

PUMP

UNIT: PUM041

PERFORMANCE

Maximum Operating Pressure*	275 psi (kPa)
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DRIVE

Model	Toshiba
Horse Power	5
RPM	3500
Volts	460
Amps	5.8
Hertz	60

PUMP

Model	MN#1196
Flow Rate	240 m3/day
Oulet	25.4 (mm) 1 inch
Inlet	38.1 (mm) 1.5 inch
Impellor	152.4 (mm) 6 inch
Net Positive Suction Head	2.37 (m) 7.8 feet



SHIPPING DIMENSIONS

Width	254(mm) 10 inches
Length	990 (mm) 39 inches
Height	355 (mm) 14 inches
Weight Estimate	141(kg) 311 lbs

CERTIFICATION

Drive	Class 1, Div 2
Pump	CSA



Company:
Name:
Date: 06/10/2024



Pump:

Size: 1X1.5-6 AA Dimensions:
Type: ANSI 1196 Suction: 1.5 in
Synch Speed: 3600 rpm Discharge: 1 in
Dia: 6.0625 in
Curve: ---

Fluid:

Name: Water
SG: 1 Vapor Pressure: 0.256 psi a
Density: 62.4 lb/ft³ Atm Pressure: 14.7 psi a
Viscosity: 1.1 cP
Temperature: 60 °F Margin Ratio: 1

Search Criteria:

Flow: --- Near Miss: ---
Head: --- Static Head: 0 ft

Pump Limits:

Temperature: --- Sphere Size: 0.344 in
Wkg Pressure: ---

Motor:

Standard: NEMA Size: 7.5 hp
Enclosure: TEFC Speed: 3600 rpm
Frame: 213T
Sizing Criteria: Max Power on Design Curve

Pump Selection Warnings:

None

--- Duty Point ---

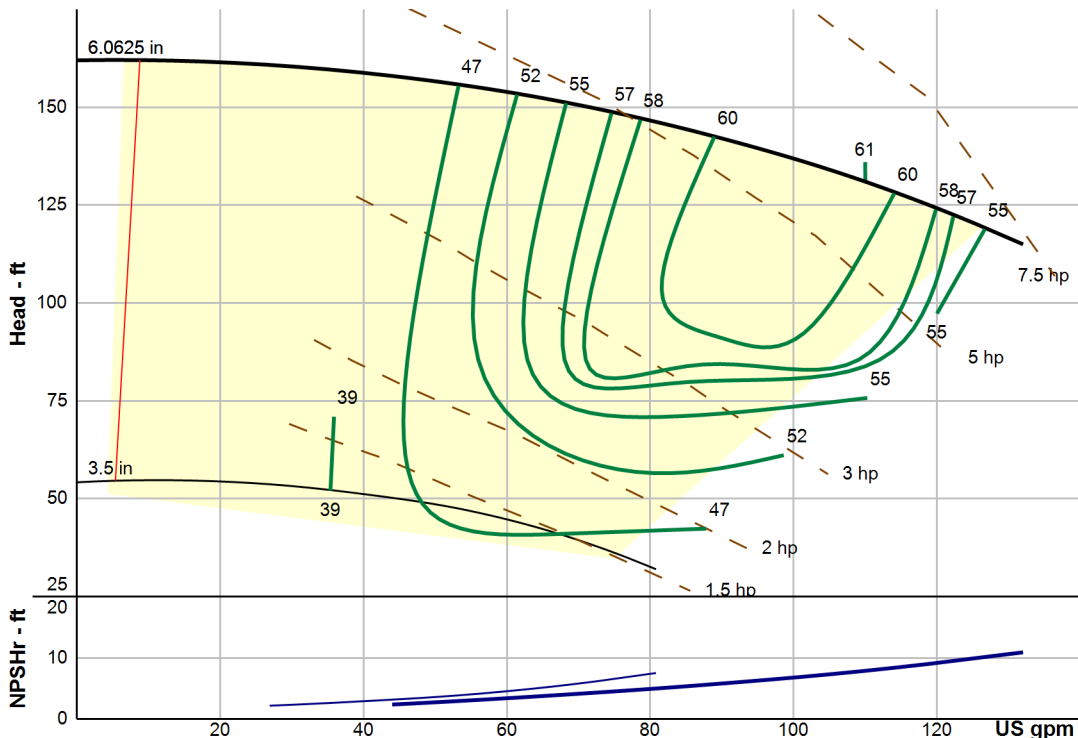
Flow: 110 US gpm
Head: 131 ft
Eff: 61%
Power: 5.97 hp
NPSHr: 7.88 ft
Speed: 3550 rpm

--- Design Curve ---

Shutoff Head: 162 ft
Shutoff dP: 70.2 psi
Min Flow: 8.8 US gpm
BEP: 61% @ 110 US gpm
NOL Power:
7.37 hp @ 132 US gpm

--- Max Curve ---

Max Power:
7.37 hp @ 132 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
127	3550	119	54	7.05	10.2
106	3550	133	60.8	5.84	7.47
84.8	3550	144	59.1	5.21	5.36
63.6	3550	153	52.6	4.65	3.67
42.4	3550	158	40.1	4.25	2.37