---
 Suction: 6 in
 Discharge: 4 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: 100 hp
 Speed: 3600
 Frame: 405TS

Pump Limits:

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

---- Data Point ----

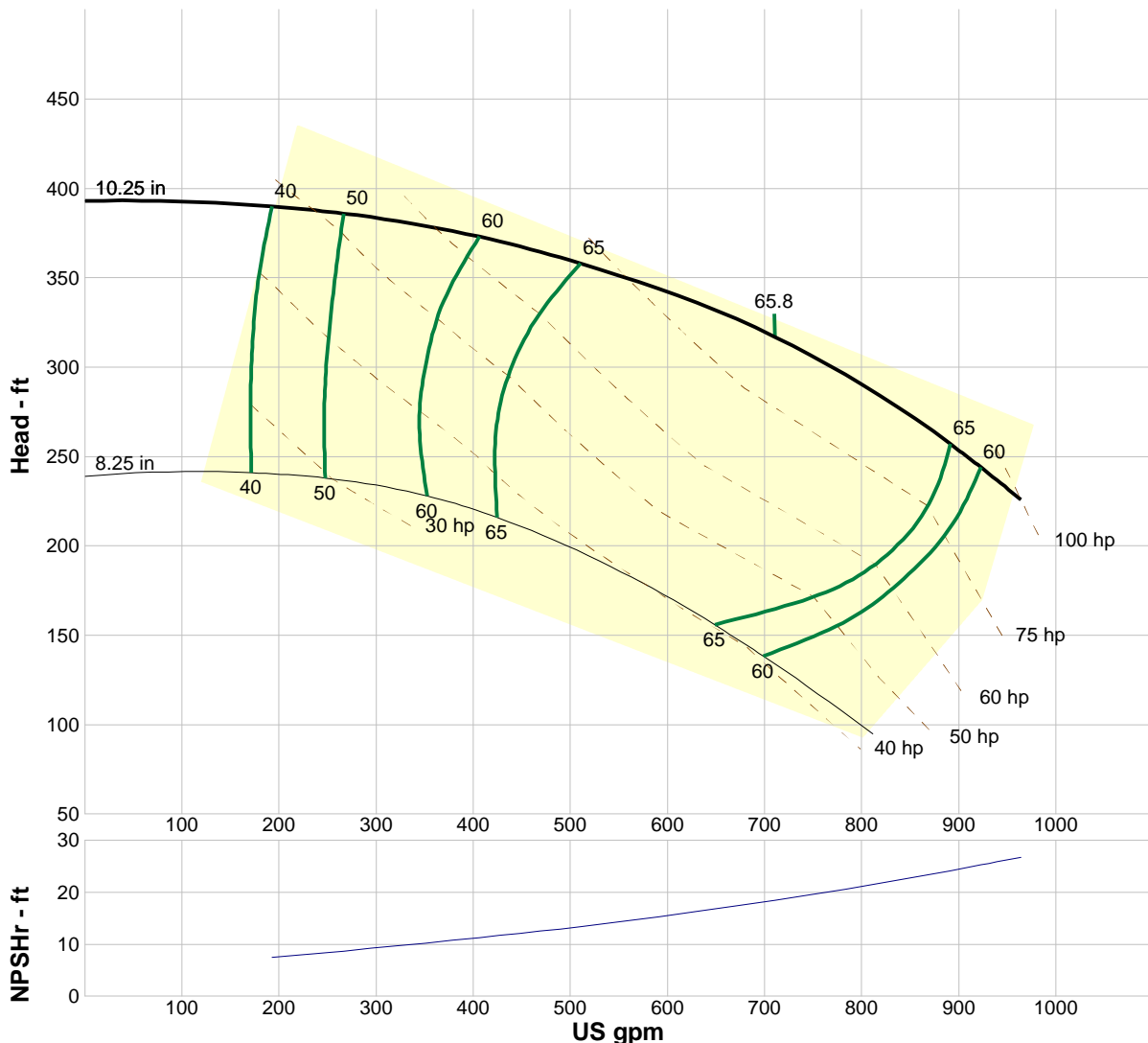
Flow: 710 US gpm
 Head: 317 ft
 Eff: 65.8%
 Power: 86.4 hp
 NPSHr: 18.5 ft

---- Design Curve ----

Shutoff head: 393 ft
 Shutoff dP: 170 psi
 Min flow: ---
 BEP: 65.8% @ 710 US gpm
 NOL power:
 99.9 hp @ 963 US gpm

-- Max Curve --

Max power:
 99.9 hp @ 963 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
924	3450	243	59.8	94.9	25.4
770	3450	297	65.5	87.2	20.4
616	3450	336	65.4	79.1	16.1
462	3450	365	62.7	67.6	12.4
308	3450	382	53	55.4	9.5