

Pump Performance Datasheet

Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	50123 LC
Tag Number : 001	Stages :	1
Service :	Based on curve number :	RC1997-SS Rev 0
Quantity : 1	Basic model number :	-
	Date last saved :	09/14/2023 6:18 PM

Operating Conditions		Liquid	
Flow, rated	: 905.0 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 79.67 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 79.67 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG

Performance		Material	
Speed, rated	: 1780 rpm	Material selected	: Cast iron
Impeller diameter, rated	: 9.63 in		
Impeller diameter, maximum	: 12.10 in		
Impeller diameter, minimum	: 9.00 in		

Performance		Pressure Data	
Efficiency	: 80.25 %	Maximum working pressure	: 43.29 psi.g
NPSH required / margin required	: 7.87 / 0.00 ft	Maximum allowable working pressure	: 175.0 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 31 / 240 Metric units	Maximum allowable suction pressure	: 175.0 psi.g
MCSF	: 260.2 USgpm	Hydrostatic test pressure	: 263.0 psi.g
Head, maximum, rated diameter	: 100.0 ft		
Head rise to shutoff	: 21.70 %		

Performance		Driver & Power Data (@Max density)	
Flow, best eff. point	: 905.0 USgpm	Motor sizing specification	: Max power (non-overloading)
Flow ratio, rated / BEP	: 100.00 %	Margin over specification	: 0.00 %
Diameter ratio (rated / max)	: 79.59 %	Service factor	: 1.00
Head ratio (rated dia / max dia)	: 54.44 %	Power, hydraulic	: 18.20 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Rated power (based on duty point)	: 22.68 hp
Selection status	: Acceptable	Max power (non-overloading)	: 24.96 hp
		Nameplate motor rating	: 25.00 hp / 18.64 kW

Energy Indexes	
PEI (CL)	: 0.96
ER (CL)	: 4

