

Pump Performance Datasheet

Customer :	Project Number / ID :	1119494
Customer ref. / PO :	Model :	12709 LF
Tag Number : 007	Stages :	1
Service :	Based on curve number :	RC2275-1-SS Rev 1
Quantity : 1	Basic model number :	-
	Date last saved :	02/21/2020 2:32 PM

Operating Conditions	Liquid
Flow, rated : 100.0 USgpm	Liquid type : Cold Water
Differential head / pressure, rated (requested) : 125.0 ft	Additional liquid description :
Differential head / pressure, rated (actual) : 124.8 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
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
Speed, rated : 3530 rpm
Impeller diameter, rated : 5.72 in
Impeller diameter, maximum : 7.10 in
Impeller diameter, minimum : 5.00 in
Efficiency : 62.04 %
NPSH required / margin required : 24.10 / 0.00 ft
nq (imp. eye flow) / S (imp. eye flow) : 16 / 58 Metric units
MCSF : 62.75 USgpm
Head, maximum, rated diameter : 145.4 ft
Head rise to shutoff : 14.51 %
Flow, best eff. point : 117.8 USgpm
Flow ratio, rated / BEP : 84.90 %
Diameter ratio (rated / max) : 80.56 %
Head ratio (rated dia / max dia) : 57.87 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] : 1.00 / 1.00 / 1.00 / 1.00
Selection status : Acceptable

Energy Indexes
PEI (CL) : 0.88
ER (CL) : 12

Material
Material selected : Cast iron

Pressure Data
Maximum working pressure : 62.92 psi.g
Maximum allowable working pressure : 175.0 psi.g
Maximum allowable suction pressure : 175.0 psi.g
Hydrostatic test pressure : 263.0 psi.g

Driver & Power Data (@Max density)
Motor sizing specification : Max power (non-overloading)
Margin over specification : 0.00 %
Service factor : 1.00
Power, hydraulic : 3.16 hp
Rated power (based on duty point) : 5.09 hp
Max power (non-overloading) : 7.00 hp
Nameplate motor rating : 7.50 hp / 5.59 kW

