

Pump Data Sheet -

Company:
Name:
Date: 05/20/2025



Pump:

Size: 3x4-8A
Type: FM2 Cast Iron
Synch Speed: 1200 rpm
Dia: 7.25 in
Curve: ---
Impeller: CC-IMPELLER-24

Dimensions:

Suction: 4 in
Discharge: 3 in

Fluid:

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

Pump Limits:

Temperature: ---
Wkg Pressure: ---
Sphere Size: 0.62 in

Motor:

Standard: NEMA
Enclosure: TEFC
Frame: 184T
Sizing Criteria: Max Power on Design Curve
Size: 2 hp
Speed: 1200 rpm

Search Criteria:

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

Pump Selection Warnings:

None

--- Duty Point ---

Flow: 186 US gpm
Head: 20 ft
Eff: 72.1%
Power: 1.31 hp
NPSHr: 13.4 ft
Speed: 1200 rpm

--- Design Curve ---

Shutoff Head: 22.4 ft
Shutoff dP: 9.69 psi
Min Flow: 55.8 US gpm
BEP: 72.1% @ 186 US gpm
NOL Power: 1.5 hp @ 289 US gpm

--- Max Curve ---

Max Power: 1.98 hp @ 341 US gpm

PEI_{CL}: 1.0

PEI_{VL}: ---

ER_{CL}: ---

ER_{VL}: ---

PEI_{CL} is reported at 1800 RPM.

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
296	1200	12.1	60.3	1.5	22.1
247	1200	16.2	69.3	1.46	17.5
198	1200	19.3	71.9	1.34	14.1
148	1200	21.6	68.7	1.18	11.6
98.8	1200	22.8	59	0.965	10.1

