

Pump Performance Datasheet

Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	40129 LC
Tag Number : 001	Stages :	1
Service :	Based on curve number :	RC9866-2 Rev 1
Quantity : 1	Basic model number :	-
	Date last saved :	09/18/2023 4:58 PM

Operating Conditions		Liquid	
Flow, rated	: 1,027.1 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 114.7 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 114.7 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
		Viscosity, rated	: 1.00 cP
		Vapor pressure, rated	: 0.34 psi.a

Performance		Material	
Speed, rated	: 1780 rpm	Material selected	: Cast iron
Impeller diameter, rated	: 11.08 in		
Impeller diameter, maximum	: 12.10 in		
Impeller diameter, minimum	: 8.00 in		
Efficiency	: 83.31 %		

Performance		Pressure Data	
NPSH required / margin required	: 13.14 / 0.00 ft	Maximum working pressure	: 60.56 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 28 / 162 Metric units	Maximum allowable working pressure	: 175.0 psi.g
MCSF	: 280.1 USgpm	Maximum allowable suction pressure	: 175.0 psi.g
Head, maximum, rated diameter	: 139.9 ft	Hydrostatic test pressure	: 263.0 psi.g
Head rise to shutoff	: 17.84 %		
Flow, best eff. point	: 1,027.1 USgpm		
Flow ratio, rated / BEP	: 100.00 %		
Diameter ratio (rated / max)	: 91.57 %		
Head ratio (rated dia / max dia)	: 78.52 %		
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

Energy Indexes		Driver & Power Data (@Max density)	
PEI (CL)	: 0.94	Motor sizing specification	: Max power (non-overloading)
ER (CL)	: 6	Margin over specification	: 0.00 %
		Service factor	: 1.00
		Power, hydraulic	: 29.74 hp
		Rated power (based on duty point)	: 35.70 hp
		Max power (non-overloading)	: 39.93 hp
		Nameplate motor rating	: 40.00 hp / 29.83 kW

