



Company: National Energy Equipment

Name:

Date: 5/8/2009

Pump:

Size: 63E-B-3
 Type: 60-Series
 Synch speed: 3600 rpm
 Curve: 63E-B-3
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 8.5 in
 Impeller: K76519
 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: 75 hp
 Speed: 3600
 Frame: 365TS

Pump Limits:

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

---- Data Point ----

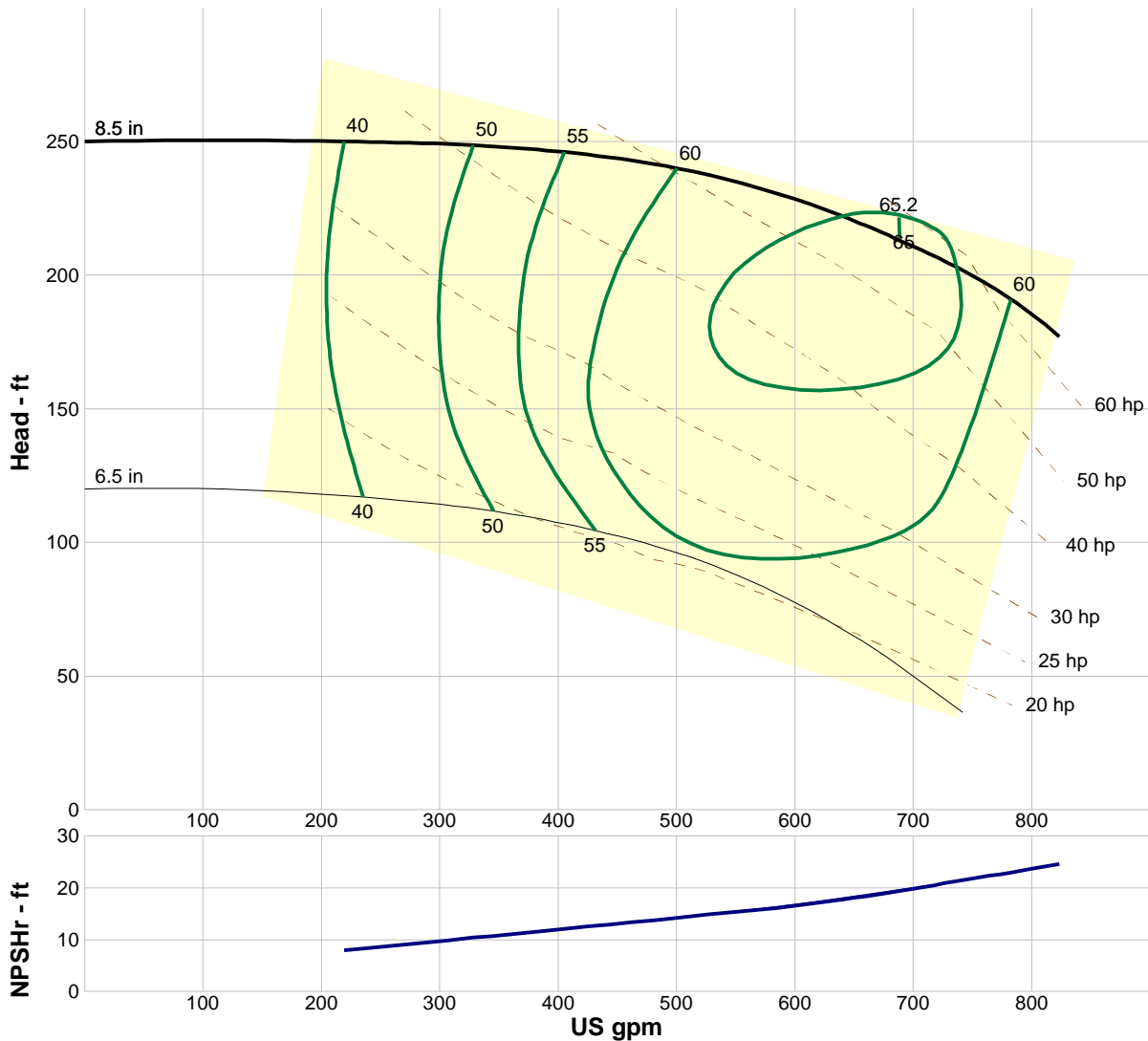
Flow: 688 US gpm
 Head: 213 ft
 Eff: 65.2%
 Power: 56.8 hp
 NPSHr: 19.4 ft

---- Design Curve ----

Shutoff head: 250 ft
 Shutoff dP: 108 psi
 Min flow: ---
 BEP: 65.2% @ 688 US gpm
 NOL power:
 64.5 hp @ 823 US gpm

-- Max Curve --

Max power:
 64.5 hp @ 823 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
790	3450	188	59.4	63.2	23.3
658	3450	219	65.1	55.8	18.4
526	3450	237	60.9	51.4	14.9
395	3450	246	54.4	45.2	11.9
263	3450	249	44	37.2	8.96